

# **January 6, 2023**

# **Carmel High School Greyhound Activity Center**

E. Smoky Row Rd Carmel, IN 46033

# **TO: ALL BIDDERS OF RECORD**

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, Specifications, and Drawings dated December 1, 2022, by Fanning Howey. 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 thru ADD. 1-3 and attached Fanning Howey Addendum No. 1 dated January 6<sup>th</sup>, 2023, Specification Sections 26 56 00 – Exterior Lighting and 33 29 00 – Well Abandonment, Revised Project Manual Sections: 08 45 13 – Structured-Polycarbonate-Panel Assemblies and 32 92 00 – Turf and Grasses, Revised Drawing Sheets: Cover, Index, GD1.3, G1.3, G2.3, G4.1, G4.2, G4.3, G4.4, G5.2, SU1.0, SU1.3, SU1.5, SU2.1, SU2.2, S1.02, A1.01, A1.02, A1.03, A3.01, A5.01, A6.01, A7.01, A8.01, A8.03, A9.01, PFP.01, P2.00, P2.01, P2.02, P3.02, P4.01, M2.01, M5.01, E1.1, E1.2, E2.1, E3.01, E3.17, E4.1, E5.1, E6.1, E7.1, T1.01, T2.01 and T3.01.

# A. <u>SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY</u>

1. Paragraph 3.03 Bid Categories

# B. Bid Category No. 2 – General Trades

# Add the following Specifications

Section	06 20 23	Interior Finish Carpentry
Section	10 11 00	Visual Display Units
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 29 00	Well Abandonment
Section	33 46 00	Subdrainage

# Revise the following Clarifications

15. Contractor to construct the building pad to 12" below finished floor elevation and then cap with 6" of #53 crushed stone (top of stone to be 6" below FFE). Soil separator fabric to be installed under stone base within the turf footprint of the building. Work to be completed prior to Bid Category No. 1 Metal Building Contractor starting erection of the metal building.

16. Bid Category No. 7 responsible for stone base and fine crushed limestone leveling course starting from -6" to finish floor elevation in the synthetic turf footprint only. Bid Category No. 2 General trades is responsible for the stone base under slabs and concrete within the remainder of the building footprint.

# Add the following Clarifications

17. General Trades Contractor will be responsible to touch up the stone base within the turf field to -6" from finish floor elevation prior to Bid Category No. 7 – Synthetic Turf contractor mobilizing.

# D. Bid Category No. 4 – Metal Studs, Drywall, and Ceilings

Delete the following Specifications

Section 06 20 23 Interior Finish Carpentry

# Add the following Clarifications

5. All blocking required for the metal liner panel or additional mid-span supports attached to the metal studs are to be provided by the Bid Category No. 1 – Metal Building Contractor

# G. Bid Category No. 7 – Synthetic Turf

# Add the following Clarification

3. Provide underdrain system on west side of building under synthetic turf grass belt as shown in Detail L on Sheet G4.1

# J. <u>Bid Category No. 10 – Electrical and Technology</u>

# Add the following Specifications

Section 26 55 00 Exterior Lighting

# B. SPECIFICATION SECTION 01 21 00 - ALLOWANCES

# Replace

# 1. Part 3 – Execution

Paragraph 3.02 – Contingency Allowances

А.	Bid Category No. 2 General Trades	\$200,000
B.	Bid Category No. 3 Masonry	\$20,000
C.	Bid Category No. 4 Metal Stud, Drywall, and Ceilings	\$15,000
D.	Bid Category No. 5 Glass and Glazing	\$15,000
E.	Bid Category No. 6 Painting	\$15,000
F.	Bid Category No. 7 Synthetic Turf	\$20,000
G.	Bid Category No. 8 Fire Protection	\$15,000
H.	Bid Category No. 9 Mechanical and Plumbing	\$50,000
I.	Bid Category No. 10 Electrical and Technology	\$50,000

# C. SPECIFICATION SECTION 01 53 10 - FENCES

# Part 2 - Products

# 2.01 Materials

# Delete

A. The last sentence. (Allow for 500 Lineal Feet)

## ADDENDUM NO.1

Carmel High School – Greyhound Activity Center

Project No. 222063.00

Carmel Clay Schools Carmel, Indiana

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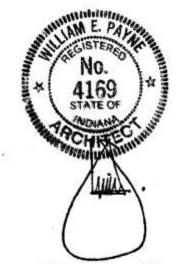
Addendum No. 1, 14 items, 6 pages

New Project Manual Sections: 26 56 00 – Exterior Lighting and 33 29 00 – Well Abandonment Revised Project Manual Sections: 08 45 13 – Structured-Polycarbonate-Panel Assemblies and 32 92 00 – Turf and Grasses Revised Drawing Sheets: Cover, Index, GD1.3, G1.3, G2.3, G4.1, G4.2, G4.3, G4.4, G5.2, SU1.0, SU1.3,

SU1.5, SU2.1, SU2.2, S1.02, A1.01, A1.02, A1.03, A3.01, A5.01, A6.01, A7.01, A8.01, A8.03, A9.01, PFP.01, P2.00, P2.01, P2.02, P3.02, P4.01, M2.01, M5.01, E1.1, E1.2, E2.1, E3.01, E3.17, E4.1, E5.1, E6.1, E7.1, T1.01, T2.01 and T3.01

Date: January 6, 2023

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



William E. Payne, AIA Indiana Registration No. 4169

# TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated December 1, 2022 for Carmel High School – Greyhound Activity Center for Carmel Clay Schools, 5201 East Main Street, Carmel, Indiana 46033; 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. Book 3, Page 00 01 10-1, DIVISION 26: Add Section 26 56 00 Exterior Lighting
- B. Book 3, Page 00 01 10-2, DIVISION 33: Add Section 33 29 00 Well Abandonment

### ITEM NO. 2. <u>NEW PROJECT MANUAL SECTION(S)</u>

A. New Project Manual Sections 26 56 00 – Exterior Lighting and 33 29 00 – Well Abandonment, dated 1/6/23, are included with and hereby made a part of this Addendum.

# ITEM NO. 3. REVISED PROJECT MANUAL SECTIONS

A. Section 08 45 13 – Structured-Polycarbonate-Panel Assemblies and 32 92 00 – Turf and Grasses have been revised, dated 1/6/23, and is included with and hereby made a part of this Addendum.

### ITEM NO. 4. <u>PROJECT MANUAL, SECTION 07 27 26.02 – VAPOR-PERMEABLE FLUID-APPLIED</u> <u>MEMBRANE AIR BARRIER</u>

- A. Article 2.3, A., 3: Change "Perm-A-Barrier VP" to "<u>Perm-A-Barrier VPL 50RS</u>" at beginning of paragraph.
- B. Article 2.3, A., 4: Change "90 mils (wet)" to "manufacturers standard 20 mils (wet/dry)".

### ITEM NO. 5. PROJECT MANUAL, SECTION 10 28 00 - TOILET, BATH, AND LAUNDRY ACCESSORIES

- A. Add 1.1, A., 4., as follows:
  - "4. Childcare/special needs accessories."

- B. Add Article 2.6 as follows:
  - 2.6 CHILDCARE/SPECIAL NEEDS ACCESSORIES
    - A. Manufacturers: Subject to compliance with requirements, provide products by one of following:
      - 1. AJW Architectural Products.
      - 2. American Infant Care Products Inc.
      - 3. American Specialties, Inc.
      - 4. Foundations Worldwide Inc.
      - 5. Koala Corporation; KB 200.
      - 6. Safe-Strap Company, Inc.
    - B. Diaper-Changing Station (DCS):
      - 1. Horizontal, Surface-Mounted Unit: Diaper-changing station with surfacemounted, mildew-resistant, molded-polyethylene body that folds horizontally against wall when not in use; projects not more than 4 inches from wall when closed; and is engineered to support a minimum of 250-pound static weight when opened. Provide unit with pneumatic shock-absorbing operating mechanism and built-in dispenser for sanitary liners.
        - a. Color shall be selected by A/E from manufacturer's standards.
- C. Add 3.2, D., as follows:
  - "D. Changing Stations: Install in accordance with manufactured instructions.
    - 1. Changing stations and other accessories shall be installed to comply with requirements for accessible mounting heights, protrusions into accessible routes, and other requirements of ICC/ANSI A117.1.
    - 2. Install units so they are level, plumb, and secure.
    - 3. After installation, open and close units a minimum of 3 times. Verify units operate smoothly and properly latch. Adjust as required for proper safe use.
    - 4. Wash exposed surfaces using a solution of mild detergent in warm water, applied with soft, clean cloths. Do not use abrasives."

### ITEM NO. 6. PROJECT MANUAL, SECTION 10 43 13 – DEFIBRILLATOR CABINETS

- A. Add 2.3, B., as follows:
  - "B. Alarm System: System shall activate for a minimum of 2 minutes when door is opened and stop when door is closed. System shall be turned on or off using a key.
    - 1. Audible Alarm: Horn emitting a minimum of 85 decibels.
    - 2. Visual Alarm: Flashing strobe light.
    - 3. Power Source: Replaceable battery with low-power indicator.
    - 4. Provide total six (6) keys for each unit.

# ITEM NO. 7. PROJECT MANUAL, SECTION 11 66 00.00 – ATHLETIC EQUIPMENT

- A. Add 1.1, A., 3., as follows:
  - "3. Wall safety padding."
- B. Add Article 2.5 as follows:
  - 2.5 WALL-MOUNTED AND POST COLUMN SAFETY PADS
    - Wall Pads, General: All pads shall meet or exceed requirements of ASTM F2440-11.

- B. Safety Pad Surface-Burning Characteristics: Provide safety pads with flame-spread index of 25 or less and smoke-developed index of 450 or less, as determined by testing identical products per ASTM E 84 or NFPA 255 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Pad Covers: Provide safety pad fabric covers fabricated from puncture-and tearresistant, not less than 14 oz. PVC-coated polyester or nylon-reinforced PVC fabric treated with fungicide for mildew resistance, (lined with fire-retardant liner, where required to meet rating).
  - 5. Flame-Resistance Ratings: Passes NFPA 255.
- D. Wall Safety Pads: Padded wall wainscot panels designed to be attached in a continuous row; each panel section consisting of fill laminated to backer board with visible surfaces fully covered by seamless fabric cover, free from sag and wrinkles and firmly attached to back of backer board.
  - 1. Backer Board: Not less than 3/8 inch thick plywood, mat-formed, or composite panel, or fire-retardant-treated plywood per AWPA C27, Interior Type A.
  - 6. Fill: Multiple-impact-resistant foam not less than 2 inch thick bonded polyurethane, 6 lb. density.
  - 7. Size: Each panel section 24 inches wide by not less than 72 inches long, unless otherwise indicated on Drawings.
  - 8. Number of Panel Sections: As indicated on Drawings, modular panel sections.
  - 9. Installation Method: Concealed mounting Z-clips.
  - 10. Fabric Cover Colors: As selected by A/E from manufacturer's full range not just one "standard".
- E. Column Safety Pads: Pads covering exposed flange of 6 to 8 inch wide flange columns to height indicated, consisting of not less than 1-1/4 inch thick, multiple-impact-resistant, closed-cell polyethylene foam filler, covered both sides and all edges of pad by fabric cover with self-adhesive hook-and-loop attachment to exposed face of column.
  - 1. Length: Each pad not less than 72 inches, unless otherwise noted.
  - 2. Fabric Cover Color: Match color of wall safety pads.
  - 3. At structure main frame tapered columns, provide blocking/sheathing as required to provide continuous surface for padding and flush condition along with solid cap between webs of structure. Padding shall be vertical for the height of the padding at the front face.
- F. Products: Subject to compliance with requirements, provide either the scheduled product or a comparable product by one of the following:
  - 1. Porter
  - 2. Draper
  - 3. Performance Sports
  - 4. Jaypro Sports
  - 5. ADP Lemco

# ITEM NO. 8. PROJECT MANUAL, SECTION 12 93 00 – SITE FURNISHINGS AND AMENITIES

A. Delete this Section in its entirety.

# ITEM NO. 9. PROJECT MANUAL, SECTION 23 09 00 - HVAC Direct Digital Controls

A. Article 2.1 A.1.; delete Siemens Desigo as installed by Siemens Factory Branch.

## ITEM NO. 10. PROJECT MANUAL, SECTION 28 13 10 ACCESS CONTROL

A. Paragraph 2.1, A, 1; remove and replace with the following: "RS2 Technologies – Access It!, no equals. Contact Central Indiana Hardware, the district's preferred vendor, for pricing. Damir Husejnovic, Office: 317-558-5700, Mobile: 317-989-1514, Email: husejnovicd@cih-inc.com"

# ITEM NO. 11. PROJECT MANUAL, SECTION 31 20 00 - EARTH MOVING

- A. Add 1.1, A., 6., as follows:
  - "6. Subbase course and topping course for synthetic grass surfacing."
- B. Add 2.1, K. (after second J.), as follows:
  - "K. Synthetic Grass Surfacing Base Materials: The base materials are critical to the performance of the entire system and should contain the necessary components and characteristics to satisfy local conditions.
    - 1. Soil Separator: A geo-textile fabric shall be placed over the entire subgrade and within the pipe trenches prior to the installation of the base materials to minimize contamination of the aggregate and possible clogging of the perforated drainage pipes. Where soil conditions warrant, a polyethylene, PVC or other impermeable sheet liner may be used in lieu of the geo-textile to inhibit storm water infiltration into the subsoil.
    - 2. Aggregate: The aggregate materials utilized to construct the field base must be a properly, graded, crushed stone to provide a balance between stability and permeability. A highly fractured material is desirable to provide the surface stability required for the synthetic turf surfacing, supplemental padding or porous paving as applicable. The graded aggregate particle sizes must be tightly controlled to fall within the bandwidth for all specified sieve sizes with just enough fines to provide stability requirements should be determined and confirmed by an independent certified laboratory prior to construction of the base course.
      - a. Subbase material shall be 1 inch diameter, maximum as indicated on Drawings.
      - b. Topping course shall be open graded fine crushed stone as indicated on Drawings.
    - 3. Compaction: The base materials should be thoroughly compacted to prevent differential settlement across the field area. Minimum compaction levels should not be less than 90 percent density as measured by a standard proctor test. Special attention should be given to backfill compaction of any utility trenches that cross the field area.

# C. Add 2.3, B., as follows:

- "B. Separation Geotextile (Synthetic Grass Surfacing): Woven geotextile fabric, manufactured for separation applications, made from polyolefins or polyesters; with elongation less than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
  - 1. Survivability: Class 2; AASHTO M 288.
  - 2. Grab Tensile Strength: 247lbf; ASTM D 4632.
  - 3. Sewn Seam Strength: 222 lbf; ASTM D 4632.
  - 4. Tear Strength: 90 lbf; ASTM D 4533.
  - 5. Puncture Strength: 90 lbf; ASTM D 4833.
  - 6. Apparent Opening Size: No. 60 sieve, maximum; ASTM D 4751.
  - 7. Permittivity: 0.02 per second, minimum; ASTM D 4491.
  - 8. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.

- D. Add 3.1, D., as follows:
  - "D. Synthetic Grass Surfacing Subgrade Preparation: The subgrade should provide a stabilized foundation upon which base materials and subsequent components of playing field systems will be installed.
    - 1. Function: It should also provide the pitched surface on which storm water is directed toward the active drainage system for evacuation.
    - 2. Shape and Compaction: Prior to placement of base materials, the subgrade should be shaped to an appropriate profile and compacted by proof rolling to obtain a firm even surface. Depressed areas should be filled and unsuitable materials removed and replaced with clean fill or aggregate. Compaction should be performed to achieve a minimum of 90 percent in accordance with ASTM D698 Standard Proctor Method. The appropriate moisture content must be maintained in the field subgrade to allow for optimal levels of compaction.
      - 3. Subgrade (Rough) Planarity: The tolerances for the finished subgrade should not exceed one inch as measured by a 10 foot straight edge. Grading of the subgrade shall minimize ponding to the extent practical.
      - 4. Proof-roll the subgrade in presence of Owner's Testing Agency and Synthetic Grass Surfacing Manufacturer to assure a consistent and uniform compaction of the entire field. The Synthetic Grass Surfacing Manufacturer must approve the subgrade preparation before commencing drainage installation and aggregate subbase installation."
- E. Add 3.18 C., as follows:
  - "C. Synthetic Grass Surfacing Aggregate Subbase: Installation of the aggregate base should provide a close, evenly textured surface meeting the required tolerances.
    - 1. Construction: Extreme care should be taken to ensure that there is no disturbance to the subgrade and that there is no displacement of the soil separator. All disturbed, displaced, or damaged material is to be repaired or replaced.
    - 2. Placement: The aggregate base should be placed in a manner that will produce an evenly graded mass to the depth specified. The material should be constructed in successive horizontal layers not over six (6) inches in depth when compacting across the entire field area when spread by appropriate equipment and methods, and should be thoroughly and uniformly compacted with a self-propelled roller to achieve the specified density. The material should be placed and distributed so that there will be no pockets of uniform size solid material. Any pockets resulting from segregation of the stone during installation should be reworked.
    - 3. Compaction: The field base materials should be thoroughly compacted to prevent any significant differential settlement across the area of synthetic turf surfacing. Typical minimum compaction levels are 90 percent Standard Proctor for the base materials. The appropriate moisture content must be maintained in the base materials to allow for optimal levels of compaction.
    - 4. Finish-Grade Planarity (surface tolerances): Irregularities in the surface of the base materials are typically reflected in the finished field surface. Therefore it is important to install the base materials to controlled tolerances. The local deviation of the finished surface of the base stone should not exceed 1/4 inch in any direction when measured beneath a 10 foot long straight edge. Hollows and depressions, which may have developed during the process of compacting the base, should be filled with acceptable material and recompacted."

# ITEM NO. 12. PROJECT MANUAL, SECTION 32 17 13 - PARKING BUMPERS

- A. Add 1.1, B., as follows:
  - "B. Bollards."
- B. Add 2.1, B., as follows:
  - "B. Bollards: Refer to Site Drawings and Details for Bollard manufacturer and model number."

# ITEM NO. 13. 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 05 73 00 – Decorative Metal Railings - Superior Aluminum Products, Russia, Ohio

Section 08 12 13 – Hollow Metal Frames - De La Fontaine, Quebec, Canada

Section 08 91 19 – Fixed Louvers - Pottorff

Section 23 33 00 - Air Duct Accessories

- Pottorf; a division of PCI Industries (Article 2.6 A.)
- Pottorf; a division of PCI Industries (Article 2.7 A.)

# ITEM NO. 14. REVISED DRAWING SHEETS

A. Drawing Sheets: Cover, Index, GD1.3, G1.3, G2.3, G4.1, G4.2, G4.3, G4.4, G5.2, SU1.0, SU1.3, SU1.5, SU2.1, SU2.2, S1.02, A1.01, A1.02, A1.03, A3.01, A5.01, A6.01, A7.01, A8.01, A8.03, A9.01, PFP.01, P2.00, P2.01, P2.02, P3.02, P4.01, M2.01, M5.01, E1.1, E1.2, E2.1, E3.01, E3.17, E4.1, E5.1, E6.1, E7.1, T1.01, T2.01 and T3.01 have been revised, dated 1/6/23, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

## SECTION 08 45 13 - STRUCTURED-POLYCARBONATE-PANEL ASSEMBLIES

# PART 1 - GENERAL

## 1.1 SUMMARY

- A. Structured-Polycarbonate-Panel Assemblies: Insulated translucent wall panel system:
  - 1. Vertical wall system glazed with translucent multi-wall polycarbonate interlocking panels incorporated into a complete aluminum framed system that has been tested and warranted by the manufacturer.
  - 2. All anchors, brackets, and hardware attachments necessary to complete the specified structural assembly, weatherability and water-tightness performance requirements. All flashings up to but not penetrating adjoining work are also required as part of the system and shall be included.

# 1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

# 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
  - 1. ICC-ES report for glazing panels.
  - 2. Test reports for glazing panels.
  - 3. Include construction details, material descriptions, dimensions of individual components, profiles and finishes for aluminum components of panel assemblies.
  - 4. Qualification Data: For qualified Installer.
  - 5. Product Test Reports: For each structured-polycarbonate-panel assembly, for tests performed by a qualified testing agency.
  - 6. Sample Warranties: For special warranties.
- B. Shop Drawings: For panel assemblies.
  - 1. Include plans, elevations, sections, details, and attachments to other work.
  - 2. Include details of provisions for assembly expansion and contraction and for draining moisture within the assembly to the exterior.
- C. Delegated-Design Submittal: For panel assemblies indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

# 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 panel assemblies to include in maintenance manuals.

# 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.
- B. Glazing panels must be evaluated and listed by recognized building code evaluation organization: International Code Council Evaluation Services, Inc.
- C. Manufacturer: Responsible for engineering, configuration and fabrication of the complete panel system.

- D. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
  - 1. Build mockup of typical panel assemblies.
  - 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
  - 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

# 1.6 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace components of panel assemblies that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures including, but not limited to, excessive deflection.
    - b. Deterioration of metals and other materials beyond normal weathering.
    - c. Water leakage.
  - 2. Warranty Period: Five years from date of Substantial Completion.
- B. Manufacturer's Special Warranty: Manufacturer agrees to repair or replace structuredpolycarbonate panels that exhibit defects in materials or workmanship within specified warranty period.
  - 1. Defects include, but are not limited to, the following:
    - a. Change in light transmission of no more than 6% per ASTM D-1003.
    - b. No delamination of panel affecting appearance, performance or structural integrity of the panel or the system.
    - c. Thermal aging: Light transmission and color shall not change after exposure to heat of 300 degrees F for 25 minutes when measured per ASTM D-1003 and ASTM D-2244 respectively.
  - 2. Warranty Period: 10 years from date of Substantial Completion.

# PART 2 - PRODUCTS

# 2.1 STRUCTURED-POLYCARBONATE-PANEL ASSEMBLIES

- A. Structured-Polycarbonate-Panel Assemblies: Dual wall fully fabricated translucent assemblies consisting of inner and outer panels with interlocking connectors or H battens that are supported by aluminum framing and glazed with structured-polycarbonate panels.
  - 1. Individual panel thickness: Nominal 10 mm.
  - 2. Overall assembly thickness: Nominal 4 inches.
  - 3. Products:
    - a. UniQuad, Kingspan Light and Air.
    - b. Lightwall 210, Extech Exterior Technologies.
    - c. Thermalite Plus, Crystal Structures.

# 2.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 01 40 00 "Quality Requirements," to design structured-polycarbonate-panel assemblies.
  - 1. Design, engineer, manufacture and installation of glazed insulated translucent wall-light system.
  - 2. Provide framing system and glazing capable of withstanding loads as defined by the local codes having jurisdiction where units are to be installed without failure.
- B. Structural Loads: As indicated on Drawings.
- C. Deflection Limits:

1. Vertical Panel Assemblies: Limited to 1/100 of clear span for each assembly component.

- D. Structural-Test Performance: Panel assemblies tested according to ASTM E 330, as follows:
  - 1. When tested at positive and negative wind-load design pressures, assemblies do not show evidence of deflection exceeding specified deflection limits.
- E. Water Penetration under Static Pressure: Provide panel assemblies that do not evidence water penetration through fixed glazing and framing areas when tested according to ASTM E 331 at a minimum static-air-pressure difference of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft.
- F. Thermal Movements: Allow for thermal movements from ambient-and surface-temperature changes. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
  - 1. Temperature Change: 120 deg. F, ambient; 180 deg. F, material surfaces.
- G. Energy Performance: Provide panel assemblies with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below and certified and labeled according to NFRC:
  - 1. Thermal Transmittance (U-Factor): Fixed glazing and framing areas shall have Ufactor of not more than 0.23 Btu/sq. ft. x h x deg F as determined according to NFRC 100.
  - 2. Solar-Heat-Gain Coefficient (SHGC): Fixed glazing and framing areas shall have an SHGC of no greater than 0.34 as determined according to NFRC 200.
  - 3. Visible Light Transmission per ASTM E972 ASTM & E1084.
- H. Weatherability:
  - 1. Light transmission shall not decrease more than 6% as measured by ASTM D-1003 over 10 years, or after exposure to temperature of 300 degrees F for 25 minutes.
  - 2. Panels must be manufactured from polycarbonate resin with a permanent, co-extruded ultra-violet protective layer. Post-applied coatings or films of dissimilar materials are unacceptable.
  - 3. Faces shall not become readily detached when exposed to temperature of 300 degrees F and 0 degrees F for 25 minutes.
  - 4. Thermal Aging: Interior and exterior panel shall not change color in excess of 0.75 Delta E per ASTM D2244 and shall not darken more than 0.3 units Delta L per ASTM D2244 and shall show no cracking or crazing when exposed to 300 degrees F for 25 minutes.

### 2.3 STRUCTURED-POLYCARBONATE PANELS

- A. Structured-Polycarbonate Panels: translucent, extruded-polycarbonate sheet with multiwall cellular cross section that provides isolated airspaces and that is coextruded with a UV-protective layer.
- B. Assembly Thickness: Nominal 4 inch deep, two panel system with concealed interlocking connector or H battens.
- C. Sheet Thickness for inner and outer panels: Nominal 10 mm.
- D. Sheet Width: Manufacturer's standard.
- E. Profile: Tongue and groove.
- F. UV Resistance: On both surfaces.
- G. Interior/Exterior panel Color: Clear Matte.

- H. Panel Performance:
  - 1. Plastic Self-Ignition Temperature: 650 deg F or more according to ASTM D 1929.
  - 2. Smoke-Developed Index: 450 or less according to ASTM E 84, or 75 or less according to ASTM D 2843.
  - 3. Combustibility Classification: Class CC1 based on testing according to ASTM D 635.
  - 4. Interior Finish Classification: Class A based on testing according to ASTM E 84.
  - 5. Color Change: Not more than 3.0 units Delta E, when measured according to ASTM D 2244, after outdoor weathering compliant with procedures in ASTM D 1435
  - 6. Impact Resistance: No failure at impact of 200 ft. x lbf according to freefalling-ball impact test using a 3-1/2-inch- diameter, 6.3-lb ball.
  - 7. Haze Factor: Greater than 90 percent when tested according to ASTM D 1003.
- I. Panel Joint System:
  - 1. Panel shall be extruded in one single formable length. Transverse connections are not acceptable.
  - 2. The panels should be manufactured with grip-lock double tooth upstands that are integral to the unit. The upstands shall be 90 degrees to the panel face.
  - 3. Metal H battens shall consist of 2 pieces, male/female concept with built in silicone gasket, allowing for a unitized panel assembly.

# 2.4 ALUMINUM FRAMING SYSTEMS

- A. Components: Manufacturer's standard extruded-aluminum members of thickness required and reinforced as required to support imposed loads.
  - 1. Construction: Thermally broken, extruded aluminum.
    - a. Fabricate frame with poured and de-bridged polyurethane thermal breaks.
- B. Aluminum: Alloy and temper recommended in writing by manufacturer for type of use and finish indicated.
  - 1. Sheet and Plate: ASTM B 209.
  - 2. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 22.
  - 3. Extruded Structural Pipe and Tubes: ASTM B 429.
  - 4. Structural Profiles: ASTM B 308..
- C. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning skylight components.
- D. Fasteners and Accessories: Manufacturer's standard, corrosion-resistant, nonstaining, and nonbleeding fasteners and accessories; compatible with adjacent materials.
  - 1. At closures, retaining caps, or battens, use ASTM A 193, 300 series stainless-steel screws.
  - 2. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
  - 3. At movement joints, use slip-joint linings, spacers, and sleeves of material and type recommended in writing by manufacturer.
  - 4. Provide Manufacturer's standard intermediate support framing, anchor clips and clip fasteners where panels have to be supported at intermediate points due to spanning capabilities.
  - 5. Installation accessories: Where required to attach to building structure, provide strap installation components at head and jambs, made of 1/8 inch thick aluminum plate with countersunk flat head mechanical fasteners.
- E. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A 123 or ASTM A 153 requirements.
- F. Anchor Bolts: ASTM A 307, Grade A, galvanized steel.
- G. Concealed Flashing: Corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.

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- H. Exposed Flashing and Closures: Aluminum sheet not less than 0.050 inch or 0.063 inch thick as required by span of flashing, finished to match framing.
  - 1. Sill flashing and closure trim as required by Drawings.
  - 2. Subsill extrusions: Manufacturer's standard with provisions for weep drainage to exterior.
- I. Framing Gaskets: Manufacturer's standard gasket system with low-friction surface treatment designed specifically for retaining structured-polycarbonate panels.
- J. Frame-System Sealants: As recommended in writing by manufacturer.
- K. Corrosion-Resistant Coating: Cold-applied asphalt mastic, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

### 2.5 FABRICATION

- A. Fabricate aluminum components that, when assembled, have the following characteristics:
  - 1. Profiles that are sharp, straight, and free of defects or deformations.
  - 2. Accurately fitted joints with ends coped or mitered.
  - 3. Internal guttering systems or other means to drain water passing through joints and moisture migrating within assembly to exterior.
- B. Fabricate aluminum sill closures with weep holes and for installation as continuous component.
- C. Reinforce aluminum components as required to receive fastener threads.

#### 2.6 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.

#### PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. General: Comply with manufacturer's written instructions.
  - 1. Do not install damaged components.
  - 2. Fit joints between aluminum components to produce hairline joints free of burrs and distortion.
  - 3. Rigidly secure nonmovement joints.
  - 4. Install anchors with separators and isolators to prevent metal corrosion, electrolytic deterioration, and immobilization of moving joints.
  - 5. Seal joints watertight unless otherwise indicated.
- B. Metal Protection: Where aluminum components will contact dissimilar materials, protect against galvanic action by painting contact surfaces with corrosion-resistant coating or by installing nonconductive spacers as recommended in writing by manufacturer for this purpose.
- C. Install components plumb and true in alignment with established lines and elevations.

- D.
- Erection Tolerances: Install panel assemblies to comply with the following maximum tolerances: 1. Alignment: Limit offset from true alignment to 1/32 inch where surfaces abut in line, edge to edge, at corners, or where a reveal or protruding element separates aligned surfaces by less than 3 inches; otherwise, limit offset to 1/8 inch.
  - Location and Plane: Limit variation from true location and plane to 1/8 inch in 12 feet, but 2. no greater than 1/2 inch over total length.

END OF SECTION 08 45 13

# PART 1 - GENERAL

## 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Exterior luminaires with lamps, ballasts, and solid-state lighting drivers.
  - 2. Luminaire-mounted photoelectric relays.
  - 3. Poles and accessories.
- B. Related Sections include the following:
  - 1. Division 26 Section "Interior Lighting" for exterior luminaires normally mounted on exterior surfaces of buildings.
  - 2. Division 26 Section "Lighting Control Devices" for automatic control of lighting, including time switches, photoelectric relays, occupancy sensors, emergency transfer devices and multipole lighting relays and contactors.

# 1.2 DEFINITIONS

- A. CRI: Color-rendering index.
- B. HID: High-intensity discharge.
- C. LED: Light-emitting diode.
- D. Luminaire: Complete lighting fixture, including ballast and SSL driver housing if provided.
- E. Pole: Luminaire support structure, including tower used for large area illumination.
- F. SSL: Solid-state lighting.
- G. Standard: Same definition as "Pole" above.
- 1.3 STRUCTURAL ANALYSIS CRITERIA FOR POLE SELECTION
  - A. Dead Load: Weight of luminaire and its horizontal and vertical supports, and supporting structure, applied as stated in AASHTO LTS-5.
  - B. Ice Load: Load of 3 lbf/sq. ft., applied as stated in AASHTO LTS-5.
  - C. Wind Load: Pressure of wind on pole and luminaire, calculated and applied as stated in AASHTO LTS-5.
    - 1. Basic wind speed for calculating wind load for poles 50 feet or less in height is 90 mph.
      - a. Wind Importance Factor: 1.0.
      - b. Minimum Design Life: 50 years.
      - c. Velocity Conversion Factors: 1.0.

# 1.4 SUBMITTALS

- A. Quality Assurance/Control Submittals:
  - 1. Product Data: For each luminaire, pole, and support component, arranged in order of lighting unit designation. Include data on features, accessories, finishes, and the following:
    - a. Physical description of luminaire, including materials, dimensions, effective projected area, and verification of indicated parameters.
    - b. Details of attaching luminaires and accessories.
    - c. Details of installation and construction.
    - d. Luminaire materials.

- e. Photometric data based on laboratory tests of each luminaire type, complete with indicated lamps, ballasts, SSL drivers, and accessories.
  - 1) Photometric data shall be certified by manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products.
  - 2) Manufacturer's test data for IESNA TM-15-07: Backlight, Uplight, and Glare (BUG) Ratings for each specified plan type luminaire.
- f. Photoelectric relays.
- g. Ballasts and SSL Drivers, including energy-efficiency data.
- h. Lamps, including life, output, and energy-efficiency data.
- i. Materials, dimensions, and finishes of poles.
- j. Means of attaching luminaires to supports, and indication that attachment is suitable for components involved.
- k. Anchor bolts for poles.
- 2. Pole and Support Component Certificates: Signed by manufacturers of poles, certifying that products are designed for indicated load requirements in AASHTO LTS-5 and that load imposed by luminaire has been included in design.
- 3. Field quality-control test reports.

### 1.5 CLOSEOUT DOCUMENTS

- A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
  - 1. Operation and Maintenance Data: For luminaires and poles to include in operation and maintenance manuals.
  - 2. Warranty: Special warranty specified in this Section.
  - 3. Extra Materials: Receipt for extra materials.

### 1.6 QUALITY ASSURANCE

- A. Luminaire Photometric Data Testing Laboratory Qualifications: Provided by manufacturers' laboratories that are accredited under the National Volunteer Laboratory Accreditation Program for Energy Efficient Lighting Products.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- C. Comply with IEEE C2, "National Electrical Safety Code."
- D. Comply with NFPA 70.
- 1.7 DELIVERY, STORAGE, AND HANDLING
  - A. Package aluminum poles for shipping according to ASTM B 660.
  - B. Store poles on decay-resistant-treated skids at least 12 inches above grade and vegetation. Support poles to prevent distortion and arrange to provide free air circulation.
  - C. Retain factory-applied pole wrappings on metal poles until right before pole installation. For poles with nonmetallic finishes, handle with web fabric straps.

# 1.8 WARRANTY

- A. Special Warranty for SSL Luminaires and Drivers: Manufacturer's standard form in which manufacturer of lighting unit agrees to repair or replace components that fail in materials or workmanship within specified warranty period.
  - 1. Warranty Period for SSL Luminaires and Drivers: 5 years from date of Substantial Completion.

- B. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace products that fail in materials or workmanship; that corrode; or that fade, stain, perforate, erode, or chalk due to effects of weather or solar radiation within specified warranty period. Manufacturer may exclude lightning damage, hail damage, vandalism, abuse, or unauthorized repairs or alterations from special warranty coverage.
  - 1. Warranty Period for Luminaires: One year from date of Substantial Completion.
  - 2. Warranty Period for Metal Corrosion: One year from date of Substantial Completion.
  - 3. Warranty Period for Color Retention: One year from date of Substantial Completion.
  - 4. Warranty Period for Lamps: Replace lamps and fuses that fail within 12 months from date of Substantial Completion; furnish replacement lamps and fuses that fail within the second 12 months from date of Substantial Completion.
  - 5. Warranty Period for Poles: Repair or replace lighting poles and standards that fail in finish, materials, and workmanship within manufacturer's standard warranty period, but not less than one year from date of Substantial Completion.

# 1.9 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Lamps: 10 for every 100 of each type and rating installed. Furnish at least one of each type.
  - 2. Glass and Plastic Lenses, Covers, and Other Optical Parts: 10 for every 100 of each type and rating installed. Furnish at least one of each type.
  - 3. Ballasts and SSL Drivers: 10 for every 100 of each type and rating installed. Furnish at least one of each type.
  - 4. Globes and Guards: 10 for every 20 of each type and rating installed. Furnish at least one of each type.
  - 5. LED Packages, Arrays and Modules: 1 for every 100 of each type and rating installed. Furnish at least one of each type.

#### PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. In Lighting Fixture Schedule where titles below are column or row headings that introduce lists, the following requirements apply to product selection:
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
- B. Products of other manufacturers will be considered for acceptance only when allowed in Section 260050, General Electrical Requirements.
- 2.2 LUMINAIRES, GENERAL REQUIREMENTS
  - A. Luminaires shall comply with UL 1598 and be listed and labeled for installation in wet locations by an NRTL acceptable to authorities having jurisdiction.
  - B. Comply with IESNA RP-8 for parameters of lateral light distribution patterns indicated for luminaires.
  - C. Metal Parts: Free of burrs and sharp corners and edges.
  - D. Sheet Metal Components: Corrosion-resistant aluminum, unless otherwise indicated. Form and support to prevent warping and sagging.
  - E. Housings: Rigidly formed, weather- and light-tight enclosures that will not warp, sag, or deform in use. Provide filter/breather for enclosed luminaires.

- F. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position. Doors shall be removable for cleaning or replacing lenses. Designed to disconnect ballast and SSL driver when door opens.
- G. Exposed Hardware Material: Stainless steel.
- H. Plastic Parts: High resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.
- I. Light Shields: Metal baffles, factory installed and field adjustable, arranged to block light distribution to indicated portion of normally illuminated area or field.
- J. Reflecting surfaces shall have minimum reflectance as follows, unless otherwise indicated:
  - 1. White Surfaces: 85 percent.
  - 2. Specular Surfaces: 83 percent.
  - 3. Diffusing Specular Surfaces: 75 percent.
- K. Lenses and Refractors Gaskets: Use heat- and aging-resistant resilient gaskets to seal and cushion lenses and refractors in luminaire doors.
- L. Factory-Applied Finish for Steel and Aluminum Luminaires: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
  - Surface Preparation: Clean surfaces to comply with SSPC-SP 1, "Solvent Cleaning," or SSPC-SP 10/NACE No. 2, "Near-White Blast Cleaning," to remove dirt, oil, grease, and other contaminants that could impair paint bond. Grind welds and polish surfaces to a smooth, even finish. Remove mill scale and rust, if present, from uncoated steel, complying with SSPC-SP 5/NACE No. 1, "White Metal Blast Cleaning," or SSPC-SP 8, "Pickling."
  - 2. Exterior Surfaces: Manufacturer's standard finish consisting of electro-statically coated urethane polyester thermosetting powder at least 3.0 mils thick, cured in a convection oven at 400 degrees F.
    - a. Color: As selected from manufacturer's standard catalog of colors.
    - b. Color: Match Architect/Engineer's sample of custom color.
    - c. Color: As selected by Architect/Engineer from manufacturer's full range of standard and optional colors.

### 2.3 SSL LUMINAIRES

- A. LED Package (Component) Manufacturers: Subject to compliance with requirements, provide products by one of the following manufacturers: Manufacturers of LED drivers and LED modules shall be tested by the Luminaire Manufacturers and the stated warranty shall be based on the compatibility of the tested components, and substituted manufacturers will not be allowed. Refer to the list of approved LED drivers above.
- B. LED Luminaires: Comply with UL 1598, in addition to the requirements contained in UL Subject 8750. Photometric data complying with IES LM-79, Energy Star rated by the U.S. Department of Energy, CRI 75 (minimum), color temperature 4000 K, white light produced by binary complementary wavelength conversion. Color mixing red, green, and blue LEDs is not acceptable. Listed for damp or wet locations according to application.
  - 1. LED Packages, Arrays, and Modules: Binned for color consistency per NEMA SSL 3; and B50, L70 rating of at least 50,000 hours when tested according to IES LM-80.
  - 2. LED packages, arrays or modules shall be field replaceable without having to replace the entire luminaire.

### 2.4 LUMINAIRE-MOUNTED PHOTOELECTRIC RELAYS

A. Selected luminaires as shown on the drawings shall have a photoelectric relay installed at the factory, to automatically de-energize the luminaire after a period of time when there is sufficient daylight and the luminaire does not need to operate. Refer to Division 26 Section "Lighting Control Devices" for additional details.

# 2.5 LUMINAIRE-MOUNTED OCCUPANCY SENSOR

- A. Selected luminaires as shown on the drawings shall have an integral occupancy sensor installed at the factory, to automatically de-energize the luminaire, after an adjustable period of time, when the area is not occupied. Refer to Division 26 Section "Lighting Control Devices" for additional details.
- 2.6 EMERGENCY TRANSFER DEVICE, GENERATOR TRANSFER DEVICE, and WHOLE CIRCUIT TRANSFER DEVICES.
  - A. Selected luminaires as shown on the drawings shall have a transfer device installed at the factory, or a whole circuit device installed in the field, to automatically transfer the branch circuit from a normal source to an emergency source. Refer to Division 26 Section "Lighting Control Devices" for additional details.
- 2.7 DRIVERS FOR SSL LUMINAIRES
  - A. Manufacturers: Subject to compliance with requirements, provide products by one of the following manufacturers:
    - 1. Sylvania.
    - 2. Philips Lighting Co.
    - 3. EldoLED (Acuity Brand).
    - 4. Energy Recovery Products (Cooper Brand).
    - 5. Thomas Research Products (Hubbell Brand).
    - 6. Lutron (1% dimming).
  - B. Electronic Drivers: Comply with ANSI C82.11, NEMA SSL 1, and UL 935 in addition to the requirements contained in UL Subject 8750; UL Class 2 listed power supply, isolated output, and designed for type and quantity of LEDs served, listed for damp or wet locations according to application.
    - 1. Input Rating: 120 to 277 V, 60 Hz, plus or minus 10 percent.
    - 2. Output Rating: 12 or 24 V dc, 350 mA, plus or minus 5 percent.
    - 3. Sound Rating: Class A.
    - 4. Total Harmonic Distortion Rating: Less than 20 percent.
    - 5. Transient Voltage Protection: IEEE C62.41, Category A or better.
    - 6. Minimum Operating Temperature: minus 40 deg F.
    - 7. Power Factor: 0.90 or higher.
  - C. Drivers for Dimmer-Controlled Lighting Fixtures: Electronic type.
    - 1. Dimming Range: 100 to 10 percent of rated LED lumens.
    - 2. Driver Input Watts: Can be reduced to 25 percent of normal.
    - 3. Compatibility: Certified by manufacturer for use with specific dimming control system and lamp type indicated.
    - 4. Control: 0 to 10 V dc.
- 2.8 POLES AND SUPPORT COMPONENTS, GENERAL REQUIREMENTS
  - A. Structural Characteristics: Comply with AASHTO LTS-5.
    - 1. Wind-Load Strength of Poles: Adequate at indicated heights above grade without failure, permanent deflection, or whipping in steady winds of speed indicated in Part 1 "Structural Analysis Criteria for Pole Selection" Article, with a 3-s gust effect factor of 1.14.

- B. Luminaire Attachment Provisions: Comply with luminaire manufacturers' mounting requirements. Use stainless-steel fasteners and mounting bolts, unless otherwise indicated.
- C. Mountings, Fasteners, and Appurtenances: Corrosion-resistant items compatible with support components.
  - 1. Materials: Shall not cause galvanic action at contact points.
  - 2. Anchor Bolts, Leveling Nuts, Bolt Caps, and Washers: Hot-dip galvanized after fabrication, unless stainless-steel items are indicated.
  - 3. Anchor-Bolt Template: Plywood or steel.
- D. Concrete Pole Foundations: Cast in place, with anchor bolts to match pole-base flange. Concrete, reinforcement, and formwork are specified in Division 03 Section "Cast-in-Place Concrete."

### 2.9 ALUMINUM POLES

- A. Poles: Seamless, extruded structural tube complying with ASTM B 429/B 429M, Alloy 6063-T6 with access handhole in pole wall.
  - 1. Shape: Round, straight.
  - 2. Mounting Provisions: Butt flange for bolted mounting on foundation or breakaway support.
- B. Grounding and Bonding Lugs: Welded 1/2-inch (13-mm) threaded lug, complying with requirements in Division 26 Section "Grounding and Bonding for Electrical Systems," listed for attaching grounding and bonding conductors of type and size listed in that Section, and accessible through handhole.
- C. Brackets for Luminaires: Detachable, with pole and adapter fittings of cast aluminum. Adapter fitting welded to pole and bracket, then bolted together with stainless-steel bolts.
  - 1. Tapered oval cross section, with straight tubular end section to accommodate luminaire.
  - 2. Finish: Same as luminaire.
- D. Aluminum Finish: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
  - 1. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
  - 2. Color: Match finish process and color of luminaire.
- E. Vibration Dampening: Units selected by manufacturer to limit induced harmonic pole vibration.

### 2.10 POLE ACCESSORIES

A. Base Covers: Manufacturers' standard metal units, arranged to cover pole's mounting bolts and nuts. Finish same as pole.

### PART 3 - EXECUTION

- 3.1 LUMINAIRE INSTALLATION
  - A. Comply with NECA 501.
  - B. Install lamps in each luminaire.
  - C. Fasten luminaire to indicated structural supports.
    - 1. Use fastening methods and materials selected to resist seismic forces defined for the application and approved by manufacturer.
  - D. Adjust luminaires that require field adjustment or aiming. Include adjustment of photoelectric device to prevent false operation of relay by artificial light sources.

# 3.2 POLE INSTALLATION

- A. Align pole foundations and poles for optimum directional alignment of luminaires and their mounting provisions on the pole.
- B. Clearances: Maintain the following minimum horizontal distances of poles from surface and underground features, unless otherwise indicated on Drawings:
  - 1. Fire Hydrants and Storm Drainage Piping: 60 inches.
  - 2. Water, Gas, Electric, Communication, and Sewer Lines: 10 feet.
  - 3. Trees: 15 feet.
- C. Concrete Pole Foundations: Set anchor bolts according to anchor-bolt templates furnished by pole manufacturer. Concrete materials, installation, and finishing requirements are specified in Division 03 Section "Cast-in-Place Concrete."
  - 1. Finish: Smooth-rubbed finish as specified in Division 03 Section "Cast-in-Place Concrete."
- D. Foundation-Mounted Poles: Mount pole with leveling nuts, and tighten top nuts to torque level recommended by pole manufacturer.
  - 1. Use anchor bolts and nuts selected to resist seismic forces defined for the application and approved by manufacturer.
  - 2. Grout void between pole base and foundation. Use nonshrink or expanding concrete grout firmly packed to fill space.
  - 3. Install base covers, unless otherwise indicated.
  - 4. Use a short piece of 1/2-inch-diameter pipe to make a drain hole through grout. Arrange to drain condensation from interior of pole.
- E. Poles and Pole Foundations Set in Concrete Paved Areas: Install poles with minimum of 6-inchwide, unpaved gap between the pole or pole foundation and the edge of adjacent concrete slab. Fill unpaved ring with pea gravel to a level 1 inch below top of concrete slab.
- F. Raise and set poles using web fabric slings (not chain or cable).
- G. Install vibration dampening devices.

### 3.3 INSTALLATION OF INDIVIDUAL GROUND-MOUNTING LUMINAIRES

A. Install on concrete base with top 4 inches above finished grade or surface at luminaire location. Cast conduit into base, and finish by troweling and rubbing smooth. Concrete materials, installation, and finishing are specified in Division 03 Section "Cast-in-Place Concrete."

### 3.4 CORROSION PREVENTION

- A. Aluminum: Do not use in contact with earth or concrete. When in direct contact with a dissimilar metal, protect aluminum by insulating fittings or treatment.
- B. Steel Conduits: Comply with Division 26 Section "Raceway and Boxes for Electrical Systems." In concrete foundations, wrap conduit with 0.010-inch-thick, pipe-wrapping plastic tape applied with a 50 percent overlap.

### 3.5 GROUNDING

- A. Ground metal poles and support structures according to Division 26 Section "Grounding and Bonding for Electrical Systems."
  - 1. Install grounding electrode for each pole, unless otherwise indicated.
  - 2. Install grounding conductor pigtail in the base for connecting luminaire to grounding system.
- B. Ground nonmetallic poles and support structures according to Division 26 Section "Grounding and Bonding for Electrical Systems."
  - 1. Install grounding electrode for each pole.
  - 2. Install grounding conductor and conductor protector.

3. Ground metallic components of pole accessories and foundations.

## 3.6 FIELD QUALITY CONTROL

- A. Inspect each installed fixture for damage. Replace damaged fixtures and components.
- B. Illumination Observations: Verify normal operation of lighting units after installing luminaires and energizing circuits with normal power source.
  1. Verify operation of photoelectric controls.
- C. Prepare a written report of tests, inspections, observations, and verifications indicating and interpreting results. If adjustments are made to lighting system, retest to demonstrate compliance with standards.

END OF SECTION 26 56 00

## SECTION 32 92 00 - TURF AND GRASSES

PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:
  - 1. Seeding.
  - 2. Hydroseeding.
  - 3. Sodding
  - 4. Turf renovation
  - 5. Native Plantings
- B. Related requirements:
  - 1. Section 329300 "Plants" for trees, shrubs, ground covers, and other plants as well as border edgings and mow strips.
  - 2. Section 312000 "Earth Moving" for subgrade preparation, fill material, and topsoil.
  - 3. Section 329113 "Soil Preparation" for the preparation of planting beds and soil for tree pits.

### 1.3 DEFINITIONS

- A. Finish Grade: Elevation of finished surface of planting soil.
- B. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
- C. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
- D. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. See Section 329113 "Soil Preparation" and drawing designations for planting soils.
- E. Top Soil: Loose, friable soil of loamy character, graded free from subsoil, clay lumps, vegetation, weeds, debris, rocks larger than one inch in any dimension, or other material detrimental to proper vegetative growth. Topsoil shall comply with ASTM D 5268 having a pH range of 5.5 to 7.5 and minimum 4% organic material. Topsoil shall meet this specification and shall be from a source approved by the architect/engineer.
- F. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

## 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For landscape Installer.
- B. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
- C. Submit sod data and source.
  - 1. Submit shipping orders from sod delivery truck showing sod origin and date of cutting. Note the time of delivery on the shipping orders.
  - 2. Certification of each seed mixture for turfgrass sod. Include identification of source and name and telephone number of supplier.
- D. Product Certificates: For fertilizers, from manufacturer.
- E. Pesticides and Herbicides: Product label and manufacturer's application instructions specific to Project.
- F. Certification of Native Seed: From seed vendor for each seed mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.

### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful turf and meadow establishment.
  - 1. Experience: Three years' experience in turf installation in addition to requirements in Section 014000 "Quality Requirements."
  - 2. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
  - 3. Pesticide Applicator: State licensed, commercial and shall conform to all local ordinances.
- B. Topsoil Testing: Take samples of the topsoil and have tests made (such as "Quick Test" to determine if lime should be used), using methods approved by the Association of Agricultural Chemists or the State Agricultural Experiment Station. Preparation work necessary to bring the topsoil into proper condition to receive seeding shall be made in accordance with said tests at no additional cost to the Owner. Copy of the said tests and recommendations are to be submitted to the Architect for approval prior to starting of Work under this Section.

### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws, as applicable.
- B. Sod: Harvest, deliver, store, and handle sod according to requirements in Section 4: Specifications for Turfgrass Sod Materials and Section 5: Transplanting and Installation in TPI's (Turfgrass Producers International) "Guideline Specifications to Turfgrass Sodding." Deliver sod within 24 hours of harvesting and in time for planting promptly. Protect sod from breakage and drying.
  - 1. Deliver sod on covered pallets in rolls. Protect exposed roots from dehydration. Do not deliver more sod than can be laid on delivery date. Uncovered and dried out sod will be rejected upon arrival.

# C. Bulk Materials:

- 1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
- 2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
- 3. Accompany each delivery of bulk materials with appropriate certificates.

# 1.7 FIELD CONDITIONS

A. Contractor will be notified in writing by Architect/Engineer when Work on this Project has progressed sufficiently to commence work of seeding. Thereafter, seeding operations shall be conducted under favorable weather conditions during next season or seasons which are normal for such work as determined by accepted practice in locality of Project. At option and on full responsibility of Contractor, seeding operations may be conducted under unseasonable conditions without additional compensation.

# PART 2 - PRODUCTS

- 2.1 SEED
  - A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Rules for Testing Seeds" for purity and germination tolerances.
  - B. Seed Species: (select species for application)
    - 1. Quality: Seed of grass species as listed below for solar exposure, with not less than 85 percent germination, not less than 95 percent pure seed, and not more than 0.5 percent weed seed:
    - 2. Sun and shade (medium maintenance)
      - a. 36 percent creeping red fescue (2 varieties)
      - b. 36 percent perennial ryegrass (2 varieties)
      - c. 28 percent kentucky bluegrass (3 varieties)

## 2.2 TURFGRASS SOD

- A. Turfgrass Sod: Certified, complying with Section 4: Specifications for Turfgrass Sod Materials in TPI's (Turfgrass Producers International) "Guideline Specifications to Turfgrass Sodding." Furnish viable sod of uniform density, color, and texture that is strongly rooted and capable of vigorous growth and development when planted.
- B. Sod Species: (select species for application)
  - 1. Sun and Partial Shade (Medium Maintenance Area): Blend of Tall Fescue and Kentucky Bluegrass
- C. Thickness of cut: Sod shall be machine cut at a uniform soil thickness of 5/8 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness shall exclude top growth and thatch.

- D. Pad size: Individual pieces of sod shall be cut to the supplier's standard width and length. Maximum allowable deviation from standard widths and lengths shall be plus or minus ½" on width and plus or minus 5% on length. Broken pads and torn or uneven ends will not be acceptable.
- E. Strength of sod section: Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically from a firm grasp on the upper 10% of the section.
- F. Moisture content: Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
- G. Thatch: Sod shall be relatively free of thatch, up to  $\frac{1}{2}$  allowable (uncompressed).
- H. Diseases, Nematodes, and Insects: Sod shall be reasonably free of diseases, nematodes and soil-borne insects.
- I. Weeds:
  - 1. Sod shall be free of objectionable grassy and broad leaf weeds. Sod shall be considered free of such weeds if less than 5 such plants are found per 100 sq. ft. of area.
- J. Sod shall be delivered within eight (8) hours of cut from the nursery field.

# 2.3 FERTILIZERS

- A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:
  - 1. Composition: 1 lb/1000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
  - 2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

### 2.4 MULCHES

- A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.
- B. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic and free of plantgrowth or germination inhibitors; with a maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.
- C. Nonasphaltic Tackifier: Colloidal tackifier recommended by fiber-mulch manufacturer for slurry application; nontoxic and free of plant-growth or germination inhibitors.

### 2.5 PESTICIDES

A. General: Pesticide, registered and approved by the EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

- B. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.
- C. Post-Emergent Herbicide (Selective and Nonselective): Effective for controlling weed growth that has already germinated.

#### 2.6 COMPOST

- A. Compost: Well-composted, stable, and weed-free organic matter produced by composting feedstock, and bearing USCC's "Seal of Testing Assurance," and as follows:
  - 1. Feedstock: Limited to leaves and may include animal waste.
  - 2. Reaction: pH of 5.5 to 8.
  - 3. Soluble-Salt Concentration: Less than 4 dS/m.
  - 4. Moisture Content: 35 to 55 percent by weight.
  - 5. Organic-Matter Content: 50 to 60 percent of dry weight.
  - 6. Particle Size: Minimum of 98 percent passing through a 1/2-inch sieve.

#### 2.7 NATIVE SEED MIX

- A. Native Seed: Fresh, clean, and dry new six of mixed species as follows:
  - 1. Slope Stabilization Seed Mix available from Carndo Native Plant Nursery or approved equal.

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.
  - 1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
  - 2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
  - 3. Uniformly moisten excessively dry soil that is not workable or which is dusty.
  - 4. Determine location of all underground utilities and perform work to avoid possible damage. If required, hand work should be used to prepare the soil for seeding operations. All grade stakes should be maintained until directed by the Owner for removal.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Proceed with and complete seeding as rapidly as portions of site become available, working within the seasonal limitations.
- D. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

#### 3.2 PREPARATION

- A. Unacceptable Materials: Clean soil of concrete slurry, concrete layers or chunks, cement, plaster, building debris, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, acid, and other extraneous materials that are harmful to plant growth.
- B. Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by planting operations.
  - 1. Protect adjacent and adjoining areas from hydroseeding and hydromulching overspray.
  - 2. Protect grade stakes set by others until directed to remove them.
- C. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

## 3.3 TURF AREA PREPARATION

- A. General: Prepare planting area according to Section 312000 "Earth Moving" and Section 329113 "Soil Preparation."
- B. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- C. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

#### 3.4 SEEDING

- A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph.
  - 1. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
  - 2. Do not use wet seed or seed that is moldy or otherwise damaged.
  - 3. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.
- B. Sow seed at a total rate of 8 lb/1000 sq. ft. in lawn areas
- C. Sow seed at a total rate of 12 lb/1000 sq. ft. in athletic fields
- D. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.
- E. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a continuous blanket 1-1/2 inches in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment.
  - 1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.
  - 2. Bond straw mulch by spraying with asphalt emulsion at a rate of 10 to 13 gal./1000 sq. ft.. Take precautions to prevent damage or staining of structures or other plantings adjacent to mulched areas. Immediately clean damaged or stained areas.
- F. Protect seeded areas with slopes exceeding 1:4 with erosion-control blankets and 1:6 with erosion-control fiber mesh installed and stapled according to manufacturer's written instructions.

#### 3.5 HYDROSEEDING

- A. Hydroseeding: Mix specified seed, commercial fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.
  - 1. Mix slurry with nonasphaltic tackifier.
  - 2. Spray-apply slurry uniformly to all areas to be seeded in a one-step process. Apply slurry at a rate so that mulch component is deposited at not less than 1500-lb/acre dry weight, and seed component is deposited at not less than the specified seed-sowing rate.

### 3.6 SODDING

- A. Lay sod within 24 hours of harvesting unless a suitable preservation method is accepted by Architect prior to delivery time. Do not lay sod if dormant or if ground is frozen or muddy.
- B. Comply with requirements in Section 5: Transplanting and Installation in TPI's (Turfgrass Producers International) "Guideline Specifications to Turfgrass Sodding."
- C. Rake soil lightly to break up any surface crust. Lightly moisten soil where sod will be laid.
- D. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to soil or sod during installation. Tamp and roll lightly to ensure contact with soil, eliminate air pockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks between pieces of sod; remove excess to avoid smothering sod and adjacent grass.
  - 1. If there is a slope, run the sod perpendicular to the slope.
  - 2. Lay sod across slopes exceeding 1:6.
  - 3. Anchor sod on slopes exceeding 1:3 with wood pegs or steel staples spaced as recommended by sod manufacturer but not less than two anchors per sod strip to prevent slippage.
- E. Saturate sod with fine water spray within two hours of planting. Water in sufficient amounts to saturate sod and upper 3 inches of soil. During first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches below sod.
- F. After sod and soil have dried sufficiently to prevent damage, roll sodded areas with roller weighing 60 to 90 pounds per linear foot of roller.
- G. Warning Cords
  - 1. Install warning cords immediately after installation of sod where indicated on drawings.
  - 2. Drive stakes twelve inches (12") into the ground, along the perimeter of the sod; string cord from stake to stake. Securely tie at each stake.
  - 3. Tie a piece of brightly colored plastic tape to the chord every thirty-six (36") inches.

### 3.7 TURF RENOVATION

- A. Renovate turf damaged by Contractor's operations, such as storage of materials or equipment and movement of vehicles.
  - 1. Reestablish turf where settlement or washouts occur or where minor regrading is required.
  - 2. Install new planting soil as required.

- B. Renovate existing turf where indicated.
- C. Remove sod and vegetation from diseased or unsatisfactory turf areas; do not bury in soil.
- D. Remove topsoil containing foreign materials, such as oil drippings, fuel spills, stones, gravel, and other construction materials resulting from Contractor's operations, and replace with new planting soil.
- E. Mow, dethatch, core aerate, and rake existing turf.
- F. Remove weeds before seeding. Where weeds are extensive, apply selective herbicides as required. Do not use pre-emergence herbicides.
- G. Remove waste and foreign materials, including weeds, soil cores, grass, vegetation, and turf, and legally dispose of them off Owner's property.
- H. Till stripped, bare, and compacted areas thoroughly to a soil depth of 6 inches.
- I. Apply initial fertilizer required for establishing new turf and mix thoroughly into top 4 inches of existing soil. Install new planting soil to fill low spots and meet finish grades.
  - 1. Initial Fertilizer: Commercial fertilizer applied according to manufacturer's recommendations.
- J. Apply seed and protect with straw mulch as required for new turf.
- K. Water newly planted areas and keep moist until new turf is established.

# 3.8 TURF MAINTENANCE

- A. General: Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.
  - 1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
  - 2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
  - 3. Apply treatments as required to keep turf and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.
  - 4. Roll when required to remove minor depressions or irregularities.
- B. Watering: Install and maintain temporary piping, hoses, and turf-watering equipment to convey water from sources and to keep turf uniformly moist to a depth of 4 inches.
  - 1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
  - 2. Water turf with fine spray at a minimum rate of 1 inch per week unless rainfall precipitation is adequate.
- C. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than one-third of grass height. Remove no more than one-third of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Immediately remove heavy clippings after mowing and

trimming. Sweep or blow clippings which fall on any pavement or walks. Do not mow when grass is wet. Schedule initial and subsequent mowings to maintain the following grass height:

- 1. Mow Kentucky bluegrass to a height of 1-1/2 to 2 inches.
- 2. Mow turf-type tall fescue to a height of 2 to 3 inches.
- D. Turf Post fertilization: Apply commercial fertilizer after initial mowing and when grass is dry.
  - 1. Use fertilizer that provides actual nitrogen of at least 1 lb/1000 sq. ft. to turf area.

## 3.9 SATISFACTORY TURF

- A. Turf installations shall meet the following criteria as determined by Architect:
  - 1. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.
  - 2. Satisfactory Sodded Turf: At end of maintenance period, a healthy, well-rooted, evencolored, viable turf has been established, free of weeds, open joints, bare areas, and surface irregularities.
- B. Use specified materials to reestablish turf that does not comply with requirements, and continue maintenance until turf is satisfactory.

# 3.10 PESTICIDE APPLICATION

- A. Apply pesticides and other chemical products and biological control agents according to requirements of authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner three (3) days before each application is performed.
- B. Post-Emergent Herbicides (Selective and Nonselective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's written recommendations.

### 3.11 CLEANUP AND PROTECTION

- A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.
- B. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.
- C. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after plantings are established.
- D. Remove non-degradable erosion-control measures after grass establishment period.

# 3.12 MAINTENANCE SERVICE

A. Turf Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Begin maintenance immediately after each area is planted and continue until acceptable turf is established, but for not less than the following periods:

- 1. Seeded Turf: 90 days from date of planting completion.
  - a. When initial maintenance period has not elapsed before end of planting season, or if turf is not fully established, continue maintenance during next planting season.
- 2. Sodded Turf: 60 days from date of planting completion.
- B. Native Seed Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in "Native Seeding Maintenance". Begin maintenance immediately after each area is planted and continue until acceptable native seed is established, but for not less than maintenance period below.
  - 1. Maintenance Period: 60 days from date of Substantial Completion.

### 3.13 NATIVE SEEDING

- A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph.
  - 1. Before sowing, mix seed with seed carrier at a ratio of not less than three parts seed carrier to one part seed.
  - 2. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
  - 3. Do not use wet seed or seed that is moldy or otherwise damaged.
- B. Sow seed at a total rate recommended by seed supplier.
- C. Brush seed into top 1/16 inch of soil, roll lightly, and water with fine spray.
- D. Protect seeded areas from hot, dry weather or drying winds by applying peat or compost mulch within 24 hours after completing seeding operations. Soak areas, scatter mulch uniformly to a thickness of 3/16 inch, and roll surface smooth.
- E. Water newly planted areas and keep moist until meadow is established.

### 3.14 NATIVE SEED MAINTENANCE

- A. Maintain and establish native seeding by watering, weeding, mowing, trimming, replanting, and performing other operations as required to establish a healthy, viable native planting. Roll, regrade, and replant bare or eroded areas and remulch. Provide materials and installation the same as those used in the original installation.
  - 1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and native seeding damaged or lost in areas of subsidence.
  - 2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
  - 3. Apply treatments as required to keep native seeding and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.
- B. Watering: Install and maintain temporary piping, hoses, and native seed-watering equipment to convey water from sources and to keep native seeding uniformly moist.

- 1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
- 2. Water native seeding with fine spray at a minimum rate of 1/2 inch per week for eight weeks after planting unless rainfall precipitation is adequate.

END OF SECTION 32 92 00

# PART 1 - GENERAL

## 1.1 SUMMARY

A. This Section includes the following:1. Well abandonment.

## 1.2 PERFORMANCE REQUIREMENTS

A. A well taken out of service shall be sealed by a licensed will driller in the State of Indiana. Wells shall be sealed per Section 312 IAC, Rule 10 of the Indiana Administrative Code and any additional local jurisdiction requirements.

### 1.3 SUBMITTALS

A. Quality Assurance/Control Submittals:1. Well sealing report

# PART 2 - PRODUCTS

# 2.1 MATERIALS

- A. The following materials shall be used for sealing wells and dry holes:
  - 1. Cement grouts which meet current ASTM standard C150 and NSF standard sixty and include:
    - a. Type I, general-purpose cement;
    - b. Type II, for use in waters with moderate sulfate content, and conditions requiring lower heat of hydration;
    - c. Type III, for use in conditions requiring high early strength;
    - d. Type IV, for use in conditions requiring low heat of hydration;
    - e. Type V, for use in ground waters with a high sulfate content;
    - f. Concrete grout for special sealing conditions.
  - 2. Bentonite based grouts that meet NSF standard sixty and include:
    - a. High solids bentonite grout using powdered bentonite-clay or granular bentonite.
    - b. Coarse grade bentonite.
    - c. Pelletized bentonite.

# PART 3 - EXECUTION

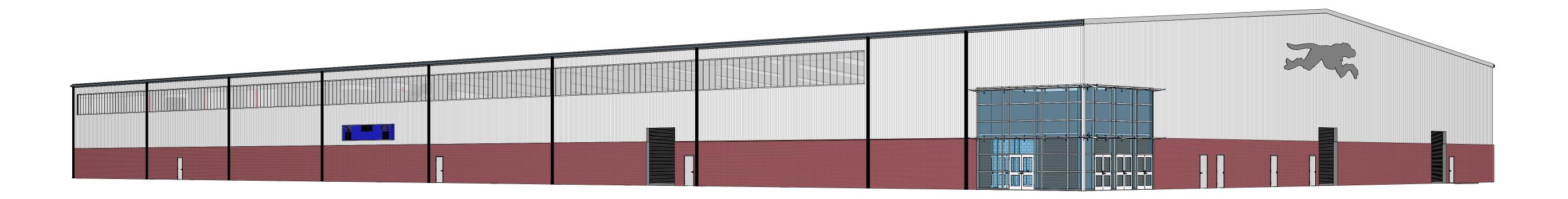
## 3.1 WELL ABANDONMENT

- A. Follow well-abandonment procedures of authorities having jurisdiction. Restore ground surface to finished grade.
- B. All wells to be sealed, dry holes, test holes, or test holes shall be sealed in accordance with the following requirements, as applicable:
  - 1. All obstructions shall be removed from the well including pumps and related equipment, drop pipes, pitless adapters, suction lines, trash or other debris. Pumps that cannot be removed shall be pushed to the bottom of the well, if possible or left in place if it is not possible to push it to the bottom of the well.
  - 2. The casing in the well should be removed, ripped or perforated to allow for sealing of the annular space.
  - 3. If there is water flowing from around the outside of the well casing or there is gravel packing connecting two or more hydraulic zones the well shall be overdrilled.

- 4. The well or dry hole shall be disinfected by adding sodium hypochlorite or calcium hypochlorite to achieve a concentration of at least one thousand milligrams per liter in the water in the well. Where the well is dry, a minimum of ten gallons of chlorine solution at one thousand milligrams per liter shall be prepared and the sides of the casing or borehole shall be rinsed.
- 5. Materials shall be processed and placed in the well in accordance with the following requirements:
  - a. Grout shall be placed from the bottom of the well or dry hole upwards in one continuous operation until cement or bentonite based grout of approximately the same density as the grout being pumped is coming out of the top of the well or dry hole.
  - b. When using cement based grouts the following requirements shall be met:
    - 1) Cement grouts shall be mixed using potable water according to the following specifications:
      - a) Type I, II, IV, and V cement shall be mixed by adding six gallons of water per ninety-four pounds of cement with a minimum density of fifteen pounds per gallon.
      - b) Type III cement shall be mixed by adding 6.3 to seven gallons of water per ninety-four pounds of cement.
      - c) Concrete shall be mixed by adding ninety-four pounds of cement, an equal amount of sand, and no more than six gallons of water with a minimum density of 17.5 pounds per gallon.
      - d) Cement that has calcium chloride added as an accelerator to speed up the rate of curing shall be mixed by adding two to four pounds of calcium chloride per ninety-four pounds of cement and six gallons of water with a minimum density of fifteen pounds per gal.
    - 2) Cement grouts shall be placed into a well by the conductor pipe pumped method of pressure grouting.
    - 3) Cement based grouts may be gravity poured into a dry hole where no water is present in the well or borehole.
  - c. When using bentonite based grout, the following requirements shall be met:
    - Bentonite based grout slurries shall be mixed according to the manufacturers recommendations to achieve a minimum density of 9.25 to 9.4 pounds per gallon, and a solids content of twenty-five to thirty percent bentonite by weight of water. Synthetic organic polymers that meet ANSI/NSF standard sixty may be added to bentonite slurries to suppress hydration of the bentonite particles and shall be mixed according to the manufacturer's recommendations.
    - 2) Bentonite grout shall be placed into the well by pressure grouting using the conductor pipe-pumped method of pressure grouting.
  - d. When using course grade or pelletized bentonite the following requirements shall be met:
    - 1) The total volume of sealing materials used shall be within five percent of the total volume of the well or dry hole.
    - 2) Coarse grade or pelletized bentonite shall be poured slowly into the top of the well or dry hole to prevent bridging in the casing or borehole, in accordance with the following procedures:
      - a) Coarse grade or pelletized bentonite shall be poured over a wire mesh screen to keep the fine bentonite powder from entering the well or dry hole.
      - b) Course grade or pelletized bentonite shall be poured at a continuous rate no faster than three minutes per fifty pounds.
      - c) The pouring process shall be halted intermittently to lower a weighted measuring tape into the well to determine the top of the sealing products and confirm that bridging has not occurred. A tamping device shall be used where possible to break any bridges that may form.
    - 3) Fine bentonite particles that accumulate in the shipping container shall not be used.

- 6. After the sealing material has been placed into the well, dry hole or test hole the sealing material shall be left a minimum of twelve hours to assess whether any settling of the sealing material has occurred. If settling has occurred, then additional grout shall be placed into the remaining void space.
- 7. Any remaining casing shall be cut off to a minimum depth of two feet below grade.
- 8. The remaining hole shall be filled with clean soil and mounded to ensure that water drains away from the sealed well or dry hole.
- 9. A well sealing report shall be filed with the Division of Water department with the Indiana department of natural resources, a copy provided to the well owner, and a copy retained by the registered contractor.

END OF SECTION 33 29 00



OWNER

**CARMEL CLAY** SCHOOLS

SITE/CIVIL ENGINEER TLF ENGINEERS 3901 W 86th St #200, Indianapolis, IN 46268 **TELEPHONE: 317-334-1500** 



# **GREYHOUND ACTIVITY CENTER**





ARCHITECT

**FANNING HOWEY ASSOCIATES INC.** 

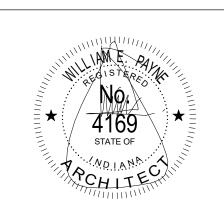




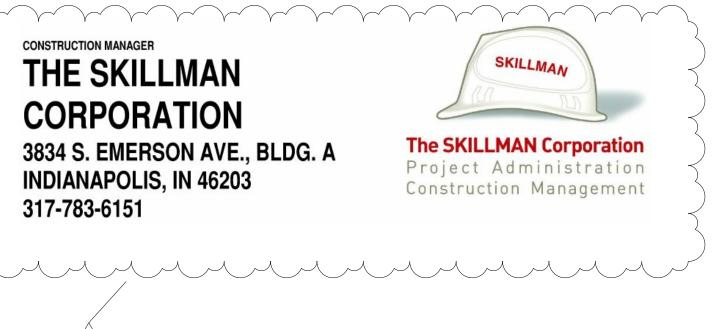
### **COVER SHEET**

PROJECT NUMBER: 222063

PROJECT ISSUE DATE: 12-1-2022



CONSTRUCTION DOCUMENTS





### **ARCHITECTURAL/SITE ABBREVIATIONS**

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

MAS

MAT

MAX

MB

MECH

MEZZ

MFR

MH

MIN

MM

MO

MTL

N

NIC

NO/#

NOM

NTS

OD

OPNG

OPP

O.H.

OW

ΟZ

PA

PERF

PLAS

PLBG

PLYWD

PREFAB

PL

PS

PSF

PSI

PT PVC

QT

RA

RB

RD

REF

REFR

REINF

REQ'D

REV

RM

R.O.

ROW

SA

SAN

SD SECT SEW

SGFT

SHT

SIM

SPEC(S)

SQ FT/SF

SQ YD/SY

SQ IN/SI

SPKR

SQ

SS

ST

STD

STL

SUSP

SW

SYMM

SYNTH

TERR

T.O.

TOC

TOF

TOM

TOS

ΤV

TYP

TWS

UNO

UV

UR

VCT

VERT

VFWC

VIF

VIT

VR

VRB

W/

W/O

WA

WB

WC

WD

WH

WP

WSSK WWF

YD

VCGWB

STRUCT

SP

SCHED

RAD/R

RCP

PSS

PVMT

0 TO 0

MISC

ACT AD ADJ AFF AFP AGG ALT APROX AR ARCH ASPH AV AWG AWT BIT BLDG BLKG BM B.O. BOS BOT BRG BRK

AIR CONDITIONING

AREA DRAIN

ADJUSTABLE

AGGREGATE

ALTERNATIVE

ACCESS PANEL

APPROXIMATE

AUDIO-VISUAL

BITUMINOUS

BUILDING

BLOCKING

ACID RESISTANT

ARCHITECT(URAL)

AMERICAN WIRE GUAGE

ACCOUSTICAL WALL TREATMENT

ALUMINUM

ASPHALT

ANGLE

AND

ACOUSTICAL CEILING TILE

ABOVE FINISHED FLOOR

ACCORDION FOLDING PARTITION

**BENCH MARK / BEAM** BOTTOM OF BOTTOM OF STEEL BOTTOM BEARING BRICK BUR BUILT-UP ROOF CAB CABINET CAR CARPET CAT CATALOG CHALKBOARD / CATCH BASIN CUBIC FEET PER MINUTE CFM СН CABINET HEATER CAST IRON CONTROL JOINT CJ CLR CLG CMP CMT CMU CO COL COMP CONC CONSTR CONT CONTR CORR C TO C CSk CU FT/CF CU IN/CI CU YD/CY CUSP CW CWF DC DEPT

CB

CI

DET DIA/ Ø DIM DIV DWG DS DWC ΕA EF EJ ELEC ELEV

ENGR EP EQ EQUIP EW EIFS EXH EXIST EXP EXT EXTN FD FHC FIN FIN FL FLR FDN FSR FSSK

FT FTG FE FEC GA GALV GB GFCMU GFRGU GWB Н HB HDWE HM HORIZ HPT HS HTG HVAC HW

CENTERLINE CLEAR CEILING CORRUGATED METAL PIPE CERAMIC MOSAIC TILE CONCRETE MASONRY UNIT CLEANOUT COLUMN COMPACTED CONCRETE CONSTRUCTION CONTINUOUS/CONTINUE CONTRACTOR CORRUGATED CERAMIC TILE CENTER TO CENTEF COUNTER SINK CUBIC FEET CUBIC INCH CUBIC YARD CUSPIDOR COLD WATER CEMENTITIOUS WOOD FIBER PENNY (NAILS, ETC. DEPTH/DEEP DEGREE DISPLAY CASE DEPT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DIVISION DEAD LOAD DRAWING DOWNSPOUT DRINKING WATER COOLER EAST EACH EACH FACE **EXPANSION JOINT** ELEVATION ELECTRIC(AL) ELEVATOR ENGINEER ELECTRICAL PANELBOARD EQUAL EQUIPMENT EACH WAY EFS (or DEFS) DIRECT APPLIED EXTERIOR FINISH SYSTEM EXTERIOR INSULATION FINISH SYSTEM EXHAUST EXISTING EXPANSION EXTERIOR EXTENSION FLOOR DRAIN FIRE HOSE CABINET FINISH FINISH FLOOR FLOOR FOUNDATION FLEXIBLE SHEET ROOFING FLOOR SERVICE SINK FEET FOOTING FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET GAUGE GALVANIZED(D) GRAB BAR GROUND FACE CONCRETE MASONRY UNIT GLASS FIBER REINFORCED GYPSUM UNIT GLASS

HWY ID INCL INFO INSUL INTR INV

IN

JS

JST

KIT

LAM

LAV LB/#

LKR

LLV

LVR LW

LL LLH

GYPSUM WALLBOARD HEIGHT/HIGH HOSE BIB HARDWARE HOLLOW METAL HORIZONTAL HIGH POINT HIGH STRENGTH HEATING HEATING/VENTILATING/AIR CONDITIONING HOT WATER HIGHWAY INSIDE DIAMETER INCH INCLUDE(D), (ING) INFORMATION INSULATION INTERIOR INVERT JOIST SUBSTITUTE JOIST

JOINT KITCHEN LENGTH LAMINATE(D)

LAVATORY POUND LOCKER LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOUVER LONG WAY

METER MASONRY MATERIAL MAXIMUM MARKER BOARD MECHANICAL MEZZANINE MANUFACTURER MOP HOLDER MINIMUM MISCELLANEOUS MILLIMETER MASONRY OPENING METAL NORTH NOT IN CONTRACT NUMBER NOMINAL

> NOT TO SCALE ON CENTER OUTSIDE DIAMETER OPENING OPPOSITE OPPOSITE HAND

OUT TO OUT OPERABLE WALL OUNCE PAINT PUBLIC ADDRESS PERFORATED

PLASTIC

PLASTIC LAMINATE PLUMBING PLYWOOD PREFABRICATED PROJECTION SCREEN POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PENCIL SHARPENER SUPPORT PORCELAIN TILA POLYVINYL CHLORIDE PAVEMENT

QUARRY TILE RISER

**RETURN AIR** RADIUS RESILIENT BASE REINFORCED CONCRETE PIPE ROOF DRAIN REFERENCE REFRIGERATOR REINFORCING REQUIRED REVISION(S)

ROOM ROUGH OPENING **RIGHT-OF-WAY** SOUTH SUPPLY AIR

SANITARY SCHEDULE STORM DRAIN / SMOKE DETECTOR SECTION SEWER STRUCTURAL GLAZED FACING TILE SHEET SIMILAR

SPACE SPECIFICATION(S) SPEAKER SQUARE SQUARE FEET SQUARE INCHES SQUARE YARDS STAINLESS STEEL

STORM/STREET STANDARD STEEL STRUCTURAL SUSPENDED SHORT WAY / SIDEWALK SYMMETRY(ICAL)

SYNTHETIC

TREAD TOP AND BOTTOM TONGUE AND GROOVE TOILET ACCESSORY(IES TACKBOARD TOP OF CURB TELEPHONE TERRAZZO TOP OF TOP OF CONCRETE

TOP OF FOOTING TOP OF MASONRY TOP OF STEEL TELEVISION TYPICAL TACKABLE WALL SURFACE

UNLESS NOTED OTHERWISE UNIT VENTILATOR URINAL

VINYL COMPOSITE TILE

VINYL COVERED GYPSUM WALLBOARD VERTICAL VINYL FABRIC WALLCOVERING VERIFY IN FIELD VITREOUS VOLUME VAPOR RETARDER VENTED RESILIENT BASE VENT STACK VINYL STACK WEST / WIDE / WIDTH WITH WITHOUT WARDROBE ACCESSORIES

WOOD BASE WATER CLOSET / WIND COLUMN WOOD WATER HEATER WORKING POINT WALL SERVICE SINK

WELDED WIRE FABRIC YARD / YARD DRAIN

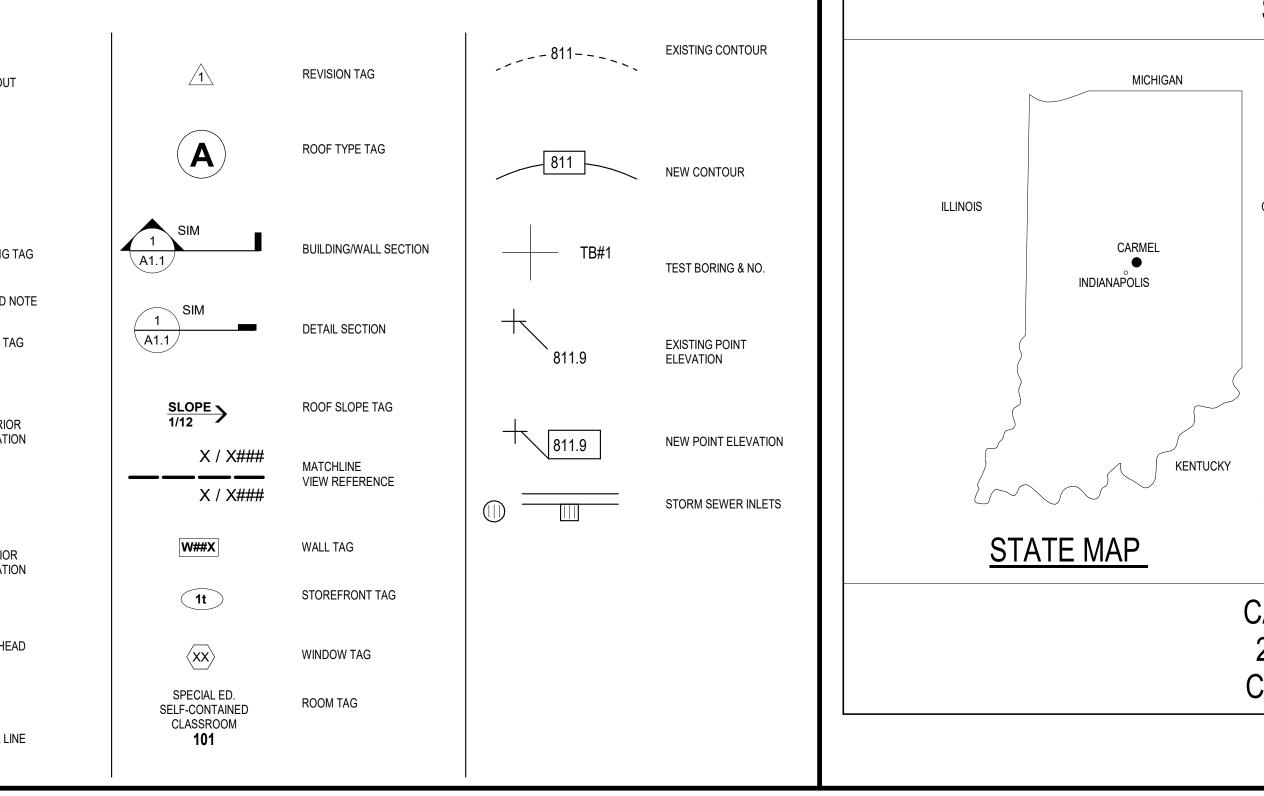
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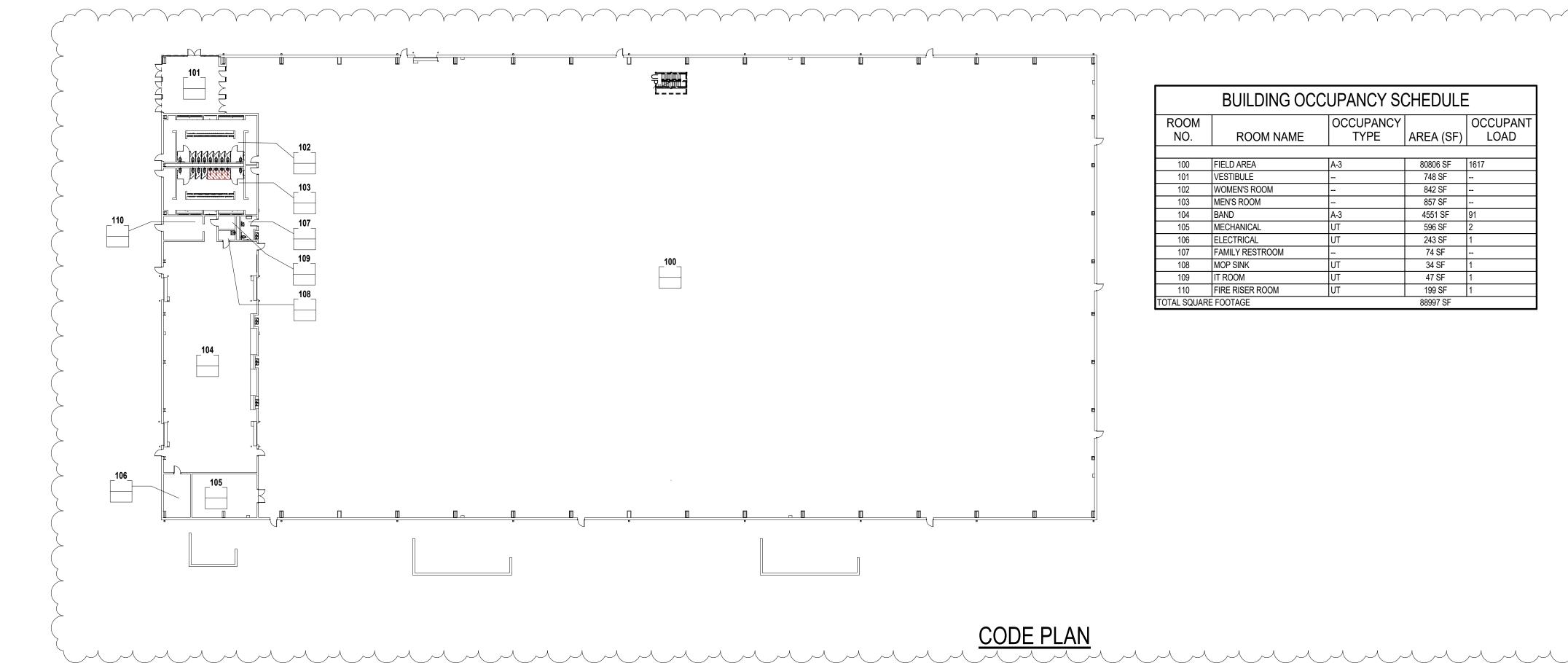
M	ATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, IN		
	ASPHALT		
	EARTH	—X—X—	WIRE FENCE OR PARTITION
	GRAVEL, STONE, OR DRAINAGE FILL		METAL ROOF DECK
) ), <u>4</u> )	SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK		LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
2 4 1 2 2 4 1 4 2 2 4 4 2 2 4 2 2 4 2 4 2 4 2 4 2 4 2	CONCRETE		BATT INSULATION
	TERRAZZO		RIGID INSULATION
	CUT STONE		ROUGH WOOD
A	MARBLE		FINISH WOOD
	SLATE		WOOD OTHER THAN NOMINAL
	FACE BRICK (PLAN)	$\underbrace{\leftarrow\leftarrow\leftarrow\leftarrow}$	PLYWOOD
	GLAZED BRICK		GYPSUM WALLBOARD (LARGE SCALE)
	CONCRETE MASONRY UNIT (PLAN)		STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
	CONCRETE MASONRY UNIT (SECTION)		SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
			FABRIC ACCORDION FOLDING PARTITION
	CONCRETE MASONRY UNIT (SOLID, IN SECTION)		ACOUSTICAL TILE CEILING
	SPRAY-ON INSULATION OR FIRE PROTECTION		EXTERIROR INSULATION FINISH SYSTEM

COVER	COVER							
ABBREVIATIO	ABBREVIATIONS AND INDEX							
01 SITE TOPO-1 TOPO-2 TOPO-3 TOPO-4 TOPO-5 TOPO-6	SURVEY SURVEY SURVEY SURVEY SURVEY							
GD0.1	GENERAL NOTES							
GD1.0	OVERAL SITE DEMOLITION PLAN							
GD1.3	DEMOLITION PLAN - NORTH							
GD1.5	DEMOLITION PLAN - NORTHEAST							
G1.0	OVERALL SITE PLAN							
G1.3	SITE PLAN - NORTH							
G1.5	SITE PLAN - NORTHEAST							
G2.0	OVERALL GRADING PLAN							
G2.3	GRADING PLAN - NORTH							
G2.5	GRADING PLAN NORTHEAST							
G3.0	OVERALL EROSION CONTROL PLAN							
G3.3	EROSION CONTROL PLAN - NORTH							
G3.5	EROSION CONTROL PLAN NORTHEAST							
G3.6	SWPPP							
G3.7	EROSION CONTROL DETAILS							
G4.1	SITE DETAILS							
G4.2	SITE DETAILS							
G4.3	SITE DETAILS							
G4.4	SITE DETAILS							
G5.2	ENLARGED SITE PLAN - NORTH							
SU1.0	OVERALL SITE UTILITY PLAN							
SU1.3	SITE UTILITY PLAN - NORTH							
SU1.5	SITE UTILITY PLAN - NORTHEAST							
SU2.1	SITE UTILITY DETAILS							
SU2.2	SITE UTILITY DETAILS							
SU2.3	SITE UTILITY DETAILS							
SU2.4	SITE UTILITY DETAILS							
SU3.1	STORM PLAN PROFILES							
SU3.2	STORM PLAN PROFILES							
SU3.3	STORM PLAN PROFILES							
L1.0	OVERALL LANDSCAPE PLAN							
L1.3	LANDSCAPE PLAN - NORTH							
L1.5	LANDSCAPE PLAN - NORTHEAST							
L2.0	LANDSCAPE DETAILS							

### **DRAWING SYMBOLS LEGEND**

AWING SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW





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<ul> <li>A1.01 FIRST FLOOR OVERALL PLAN</li> <li>A1.02 ENLARGED PLANS</li> <li>A1.03 ENLARGED PLANS AND DETAILS</li> <li>A2.01 ROOF PLAN</li> </ul>	
A3.01 BUILDING ELEVATIONS	
<ul> <li>A4.01 BUILDING SECTIONS</li> <li>A5.01 WALL SECTIONS</li> <li>A5.02 SECTIONS / DETAILS</li> <li>A6.01 DOOR FRAMES/ SCHEDULE/ DETAILS</li> <li>A7.01 FIRST FLOOR EQUIPMENT PLAN</li> <li>A7.02 EQUIPMENT ELEVATIONS &amp; DETAILS</li> <li>A8.01 FIRST FLOOR FINISH PLAN</li> <li>A8.02 FIELD LAYOUT &amp; FLOORING DETAILS</li> <li>A8.03 INTERIOR ELEVATIONS</li> <li>A8S.01 LIST OF FINISHES</li> <li>A9.01 REFLECTED CEILING PLAN</li> </ul>	
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P2.00OVERALL FOUNDATION PLUMBING PLANP2.01FOUNDATION PLUMBING PLANP2.02OVERALL FIRST FLOOR PLUMBING PLAN	
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## T1.02 TECHNOLOGY DETAILS T3.01 FIRST FLOOR TECHNOLOGY PLAN

08 TECHNOLOGY

### SITE LOCATION MAP



VICINITY MAP

### CARMEL STADIUM 2450 E 136TH ST CARMEL, IN 46032

	BUILDING OC	CUPANCY S	CHEDULE	
ROOM NO.	ROOM NAME	OCCUPANCY TYPE	AREA (SF)	OCCUPAN LOAD
100	FIELD AREA	A-3	80806 SF	1617
101	VESTIBULE		748 SF	
102	WOMEN'S ROOM		842 SF	
103	MEN'S ROOM		857 SF	
104	BAND	A-3	4551 SF	91
105	MECHANICAL	UT	596 SF	2
106	ELECTRICAL	UT	243 SF	1
107	FAMILY RESTROOM		74 SF	
108	MOP SINK	UT	34 SF	1
109	IT ROOM	UT	47 SF	1
110	FIRE RISER ROOM	UT	199 SF	1
	FIRE RISER ROOM RE FOOTAGE	UT	199 SF 88997 SF	1

### 1 STORY (42'-8") 2.ACTUAL HEIGHT: AN AUTOMATIC FIRE SPRINKLER SYSTEM IS USED.

**BUILDING CODE INFORMATION** 

EXISTING SCHOOL FACILITY BUILDING

2012 INTERNATIONAL BUILDING CODE

INDIANA BUILDING CODE 2014 EDITION

3. USE AND OCCUPANCY CLASSIFICATION INDIANA BUILDING CODE

A. OCCUPANCY GROUP A3 - ASSEMBLY

REFER TO THE SITE PLAN DRAWINGS FOR LOCATION OF

AREA LIMITATION INDIANA BUILDING CODE SECTION 502:

GROSS = 91,019 SF

THE CENTER OF A STREET, ALLEY OR PUBLIC WAY; OR TO AN

IMAGINARY LINE BETWEEN TWO BUILDINGS ON THE SAME LOT.

5. GENERAL BUILDING HEIGHTS AND AREAS:

A. AREA LIMIATION:

2.ACTUAL AREA:

**B. HEIGHT LIMITATION:** 

1. BUILDING DESCRIPTION:

2. APPLICABLE CODE:

CHAPTER 3:

TABLE).

TABLE:

6. FIRE RESISTANCE RATED CONSTRUCTION INDIANA BUILDING CODE CHAPTER 7:

REFER TO THE CODE PLANS FOR MAXIMUM AREAS OF EXTERIOR OPENINGS BASED ON THE FIRE SEPARATION DISTANCES.

PENETRATIONS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRESTOPPING PER PROJECT MANUAL. CEILING AND FLOOR OPENINGS THROUGH NON-FIRE-RESISTANCE-RATED

ASSEMBLIES SHALL BE PROVIDED WITH FIREBLOCKING PER PROJECT

7. INTERIOR FINISHES TO COMPLY WITH INDIANA BUILDING CODE CHAPTER 8 8. FIRE PROTECTION SYSTEMS INDIANA BUILDING CODE CHAPTER 9:

BUILDING IS SPRINKLERED 9. MEANS OF EGRESS INDIANA BUILDING CODE CHAPTER 10:

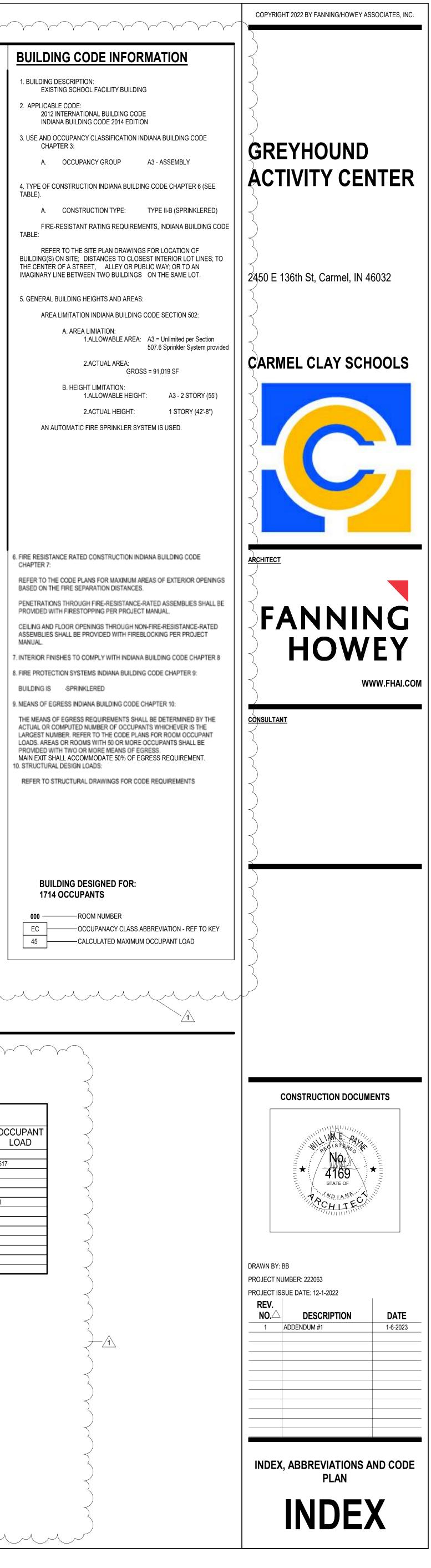
THE MEANS OF EGRESS REQUIREMENTS SHALL BE DETERMINED BY THE ACTUAL OR COMPUTED NUMBER OF OCCUPANTS WHICHEVER IS THE LARGEST NUMBER. REFER TO THE CODE PLANS FOR ROOM OCCUPANT LOADS. AREAS OR ROOMS WITH 50 OR MORE OCCUPANTS SHALL BE PROVIDED WITH TWO OR MORE MEANS OF EGRESS. MAIN EXIT SHALL ACCOMMODATE 50% OF EGRESS REQUIREMENT.

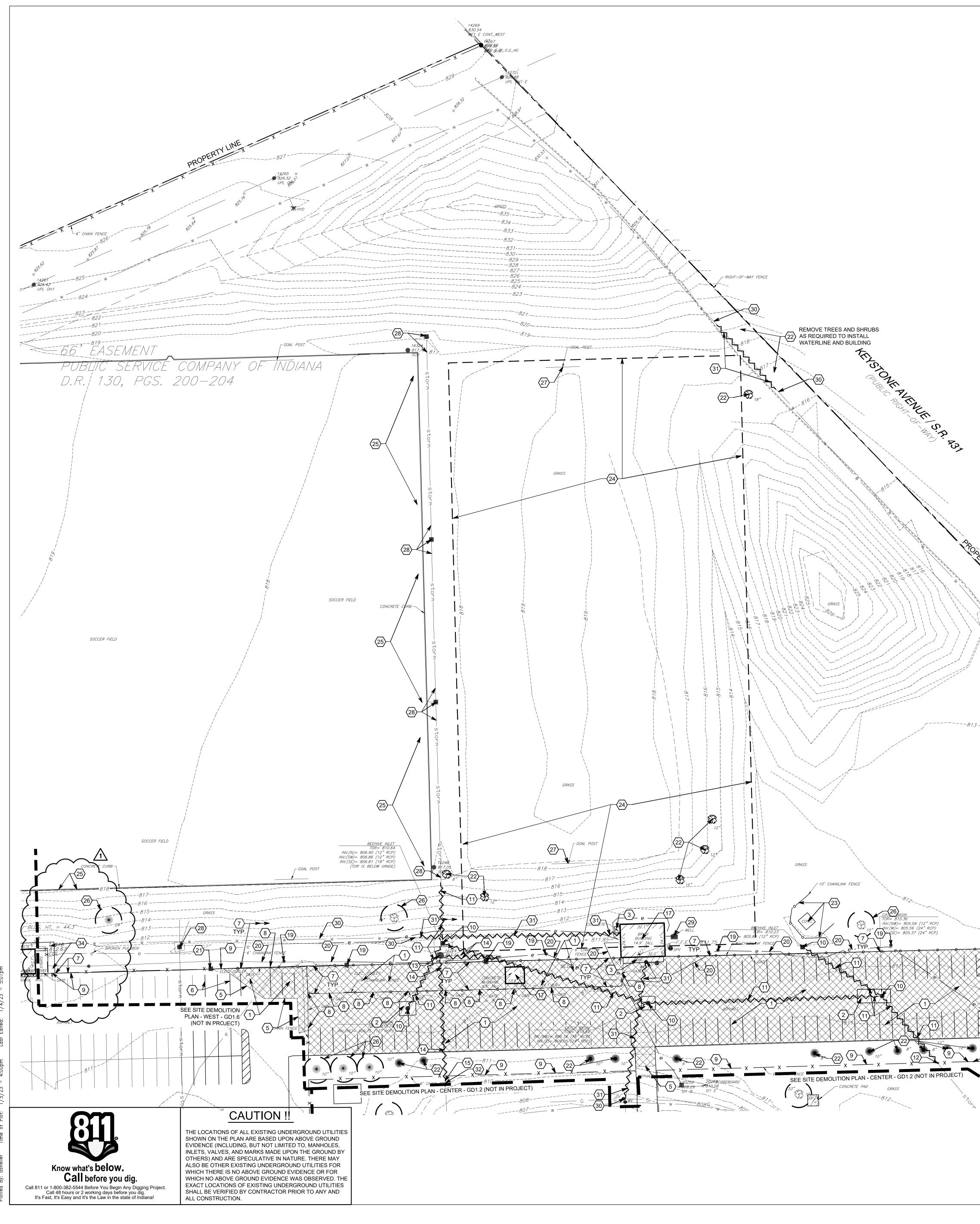
10. STRUCTURAL DESIGN LOADS: REFER TO STRUCTURAL DRAWINGS FOR CODE REQUIREMENTS

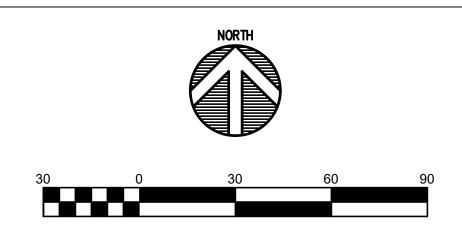
### **BUILDING DESIGNED FOR:** 1714 OCCUPANTS

000 ———ROOM NUMBER EC OCCUPANACY CLASS ABBREVIATION - REF TO KEY 45 CALCULATED MAXIMUM OCCUPANT LOAD

<u>CODE PLAN</u>







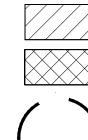
### **GENERAL NOTES**

- SEE DRAWING GD0.1 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
- 2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY CEC CIVIL & ENVIRONMENTAL CONSULTANTS DATED MAY 17, 2022. 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.

### ○ DEMOLITION KEYNOTES (GAC)

- 1. REMOVE ASPHALT PAVEMENT
- 2. REMOVE CONCRETE PAVEMENT
- 3. REMOVE CONCRETE SIDEWALK
- 5. SAWCUT EXISTING ASPHALT/CONCRETE
- 6. BLACK OUT EXISTING PAVEMENT MARKING
- 7. REMOVE CHAIN LINK FENCE, POSTS AND FOUNDATIONS
- REMOVE CHAIN LINK GATES, POSTS AND FOUNDATIONS. SALVAGE FOR RETURN TO OWNER 8.
- 9. PROTECT FENCE TO REMAIN
- 10. REMOVE STORM MANHOLE STRUCTURE
- 11. REMOVE STORM SEWER LINE
- 12. CAP STORM PIPE WITH MECHANICAL PLUG PER DETAIL ON DWG SU2.1
- 13. REMOVE SANITARY MANHOLE STRUCTURE
- 14. REMOVE SANITARY SEWER LINE
- 15. CAP SANITARY PIPE WITH MECHANICAL PLUG PER DETAIL ON DWG SU2.1 17. REMOVE BUILDING - CONTRACTOR TO DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL, MECHANICAL, AND PLUMBING SANITARY AND SUPPLY COMPLETE PRIOR TO BUILDING DEMOLITION. REMOVE BUILDING UTILITY LINES BACK TO NEAREST CONNECTION POINT. PROTECT ALL EXISTING LINES TO REMAIN. NOTIFY ARCHITECT OF ANY CONCERNS OR
- UNFORESEEN CONDITIONS. 19. REMOVE LIGHTPOLE/ELECTRICAL OUTLET, COORDINATE WITH ELECTRICAL
- SITE DEMOLITION PLANS
- 20. REMOVE ELECTRICAL/TELECOM LINES/EQUIPMENT, COORDINATE WITH ELECTRICAL SITE DEMOLITION PLANS
- 21. PROTECT ELECTRIC OUTLET, BOX & LINE TO REMAIN
- 22. REMOVE TREE & ROOTS TO 1'-6" BELOW GRADE
- 23. RELOCATE DISCUS CAGE TO LOCATION SHOWN ON SITE PLAN AND REMOVE CONCRETE PAD
- 24. LIMITS OF PROPOSED BUILDING
- 25. PROTECT SYNTHETIC TURF AND CURB TO REMAIN
- 26. PROTECT TREE TO REMAIN
- 27. REMOVE GOAL POST AND SALVAGE TO OWNER
- 28. PROTECT STORM STRUCTURE & LINE TO REMAIN
- 29. WATER WELL CONTRACTOR SHALL REMOVE THE WELL ASSEMBLY IN ITS ENTIRETY AND TO 3' BELOW FINISHED GRADES. THE WELL SHALL BE CAPPED AND DECOMMISSIONED PER LOCAL AND STATE REQUIREMENTS AND ORDINANCES.
- 30. PROTECT WATER LINE, HYDRANT & VALVE TO REMAIN
- 31. REMOVE WATER LINE AS REQUIRED TO INSTALL PROPOSED WATER LINE -REFER TO SITE UTILITY PLAN
- 32. PROTECT SANITARY STRUCTURE & LINE TO REMAIN
- 34. PROTECT CONCRETE WALK TO REMAIN

### **DEMOLITION LEGEND**



- RIGHT-OF-WAY FENCE

\_\_\_\_\_ X <u>\_\_\_\_</u> X \_\_\_\_ X \_\_\_\_ X \_\_\_\_

— <u>x</u> — <u>x</u> — \_ \_

TBM#1 = 813.74

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Y CHANY SENCE

√22 REMOVE 6 DEAD EVERGREEN

AND 1 DEAD DECIDIOUS TREE

WITHIN WOODED FENCELINE

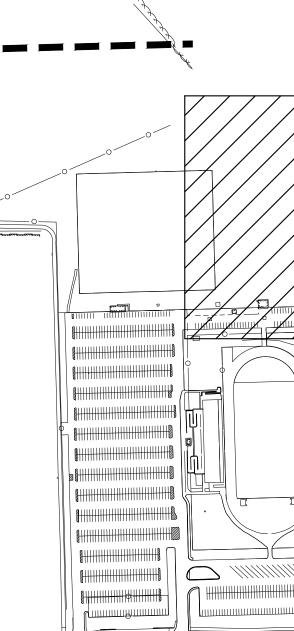
APPROXIMATE LIMITS OF CONCRETE PAVEMENT REMOVAL

APPROXIMATE LIMITS OF ASPHALT PAVEMENT REMOVAL

TREE PROTECTION REQUIRED

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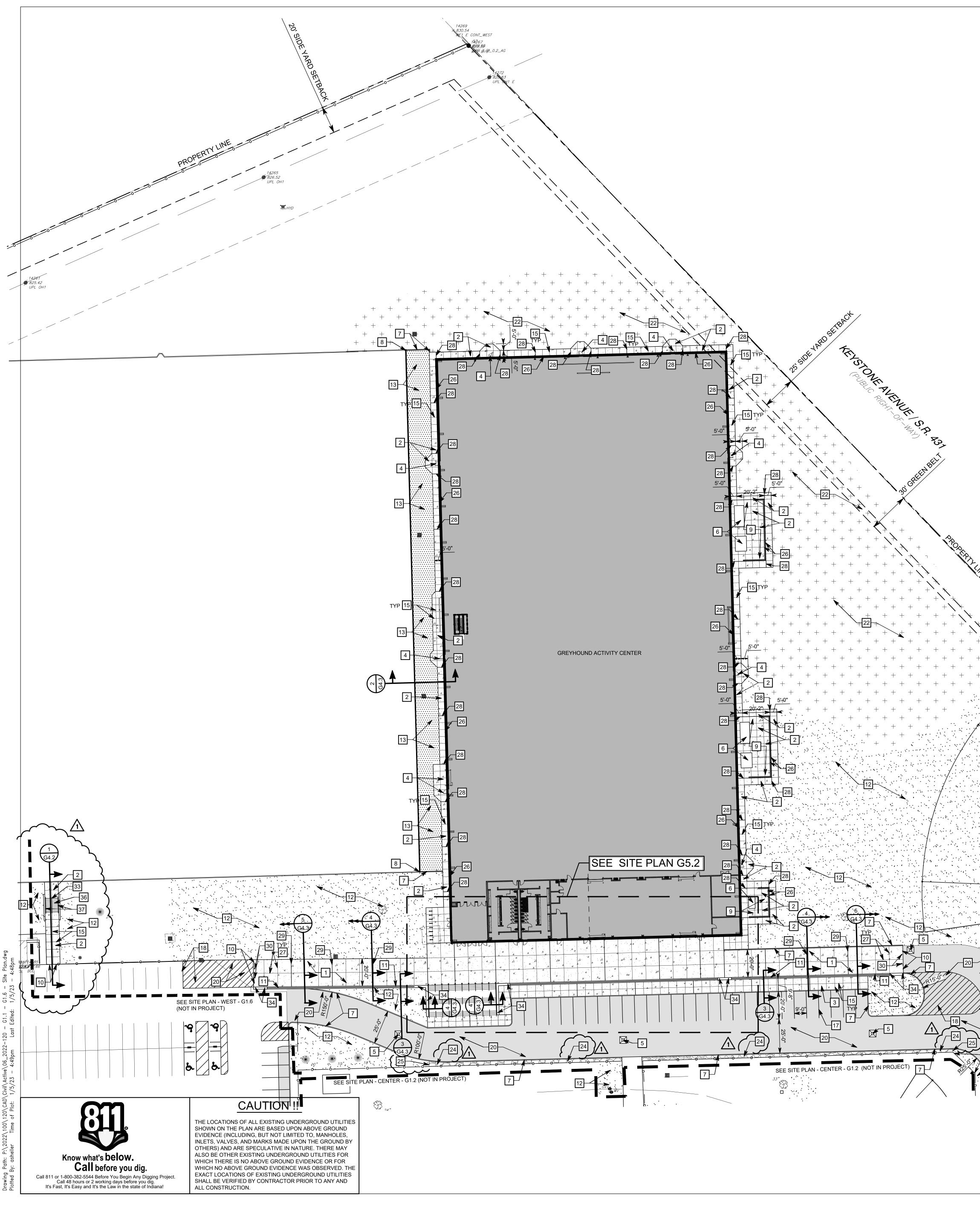
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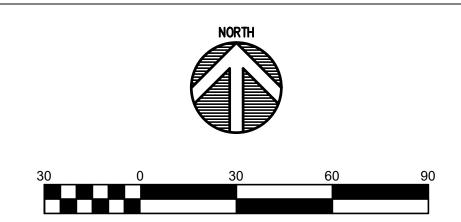


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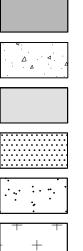








### PROPOSED SITE LEGEND



-16 -12 -7

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BUILDING

ASPHALT PAVEMENT

CONCRETE SIDEWALK/PAVEMENT

SYNTHETIC TURF

SEEDED LAWN

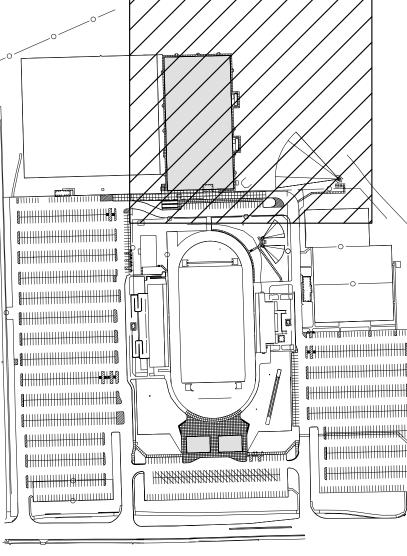
NATIVE SEED MIX

### GENERAL NOTES

- 1. SEE DRAWING GD0.1 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
- 2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY CEC CIVIL & ENVIRONMENTAL CONSULTANTS DATED MAY 17, 2022. 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.

### SITE KEYNOTES (GAC)

]	CONCRETE PAVEMENT - SEE DETAIL F/G4.1
]	CONCRETE SIDEWALK - SEE DETAIL A/G4.1
]	MONOLITHIC CURB & WALK - SEE DETAIL B/G4.1
]	CONCRETE STOOP - SEE DETAIL 11 & 12/S3.02 & DWG S1.01
]	CONCRETE COLLAR - SEE DETAIL E/G4.1
]	CONCRETE EQUIPMENT PAD - REFER TO DETAIL K/G4.1
]	CONCRETE STRAIGHT CURB - SEE DETAIL H/G4.1
]	CURB TO CURB CONNECTION - SEE DETAIL P/G4.1
]	UTILITY AREA - REFER TO \$1.01
)	CONCRETE/ASPHALT INTERFACE - DETAIL N/G4.1
	CONCRETE WALL W/ RAILING - SEE SECTIONS 3, 4 & 5/G4.3
2	LAWN AREA - SEE LANDSCAPE PLANS
3	SYNTHETIC TURF SURFACING OVER AGGREGATE BASE - SEE DETAIL L/G4.1
5	CONCRETE CONTROL JOINT - SEE DETAIL C/G4.1
3	6' HT. CHAIN LINK FENCE FENCE - MATCH EXISTING HEIGHT AND MATERIAL
'	4" WIDE WHITE PAVEMENT MARKING - PER SPECIFICATIONS
3	4" WIDE WHITE PAVEMENT STRIPE AT 3'-0" O.C. AT 45° ANGLE
)	RELOCATED DISCUS CAGE WITH 6" DEEP CONCRETE PAD & ALUMINUM DISCUS RING
)	ASPHALT PAVEMENT - DETAIL A/G4.2
]	-4' WIDE MAN GATE, MATCH EXISTING FENCE HEIGHT AND FABRIC
2	NATIVE PLANTINGS - SEE LANDSCAPE PLAN
ŀ	WASHED RIVER ROCK - SEE LANDSCAPE PLAN
5	STEEL EDGING - SEE LANDSCAPE PLAN
5	ISOLATION JOINT - SEE DETAIL D/G4.1
'	CONCRETE CONTROL JOINT - SEE DETAIL G/G4.1
3	
	CONCRETE EXPANSION JOINT - SEE DETAIL C/G4.1
)	CONCRETE EXPANSION JOINT - SEE DETAIL C/G4.1 CONCRETE EXPANSION JOINT - SEE DETAIL G/G4.1
	CONCRETE EXPANSION JOINT - SEE DETAIL G/G4.1
	CONCRETE EXPANSION JOINT - SEE DETAIL G/G4.1 REMOVABLE BOLLARD - PER DETAIL J/G4.2 2" DIA. ALUMINUM HANDRAIL - PER ARCHITECTURAL PLANS & DIVISION 05
	CONCRETE EXPANSION JOINT - SEE DETAIL G/G4.1 REMOVABLE BOLLARD - PER DETAIL J/G4.2 2" DIA. ALUMINUM HANDRAIL - PER ARCHITECTURAL PLANS & DIVISION 05 SECTION "DECORATIVE METAL RAILINGS"
	CONCRETE EXPANSION JOINT - SEE DETAIL G/G4.1 REMOVABLE BOLLARD - PER DETAIL J/G4.2 2" DIA. ALUMINUM HANDRAIL - PER ARCHITECTURAL PLANS & DIVISION 05 SECTION "DECORATIVE METAL RAILINGS" CONCRETE WALL (FULL HEIGHT) - SEE SECTIONS 3, 4 & 5/G4.3

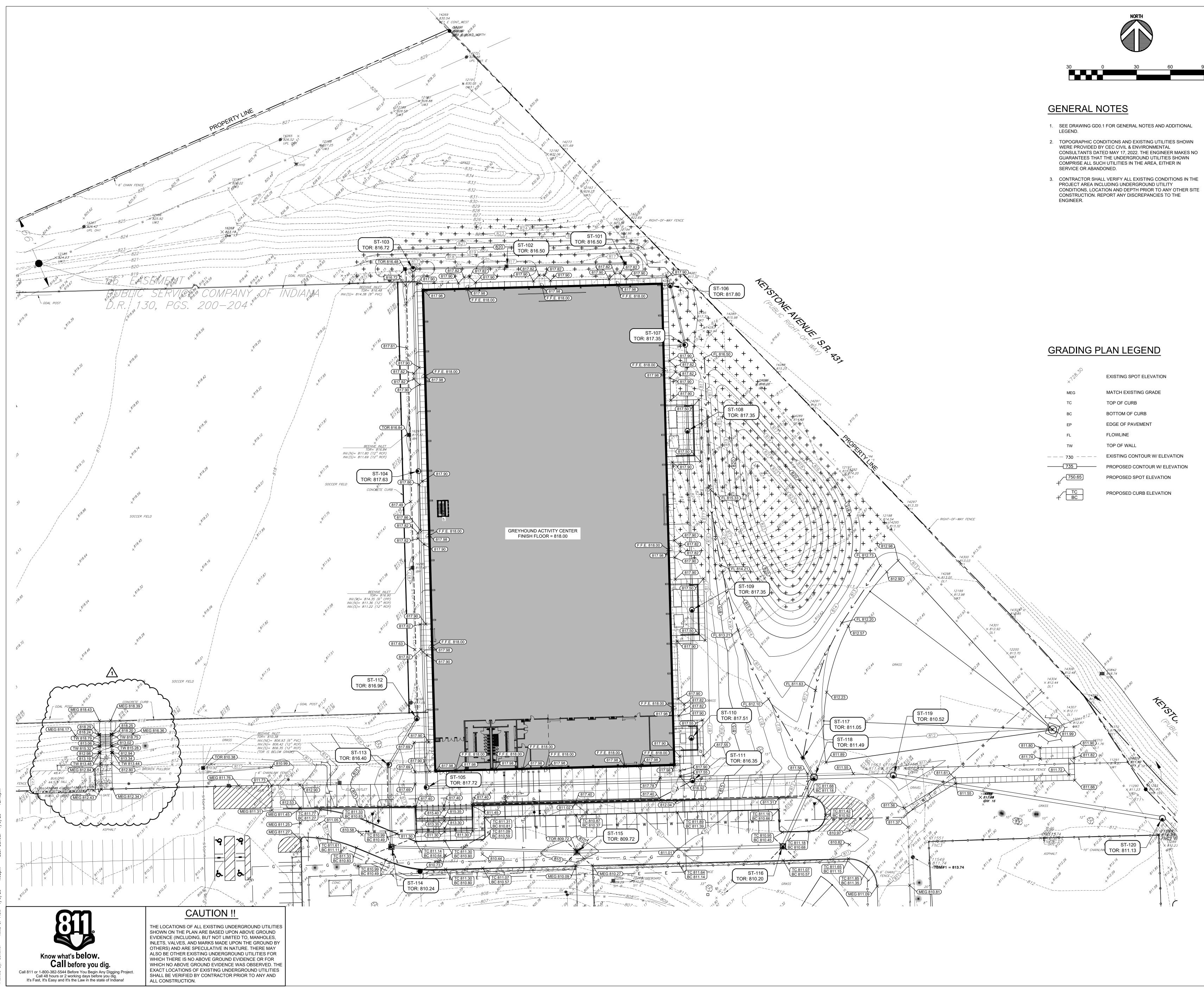


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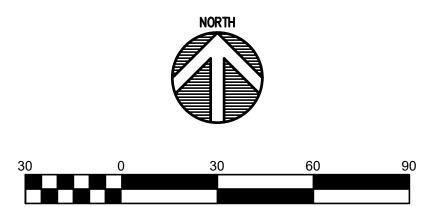
LEGEND

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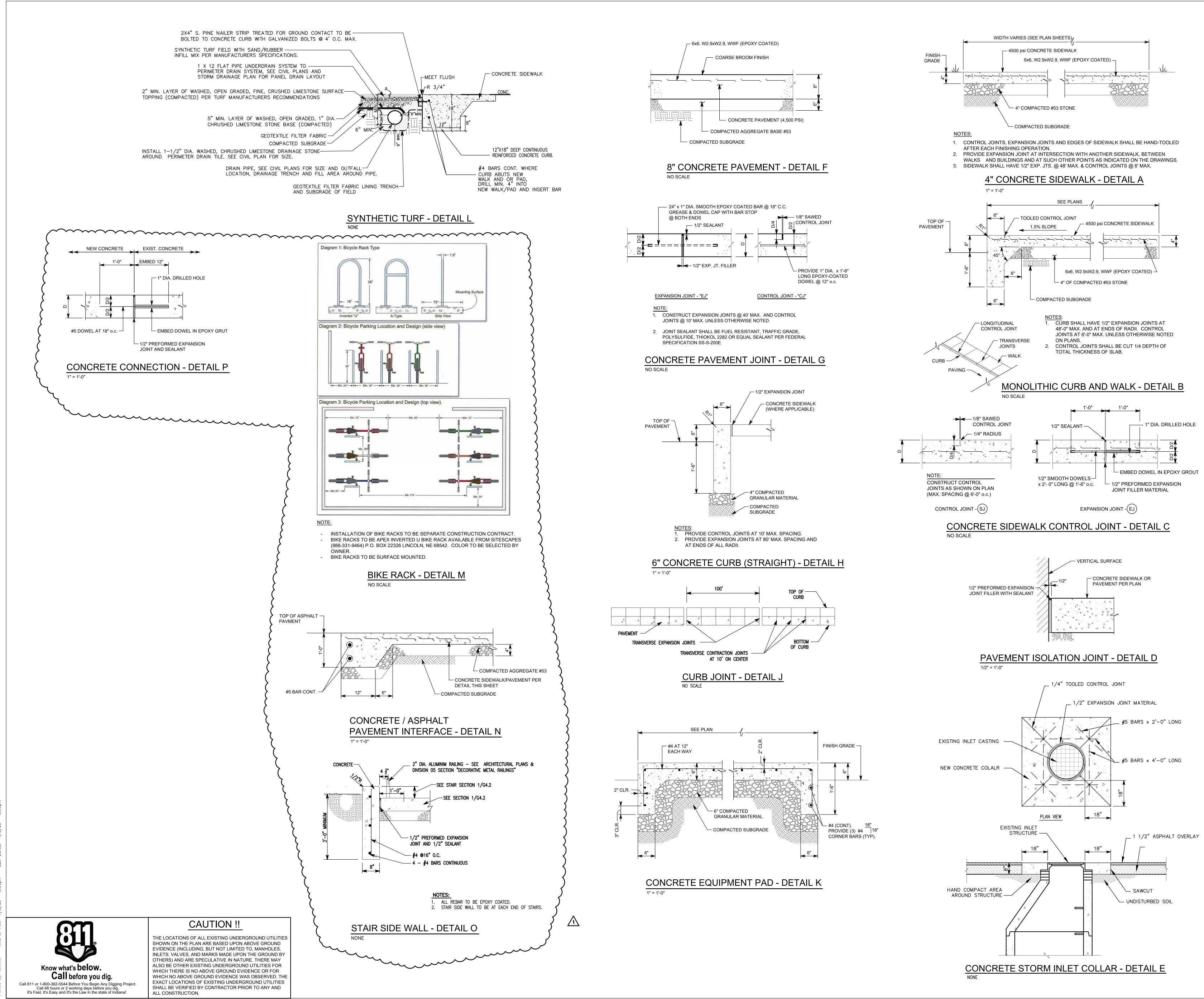


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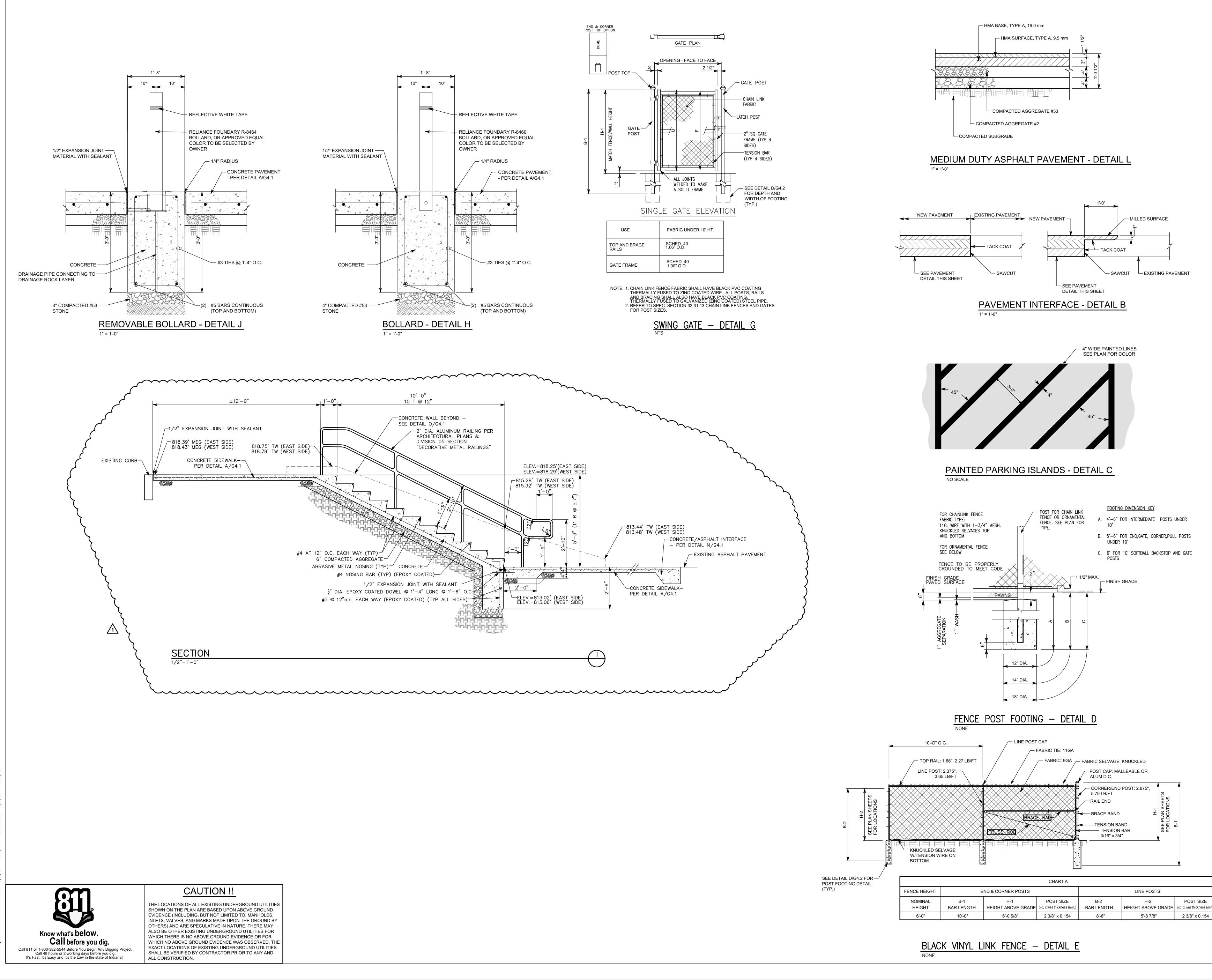


- CONSULTANTS DATED MAY 17, 2022. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE

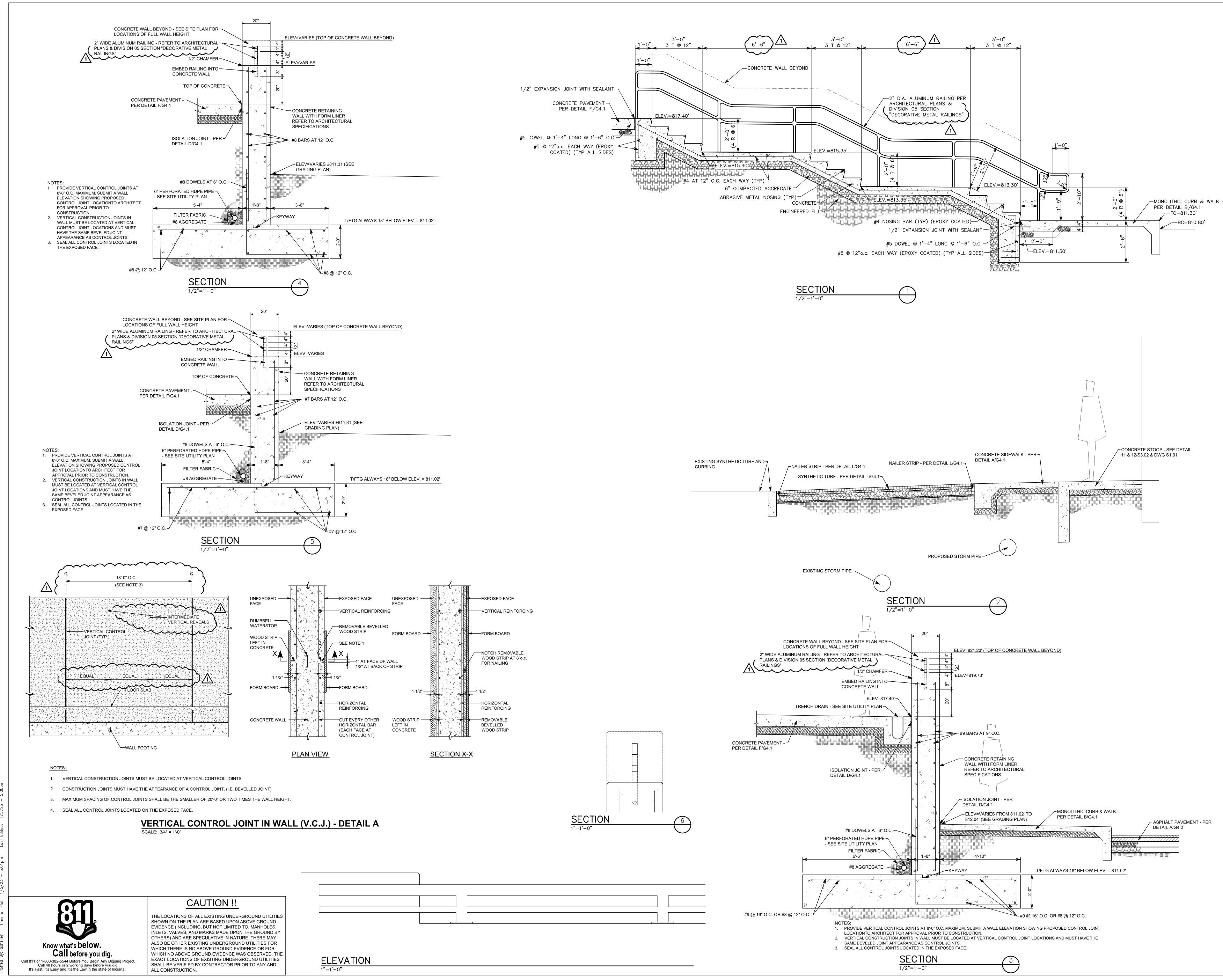


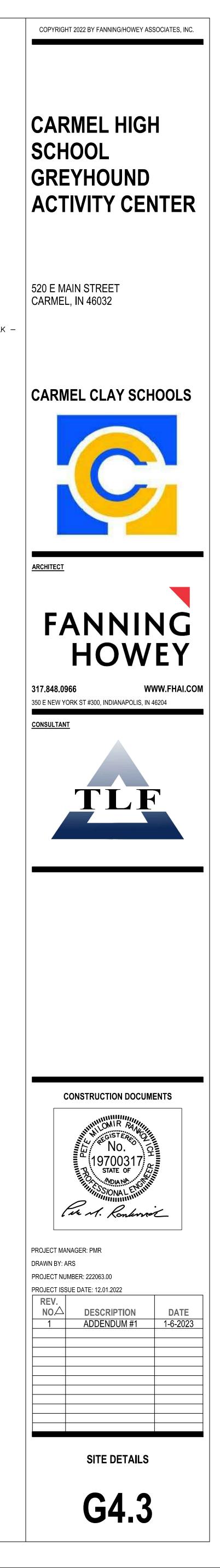


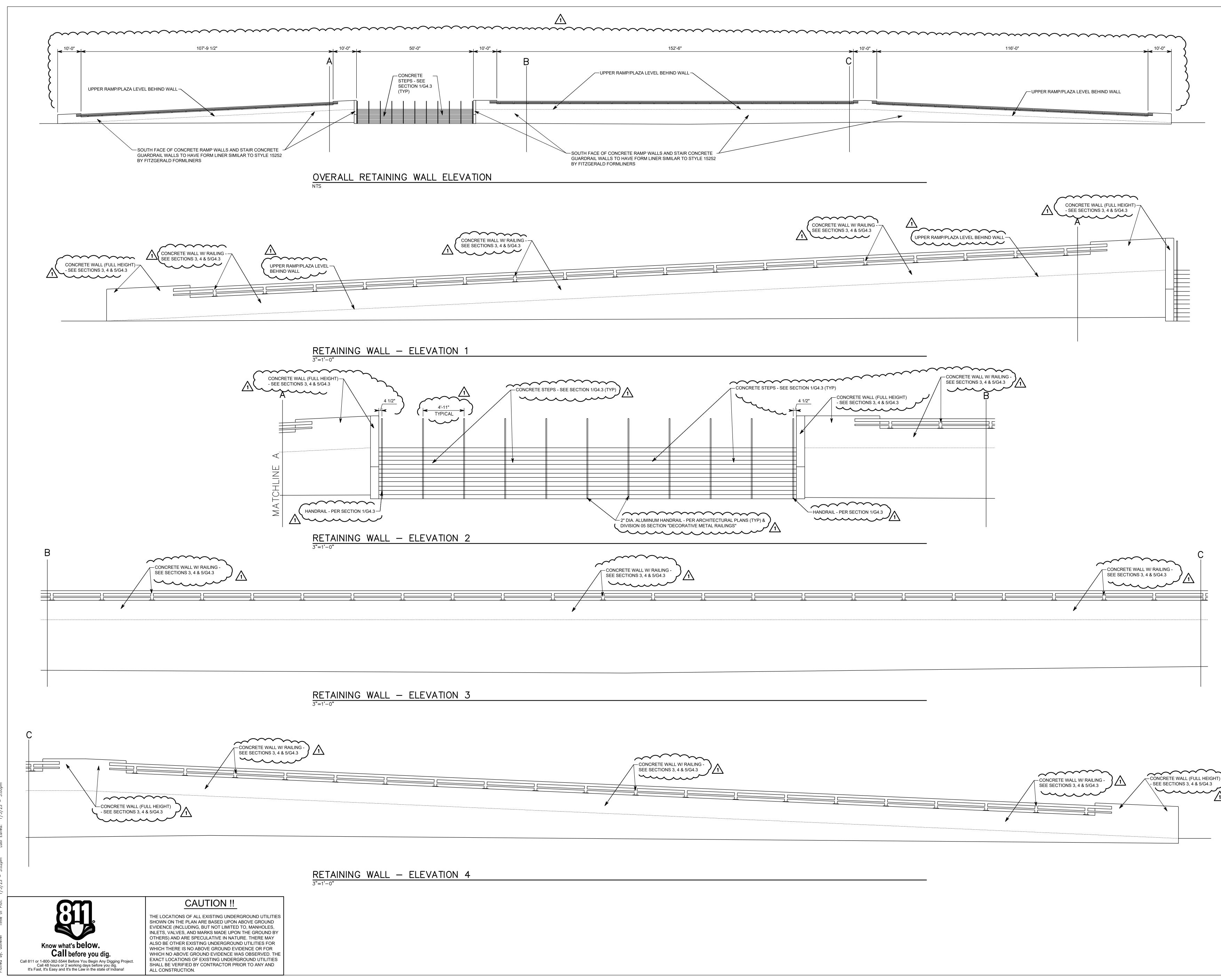




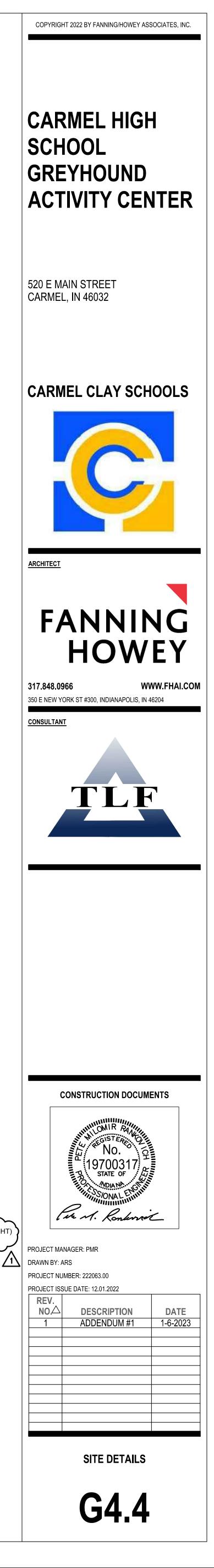


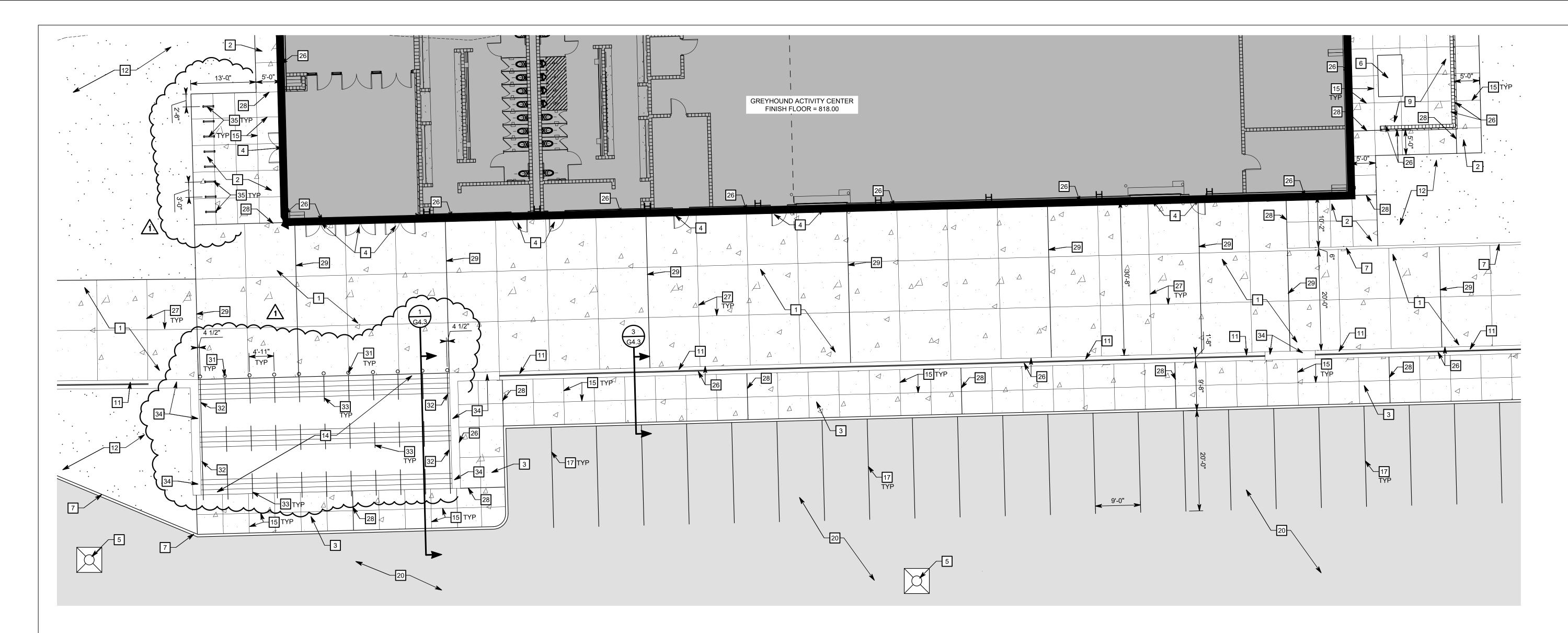






1g Path: P:\2022\100\120\CAD\Civil\Active\14\_2022-120 - G4.1 - Site Details.dwg ' By: asheller Time of Plot: 1/5/23 - 5:02pm Last Edited: 1/5/23 - 5:00p





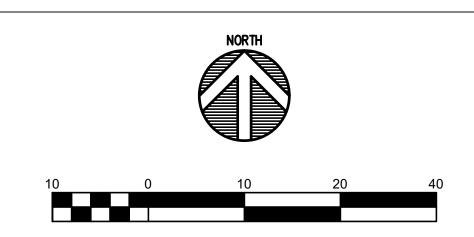




Call before you dig. Call 811 or 1-800-382-5544 Before You Begin Any Digging Project. Call 48 hours or 2 working days before you dig. It's Fast, It's Easy and It's the Law in the state of Indiana!

### 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.



### **GENERAL NOTES**

- 1. SEE DRAWING GD0.1 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
- 2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY CEC CIVIL & ENVIRONMENTAL CONSULTANTS DATED MAY 17, 2022. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
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### SITE KEYNOTES (GAC)

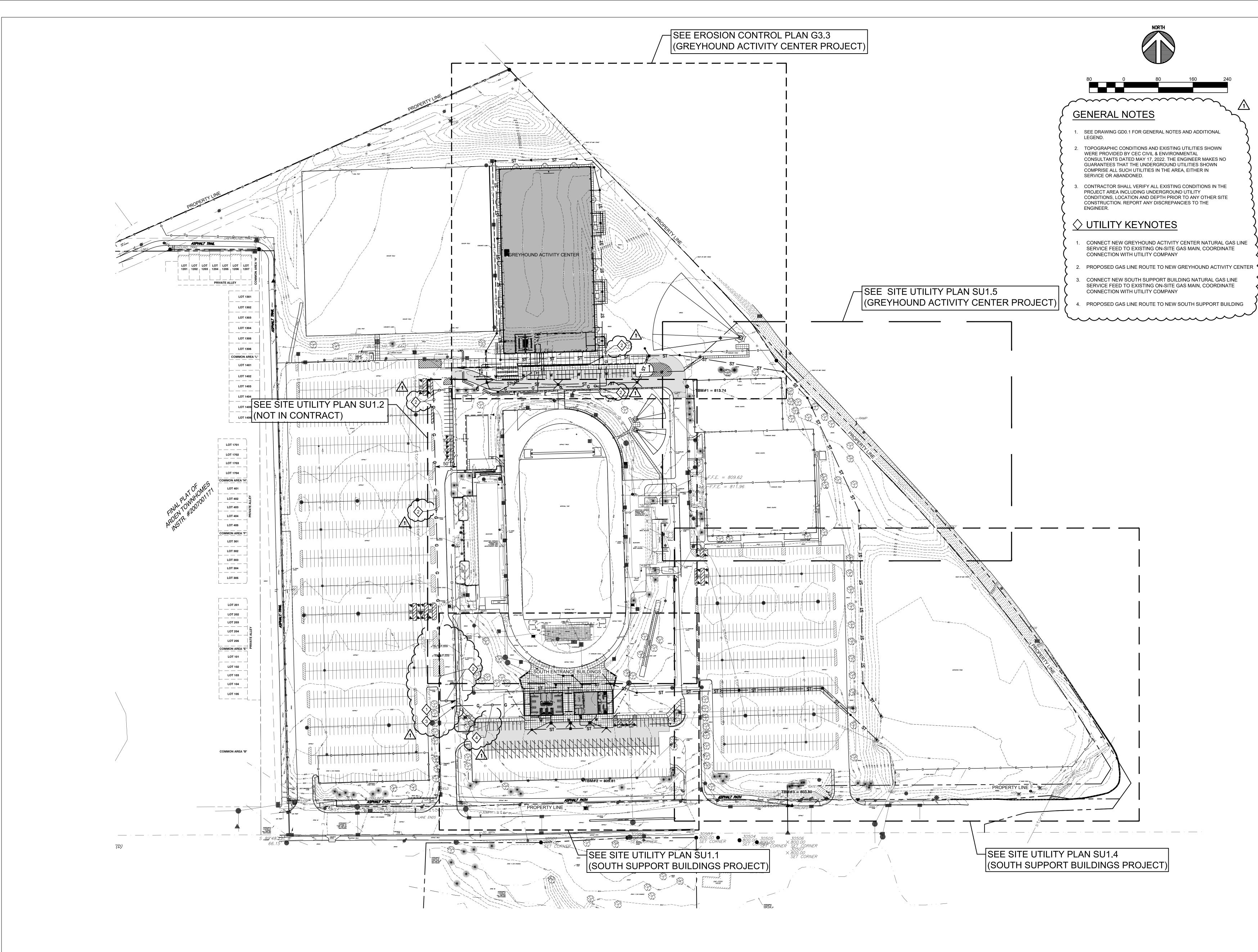
- CONCRETE PAVEMENT SEE DETAIL F/G4.1
   CONCRETE SIDEWALK SEE DETAIL A/G4.1
   MONOLITHIC CURB & WALK SEE DETAIL B/G4.1
- 4 CONCRETE STOOP SEE DETAIL 11 & 12/S3.02 & DWG S1.01
- 5 CONCRETE COLLAR SEE DETAIL E/G4.1
- 6 CONCRETE EQUIPMENT PAD REFER TO DETAIL K/G4.1
- 7 CONCRETE STRAIGHT CURB SEE DETAIL H/G4.1
- UTILITY AREA REFER TO S1.01
- 11 CONCRETE WALL W/ RAILING SEE SECTIONS 3, 4 & 5/G4.3
- 12
   LAWN AREA SEE LANDSCAPE PLANS
- 14
   CONCRETE STEPS SEE SECTION 1/G4.3
- 15 CONCRETE CONTROL JOINT SEE DETAIL C/G4.1
- 17 4" WIDE WHITE PAVEMENT MARKING PER SPECIFICATIONS
- 20 ASPHALT PAVEMENT DETAIL A/G4.2
- 26 ISOLATION JOINT SEE DETAIL D/G4.1
- 27 CONCRETE CONTROL JOINT SEE DETAIL G/G4.1
- 28 CONCRETE EXPANSION JOINT SEE DETAIL C/G4.1
- 29 CONCRETE EXPANSION JOINT SEE DETAIL G/G4.1
- 31 BOLLARD PER DETAIL H/G4.2
- 32 HANDRAIL PER SECTION 1/G4.3
- 33 2" DIA. ALUMINUM HANDRAIL PER ARCHITECTURAL PLANS & DIVISION 05 SECTION "DECORATIVE METAL RAILINGS"
- 34 CONCRETE WALL (FULL HEIGHT) SEE SECTIONS 3, 4 & 5/G4.3
- 35 BIKE RACK PER DETAIL M/G4.1

### PROPOSED SITE LEGEND

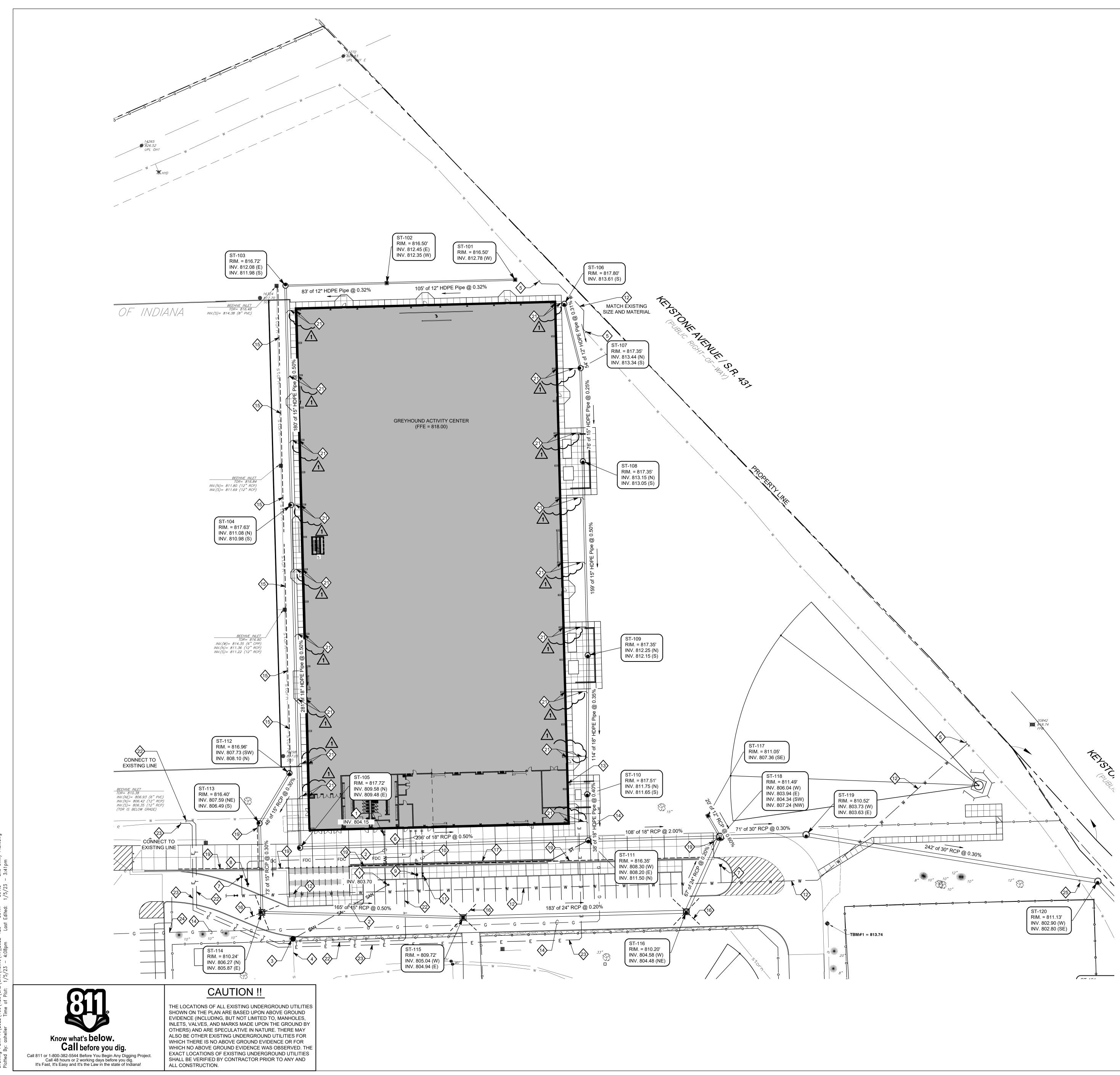
	BUILDING
Δ	CONCRETE SIDEWALK/PAVEMENT
	ASPHALT PAVEMENT
	POLYURETHANE SURFACE
	SEEDED LAWN

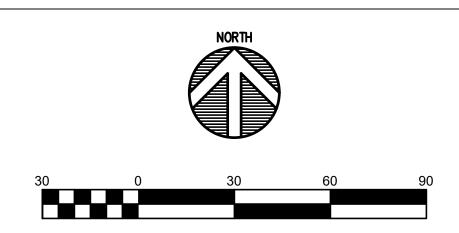












### **GENERAL NOTES**

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4. SEE SHEET SU2.1 & SU2.2 FOR DETAILS. ······

### ♦ UTILITY KEYNOTES

- 1. PROPOSED SANITARY CLEANOUT
- 2. PROPOSED 6" PVC SANITARY LATERAL @ 1.04% MIN. SLOPE
- 3. PROPOSED SANITARY MANHOLE. CONNECT TO EXISTING 8" PVC AT INVERT 800.55. NEW 6" SANITARY LATERAL @ INV. EL. = 802.75
- 4. EXISTING SANITARY SEWER, VERIFY LOCATION, ELEVATION AND SIZE
- 5. PROPOSED CONNECTION TO EXISTING WATER LINE
- 6. PROPOSED 4" FIRE PROTECTION LINE
- 7. PROPOSED FIRE HYDRANT

PRIOR TO CONSTRUCTION

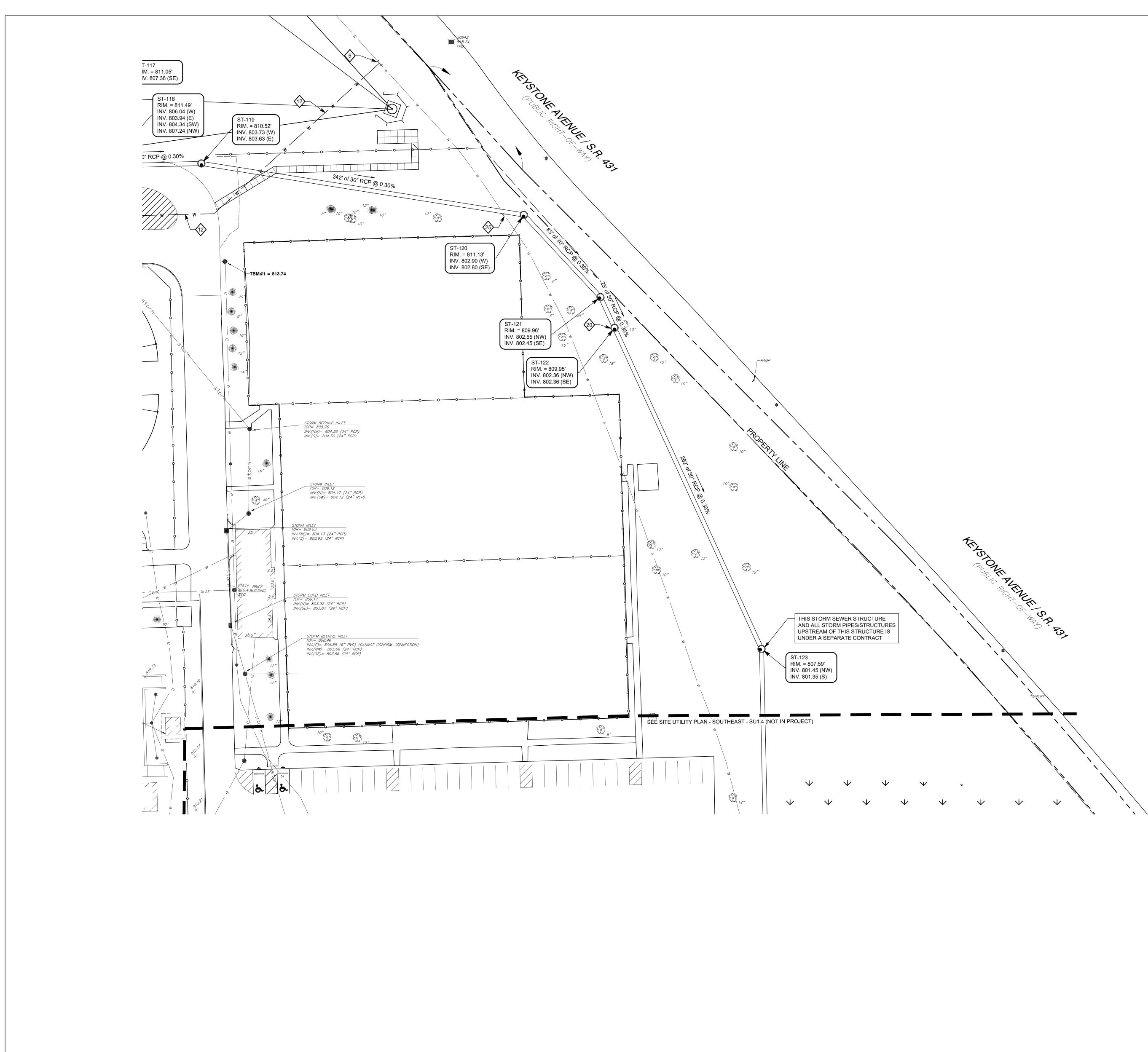
- 8. PROPOSED FIRE DEPARTMENT CONNECTION
- 9. PROPOSED POST INDICATOR VALVE
- 10. PROPOSED 3" DOMESTIC WATER LINE
- 11. PROPOSED VALVE
- 12. PROPOSED 8" PVC WATER LINE
- 13. PROPOSED GAS METER LOCATION
- 14. PROPOSED GAS LINE PER GAS COMPANY
- 15. PROPOSED TURF UNDERDRAIN
- 16. PROPOSED PAVEMENT UNDERDRAIN
- 17. STORM TRENCH DRAIN
- 18. STORM SEWER CLEANOUT
- 19. 6" PERFORATED UNDERDRAIN FOR RETAINING WALL. CONNECT TO PROPOSED STORM STRUCTURE
- 20. AQUA-SWIRL XC-11 BMP STRUCTURE
- 21. DOWNSPOUT BOOT FOR 6"x 6" DOWNSPOUT. PROVIDE 8" DIP @ 2.00% SLOPE LATERAL AND CONNECT WITH WYE TO PROPOSED STORM SEWER.
- ······ 22. RELOCATED TELECOMMUNICATION LINE
- 23. RELOCATED ELECTRICAL SERVICE LINE
- 24. PROPOSED GAS SERVICE FEED, COORDINATE ROUTE & SIZE W/ UTILITY COMPANY (PROVIDE UTILITY ASPHALT PATCH IN ASPHALT PAVEMENT AREAS) SEE OVERALL SITE UTILITY PLAN FOR CONTINUATION
- 25. RELOCATE PORTION OF EXISTING WATER LINE TO ACHIEVE A MININUM SEPERATION OF 18" FROM PROPOSED STORM PIPE

### UTILITY LEGEND

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NEW STORM SEWER LINE
NEW FIRE PROTECTION LINE
NEW WATER LINE
NEW SANITARY LATERAL LINE
EXISTING STORM LINE
EXISTING WATER LINE
EXISTING SANITARY LINE
EXISTING ELECTRICAL LINE
NEW FIRE HYDRANT
NEW FIRE DEPARTMENT CONNECTION

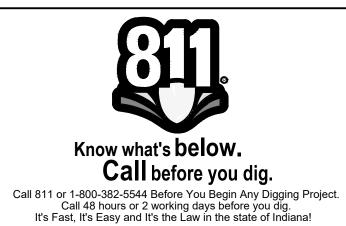


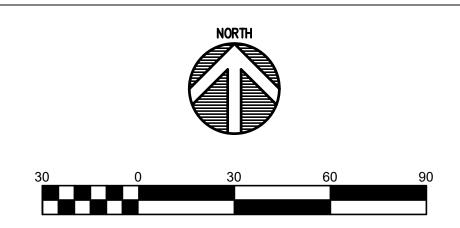




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awing Path: P:\2022\100\120\CAD\Civil\Active\17\_2022-120 - SU1.1 - SU1.5 - Site Utility Plo otted By: asheller Time of Plot: 1/5/23 - 4:07pm Last Edited: 1/5/23 - 3:41pm





### GENERAL NOTES

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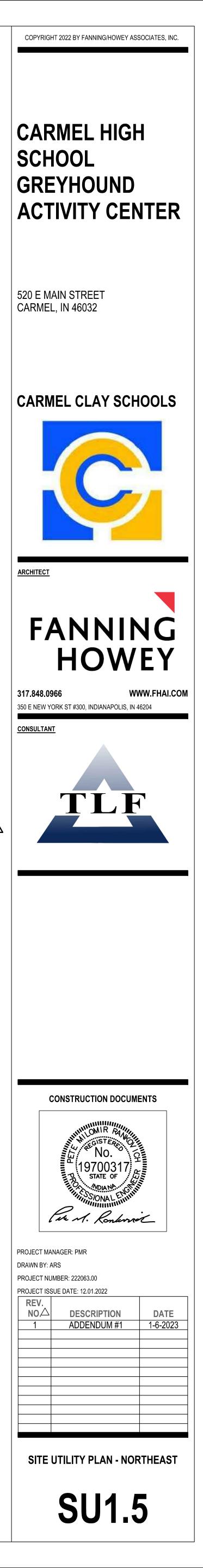
### $\bigcirc$ UTILITY KEYNOTES

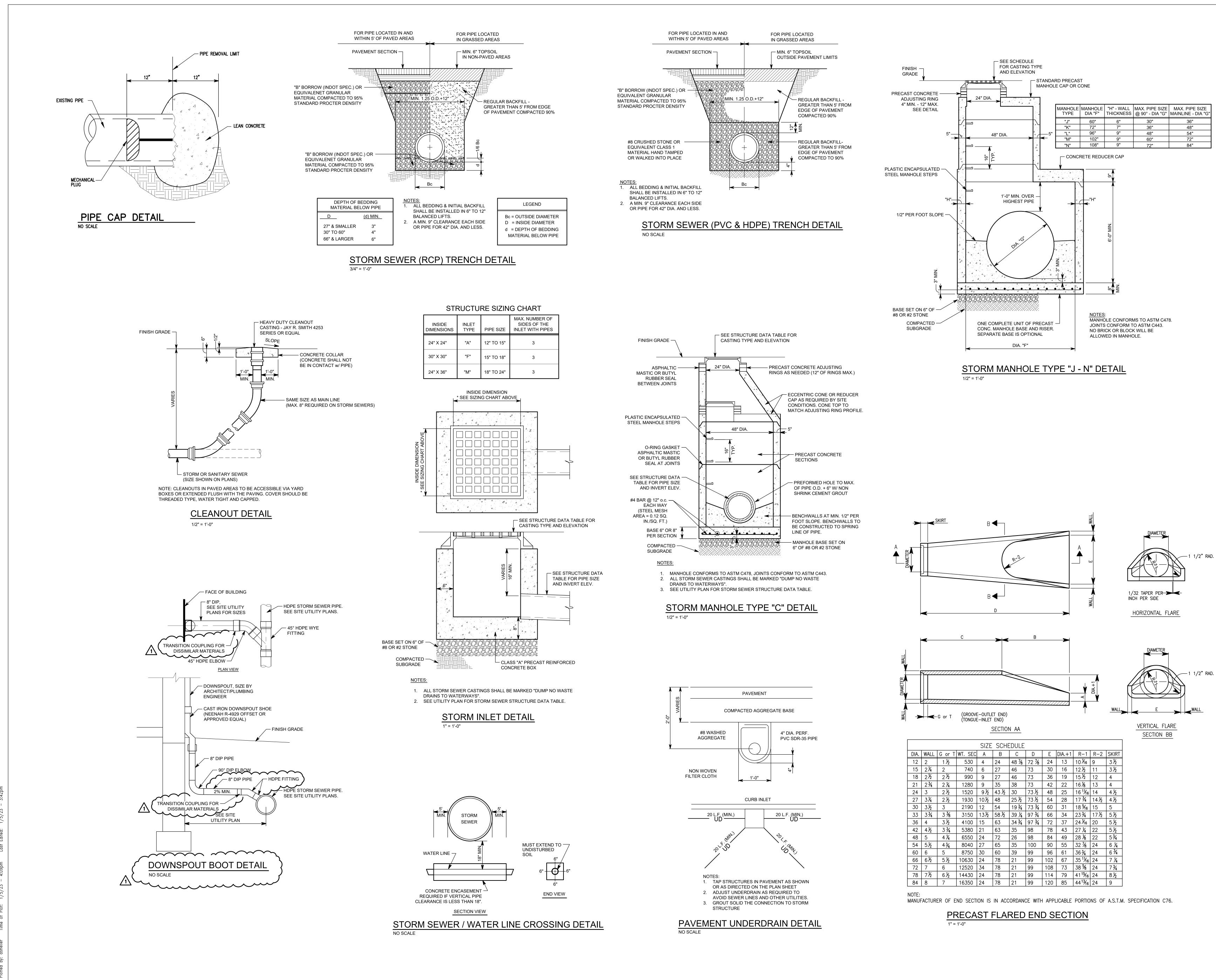
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- 6. PROPOSED 4" FIRE PROTECTION LINE
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- 9. PROPOSED POST INDICATOR VALVE
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- 25. RELOCATE PORTION OF EXISTING WATER LINE TO ACHIEVE A MININUM SEPERATION OF 18" FROM PROPOSED STORM PIPE

### UTILITY LEGEND

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NEW STORM SEWER LINE
NEW FIRE PROTECTION LINE
NEW WATER LINE
NEW SANITARY LATERAL LINE
EXISTING STORM LINE
EXISTING WATER LINE
EXISTING SANITARY LINE
EXISTING ELECTRICAL LINE
NEW FIRE HYDRANT
NEW FIRE DEPARTMENT CONNECTION

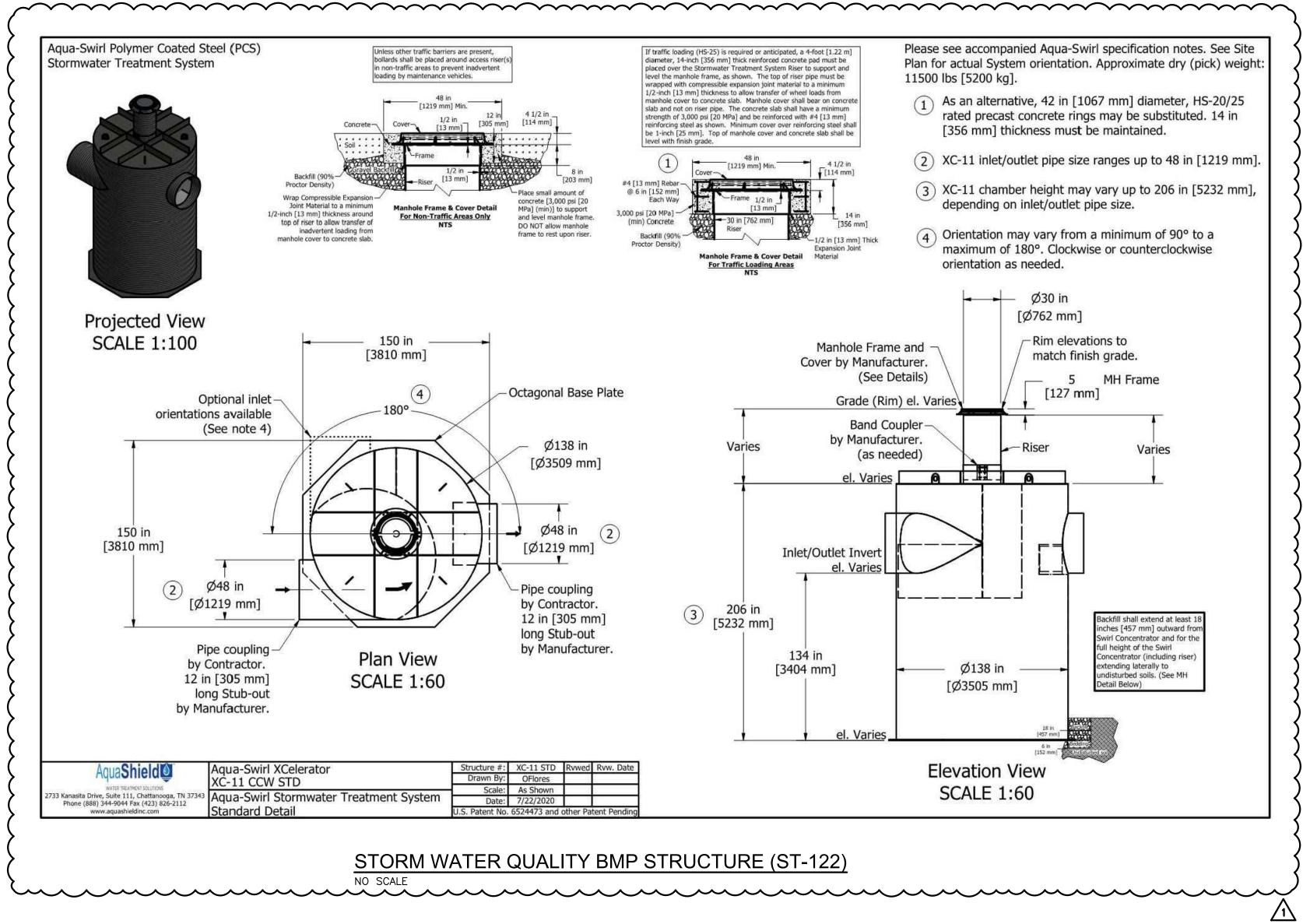




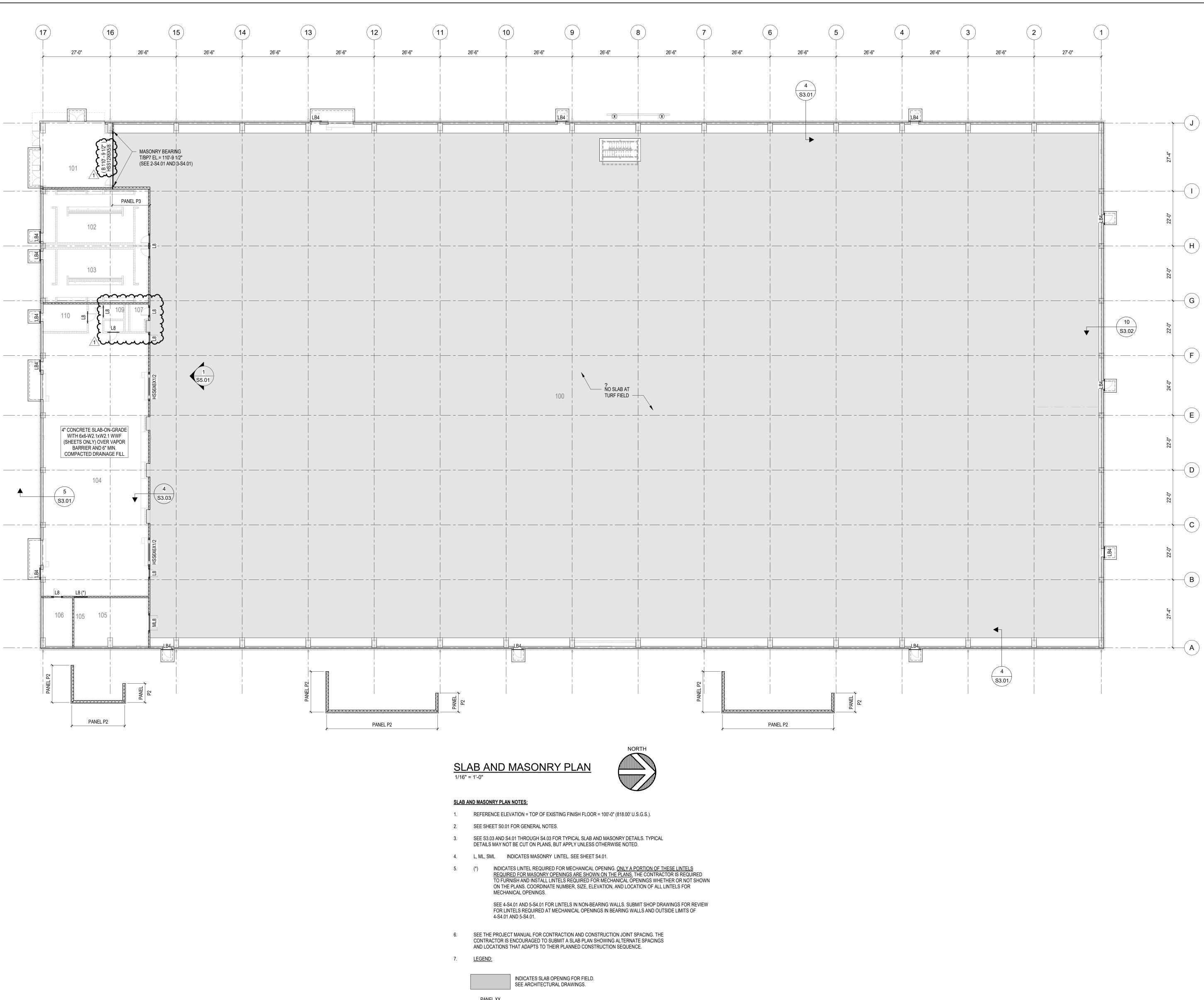


### STORM WATER QUALITY BMP STRUCTURE (ST-211) NO SCALE (NOT IN CONTRACT)

122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.36 (SE) [123]       262'       30"       0.35%       123       -         123       Type "J" Manhole       R-1772       807.59       30" RCP 801.45 (NW) [122]       -30" RCP 801.35 (S) [124]       400'       30"       0.35%       124       -	TR. IO.	STRUCTURE	STRUCTURE DETAIL REFERENCE	CASTING TYPE	RIM	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE	CONNECT TO STR.	REMARK
103       Type "C Manhole       R.1772       816.72       12" HDPE Pipe 812.08 (E)[102]       16" HDPE Pipe 811.08 (N)[103]       18:0       16"       0.50%       1.04       .         104       Type "C Manhole       R.1772       817.83       15" HDPE Pipe 810.08 (S)[103]       281"       18"       0.50%       1.05       .       .         105       Type "C Manhole       R.1772       817.83       15" HDPE Pipe 80.06.8 (N)[104]       18" HDPE Pipe 813.6 (S)[107]       5.4"       1.8"       0.50%       1.01       .         106       Type "C Manhole       R.1772       817.83       12" HDPE Pipe 813.6 (S)[107]       5.4"       1.2"       0.55%       1.06       .       .         107       Type "C Manhole       R.1772       817.83       12" HDPE Pipe 813.5 (S)[107]       1.4"       1.6"       0.55%       1.06       .         108       Type "C Manhole       R.1772       817.83       15" HDPE Pipe 813.2 (S)[107]       1.14"       1.6"       0.55%       1.06       .       .         109       Type "C Manhole       R.1772       817.83       15" HDPE Pipe 812.5 (S)[101]       1.6"       1.6"       0.50%       1.118       .       .       .       .       .       .       .       . </td <td>101</td> <td>Inlet Type "A"</td> <td></td> <td>R-4342</td> <td>816.50</td> <td></td> <td>12" HDPE Pipe 812.78 (W) [102]</td> <td>105'</td> <td>12"</td> <td>0.32%</td> <td>102</td> <td>-</td>	101	Inlet Type "A"		R-4342	816.50		12" HDPE Pipe 812.78 (W) [102]	105'	12"	0.32%	102	-
International         Ref.172         817.63         15' HDPE Pipe 811.08 (N)[103]         18'' HDPE Pipe 810.88 (S)[105]         2.81         18''         0.50%         1.05         .           106         Type °C' Manhole         R.172         817.20         18'' HDPE Pipe 883.58 (N)[104]         18''RCP 808.48 (E)[111]         236''         18''         0.50%         1.11         -           106         Type °C' Manhole         R.1772         817.35         12' HDPE Pipe 813.45 (N)[107]         54''         12''         0.31%         1.07''         -           107         Type °C' Manhole         R.1772         817.35         12' HDPE Pipe 813.45 (N)[107]         54''         12''         0.31%         1.07'''         -           108         Type °C' Manhole         R.1772         817.35         15' HDPE Pipe 813.55 (N)[107]         114'' HDPE Pipe 811.55 (N)[107]         114'''         0.50%         100''''         -           108         Type °C' Manhole         R.1772         817.55         18'' HDPE Pipe 811.55 (N)[100]         14''' HDPE Pipe 811.55 (N)[110]         14''''         18'''''         0.50%         1110''''''         -           111         Type °C' Manhole         R.1772         816.55         11'''''''''''''''''''''''''''''''''''	102	Inlet Type "A"		R-4342	816.50	12" HDPE Pipe 812.45 (E) [101]	12" HDPE Pipe 812.35 (W) [103]	83'	12"	0.32%	103	-
105         Type "C" Mambel         R.1772         817.72         16" HDPE Pipe 809.58 (N)[14]         16" RCP 809.48 (E)[111]         236"         18"         0.50%         1111         .           106         Type "C" Mambel         R.1772         817.80         12" HDPE Pipe 813.61 (S)[107]         54"         12"         0.31%         107         .           107         Type "C" Mambel         R.1772         817.35         12" HDPE Pipe 813.54 (N)[107]         15" HDPE Pipe 813.56 (S)[109]         16"         0.25%         108         .           108         Type "C" Mambel         R.1772         817.55         15" HDPE Pipe 813.56 (N)[107]         15" HDPE Pipe 813.56 (S)[109]         119"         16"         0.05%         110         .           109         Type "C" Mambel         R.1772         817.55         15" HDPE Pipe 813.56 (N)[107]         16" HDPE Pipe 813.56 (S)[11]         38"         18"         0.40%         111         .           110         Type "C" Mambel         R.1472         816.56         12" RCP 808.10 (N)[10]         16" RCP 808.20 (E)[113]         108"         19"         2.00%         113         .           111         Type "C" Mambel         R.4342         816.56         12" RCP 807.50 (N)[113]         46"         15"         0.3	103 T	Type "C" Manhole		R-1772	816.72	12" HDPE Pipe 812.08 (E) [102]	15" HDPE Pipe 811.98 (S) [104]	180'	16"	0.50%	104	-
100         Type "C" Manhole         R. 1772         817.80         12" HDPE Pipe 813.61 (5)[107         54"         12"         0.31%         107         .           107         Type "C" Manhole         R. 1772         817.33         12" HDPE Pipe 813.44 (N)[106]         15" HDPE Pipe 813.45 (5)[108]         76"         16"         0.25%         108         .           108         Type "C" Manhole         R. 1772         817.33         15" HDPE Pipe 813.25 (N)[100]         15" HDPE Pipe 813.25 (S)[110]         114"         18"         0.05%         109         .           109         Type "C" Manhole         R. 1772         817.31         15" HDPE Pipe 811.25 (N)[100]         16" HDPE Pipe 813.65 (S)[111]         38"         18"         0.40%         1111         .           110         Type "C" Manhole         R. 1772         817.31         15" HDPE Pipe 811.35 (N)[100]         16" HDPE Pipe 811.65 (S)[111]         38"         18"         0.40%         1111         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .<	104 T	Type "C" Manhole		R-1772	817.63	15" HDPE Pipe 811.08 (N) [103]	18" HDPE Pipe 810.98 (S) [105]	281'	18"	0.50%	105	-
170         Type "C" Manhole         R. R1772         81.73         12" HDPE Pipe 813.44 (N) [16]         15" HDPE Pipe 813.45 (S) [10]         7.6"         16"         0.25%         108         .           100         Type "C" Manhole         R. R1772         81.73         15" HDPE Pipe 813.15 (N) [10]         16" HDPE Pipe 813.05 (S) [10]         1.6"         0.50%         1.00         .           100         Type "C" Manhole         R. R1772         81.73         15" HDPE Pipe 812.25 (N) [108         16" HDPE Pipe 812.15 (S) [110]         1.14"         1.8"         0.35%         1.10         .           110         Type "C" Manhole         R. R1772         81.53         16" HDPE Pipe 811.55 (N) [10]         18" HDPE 808.20 (S) [111]         3.8"         1.8"         0.40%         1.11         .           111         Type "C" Manhole         R. 4342         81.69         12" RCP 808.30 (M) [10]         16" RCP 808.30 (M) [113]         1.8"         1.8"         1.5"         0.30%         1.113         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .	105 T	Type "C" Manhole		R-1772	817.72	18" HDPE Pipe 809.58 (N) [104]	18" RCP 809.48 (E) [111]	236'	18"	0.50%	111	-
Mark         Mark         R-172         817.85         15' HDP Pipe 813.15 (N) 1071         15' HDP Pipe 813.05 (S) 1101         15''         Hole         1.05''         1.00''         1.00''           100         Type "C" Manhole         R-1772         817.35         15' HDP Pipe 812.25 (N) 100         18'' HDP Pipe 812.55 (S) 1101         1.14''         1.8''         0.40''s         1.10''         .           110         Type "C" Manhole         R-1772         817.35         18'' HDP Pipe 811.55 (N) 100         18'' HDP Pipe 811.55 (N) 100         1.8'''         0.40''s         1.11''         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .	106 T	Type "C" Manhole		R-1772	817.80		12" HDPE Pipe 813.61 (S) [107]	54'	12"	0.31%	107	-
Image "C" Manhole         R-1772         817.36         15" HDPE Pipe 812.25 (N) [108]         15" HDPE Pipe 812.55 (S) [111]         114"         18"         0.35%         110         -           110         Type "C" Manhole         R-1772         817.51         18" HDPE Pipe 811.55 (N) [109]         18" HDPE Pipe 811.55 (N) [111]         38"         18"         0.40%         111         -           111         Type "C" Manhole         R-1772         816.36         12" RCP 806.30 (W) [105]         18" HDPE Pipe 811.55 (N) [111]         18" RCP 806.20 (E) [118]         108"         18"         0.40%         1118         -           112         Type "C" Manhole         R-4342         816.66         12" RCP 806.10 (N) [1         15" RCP 807.73 (SW) [113]         48"         15"         0.30%         1113         -           113         Type "C" Manhole         R-3472         810.42         15" RCP 807.59 (NE [111]         15" RCP 805.67 (E) [115]         165'         15"         0.30%         1114         -           114         Type "C" Manhole         R-3472         810.02         24" RCP 804.94 (E) [116]         183'         24"         0.20%         116         -           114         Type "C" Manhole         R-3472         810.02         24" RCP 804.48 (NE) [118]	107 T	Type "C" Manhole		R-1772	817.35	12" HDPE Pipe 813.44 (N) [106]	15" HDPE Pipe 813.34 (S) [108]	76'	16"	0.25%	108	-
International state         R.1772         817.61         18" HDPE Pipe 811.65 (N) [110]         18" HDPE Pipe 811.65 (S) [111]         38"         18"         0.40%         111         -           111         Type "C" Manhole         R.1772         816.35         18" RCP 808.30 (W) [105]         18" RCP 808.20 (E) [118]         108"         18"         2.00%         118         -           112         Type "C" Manhole         R.4342         816.96         12" RCP 808.70 (W) [1         15" RCP 807.73 (SW) [113]         48"         15"         0.30%         114         -           113         Type "C" Manhole         R.4342         816.96         12" RCP 807.79 (WE) [112]         15" RCP 807.73 (SW) [113]         48"         15"         0.30%         114         -           114         Type "C" Manhole         R.4342         816.90         12" RCP 807.59 (NE) [112]         16" RCP 805.87 (E) [115]         165'         15"         0.30%         116         -           115         Inlet Type "M"         R.3472         810.20         24" RCP 804.48 (NE) [118]         67"         24"         0.20%         116         -           116         Type "X" Manhole         R.3472         810.20         24" RCP 805.49 (W) [111]         20" RCP 803.94 (E) [119]         71"	108 T	Type "C" Manhole		R-1772	817.35	15" HDPE Pipe 813.15 (N) [107]	15" HDPE Pipe 813.05 (S) [109]	159'	16"	0.50%	109	-
Image Crim Manhole         R-1772         B 16.35         1 <sup>B</sup> RCP 808.30 (W) [105] B <sup>B</sup> HDPE Pipe 811.50 (N) [110]         18" RCP 808.20 (E) [118]         106"         16"         2.00%         118         -           111         Type "C" Manhole         R.4342         816.86         12" RCP 808.10 (N) [1         15" RCP 806.20 (E) [118]         106"         16"         0.30%         113         -           113         Type "C" Manhole         R.4342         816.40         15" RCP 807.59 (NE) [112]         15" RCP 806.49 (S) [114]         7.3"         15"         0.30%         114         -           114         Type "C" Manhole         R.3472         816.40         15" RCP 806.27 (N) [113]         15" RCP 806.57 (E) [116]         168'         15"         0.50%         116         -           115         Inlet Type "M"         R.3455.C         809.72         15" RCP 806.44 (N) [114]         24" RCP 804.46 (NE) [18]         168'         15"         0.50%         116         -           116         Type "A"         R.3472         810.20         24" RCP 804.34 (N) [116]         183''         24"         0.20%         118         -           116         Type "A" Manhole         R.3472         810.20         24" RCP 804.34 (NV) [116]         30" RCP 803.94 (E) [119] <td< td=""><td>109 T</td><td>Type "C" Manhole</td><td></td><td>R-1772</td><td>817.35</td><td>15" HDPE Pipe 812.25 (N) [108]</td><td>18" HDPE Pipe 812.15 (S) [110]</td><td>114'</td><td>18"</td><td>0.35%</td><td>110</td><td>-</td></td<>	109 T	Type "C" Manhole		R-1772	817.35	15" HDPE Pipe 812.25 (N) [108]	18" HDPE Pipe 812.15 (S) [110]	114'	18"	0.35%	110	-
111       1ype 'C Mainlole       R:172       816.3       18' HDPE Pipe 811.50 (N) [110]       16' RCP 806.20 (P) [113]       108'       18'       2.00%       118'       -         112       Type 'C' Manhole       R.4342       816.96       12'' RCP 806.10 (N) []       15'' RCP 807.73 (SW) [113]       48'       15''       0.30%       113'       -         113       Type 'C' Manhole       R.1772       816.40       15'' RCP 807.59 (NE) [112]       15'' RCP 806.49 (S) [114]       73'       15''       0.30%       114'       .         114       Type 'C' Manhole       R.3472       810.24       15'' RCP 807.59 (NE) [112]       15'' RCP 805.87 (E) [115]       165'       15''       0.50%       115''       .         115       Inlet Type 'M'       R.3455.C       809.72       15'' RCP 805.40 (W) [114]       24'' RCP 804.48 (NE) [118]       67''       24'''       0.20%       116'''       .         116       Type 'L' Manhole       R.3472       810.2       24'' RCP 804.34 (W) [116]       20''       12'''       0.60%       118'''       .         117       Inlet Type 'A''       R.4342       811.05       30'' RCP 803.54 (E) [119]       20''       12'''       0.60%       118'''       .         118'       Type 'L' Ma	10 T	Type "C" Manhole		R-1772	817.51	18" HDPE Pipe 811.75 (N) [109]	18" HDPE Pipe 811.65 (S) [111]	38'	18"	0.40%	111	-
113       Type "C" Manhole       R-1772       816.40       15" RCP 807.59 (NE)[112]       15" RCP 806.49 (S)[114]       73'       15"       0.30%       114       -         114       Type "C" Manhole       R-3472       810.24       15" RCP 806.27 (N)[113]       15" RCP 805.87 (E)[115]       165'       15"       0.50%       115       -         115       Inlet Type "M"       R-3455.C       809.72       15" RCP 805.40 (W)[114]       24" RCP 804.48 (E)[116]       183'       24"       0.20%       116       -         116       Type "C" Manhole       R-3472       810.20       24" RCP 804.48 (N)[118]       67'       24"       0.20%       118       -         117       Inlet Type "A"       R-4342       811.05       12" RCP 807.36 (SE)[118]       20'       12"       0.60%       118       -         118       Type "K" Manhole       R-1772       811.49       18" RCP 803.64 (W)[111]       24" RCP 803.94 (E)[119]       71'       30"       0.30%       110       -         118       Type "K" Manhole       R-1772       811.49       30" RCP 803.73 (W)[118]       30" RCP 803.94 (E)[119]       71'       30"       0.30%       120       -         119       Type "J" Manhole       R-1772       811.43 <td>111 T</td> <td>Гуре "С" Manhole</td> <td></td> <td>R-1772</td> <td>816.35</td> <td></td> <td>18" RCP 808.20 (E) [118]</td> <td>108'</td> <td>18"</td> <td>2.00%</td> <td>118</td> <td>-</td>	111 T	Гуре "С" Manhole		R-1772	816.35		18" RCP 808.20 (E) [118]	108'	18"	2.00%	118	-
114       Type "C" Manhole       R. 3472       810.24       15" RCP 806.27 (N) [113]       15" RCP 805.87 (E) [115]       165'       16''       0.50%       115       .         115       Inlet Type "M"       R. 3455.C       809.72       15" RCP 805.47 (N) [113]       15" RCP 805.87 (E) [115]       185'       24"       0.20%       116       .       .         116       Type "C" Manhole       R. 3472       810.2       24" RCP 804.58 (W) [115]       24" RCP 804.48 (NE) [118]       67'       24"       0.20%       118       .         117       Inlet Type "A"       R. 4342       811.05       12" RCP 807.36 (SE) [118]       20'       12"       0.60%       118       .         118       Type "K" Manhole       R. 4342       811.05       12" RCP 807.36 (SE) [118]       20'       12"       0.60%       118       .         118       Type "K" Manhole       R. 1772       811.49       18" RCP 803.73 (W) [118]       30" RCP 803.94 (E) [119]       71'       30"       0.30%       120       .         119       Type "J" Manhole       R. 4342       810.52       30" RCP 802.76 (W) [119]       30" RCP 802.46 (SE) [121]       83'       30"       0.30%       120       .         119       Type "J" Manhole	12 T	Type "C" Manhole		R-4342	816.96	12" RCP 808.10 (N) []	15" RCP 807.73 (SW) [113]	48'	15"	0.30%	113	-
115       Inlet Type "M"       R-3455-C       809.72       15" RCP 805.04 (W) [114]       24" RCP 804.94 (E) [116]       183'       24"       0.20%       116       -         116       Type "C" Manhole       R-3472       810.20       24" RCP 804.94 (E) [116]       183'       24"       0.20%       116       -         117       Inlet Type "A"       R-3432       811.05       24" RCP 804.48 (NE) [118]       67'       24"       0.20%       118       -         117       Inlet Type "A"       R-4342       811.05       12" RCP 807.36 (SE) [118]       20'       12"       0.60%       118       -         118       Type "K" Manhole       R-1772       811.49       18" RCP 806.04 (W) [111] 24" RCP 807.34 (SW) [16] 12" RCP 803.34 (E) [119]       71'       30"       0.30%       119       -         119       Type "J" Manhole       R-4342       810.52       30" RCP 803.73 (W) [118]       30" RCP 803.63 (E) [120]       242'       30"       0.30%       120       -         120       Type "J" Manhole       R-1772       811.13       30" RCP 802.55 (NW) [120]       30" RCP 802.46 (SE) [122]       25'       30"       0.30%       121       -         121       Type "J" Manhole       R-1772       809.96       30"	13 T	Type "C" Manhole		R-1772	816.40	15" RCP 807.59 (NE) [112]	15" RCP 806.49 (S) [114]	73'	15"	0.30%	114	-
116       Type "C" Manhole       R-3472       810.20       24" RCP 804.48 (W) [115]       24" RCP 804.48 (NE) [118]       67"       24"       0.20%       118       -         117       Inlet Type "A"       R-4342       811.05       12" RCP 804.48 (NE) [118]       20'       12"       0.60%       118       -         118       Type "K" Manhole       R-1772       811.49       18" RCP 804.34 (SW) [116] 12" RCP 804.34 (SW) [117] 24" RCP 804.34 (SW) [117] 12" RCP 804.34 (SW) [117]       30" RCP 803.94 (E) [119]       71'       30"       0.30%       119       -         118       Type "J" Manhole       R-4342       810.52       30" RCP 803.73 (W) [118]       30" RCP 803.65 [1120]       242'       30"       0.30%       120       -         120       Type "J" Manhole       R-1772       811.13       30" RCP 802.90 (W) [119]       30" RCP 802.80 (SE) [122]       25'       30"       0.30%       121       -         121       Type "J" Manhole       R-1772       809.96       30" RCP 802.36 (NW) [121]       30" RCP 802.45 (SE) [122]       25'       30"       0.35%       122       -         122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.36 (SE) [123]       262'       30"       0.35%       12	14 T	Гуре "С" Manhole		R-3472	810.24	15" RCP 806.27 (N) [113]	15" RCP 805.87 (E) [115]	165'	15"	0.50%	115	-
117       Inlet Type "A"       R-4342       811.05       12" RCP 807.36 (SE) [118]       20'       12"       0.60%       118       -         118       Type "K" Manhole       R.1772       811.49       18" RCP 806.04 (W) [111] 24" RCP 804.34 (SW) [116] 12" RCP 807.36 (SE) [119]       71'       30"       0.60%       118       -         119       Type "K" Manhole       R.4342       810.52       30" RCP 803.73 (W) [119]       30" RCP 803.63 (E) [120]       242'       30"       0.30%       120       -         119       Type "J" Manhole       R.4342       810.52       30" RCP 803.73 (W) [119]       30" RCP 803.63 (E) [120]       242'       30"       0.30%       120       -         120       Type "J" Manhole       R.4342       810.52       30" RCP 802.90 (W) [119]       30" RCP 802.80 (SE) [121]       83'       30"       0.30%       120       -         121       Type "J" Manhole       R.1772       811.13       30" RCP 802.36 (SE) [121]       83'       30"       0.30%       122       -         122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.36 (SE) [123]       262'       30"       0.35%       123       -         123       Type "J" Manhole       R	15	Inlet Type "M"		R-3455-C	809.72	15" RCP 805.04 (W) [114]	24" RCP 804.94 (E) [116]	183'	24"	0.20%	116	-
118       Type "K" Manhole       R-1772       811.49       18" RCP 806.04 (W) [111] 24" RCP 807.24 (NW) [117]       30" RCP 803.94 (E) [119]       71'       30"       0.30%       119       -         119       Type "J" Manhole       R-4342       810.52       30" RCP 803.73 (W) [118]       30" RCP 803.63 (E) [120]       242'       30"       0.30%       120       -         120       Type "J" Manhole       R-1772       811.13       30" RCP 802.90 (W) [119]       30" RCP 802.80 (SE) [121]       83'       30"       0.30%       121       -         121       Type "J" Manhole       R-1772       811.13       30" RCP 802.55 (NW) [120]       30" RCP 802.45 (SE) [122]       25'       30"       0.30%       121       -         121       Type "J" Manhole       R-1772       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.45 (SE) [122]       25'       30"       0.35%       122       -         122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.45 (SE) [123]       262'       30"       0.35%       123       -         123       Type "J" Manhole       R-1772       807.59       30" RCP 801.45 (NW) [122]       30" RCP 801.45 (SE) [124]       406'       30" 0.35%       123       - </td <td>16 T</td> <td>Гуре "С" Manhole</td> <td></td> <td>R-3472</td> <td>810.20</td> <td>24" RCP 804.58 (W) [115]</td> <td>24" RCP 804.48 (NE) [118]</td> <td>67'</td> <td>24"</td> <td>0.20%</td> <td>118</td> <td>-</td>	16 T	Гуре "С" Manhole		R-3472	810.20	24" RCP 804.58 (W) [115]	24" RCP 804.48 (NE) [118]	67'	24"	0.20%	118	-
118       Type "K" Manhole       R-1772       811.49       24" RCP 804.34 (\$W) [116] 12" RCP 807.24 (NW) [117]       30" RCP 803.94 (E) [19]       71'       30"       0.30%       119       -         119       Type "J" Manhole       R-4342       810.52       30" RCP 803.73 (W) [118]       30" RCP 803.63 (E) [120]       242'       30"       0.30%       120       -         120       Type "J" Manhole       R-1772       811.13       30" RCP 802.90 (W) [119]       30" RCP 802.80 (SE) [121]       83'       30"       0.30%       121       -         121       Type "J" Manhole       R-1772       809.96       30" RCP 802.55 (NW) [120]       30" RCP 802.45 (SE) [122]       25'       30"       0.35%       122       -         122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.45 (NW) [121]       30" RCP 802.36 (SE) [123]       262'       30"       0.35%       123       -         123       Type "J" Manhole       R-1772       807.59       30" RCP 801.45 (NW) [122]       30" RCP 801.35 (S) [124]       400'       30"       0.35%       123       -         123       Type "J" Manhole       R-1772       807.59       30" RCP 801.45 (NW) [122]       30" RCP 801.35 (S) [124]       400'       30"       0.35%       124	17	Inlet Type "A"		R-4342	811.05		12" RCP 807.36 (SE) [118]	20'	12"	0.60%	118	-
120       Type "J" Manhole       R-1772       811.13       30" RCP 802.90 (W) [119]       30" RCP 802.80 (SE) [121]       83'       30"       0.30%       121       -         121       Type "J" Manhole       R-1772       809.96       30" RCP 802.55 (NW) [120]       30" RCP 802.45 (SE) [122]       25'       30"       0.35%       122       -         122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.36 (SE) [123]       262'       30"       0.35%       123       -         123       Type "J" Manhole       R-1772       807.59       30" RCP 801.45 (NW) [122]       -30" RCP 801.35 (S) [124]       400'       30"       0.35%       123       -	18 T	Гуре "К" Manhole		R-1772	811.49	24" RCP 804.34 (SW) [116]	30" RCP 803.94 (E) [119]	71'	30"	0.30%	119	-
121       Type "J" Manhole       R-1772       809.96       30" RCP 802.55 (NW) [120]       30" RCP 802.45 (SE) [122]       25'       30"       0.35%       122       -         122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.36 (SE) [123]       262'       30"       0.35%       123       -         123       Type "J" Manhole       R-1772       807.59       30" RCP 801.45 (NW) [122]       -30" RCP 801.35 (S) [124]       400'       30"       0.35%       124       -	19 T	Гуре "J" Manhole		R-4342	810.52	30" RCP 803.73 (W) [118]	30" RCP 803.63 (E) [120]	242'	30"	0.30%	120	-
122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.36 (SE) [123]       262'       30"       0.35%       123       -         123       Type "J" Manhole       R-1772       807.59       30" RCP 801.45 (NW) [122]       -30" RCP 801.35 (S) [124]       400'       30"       0.35%       124       -	120 T	Гуре "J" Manhole		R-1772	811.13	30" RCP 802.90 (W) [119]	30" RCP 802.80 (SE) [121]	83'	30"	0.30%	121	-
122       Aqua Swirl XC-11       PER MAN.       809.95       30" RCP 802.36 (NW) [121]       30" RCP 802.36 (SE) [123]       262'       30"       0.35%       123       -         123       Type "J" Manhole       R-1772       807.59       30" RCP 801.45 (NW) [122]       -30" RCP 801.35 (S) [124]       400'       30"       0.35%       124       -		Type "J" Manhole		R-1772	809.96	30" RCP 802.55 (NW) [120]	30" RCP 802.45 (SE) [122]	25'	30"	0.35%	122	-
	122 A	Aqua Swirl XC-11		PER MAN.	809.95	30" RCP 802.36 (NW) [121]	30" RCP 802.36 (SE) [123]	262'	30"	0.35%	123	-
	123 T	Type "J" Manhole		R-1772	807.59	30" RCP 801.45 (NW) [122]	- 30" RCP 801.35 (S) [124]	400'	30"	0.35%	124	-
-124 Type "J" Manhole R 1772 805.60 30" RCP 799.95 (N) [123] 30" RCP 799.85 (SE) [125] 88' 30" 0.35% 125 NOT IN CON	124 T	Type "J" Manhole		R 1772	805.60	30" RCP 799.95 (N) [123]	30" RCP 799.85 (SE) [125]	88'	30"	0.35%	125	NOT IN CONTRACT

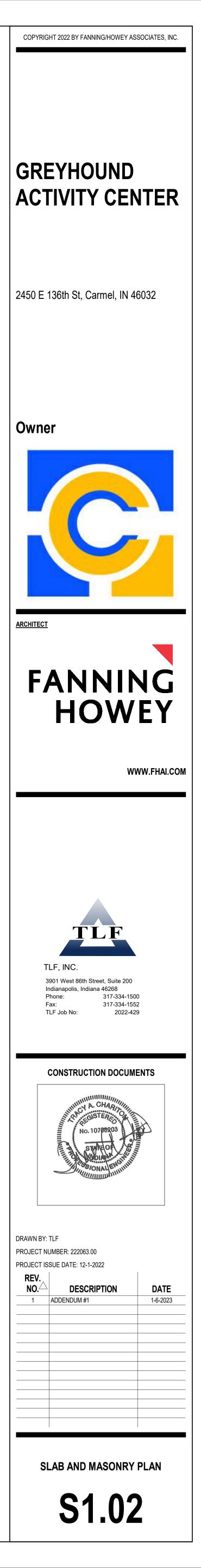


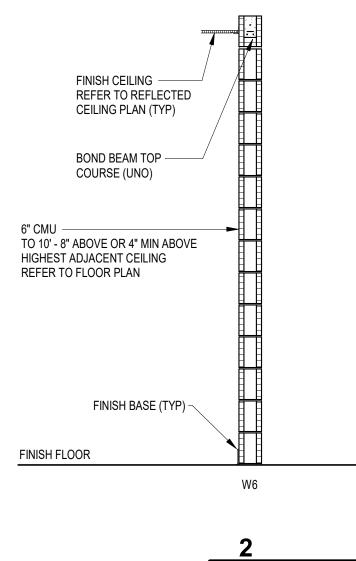


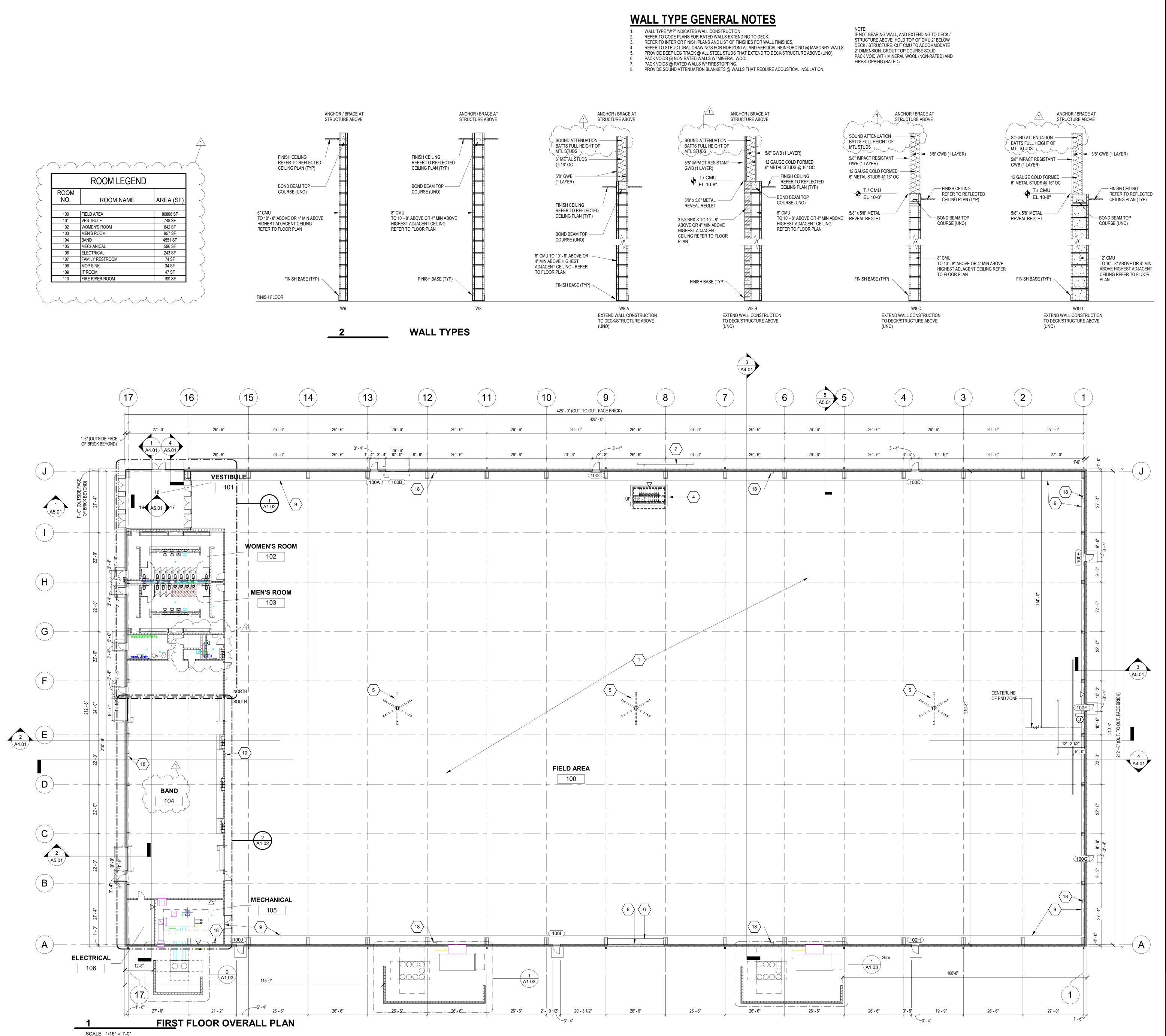


PANEL XX \_\_\_/

INDICATES MASONRY WALL SUPPORTED ON FOOTING. ALL PANELS TO BE P1 UNLESS OTHERWISE NOTED. SEE S4.01 FOR MASONRY WALL PANEL SCHEDULE.







HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL. AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A1.03. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS. UNLESS NOTED OTHERWISE. EXTERIOR METAL STUD WALLS ARE DIMENSIONED TO INSIDE FACE OF METAL STUDS. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES. REFER TO ROOM FINISH SCHEDULE AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.

ARCHITECTURAL PLAN GENERAL NOTES

ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO

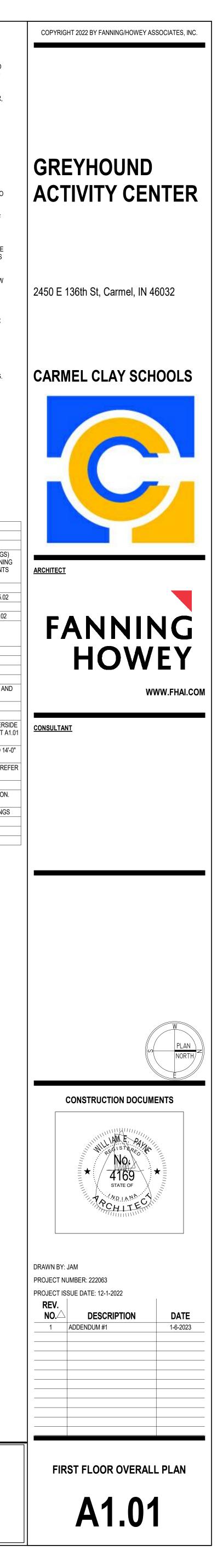
- REFER TO MASTER / CODE PLANS FOR CODE INFORMATION, FIRE RATED WALLS, AND NON-RATED
- WALLS EXTENDING TO THE DECK ABOVE. R.B.B. - INDICATES RESILIENT BASKETBALL FLOORING. REFER TO PROJECT MANUAL
- SF INDICATES ALUMINUM STOREFRONT SYSTEM. REFER TO A6.01 R.A.F. - INDICATES RESILIENT ATHLETIC FLOORING REFER TO PROJECT MANUAL.

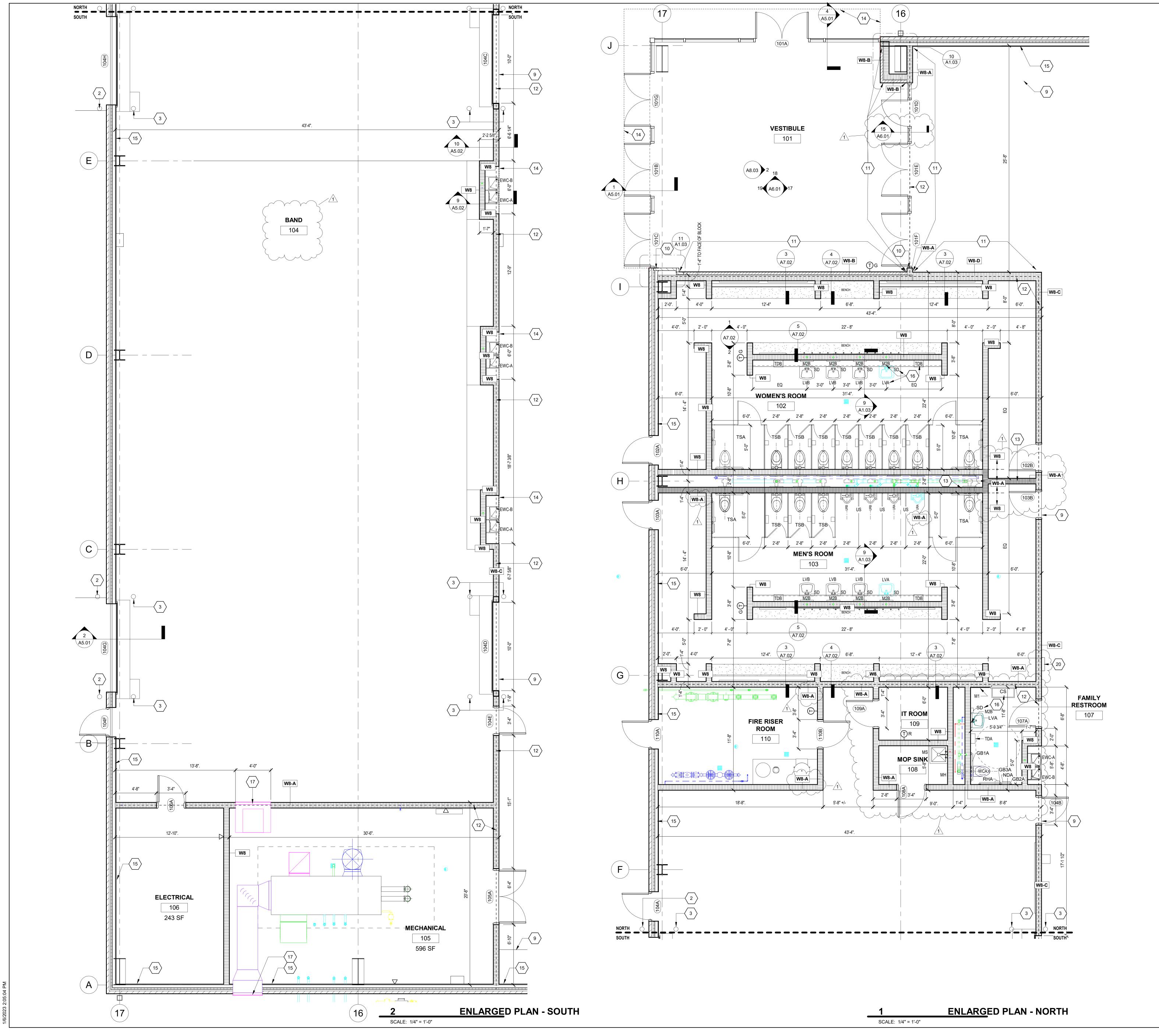
	ARCHITECTURAL PLAN NOTES
#	NOTE
1	SYNTHETIC GRASS PLAYING SURFACE SYSTEM (SGS) WITH RUBBER / SAND MIX OVER 7" MIN FREE DRAINING AGGREGATE. REFER TO FLOOR PLANS FOR EXTENTS AND 2-A8.01
2	
2	STEEL PIPE BOLLARD (EXTERIOR) - REFER TO 7-A5.02
3	
3	STEEL PIPE BOLLARD (INTERIOR) - REFER TO 8-A5.02
1	CONCRETE PAD FOR BAND TOWER. REFER TO STRUCTURAL DRAWINGS FOR DETAILS, SIZE AND LOCATION
5	CEILING FAN. REFER TO MECHANICAL DRAWINGS.
3	INTERIOR SCOREBOARD.
7	EXTERIOR SCOREBOARD
3	TIME CLOCK
)	SGS / CONCRETE EDGE. REFER TO DETAIL 2-A8.02 AND STRUCTURAL DETAILS
10	ALIGN MASONRY OPENING
11	PROVIDE LEVEL 5 FINISH ON ALL GWB SURFACES
12	DASHED LINE INDICATES WALL EXTENDS TO UNDERSIDE OF ROOF DECK. REFER TO WALL TYPES ON SHEET A1.01 FOR DETAILS
13	SHADING REPRESENTS CMU WALL EXTENDING TO 14'-0" AFF
14	LINE OF WALL OR SUN CONTROL SYSTEM ABOVE. REFER TO WALL SECTIONS FOR DETAILS
15	METAL LINER PANEL
16	LABELS INDICATE TOILET ACCESSORY INFORMATION. REFER TO SHEET A1.03 FOR DETAILS
17	LOUVER / GRILLE. REFER TO MECHANICAL DRAWINGS
18	FEC - SURFACE MOUNT
19	FEC - SEMI RECESSED
20	AED - SEMI RECESSED

VERIFICATION NOTE

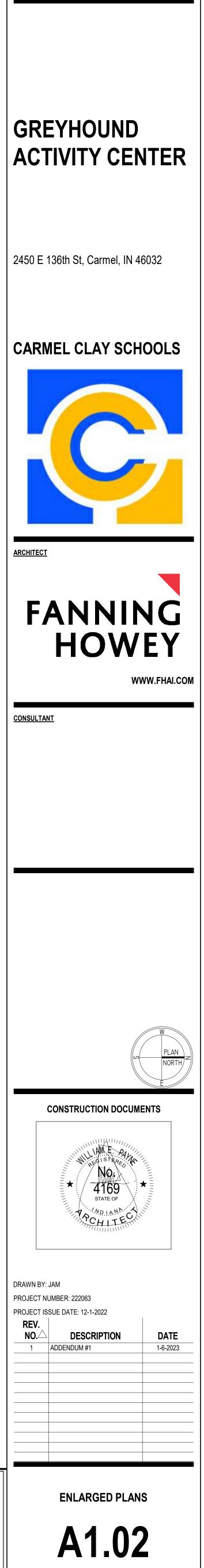
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CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH

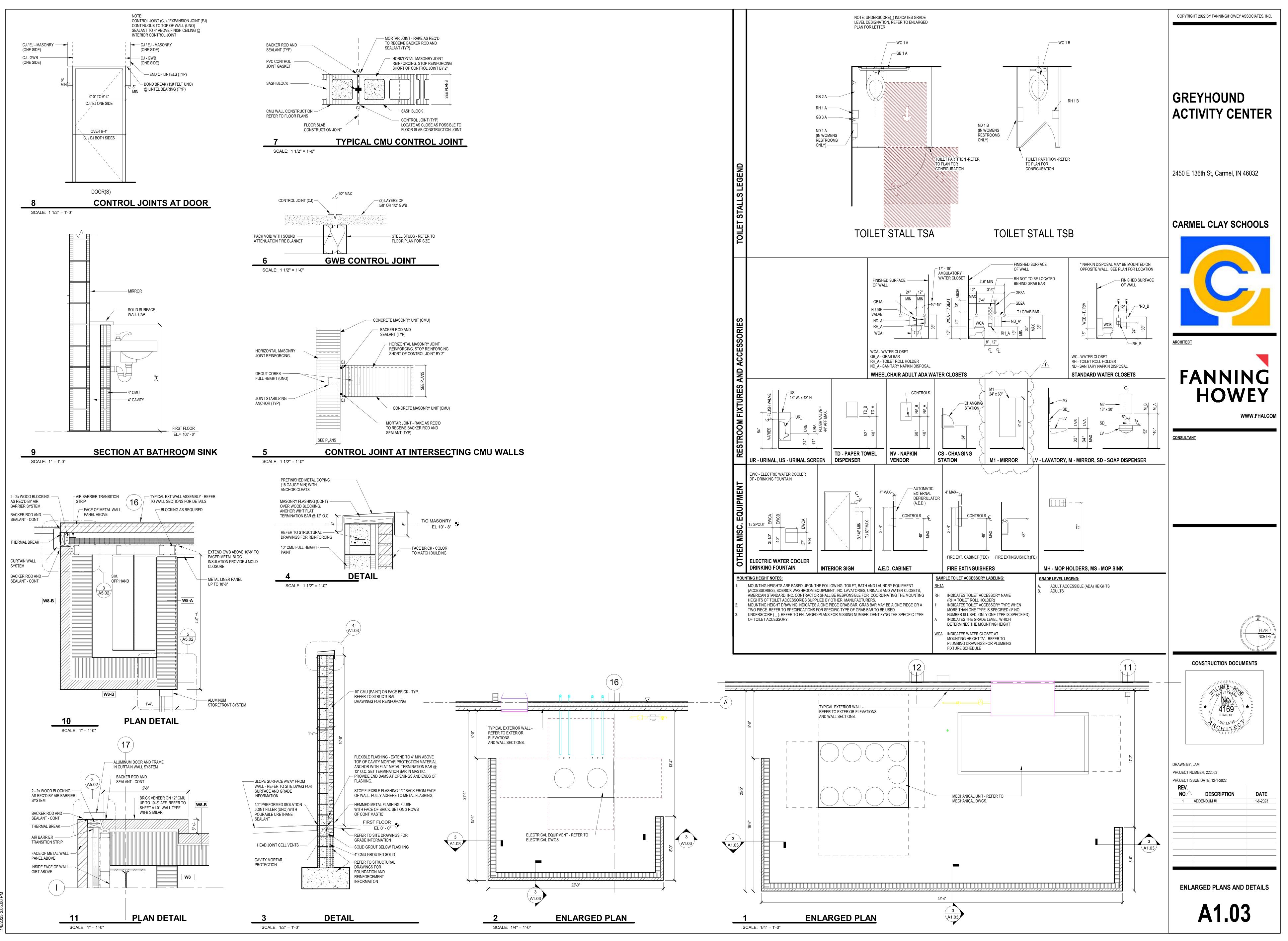


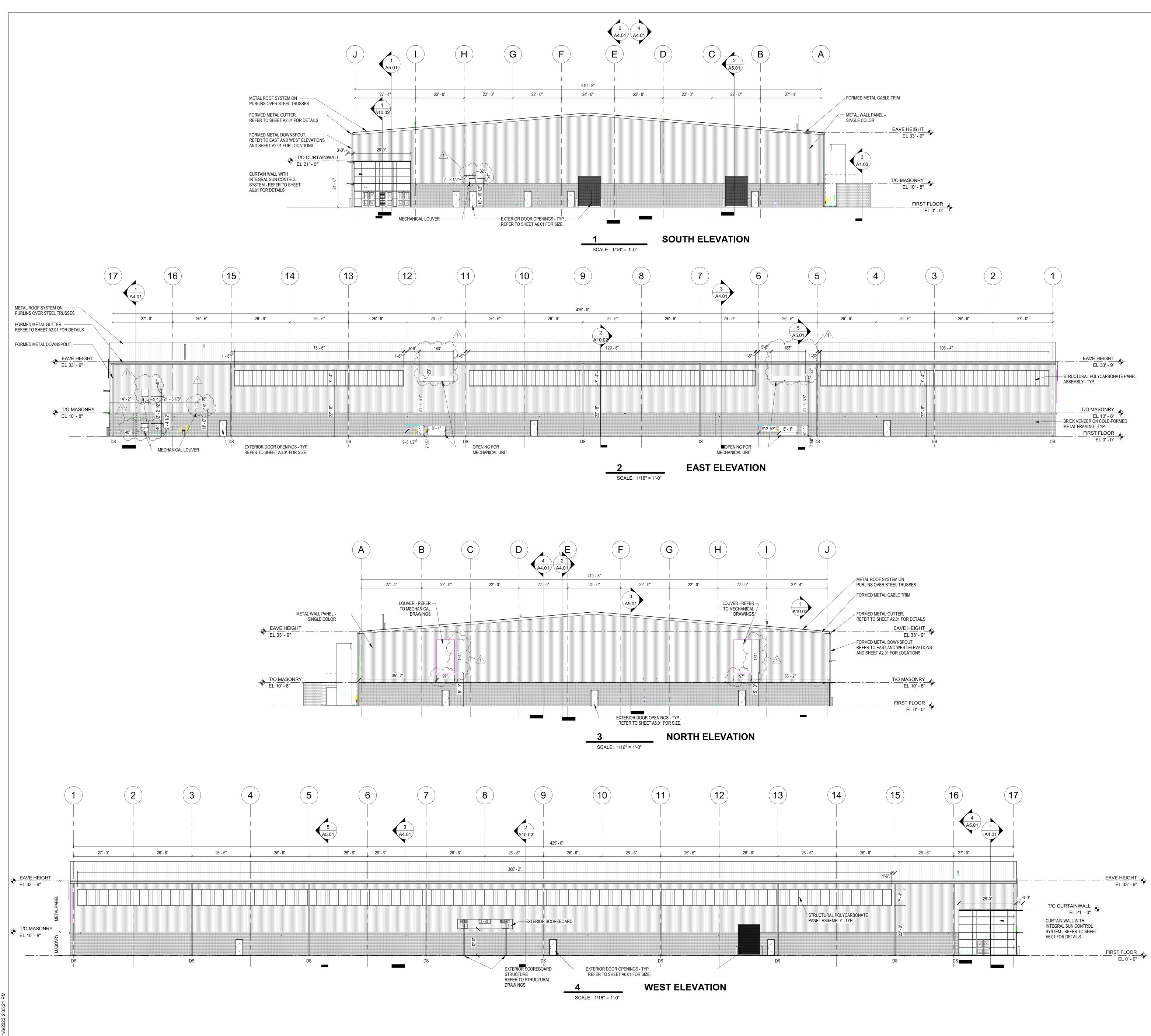


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5 6 7	CEILING FAN. REFER TO MECHANICAL DRAWINGS. INTERIOR SCOREBOARD. EXTERIOR SCOREBOARD
7 8 9	TIME CLOCK SGS / CONCRETE EDGE. REFER TO DETAIL 2-A8.02 AN
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VERIFICATION NOTE

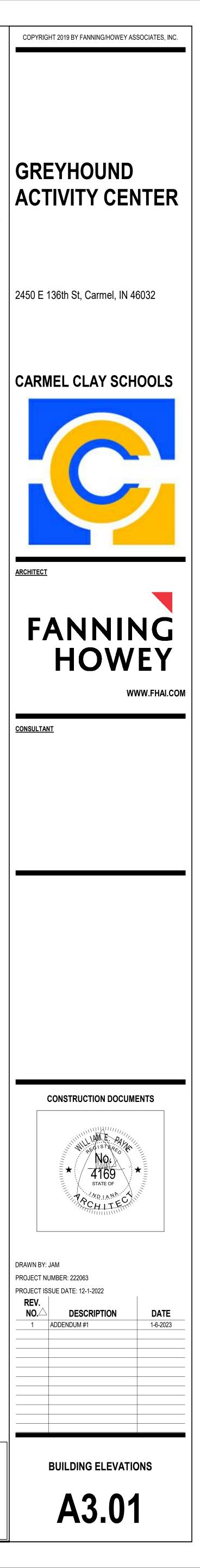
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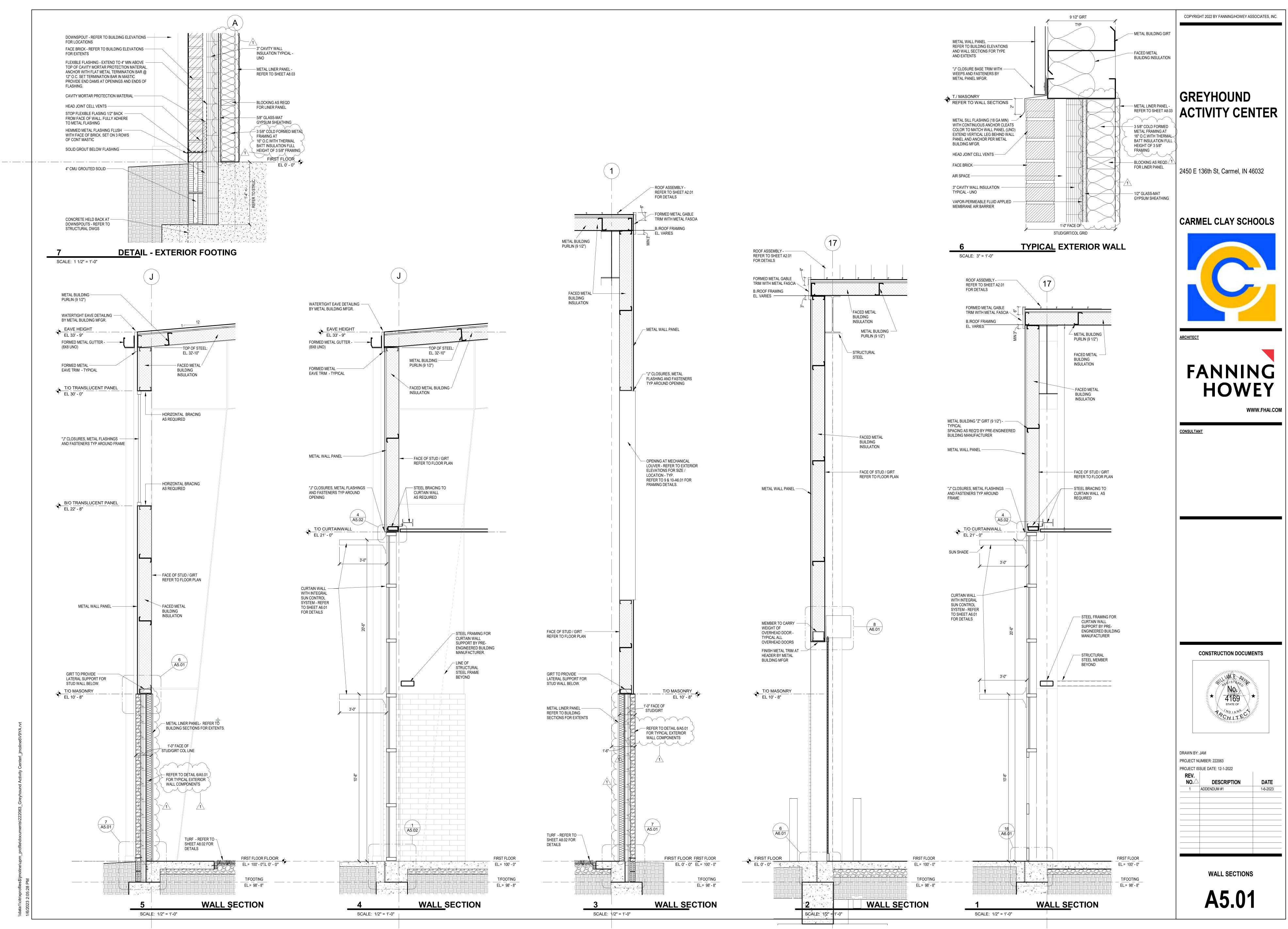
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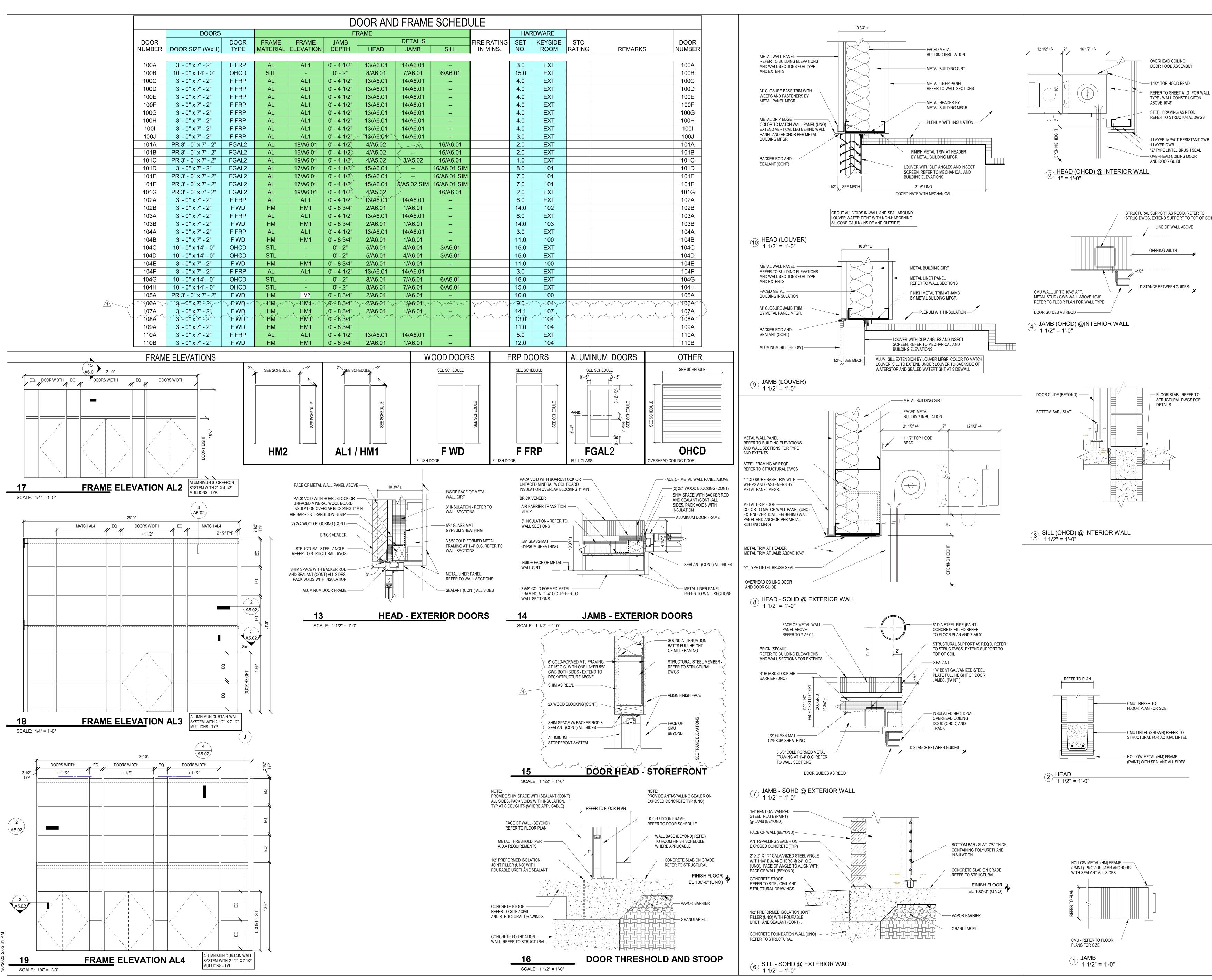
ELEVATION GENERAL NOTES

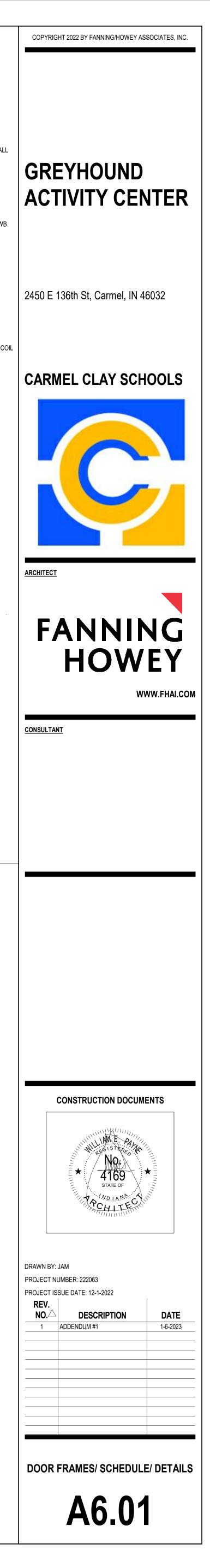
- REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS TUPOLICUL EXTERIOR ENVILL OT USE
- THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

BUILDING ELEVATION NOTES (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET) DS DOWNSPOUT

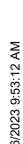


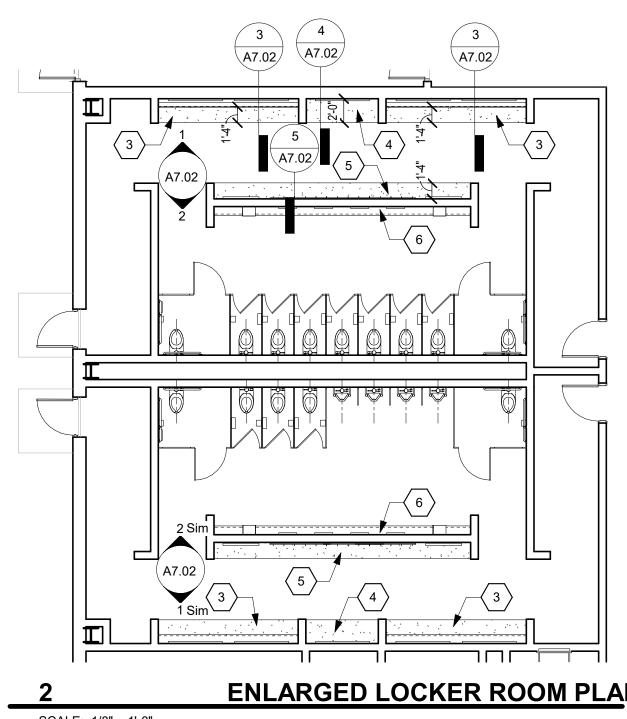


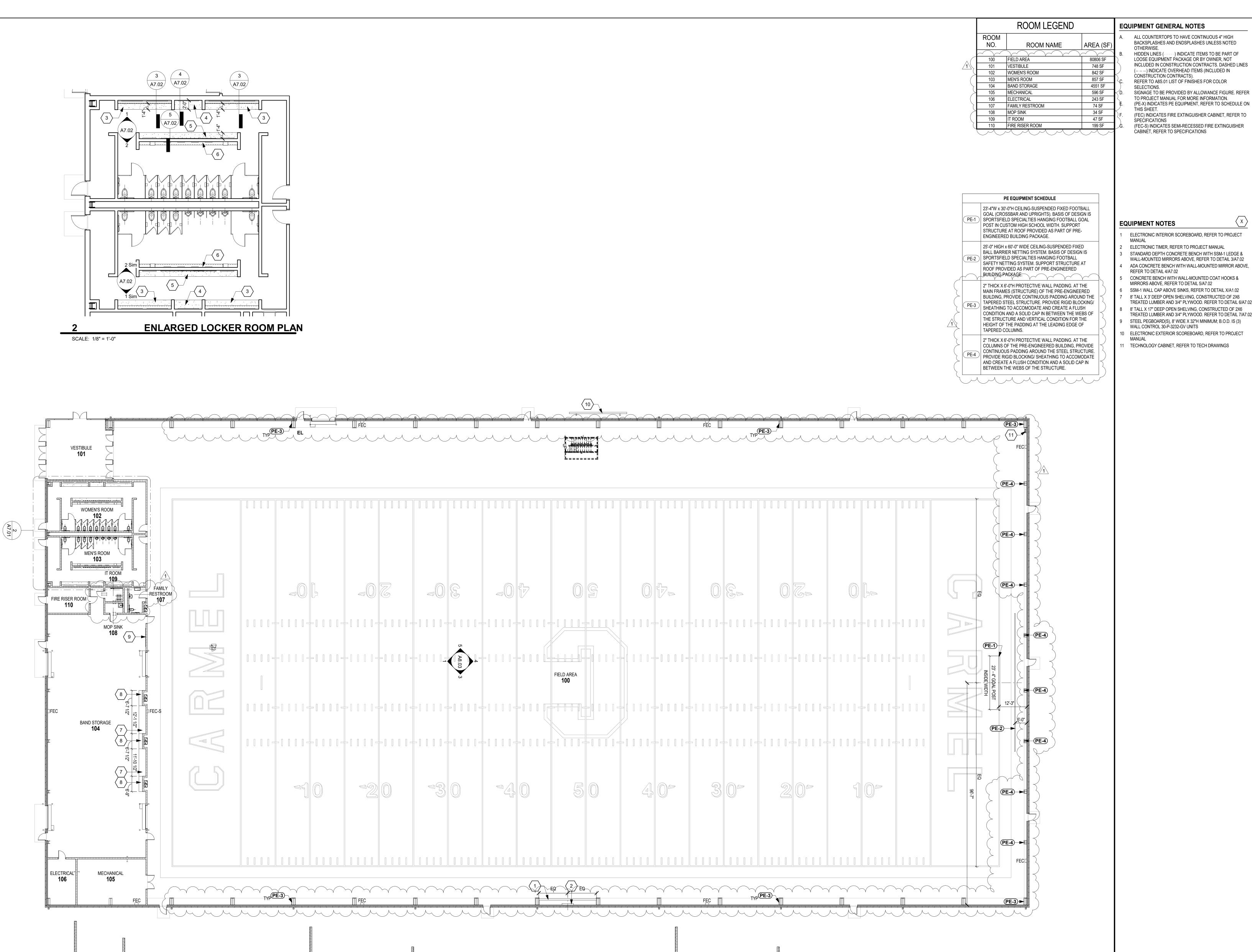










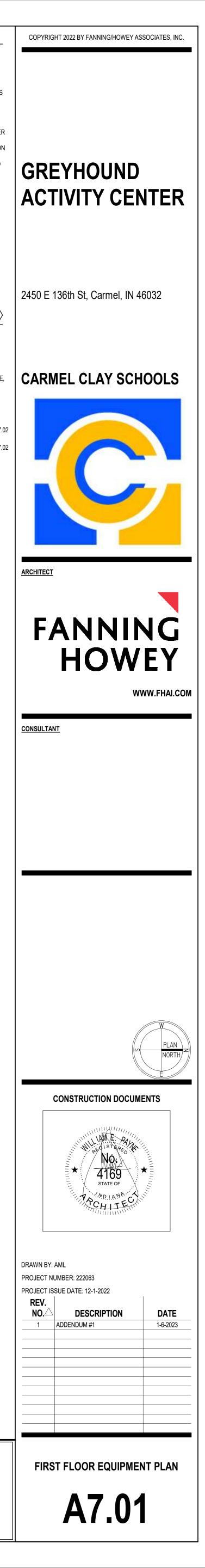


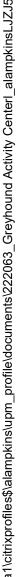
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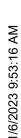
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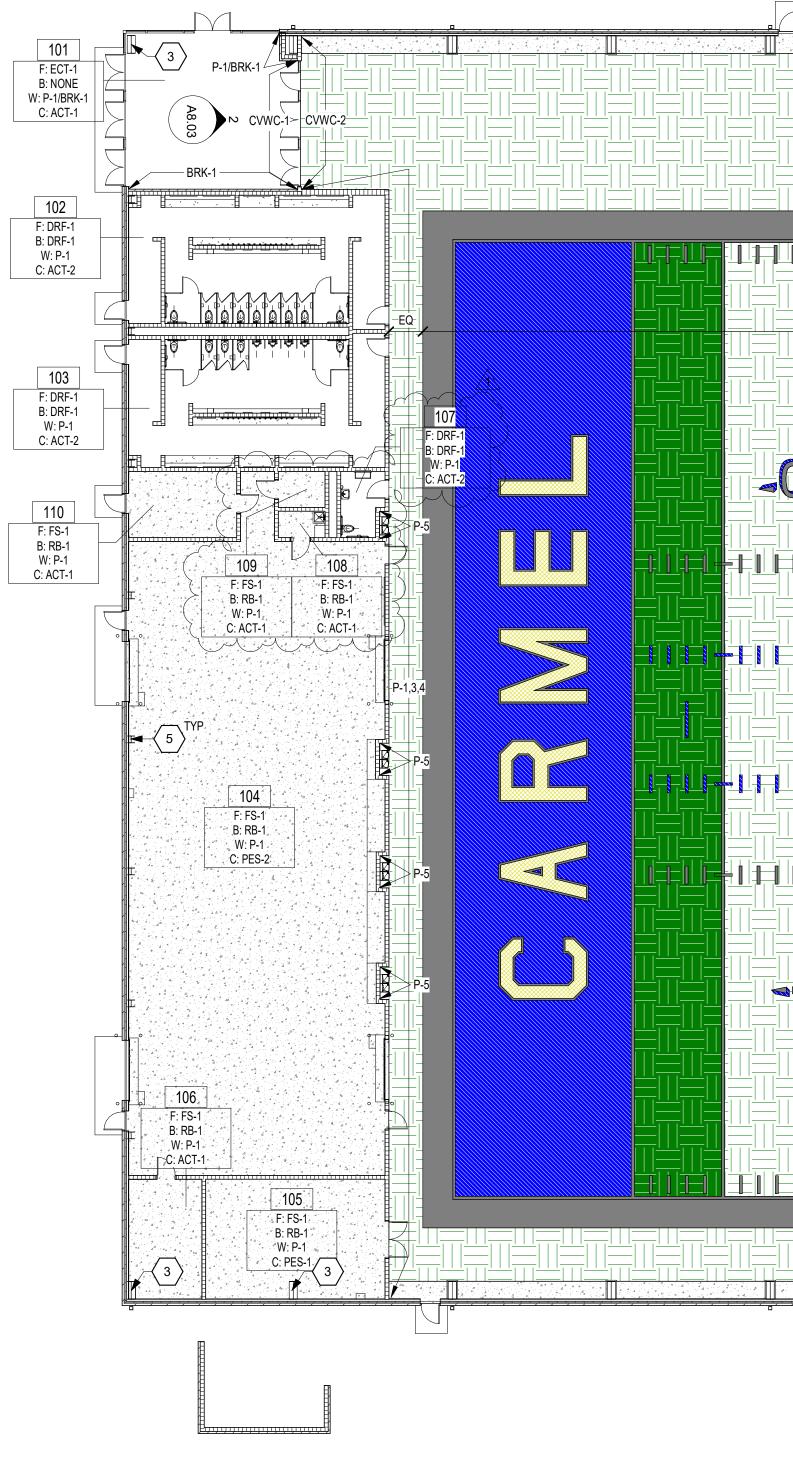
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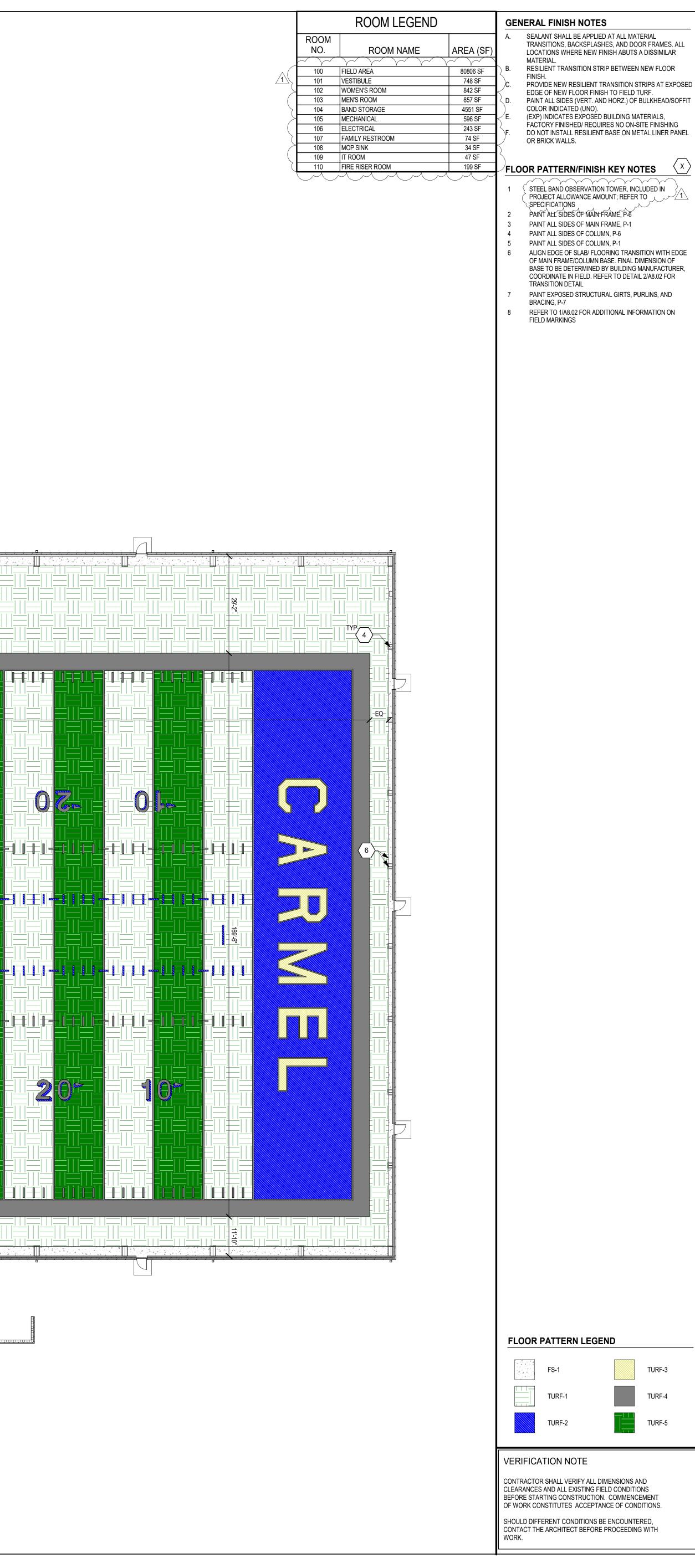


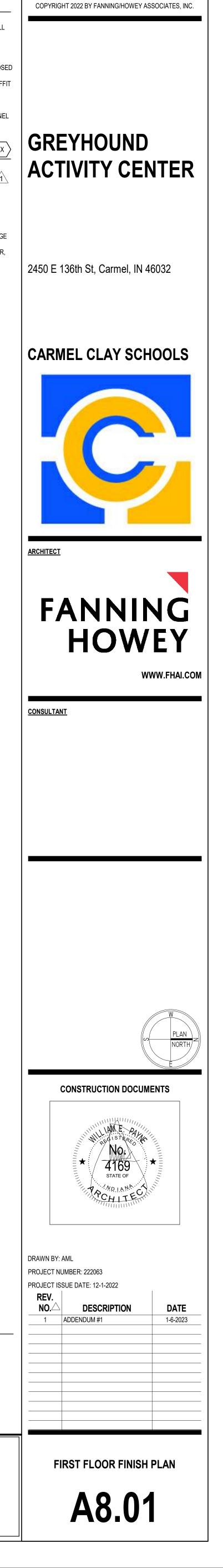


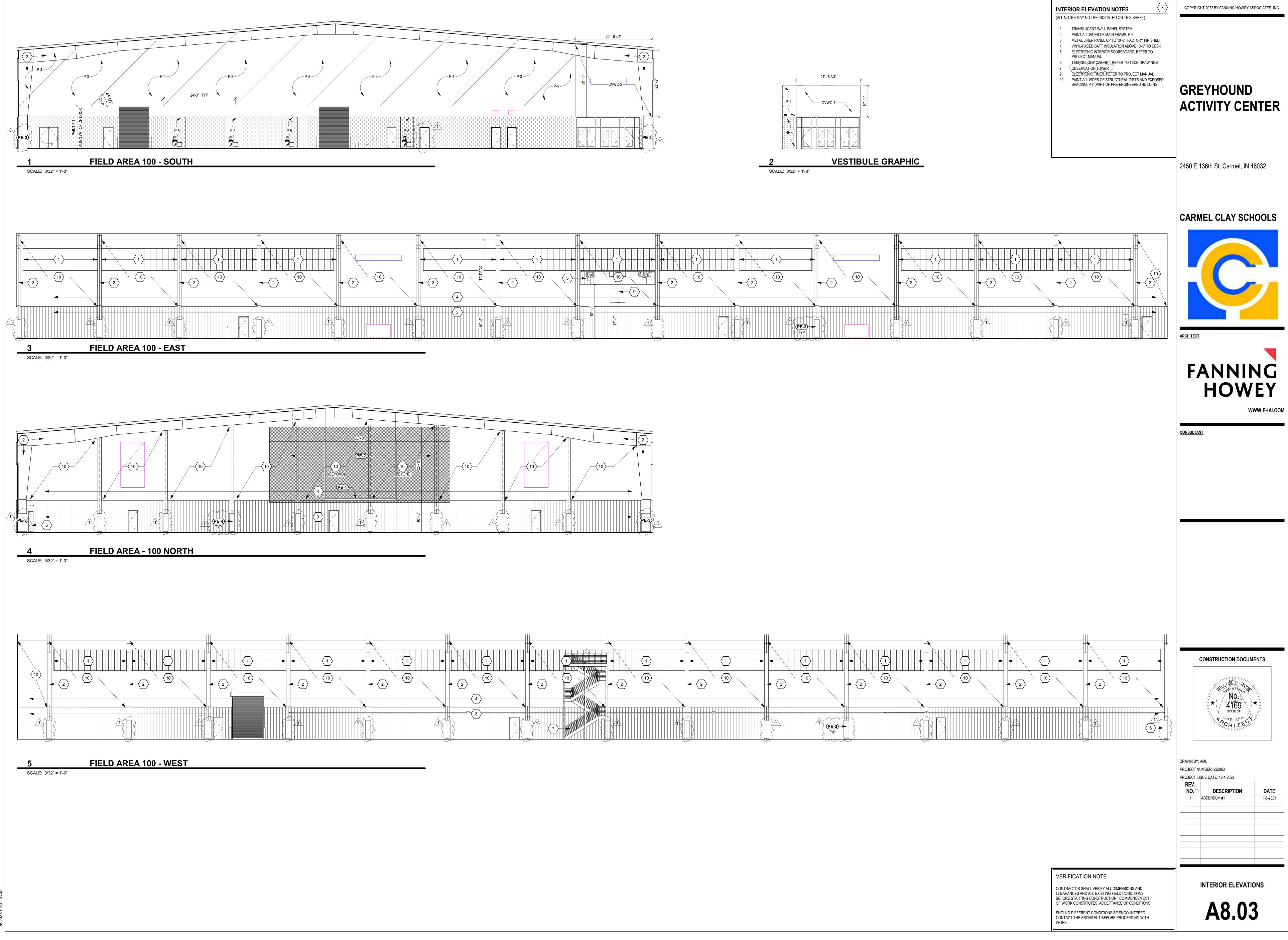




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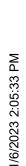


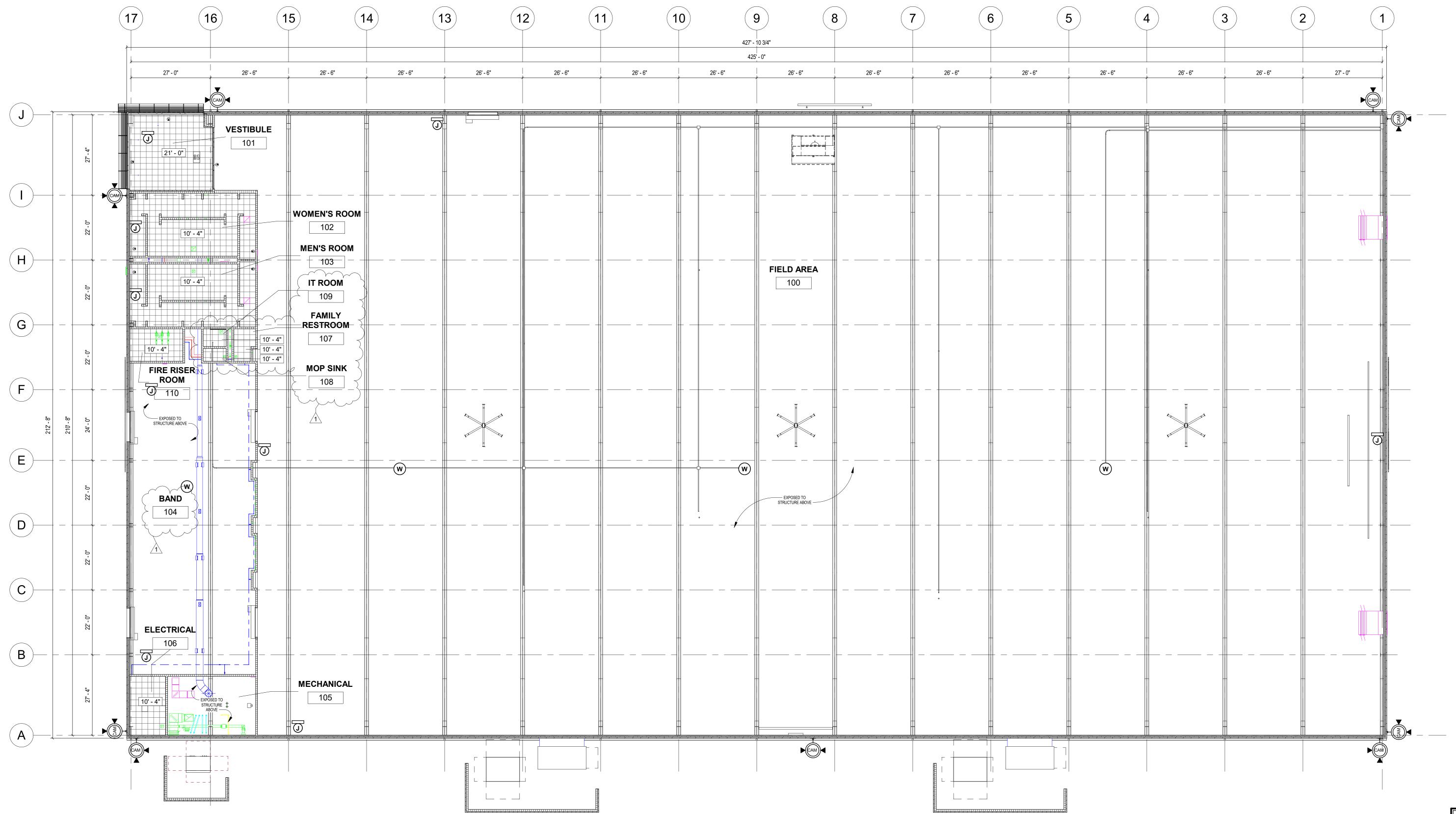


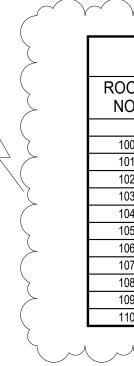












REFLECTED CEILING PLAN NOTES (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

### REFLECTED CEILING GENERAL NOTES

- BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK
   COORDINATE WITH PE EQUIPMENT MFGRS. FOR SUPPLEMENTAL FRAMING AND SUPPORT LOCATIONS WITH STRUCTURAL ROOF FRAMING OF PRE-ENGINEERED METAL BUILDING
   COORDINATE LOADING REQUIREMENTS FOR ALL ROOF STRUCTURE SUPPORTED COMPONENTS WITH STRUCTURAL ROOF FRAMING OF PRE-ENGINEERED METAL BUILDING

### REFLECTED CEILING PLAN LEGEND

• 10'-4"	INDICATES ELEVATION HEIGHT
9'-0"	INDICATES CEILING HEIGHT
	LIGHT - REFER TO ELECTRICAL DRAWINGS
	LIGHT - REFER TO ELECTRICAL DRAWINGS
$\otimes$ $\bigcirc$	LIGHT - REFER TO ELECTRICAL DRAWINGS
	MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
	MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
	CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
	MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
	RECESSED CEILING SPEAKER
$M \rightarrow$	MOTION DETECTOR

CEILING MOUNTED EXIT LIGHT

 $\bigotimes$ 

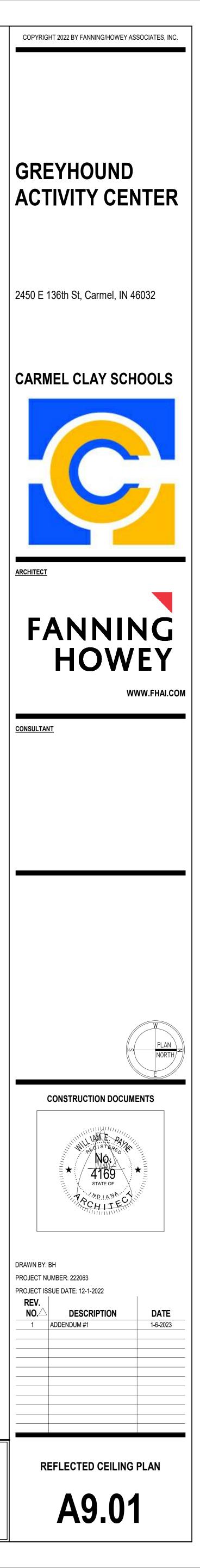
CAM	CEILING MOUNTED CAMERA
W	WIRELESS ACCESS POINT (WAP)
CJ	CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
S	SOUND REINFORCEMENT SPEAKER
$(\mathbf{H})$	FIRE ALARM HEAT DETECTOR
F	FIRE ALARM HORN STROBE
\ <b>S</b> ₹	FIRE ALARM SPEAKER STROBE
\v\ Z	FIRE ALARM STROBE
P	FIRE ALARM SMOKE DETECTOR
	ACOUSTICAL CEILING TILE (ACT)
	ACOUSTICAL CEILING TILE (ACT)
	GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.) EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
	INTERIOR FINISH SYSTEM (I.F.S.)

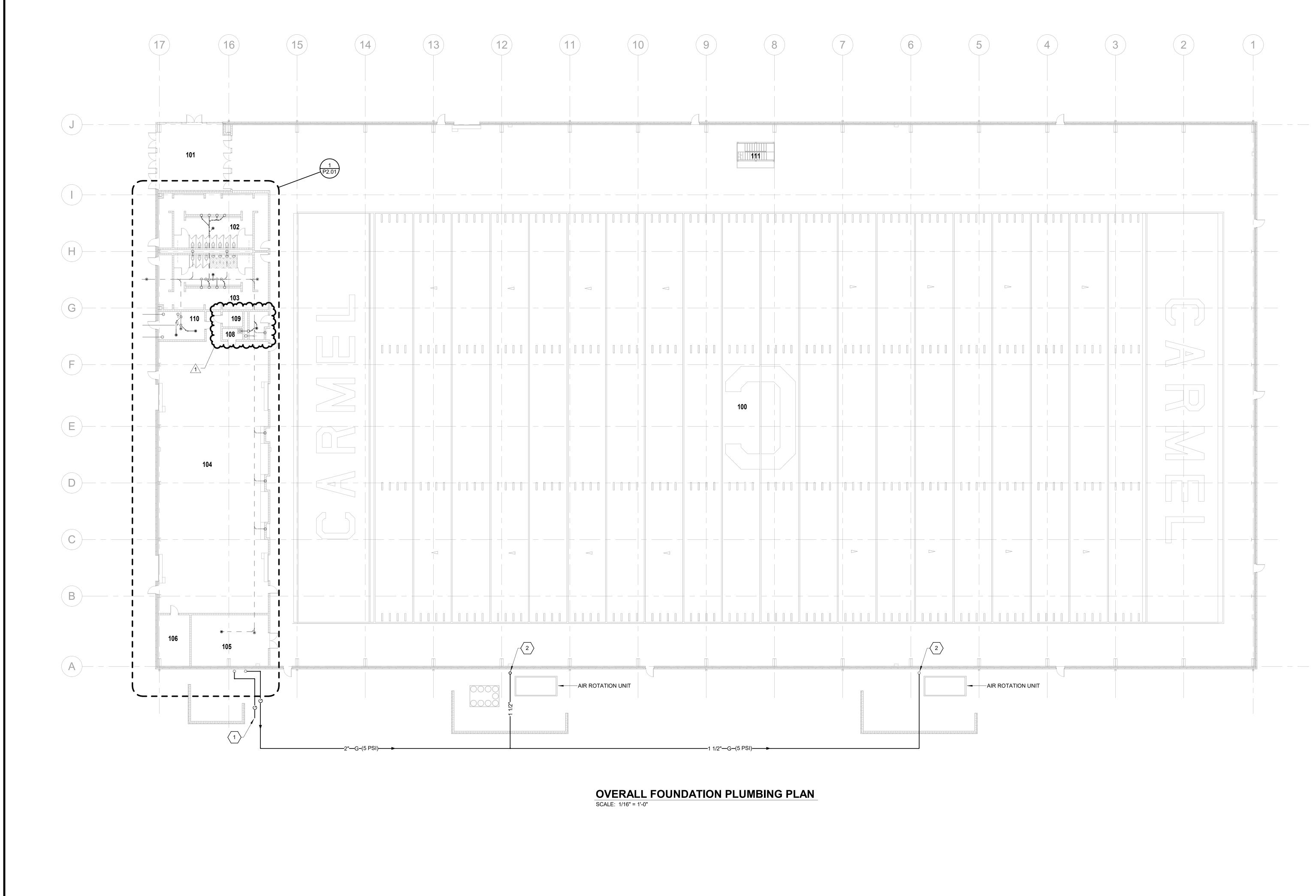
	ROOM LEGEND	
ROOM NO.	ROOM NAME	AREA (SF)
100	FIELD AREA	80806 SF
101	VESTIBULE	748 SF
102	WOMEN'S ROOM	842 SF
103	MEN'S ROOM	857 SF
104	BAND	4551 SF
105	MECHANICAL	596 SF
106	ELECTRICAL	243 SF
107	FAMILY RESTROOM	74 SF
108	MOP SINK	34 SF
109	IT ROOM	47 SF
110	FIRE RISER ROOM	199 SF

VERIFICATION NOTE

WORK.

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





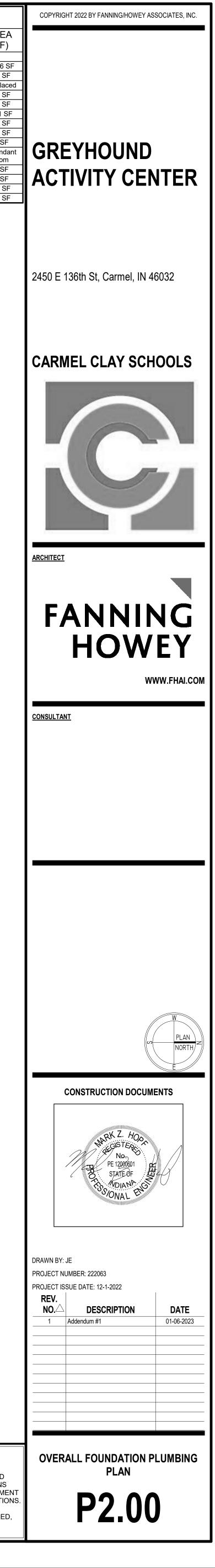
R	DOM LEGEND - FIRST F	LOOR
ROOM NO.	ROOM NAME	ARE (SF
	•	•
100	FIELD AREA	80806
101	VESTIBULE	748
102	ENTRY	Not Pla
102	WOMEN'S ROOM	842
103	MEN'S ROOM	857
104	BAND STORAGE	4551
105	MECHANICAL	596
106	ELECTRICAL	243
107	FAMILY RESTROOM	74 S
108	MOP SINK	Redun Roo
108	MOP SINK	34 S
109	IT ROOM	47 S
110	FIRE RISER ROOM	199
111	TOWER	110

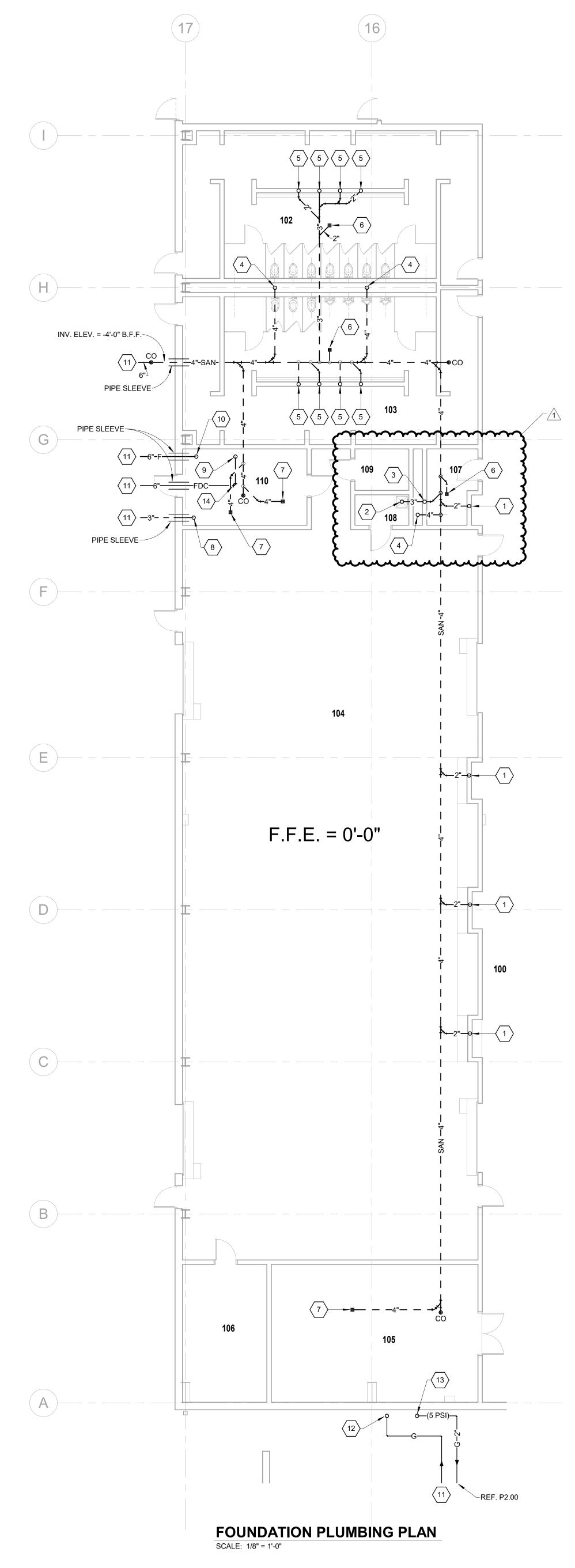
### PLUMBING PLAN NOTES

REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.

2 1 1/2" GAS (5 PSI) UP.

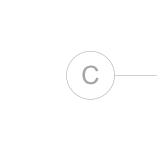
CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.















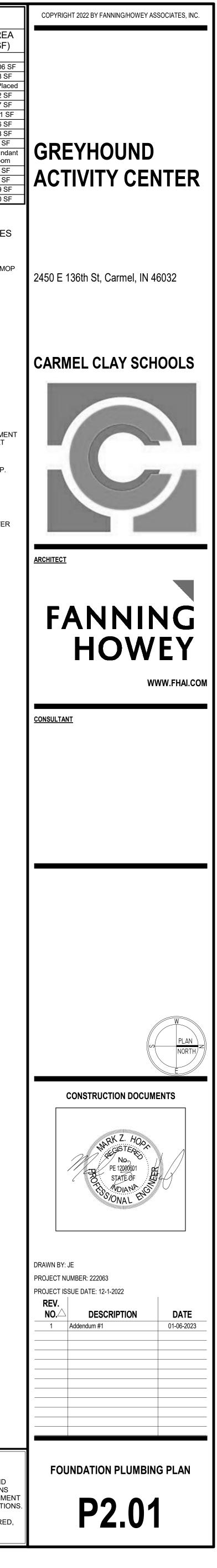
ROOM LEGEND - FIRST FLC								
	AR							
ROOM NAME	(SF							
•	ļ							
FIELD AREA	80806							
VESTIBULE	748							
ENTRY	Not Pla							
WOMEN'S ROOM	842							
MEN'S ROOM	857							
BAND STORAGE	4551							
MECHANICAL	596							
ELECTRICAL	243							
FAMILY RESTROOM	74 \$							
MOP SINK	Redun Roc							
MOP SINK	34 \$							
IT ROOM	47 \$							
FIRE RISER ROOM	199							
TOWER	110							
	ROOM NAMEFIELD AREAVESTIBULEENTRYWOMEN'S ROOMMEN'S ROOMBAND STORAGEMECHANICALELECTRICALFAMILY RESTROOMMOP SINKMOP SINKIT ROOMFIRE RISER ROOM							

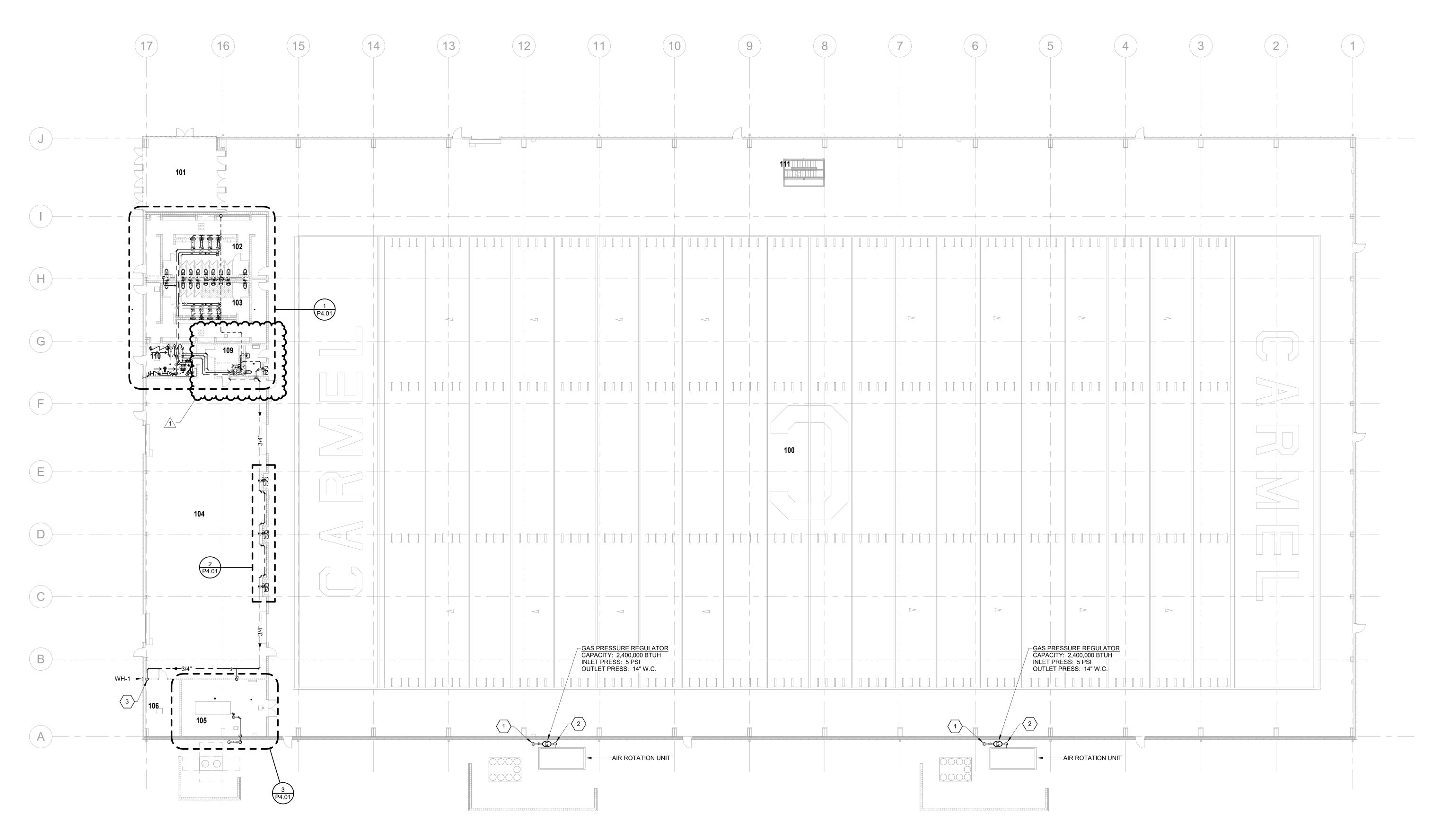
FOUNDATION PLUMBING PLAN NOTES

- 1 2" WASTE FROM ABOVE. 2 3" WASTE WITH DEEP SEAL P-TRAP FROM MOP BASIN ABOVE.
- 3 1 1/2" VENT UP.
- 4 4" WASTE FROM ABOVE.
- 5 3" WASTE FROM ABOVE.
- 6 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
- 7 4" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
- 8 INCOMING 3" DOMESTIC COLD WATER UP. PROVIDE THRUST BLOCK AT PIPE RISE.
- 9 6" FIRE LINE FROM REMOTE FIRE DEPARTMENT CONNECTION. PROVIDE THRUST BLOCK AT PIPE RISE.
- 10 INCOMING 6" FIRE PROTECTION SUPPLY UP. PROVIDE THRUST BLOCK AT PIPE RISE.
- 11 REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
- 12 2" INCOMING GAS SUPPLY UP TO GAS METER ASSEMBLY.
- 13 2" GAS (5 PSI) FROM ABOVE.
- 14 PROVIDE THRUST BLOCK AT PIPE ELBOW.

VERIFICATION NOTE

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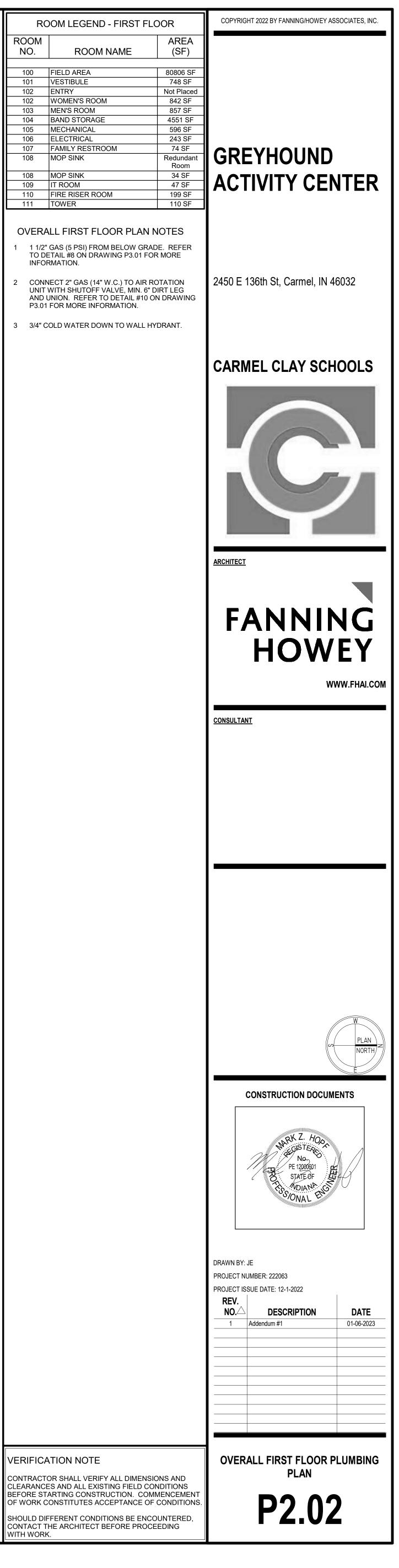


RC	DOM LEGEND - FIRST F	LOOR
ROOM NO.	ROOM NAME	AR (S
100	FIELD AREA	8080
101	VESTIBULE	748
102	ENTRY	Not P
102	WOMEN'S ROOM	842
103	MEN'S ROOM	857
104	BAND STORAGE	455
105	MECHANICAL	596
106	ELECTRICAL	243
107	FAMILY RESTROOM	74
108	MOP SINK	Redu Ro
108	MOP SINK	34
109	IT ROOM	47
110	FIRE RISER ROOM	199
111	TOWER	110

OVERALL FIRST FLOOR PLAN NOTES 1 1/2" GAS (5 PSI) FROM BELOW GRADE. REFER TO DETAIL #8 ON DRAWING P3.01 FOR MORE INFORMATION.

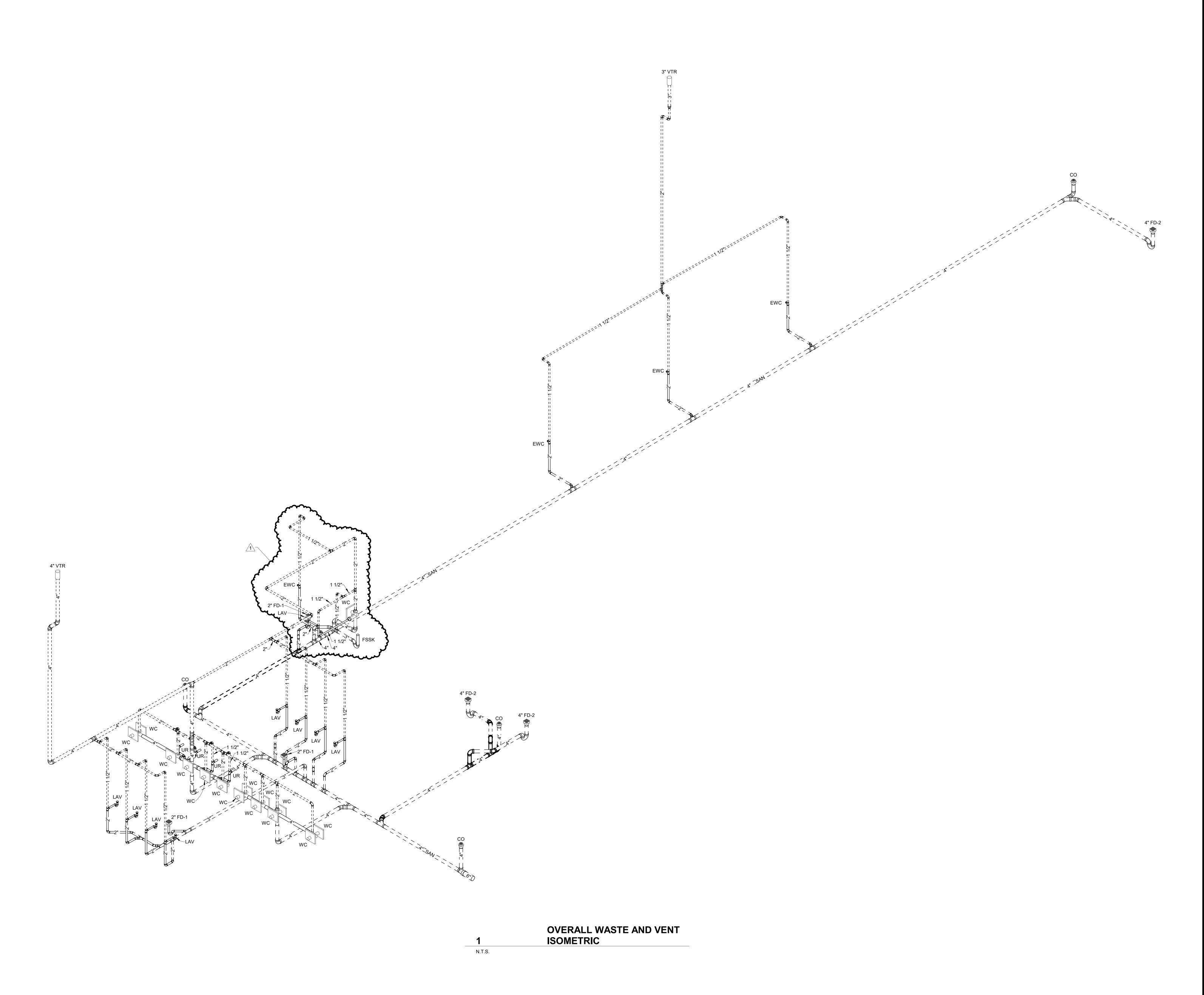
CONNECT 2" GAS (14" W.C.) TO AIR ROTATION UNIT WITH SHUTOFF VALVE, MIN. 6" DIRT LEG AND UNION. REFER TO DETAIL #10 ON DRAWING P3.01 FOR MORE INFORMATION.

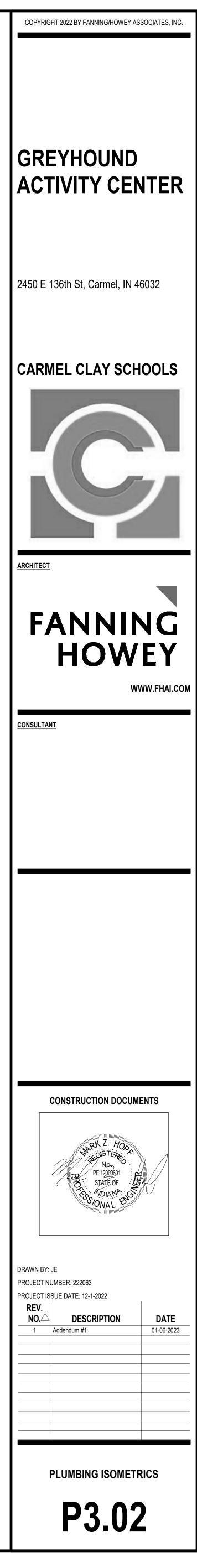
3 3/4" COLD WATER DOWN TO WALL HYDRANT.

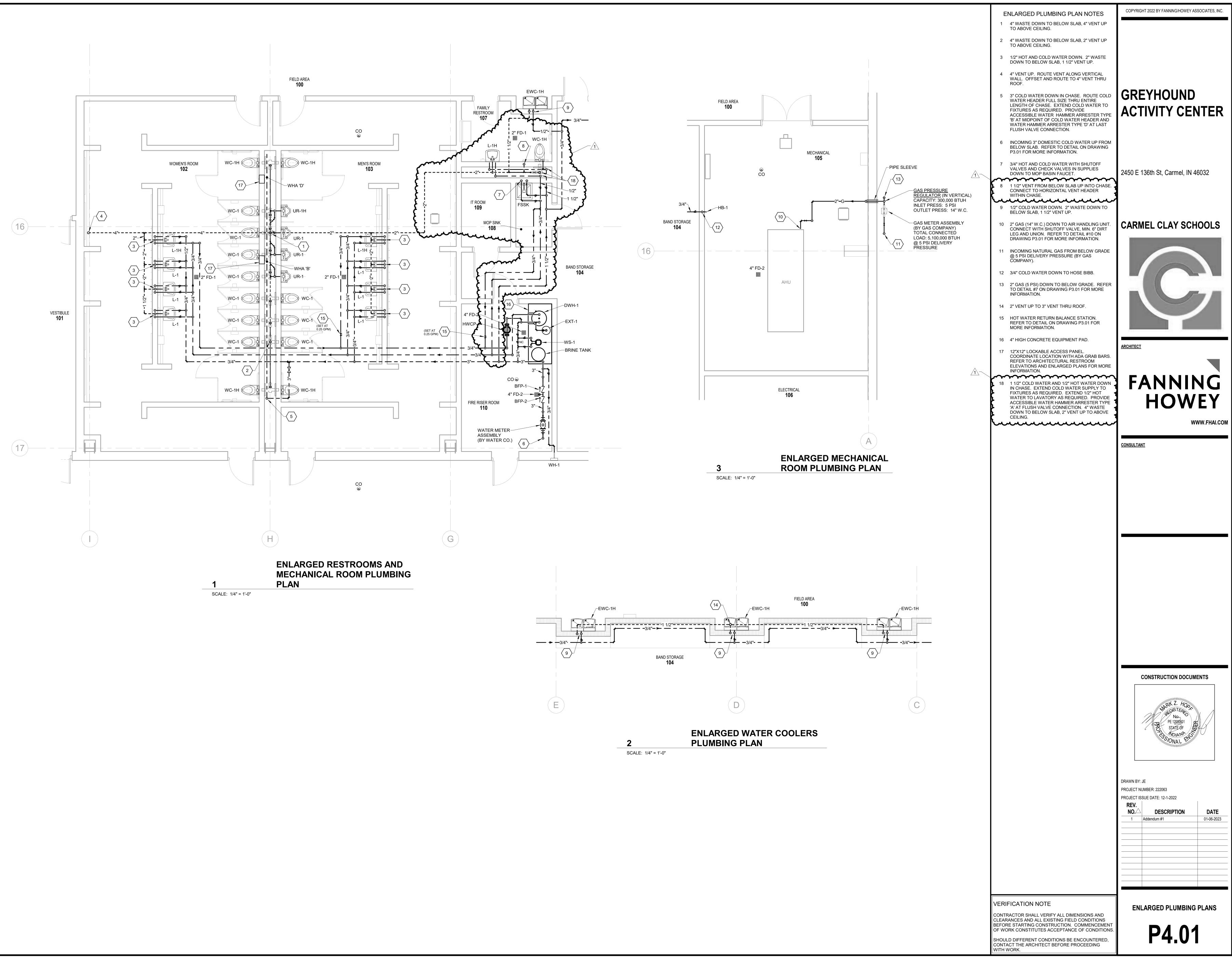


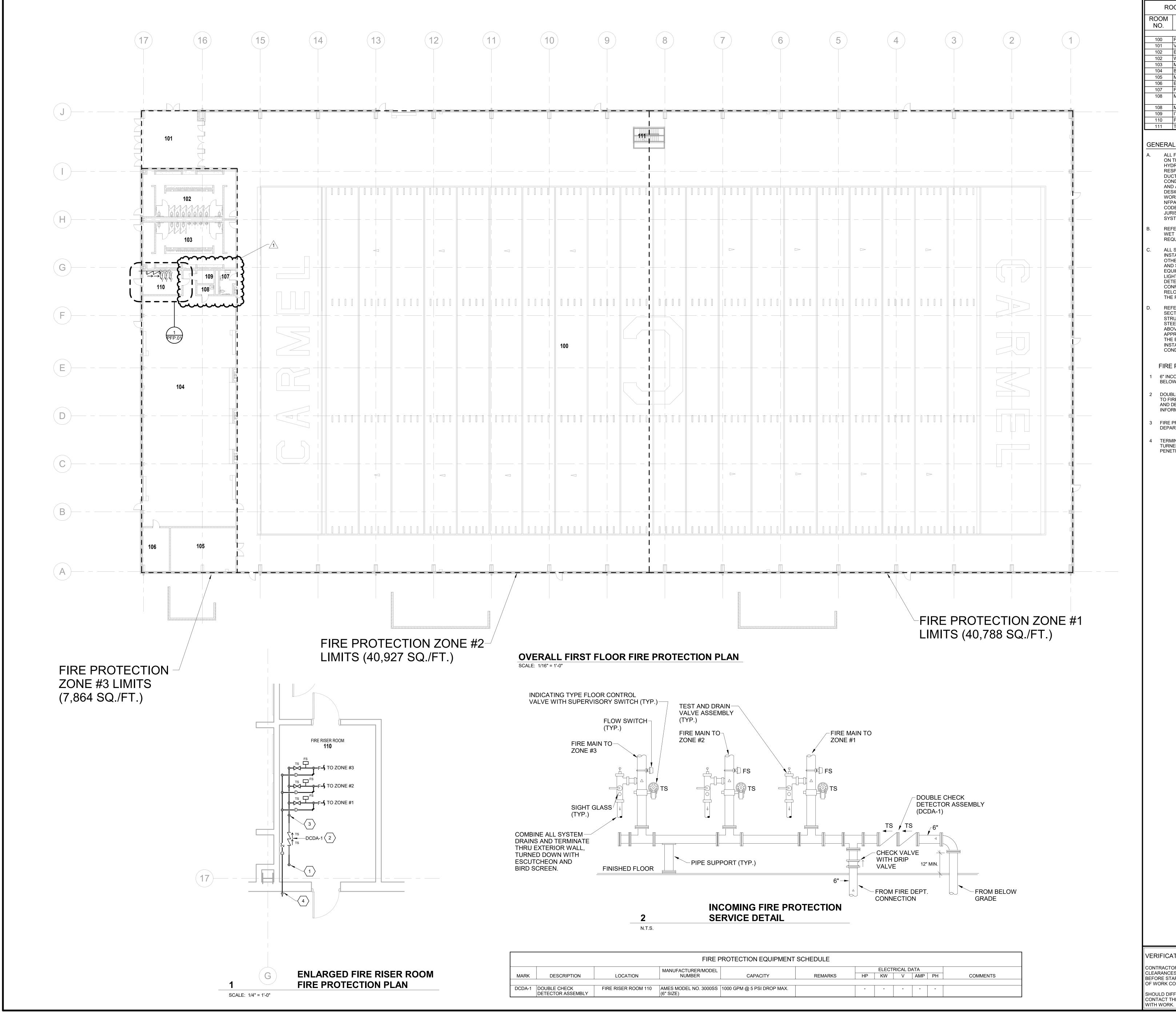
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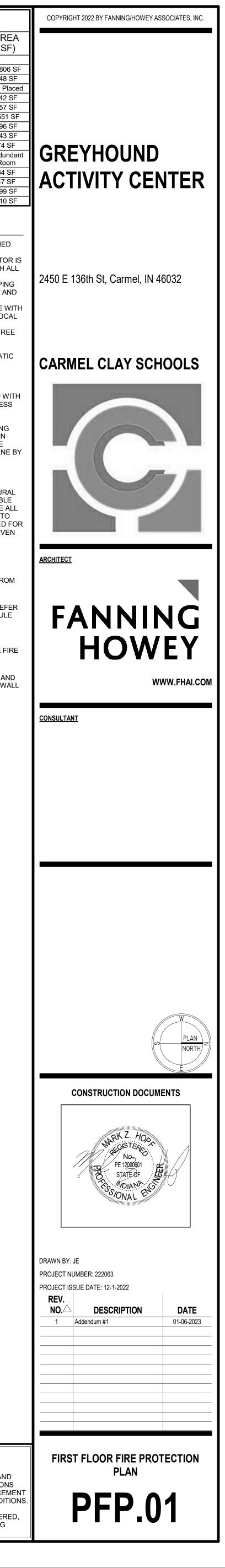


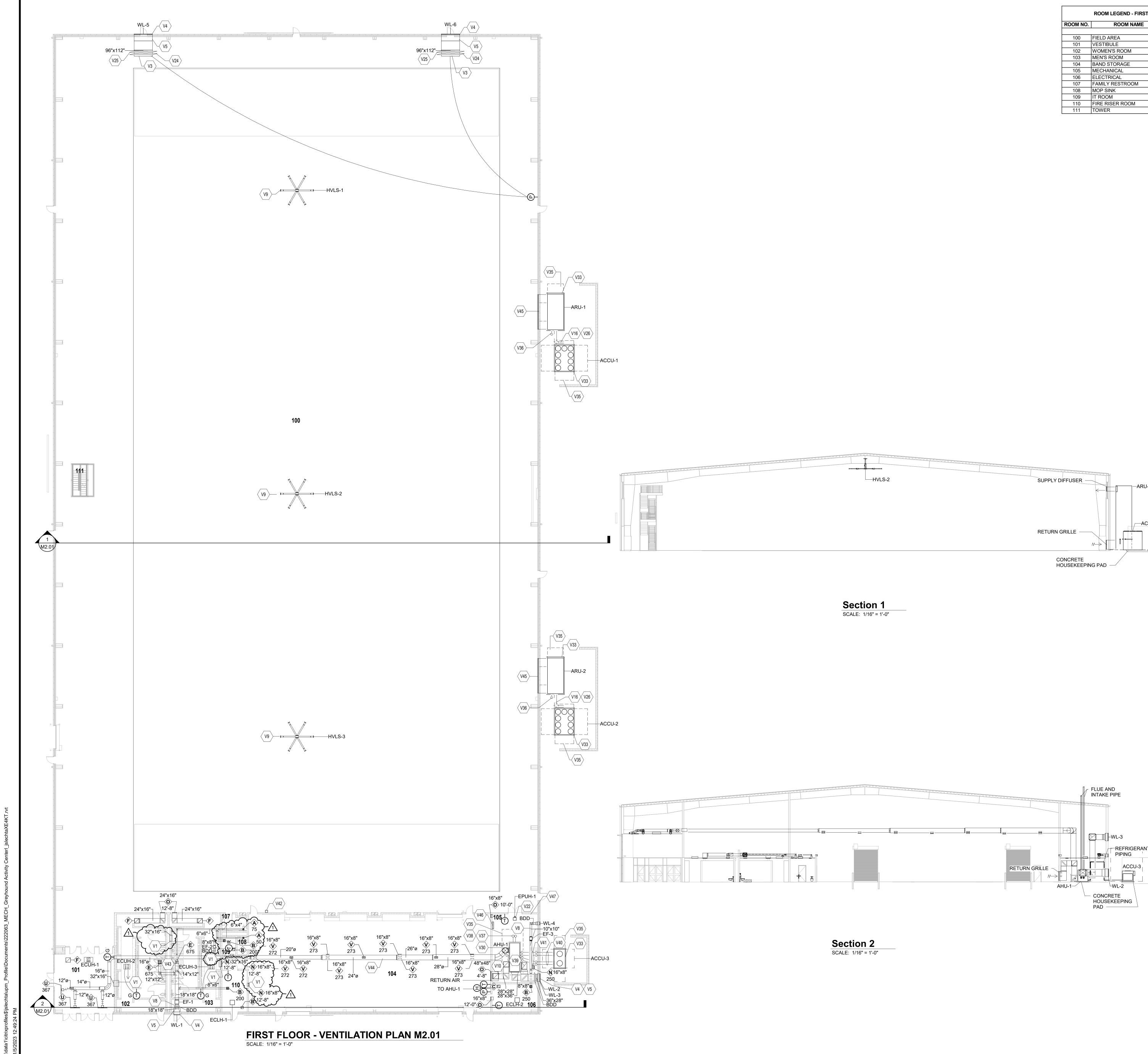
MARK	DESCRIPTION	LOCATION	MANUFACTURER/MODEL NUMBER	CAPACITY	REMA
DCDA-1	DOUBLE CHECK DETECTOR ASSEMBLY	FIRE RISER ROOM 110	AMES MODEL NO. 3000SS (6" SIZE)	1000 GPM @ 5 PSI DROP MAX.	

R	OOM LEGEND - FIRST FLC	DOR
ROOM NO.	ROOM NAME	AREA (SF)
		(0.)
100	FIELD AREA	80806 SI
101	VESTIBULE	748 SF
102	ENTRY	Not Place
102	WOMEN'S ROOM	842 SF
103	MEN'S ROOM	857 SF
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106	ELECTRICAL	243 SF
107	FAMILY RESTROOM	74 SF
108	MOP SINK	Redunda
400		Room
108		34 SF
109		47 SF
110	FIRE RISER ROOM	199 SF
111	TOWER	110 SF
A. AL	AL FIRE PROTECTION NO	ORMED
HY RE DU CC AN DE WO NF CC JU	N THIS PROJECT SHALL BE SIZED (DRAULIC CALCULATIONS. CONT ESPONSIBLE FOR COORDINATION JCTWORK, RACEWAYS, CABLE TH DNDUITS, STRUCTURAL MEMBER ID ARCHITECTURAL CEILING HEIG SIGN INTENT. ALL FIRE PROTEC ORK SHALL BE DONE IN ACCORD PA 13, ALL APPLICABLE STATE A DDES AND THE AUTHORITY HAVIN RISDICTION TO DELIVER A PENA (STEM.	RACTOR IS I WITH ALL RAYS S, PIPING GHTS AND TION ANCE WIT ND LOCAL IG
WI	EFER TO DIVISION 21 FOR ALL AU ET PIPE SPRINKLER SYSTEM EQUIREMENTS.	TOMATIC
IN: OT AN EG LIC DE CC RE	L SPRINKLER PIPING SYSTEM STALLATION SHALL BE COORDIN. THER TRADES AS IT RELATES TO ID SERVICEABILITY OF THAT TRA QUIPMENT (I.E.: MECHANICAL UNI GHTS) ANY SPRINKLER SYSTEM TERMINED BY THE ENGINEER TO DNFLICT WITH OTHER TRADES W ELOCATED WITH ALL COST TO BE IE FIRE PROTECTION CONTRACT	ACCESS DES TS, I PIPING D BE IN ILL BE E BORNE B
SE ST AE AF TH IN	FER TO ARCHITECTURAL BUILDI CTIONS, WALL SECTIONS AND RUCTURAL DRAWINGS FOR STR EEL ELEVATIONS AND SPACE AV OVE THE FINISHED CEILING. PROPRIATE SUPPORT AND BRAC PROPRIATE SUPPORT AND BRAC IE BUILDING STRUCTURE AS REG STALLATION OF PIPING WITHIN TO ONDITIONS.	UCTURAL (AILABLE OVIDE ALL CING TO QUIRED FO
FIR	E PROTECTION PLAN NO	ΓES
	ICOMING FIRE PROTECTION SUPF OW SLAB.	PLY FROM
TO F AND	IBLE CHECK DETECTOR ASSEMBL TRE PROTECTION EQUIPMENT SO DETAIL ON THIS DRAWING FOR M DRMATION.	HEDULE
	E PROTECTION SUPPLY FROM REI ARTMENT CONNECTION.	MOTE FIRE

TERMINATE 2" SYSTEM DRAIN THRU WALL AND TURNED DOWN WITH BUG SCREEN. SEAL WALL PENETRATION WEATHERTIGHT.

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





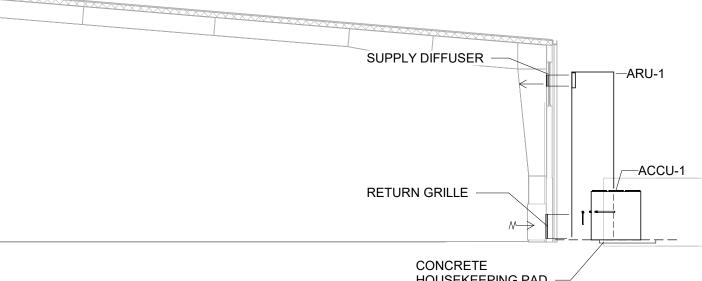
Α.	ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS,
В.	UNLESS OTHERWISE NOTED. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION
C.	AND FINISH OF MATERIALS. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR
	EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS
D.	PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS. 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
F.	MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN
г.	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
I.	FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR
J.	OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES. COORDINATE MECHANICAL SYSTEM INSTALLATION
•	WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K.	PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
	HANICAL PLAN NOTES
NO.	,
V1	AIR TRANSFER WALL OPENING LOCATED ABOVE THE CEILING. COORDINATE EXACT
V3	LOCATION WITH ALL TRADES. END OF DUCT OPENING TO BE PROTECTED
V4	WITH BIRDSCREEN. 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.
V5	INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO
V8	EXTEND A MINIMUM OF 8" BEYOND DUCTWORK WRAP EXHAUST FAN DUCTWORK WITH
	INSULATION FROM WALL LOUVER TO EXHAUST FAN.
V9	COORDINATE THE INSTALLATION OF THE HVLS FANS WITH ALL TRADES. PROPER CLEARANCES
	SHALL BE ADHERED TO. REFER TO MANUFACTURER'S REQUIREMENTS FOR REQUIRED CLEARANCES.
V10	REQUIRED CLEARANCES. DUCTWORK PROVIDED WITH INTERNALLY LINE INSULATION, REFER TO SPECIFICATIONS.
V16	ALL PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE WRAPPED WITH INSULATION AND
	THEN COVERED WITH A PVC JACKET PER THE PROJECT MANUAL. PROVIDE PIPE SUPPORTS
	AS REQUIRED TO PROPERLY SUPPORT THE PIPING.
V22	SUPPORT UNIT HEATER FROM STRUCTURE ABOVE OR ADJACENT WALL WITH
	SUPPLEMENTAL STEEL AND THREADED ROD WITH VIBRATION ISOLATORS AS REQUIRED.
· ·-	MOUNT BOTTOM OF UNIT AT 8'-8" AFF. REFER TO PROJECT MANUAL 238239.
V24	BAROMETRIC GRAVITY RELIEF BACKDRAFT DAMPER MOUNTED VERTICALLY IN DUCTWORK TEST, CALIBRATE AND SET TO MAINTAIN A
	SLIGHT POSITIVE PRESSURE WITHIN THE SPACE PRIOR TO CONSTRUCTION
V25	SUBSTAINTIAL COMPLETION. RELIEF CONTROL DAMPER PROVIDED BY THE
- 20	TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR
	CALIBRATED AND SET TO MAINTAIN A SLIGHT POSITIVE PRESSURE WITHIN THE SPACE. TEST
	AND CALIBRATE RELIEF CONTROL DAMPER PRIOR TO CONSTRUCTION SUBSTANTIAL COMPLETION.
V26	INSTALL ALL REFRIGERANT PIPING PER THE MANUFACTURER'S REQUIREMENTS.
V30	INSTALL EQUIPMENT ON 5 1/2" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE EXACT
	LOCATION AND INSTALLATION WITH ALL TRADES.
V33	INSTALL EQUIPMENT ON CONCRETE PAD. COORDINATE EXACT LOCATION AND
V35	INSTALLATION WITH ALL TRADES. FOLLOW ALL MANUFACTURERS REQUIRED
V36	CLEARANCES. CONDENSATE PIPING WITH WATERSEAL TRAP
~ ~	SIZED AND INSTALLED PER UNIT MANUFACTURERS REQUIREMENTS.
	CONDENSATE PIPING TO TURNED DOWN 8" ABOVE THE SITE DRAIN. END OF PIPE TO BE
	CUT AT A 45 DEGREE ANGLE. COORDINATE SIT DRAIN LOCATION WITH ALL TRADES.
V37	INSULATED STAINLESS STEEL COMBUSTION AI INTAKE DUCT FROM UNIT CONNECTION AND TERMINATED THROUGH THE ROOF. DUCT SIZE
	HEIGHT ABOVE THE ROOF, TERMINATION AND SPACING PER MANUFACTURERS
	REQUIREMENTS. COORDINATE EXACT LOCATION WITH ALL TRADES. REFER TO
V38	SPECIFICATION SECTION 235100. DOUBLE WALL FLUE PIPE FROM UNIT
	CONNECTION AND TERMINATED THROUGH THE ROOF. PIPE SIZE, HEIGHT ABOVE ROOF,
	TERMINATION AND SPACING PER MANUFACTURERS REQUIREMENTS.
	COORDINATE EXACT LOCATION WITH ALL TRADES. REFER TO SPECIFICATION SECTION 235100.
V39	CONDENSATE DRAIN PIPE WITH WATER SEAL TRAP SIZED PER MANUFACTURERS
	REQUIREMENTS. CUT END OF PIPE AT A 45° ANGLE. COORDINATE FLOOR DRAIN LOCATION
V40	WITH ALL TRADES. ROUTE REFRIGERANT PIPING THROUGH THE
-	EXTERIOR WALL AND SEAL WALL PENETRATIONS WATER TIGHT, INSULATE
V41	PIPING AND PROTECT WITH PVC JACKET. INSULATED REFRIGERANT PIPING FROM
	OUTDOOR UNIT TO INDOOR UNIT. PIPE AND PIPE SPECIALITIES PER MANUFACTURERS REQUIREMENTS.
V42	REQUIREMENTS. APPROXIMATE LOCATION OF HIGH VOLUME LOW SPEED CEILING FAN CONTROLLER.
	LOW SPEED CEILING FAN CONTROLLER. COORDINATE EXACT LOCATION WITH ALL TRADES.
	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V43	PROVIDE DOUBLE WALL INSULATED DUCTWORK. PAINT EXPOSED DUCTWORK AND
V43 V44	
-	ASSOCIATED AIR DEVICES TO COLOR SELECTED BY THE ARCHITECT. COORDINATE
V44	SELECTED BY THE ARCHITECT. COORDINATE WITH DIVISION 9.
-	SELECTED BY THE ARCHITECT. COORDINATE
V44	SELECTED BY THE ARCHITECT. COORDINATE WITH DIVISION 9. SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLE PROVIDED BY AIR ROTATION UNIT MANUFACTURER. CONTRACTOR SHALL PROVIDE INTERCONNECTING DUCTWORK BETWEEN DIFFUSER/GRILLE AND AIR ROTATIO
V44 V45	SELECTED BY THE ARCHITECT. COORDINATE WITH DIVISION 9. SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLE PROVIDED BY AIR ROTATION UNIT MANUFACTURER. CONTRACTOR SHALL PROVIDE INTERCONNECTING DUCTWORK BETWEEN DIFFUSER/GRILLE AND AIR ROTATIO UNIT. COORDINATE DIFFUSER/GRILLE SIZES AND LOCATIONS WITH ALL TRADES.
V44	SELECTED BY THE ARCHITECT. COORDINATE WITH DIVISION 9. SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLE PROVIDED BY AIR ROTATION UNIT MANUFACTURER. CONTRACTOR SHALL PROVIDE INTERCONNECTING DUCTWORK BETWEEN DIFFUSER/GRILLE AND AIR ROTATIO UNIT. COORDINATE DIFFUSER/GRILLE SIZES AND LOCATIONS WITH ALL TRADES. APPROXIMATE LOCATION OF TEMPERATURE CONTROL PANEL(S). COORDINATE EXACT
V44 V45	SELECTED BY THE ARCHITECT. COORDINATE WITH DIVISION 9. SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLE PROVIDED BY AIR ROTATION UNIT MANUFACTURER. CONTRACTOR SHALL PROVIDE INTERCONNECTING DUCTWORK BETWEEN DIFFUSER/GRILLE AND AIR ROTATIO UNIT. COORDINATE DIFFUSER/GRILLE SIZES AND LOCATIONS WITH ALL TRADES. APPROXIMATE LOCATION OF TEMPERATURE CONTROL PANEL(S). COORDINATE EXACT LOCATION WITH ALL TRADES. EMERGENCY EQUIPMENT SHUT-DOWN SWITCH
V44 V45 V46	SELECTED BY THE ARCHITECT. COORDINATE WITH DIVISION 9. SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLE PROVIDED BY AIR ROTATION UNIT MANUFACTURER. CONTRACTOR SHALL PROVIDE INTERCONNECTING DUCTWORK BETWEEN DIFFUSER/GRILLE AND AIR ROTATIO UNIT. COORDINATE DIFFUSER/GRILLE SIZES AND LOCATIONS WITH ALL TRADES. APPROXIMATE LOCATION OF TEMPERATURE CONTROL PANEL(S). COORDINATE EXACT LOCATION WITH ALL TRADES.

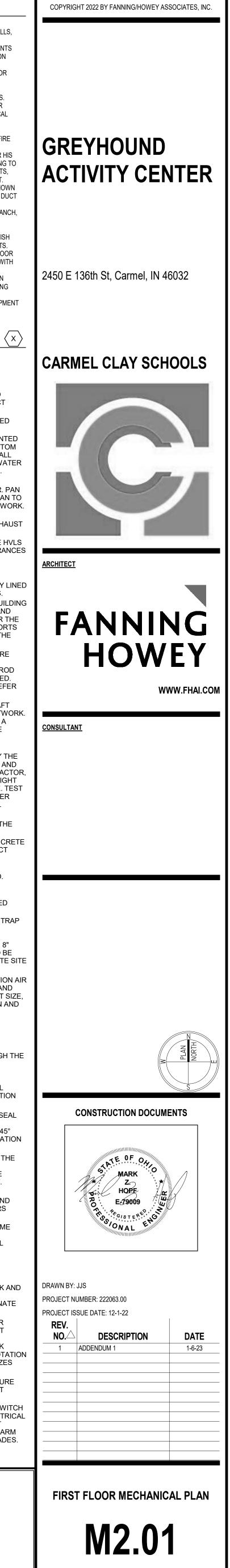
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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

<b>ROOM LEGEND - FIRST FLOOR</b>							
ROOM NO.	ROOM NAME	AREA (SF)					
100	FIELD AREA	80806 SF					
101	VESTIBULE	748 SF					
102	WOMEN'S ROOM	842 SF					
103	MEN'S ROOM	857 SF					
104	BAND STORAGE	4551 SF					
105	MECHANICAL	596 SF					
106	ELECTRICAL	243 SF					
107	FAMILY RESTROOM	74 SF					
108	MOP SINK	34 SF					
109	IT ROOM	47 SF					
110	FIRE RISER ROOM	199 SF					
111	TOWER	110 SF					



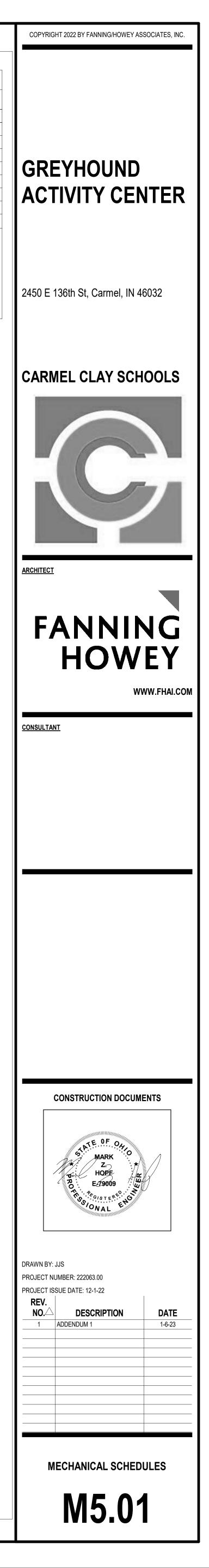


						PACKAGE		NG UNIT SCHEDULE									EXTER	RIOR WALL LOUVER SCHEDU	ULE
	MANUFACTURER	SUPF		ANS	EXHAUST/RELIEF	U		G COIL DATA (95 DEGREE AN		GAS FIRED HEATING		ELECTRICAL	PRE	FINAL WEIGHT,			MARK SIZE W X H	TOP OF LOUVER ELEVATION TYPE	
ARK	DAIKIN	CFM OA EXT. TOTAL CFM S.P. S.P.	BHP HP RPM	I CFM	EXT. S.P.	тс	TAL SENS.	AT, DB °F LAT, DB °F MAX. 	ROWS     APD     EAT     LAT       FIN/IN.     DB °F     DB °F		JLATING API AGES	D MCA MOP SERV			DTES			FER TO ARCHITECTURAL PLANS     WL-1       FER TO ARCHITECTURAL PLANS     WL-1	
HU-1	VX-112-SDX-J-D1		3.28 1-5.0 2,099	0-4,100	0.50	(1) 2.0 1	74.2 118.5	79.1         52.8         347           66.0         51.7	<u>4</u> 0.315 51.7 105.9	300.0 240.0 12:1 T	URNDOWN 0.36	8 11.6 15.0 460/3	2"-MERV 8 4"	-MERV 13 2282 1,2,3,4	,5,6,7,8,9,10,11,12			FER TO ARCHITECTURAL PLANS     WL-1       FER TO ARCHITECTURAL PLANS     WL-1	
																		FER TO ARCHITECTURAL PLANS     WL-1       FER TO ARCHITECTURAL PLANS     WL-1	
<u>NOTES</u>						·				12. SUMMER:	·								
VARIABLE	SPECIFICATION SECTION 230 FREQUENCY CONTROLLER P	ROVIDED AND	6. UNIT PRO		C MINIMUM. MOUNTED OUTSIDE AIR CONTROL RELIEF FAN OUTLET BACK DRAFT DA	( )·		UNIT SCHEDULED AS MANUFACTUF . TOTAL UNIT STATIC PRESSURE RI	RED BY VALENT. EFLECTS AVERAGE DIRTY FILTERS.	INDOOR: 72° db/50' OUTDOOR: 91.3° dl									
THE UNI	ED FOR SUPPLY FAN(S), AND T MANUFACTURER.		7. RELIEF A	RFLOW TO BE VARIABL	LE VOLUME AIRFLOW WITH REMOTE PRESSURE SENSOR BY THE TCC.		11.	. REFER TO PLANS AND DETAIL DRA	AWING FOR UNIT LAYOUT DETAILS.	WINTER: INDOOR: 70.0° db OUTDOOR: 2.6° db							NOTES:		
		CONTROLS WITH LCD DISPLAY. D FACTORY MOUNTED DISCONNECT,	8. UNIT POV	VERED INTERNAL LIGH	TS.												1. REFER TO SPECIFICATION SEC 2. SEAL ALL AROUND WITH SILICO 3. REFER TO INSTALLATION DETA		
																	4. CUSTOM COLOR TO BE SELECT	TED BY THE ARCHITECT/ENGINEER.	
		FA	NS		AIR ROTAT	ON UNITS	II S							COOLED CONDENSING UN					
		SUPPLY			DX COC			IRED HEATING COIL		-		MARK MBH	NOMINAL SUC TONS TE	TION AMBIENT MP TEMP EER	MCA SERVICE MANUFACTU & MODEL N				
ARK	CFM MIN O.A.	. EXT. TOTAL HF		.EC. EAT	LAT COOLING L	OAD APD	EAT LA	T INPUT OUT		:5	-	ACCU-1 1,286.70 ACCU-2 1,286.70	120.045.120.045.		220.3         460/3         DAIKIN - RCS <sup>2</sup> 220.3         460/3         DAIKIN - RCS <sup>2</sup>				
	CFM	S.P. S.P.		79.8	52.5 005 00 11	DTAL		MBH ME			-	ACCU-2 1,286.70 ACCU-3 174.41	120.0         45.1           15.0         45.1		220.3         460/3         DAIKIN - RCS           31.1         460/3         DAIKIN - RCS				
·1 ·2	30,000         12,150           30,000         12,150	2x7.		50/3         75.8           66.5         66.5           60/3         66.5           66.5         66.5	52.2	291.00 0.481 291.00 0.481	42.7 101 42.7 101		20.00 1,2,3,4,5,6,7,8,9,1		_	NOTES:							
				66.5	52.2 885.00 1,2					,, . , . <u>_</u> , . <sub>e</sub> ,		1. UNIT SHALL BE GROUN							
	IOTES BASIS OF DESIGN: JOI								I				NG ACCESSORIES, HI	GH AMBIENT UNLOADER PRESSUR	ESTAT, PROTECTIVE COIL GUARDS, PHASE				
	20:1 TURN DOWN - GA				<ol> <li>7. REFER TO SPECIFICATION</li> <li>8. INCLUDE FACTORY MOUTING</li> </ol>					72° db/50% RH R: 91.3° db/75.0° wb		4. UNIT SELECTED WITH F		IENT CONTROL, AND VIBRATION IS	OLATORS.				
3.	MAXIMUM COOLING CO	OIL FACE VELOCITY SHALL BE 5	00 FPM.		9. SINGLE-POINT POWER C 10. CUSTOM COLOR AS SEI			R	WINTER:	70.0° db				JANTITIES PER MANUFACTURERS I	REQUIREMENTS.				
		E VELOCITY SHALL BE 500 FPM. ETAIL DRAWING FOR UNIT LAYO			<ul><li>10. COSTOM COLOR AS SET</li><li>11. 2" MERV 8 FILTERS.</li><li>12. FACTORY MOUNTED OL</li></ul>					R: 2.6° db		6. PROVIDE COMPRESSO 7. PROVIDE DIGITAL SCR							
6.	FACTORY MOUNTED V	ARIABLE FREQUENCY CONTRO			13. MAXIMUM NOISE LEVEL							8. PROVIDE SIX FIXED CO 9. SCCR RATING OF 10KA							
	PROVIDED ON THE SU	PPLY FAN(S).										10. INCLUDE FACTORY MO		SWITCH.					
			DI	FFUSER, REG	SISTER, AND GRILLE S	CHEDULE							EXHAUST	FAN SCHEDULE					
RK	TYPE	MPLE MANUFACTUER MODEL NO.	NECK SIZE	OVERALL SIZE L"xW"		MAX. CFM	MAX. NOISE CRITERIA	FRAME/ MOUNTING	REMARKS	MARK 1	YPE	CFM FRPM S	XT. MAX. P. SONES			NOTES			
	RETURN/AIR	TITUS 355-FL	6"x6"	8"x8"	NECK VEL.(FPM)	100		REFER TO REFLECTED	PROVIDE ALUMINUM SURFACE MOUNT	_	N-LINE	1,675 1,711 0	500 13.3	HP SERV 1/2 115/1 A	SQ-120-VG DIRECT	1,2,3,4,6,7	<u>1</u>		
	RANSFER GRILLE						20	CEILING PLAN REFER TO REFLECTED	BORDER FOR DUCTED INSTALLATIONS.	-	J-LINE		300 5.7 350 8.7	1/15 115/1 C 1/4 115/1 A	SQ-99-VG DIRECT	1,2,3,4,6,7 1,2,3,4,6,7			
1	RANSFER GRILLE	TITUS 355-FL	10"x10"	12"x12"	500	300	20	CEILING PLAN	BORDER FOR DUCTED INSTALLATIONS.										
1	RETURN/AIR RANSFER GRILLE	TITUS 355-FL	12"x12"	14"x14"	500	425	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.	NOTES				CONTROL KEY:					
1	RETURN/AIR RANSFER GRILLE	TITUS 355-FL	14"x14"	16"x16"	500	600	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.		SCONNECT SWIT			A. AUTOMATIC OCCUPIE CONTROL ZONE.	ED OPERATION BY LOCAL TEMPERATURE				
T	RETURN/AIR RANSFER GRILLE	TITUS 355-FL	16"x16"	18"x18"	500	800	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.	VIBRATION IS	OLATORS.	E ABOVE WITH THREADED	ROD AND	<ul><li>B. MANUAL CONTROLS</li><li>.1 WITH TIMER SWITC</li><li>.2 WITH ON/OFF SWIT</li></ul>	H.				
1	RETURN/AIR RANSFER GRILLE	TITUS 355-FL	22"x22"	24"x24"	500	1250	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.	ADDITIONAL	REQUIREMENTS			.3 WITH ROOM LIGHT C. AUTOMATIC OPERAT	SWITCH. ION BY REVERSE-ACTING THERMOSTAT.				
	SQUARE PLAQUE EILING DIFFUSER	TITUS OMNI	5"	12"x12"	800	100	18	REFER TO REFLECTED	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.	6. ALL FAN MO	DELS SPECIFIE	D AS MANUFACTURED BY C	_	D. 24 HOUR CONTINUO E. ON/OFF CONTROL W					
	SQUARE PLAQUE	TITUS OMNI	6"	12"x12"	800	150	21	CEILING PLAN REFER TO REFLECTED	4-WAY BLOW DIFFUSERS, UNLESS	9. INSTALL DF	RIP PAN UNDER U			F. CONTROLS BY DISHV	VASHER HOOD MANUFACTURER. ITH KITCHEN HOOD EXHAUST FAN OPERAT				
	EILING DIFFUSER		0			150	21	CEILING PLAN REFER TO REFLECTED	INDICATED OTHERWISE ON DRAWINGS. 4-WAY BLOW DIFFUSERS, UNLESS			. GRILLE, ISOLATION KIT AN I FOR HOUSING, FAN WHEE							
C	EILING DIFFUSER	TITUS OMNI	6"	24"x24"	900	175	17	CEILING PLAN	INDICATED OTHERWISE ON DRAWINGS.	-		ELECTRIC CA	BINET UNIT HEA	TER SCHEDULE					
	SQUARE PLAQUE EILING DIFFUSER	TITUS OMNI	8"	24"x24"	900	300	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.	MARK HIGH	LOW	HIGH LOW H	HIGH/LOW	HIGH/LOW ELEC.	MODEL	ELE	ECTRIC CEILING MOUNTED UNIT	T HEATER SCHEDULE	
	SQUARE PLAQUE EILING DIFFUSER	TITUS OMNI	10"	24"x24"	800	425	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.	ECUH-1 500	460	KW         KW           10.0         6.0	MBH         EA           34.13/20.47         60	I         AMPS         SERV           15.4/8.1         480/3	NO.         NOTES           T46         1,2,3,5,6,7,8,9	MARK CFM	ELECTRIC HEATING	ELEC V SERV MODEL NO.	D. NOT
	SQUARE PLAQUE EILING DIFFUSER	TITUS OMNI	12"	24"x24"	800	625	23	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.	ECUH-2 250 ECUH-3 250	230 230	5.0         3.0           5.0         3.0	17.06/10.23     60       17.06/10.23     60	7.8/4.6         480/3           7.8/4.6         480/3	T33         1,2,3,5,6,7,8,9           T33         1,2,3,5,6,7,8,9	ECLH-1 600 17,	7,000 60 97 5.0	0 460/3 RCH 3480 SERIES	S 1,2,3
	SQUARE PLAQUE EILING DIFFUSER	TITUS OMNI	14"	24"x24"	700	750	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.							ECLH-2 600 10,	0,200 60 82 3.0	0 460/3 RCH 3480 SERIES	S 1,2,3
	RETURN/AIR	TITUS 355-FL	SEE FLOOR PLANS		500	PER PLANS	20	DUCT OR SIDEWALL	FIXED 35(DEGREE), 1/2" SPACING	NOTES						NOTES	i		
	RANSFER GRILLE		FOR SIZE						DEFLECTION BLADES FIXED 38(DEGREE), 1/2" SPACING	1. COLOR TO BE SE 2. PROVIDE FACTO				<ol> <li>7. UNITS SCHEDULED ARE AS MAN</li> <li>8. REFER TO SPECIFICATION SECT</li> </ol>			ARE AS MANUFACTURED BY RAYWALL.		
		TITUS 33-RL	FOR SIZE	-		PER PLANS	20	DUCT OR SIDEWALL		3. HORIZONTAL CE				9. SUPPORT HEATER FROM STRUC	CTURE ABOVE WITH MINIMUM OF	<ol> <li>2. RECESSED CEILING</li> <li>3. REFER TO SPECIFIC</li> </ol>	G MOUNTED. CATION SECTION 238239.		
S	SIDEWALL SUPPLY DIFFUSER	TITUS 300-FL	FOR SIZE	-	300	PER PLANS	20	DUCT OR SIDEWALL	DOUBLE DEFLECTION, ADJUSTABLE BLADES 1/2" FRONT SPACING, 3/4" REAR SPACING	4. HORIZONTAL EX	POSED UNIT.			FOUR (4), 3/8" DIAMETER THREADE	D RODS AND VIBRATION ISOLATORS.	4. LOW VOLTAGE WAL 5. FACTORY DISCONNE	LL MOUNTED TEMPERATURE SENSOR BY	THE TCC.	
S	HEAVY DUTY SUPPLY DIFFUSER	TITUS 300RL-HD	SEE FLOOR PLANS FOR SIZE	-	400	PER PLANS	20	DUCT OR SIDEWALL	DOUBLE DEFLECTION, ADJUSTABLE BLADES 1/2" FRONT SPACING, 3/4" REAR SPACING			I SUPPLY AND BOTTOM RET 2-STAGE TEMPERATURE SE				6. WHITE POWDER COA			
	LINEAR SLOT DIFFUSER	TITUS FL-20-HT	SEE FLOOR PLANS FOR SIZE	2-SLOT X 48"L		PER PLANS	20	REFER TO REFLECTED CEILING PLAN	HIGH THROW WITH INSULATED PLENUM 2-2" SLOT WITH DIA." INLET										
	LINEAR SLOT DIFFUSER	TITUS FL-10-JT	SEE FLOOR PLANS FOR SIZE	1-SLOT X 48"L		PER PLANS	20	REFER TO REFLECTED CEILING PLAN	JET THROW WITH INSULATED PLENUM 1-1" SLOT WITH DIA." INLET										
	SUPPLY DIFFUSER	TITUS 300-FS	SEE FLOOR PLANS		450	PER PLANS	25	DUCT OR SIDEWALL	DOUBLE DEFLECTION, ADJUSTABLE BLADES 1/2" FRONT SPACING, 3/4" REAR SPACING	-				HIGH V	OLUME LOW SPEED CEILING FAI	N SCHEDULE			
	LINEAR		FOR SIZE	1-SLOT X 48"L		PER PLANS	20	REFER TO REFLECTED	JET THROW WITH INSULATED PLENUM	_			MARK	TYPE	FAN MAX ELEC DIA. RPM WATTS SI	CONTROL DRIVE	MANUFACTURER & MODEL NO.	ES	
	SLOT DIFFUSER SPIRAL SUPPLY	TITUS FL-15-JT	FOR SIZE	1-3LUT A 48"L			20	CEILING PLAN	1-1.5" SLOT WITH DIA." INLET	-				IIGH VOLUME LOW SPEED CEILING FAN		ERV	BIG ASS FANS - PFX4-14         1,2,3,4,5,6	,6,7	
	DUCT GRILLE	TITUS S300-FL	FOR SIZE	-	450	PER PLANS	20	DUCT	3/4" SPACING, AIR SCOOP DEVICE					IIGH VOLUME LOW SPEED CEILING FAN		180/3 A DIRECT 180/3 A DIRECT	BIG ASS FANS - PFX4-14         1,2,3,4,5,6           BIG ASS FANS - PFX4-14         1,2,3,4,5,6		
	ROUND SUPPLY DIFFUSER	CONCEPTS RDDW & RDDW-RD	SEE FLOOR PLANS FOR SIZE	-	550	PER PLANS	15	CEILING AND DUCT	ADJUSTABLE DOUBLE DEFLECTION VERTICAL AND HORIZONTAL				HVL0-0 H		тт IIU I,400 4		I,2,3,4,5,6	<u></u>	
	LINEAR SLOT DIFFUSER	TITUS FL-10-HT	SEE FLOOR PLANS FOR SIZE	1-SLOT X 48"L		PER PLANS	20	REFER TO REFLECTED CEILING PLAN	HIGH THROW WITH INSULATED PLENUM 1-1.0" SLOT WITH DIA." INLET				NOTES		I I	I			
	I				1									SPECIFICATION SECTION 233423 F	OR ADDITIONAL REQUIREMENTS. CTURER'S FULL RANGE OF COLORS AS	CONTRC A. RE	OL KEY: EMOTE TOUCHSCREEN LED WALL		
		AHU/ACCU MAXIMUM	ALLOWABLE SO	UND LEVELS			FAN SPEE	N ELEC	LER UNIT HEATER SCHEDUL	ELEC			SELECTED	BY ARCHITECT/ENGINEER.		MOL UNIT	OUNTED SPEED CONTROLS BY IT MANUFACTURER. CONTROLS		
		63Hz 125Hz 25	0Hz 500Hz	1KHz 2Kł	Hz 4KHz 8KHz		CFM SPEE (RPN 400 HIG	,	LAT ESP MAX KW	60/3 5100 SERIES	NOTES 1,2,3,4,5,6,7		FAN. FOLL	OW THE MANUFACTURER'S INSTAL	UIRED FOR PROPER HANGING OF THE LATION REQUIREMENTS.	CON	ALL BE CAPABLE OF NTROLLING ALL THREE FANS OM A SINGLE CONTROLLER.		
ĸ	UNIT SOUND						100		0.0		, _, _, ., ., ., ., ., .		4 541011411			FRO			
RK	UNIT SUPPLY DISCHARGE	79 82	87 79	73 68	3 74 63	EPUH-1								BE HUNG AS HIGH AS POSSIBLE.	IOTOR.				
RK		79 82	87         79           88         64	73         68           48         48	3         74         63           3         54         39	NOTES							5. VFC SHALI	BE FACTORY MOUNTED TO THE M	IOTOR. SOCIATED COMPONENTS WITH ALL				

		AHU/AC	CU MAXIM		WABLE SO		/ELS		
MARK	UNIT SOUND	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz
AHU-1	UNIT SUPPLY DISCHARGE	79	82	87	79	73	68	74	63
AHU-1	UNIT EXHAUST DISCHARGE	79	67	88	64	48	48	54	39
ACCU-1	RADIATED SOUND	0	99	95	93	93	91	88	84
ACCU-2	RADIATED SOUND	0	99	95	93	93	91	88	84
ACCU-3	RADIATED SOUND	0	83	77	79	82	75	71	64

NOTES
1 2 2 4 5 6 7 8 0 10 11 11

MARK	SIZE W X H	TOP OF LOUVER ELEVATION	TYPE	NOTES	
WL-1	32" x 24"	REFER TO ARCHITECTURAL PLANS	WL-1	1,2,3,4,5	
WL-2	40" x 40"	REFER TO ARCHITECTURAL PLANS	WL-1	1,2,3,4,5	
WL-3	40" x 40"	REFER TO ARCHITECTURAL PLANS	WL-1	1,2,3,4,5	
WL-4	16" x 16"	REFER TO ARCHITECTURAL PLANS	WL-1	1,2,3,4,5	
WL-5	96" 3180"	REFER TO ARCHITECTURAL PLANS	WL-1	1,2,3,4,5	
WL-6	96" 🗙 180"	REFER TO ARCHITECTURAL PLANS	WL-1	1,2,3,4,5	
<u>h</u> -/					



		POWER SYMBOLS		POWER SYMBOLS			LIGHTING SYMBOLS
CTRICAL ABBREVIATIONS	SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO BOTTOM	SYMBOL DESCRIPTION	МН	SYMBOL	DESCRIPTION
ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS,		ONDUIT CONCEALED ABOVE CEILING OR IN WALL		DISTRIBUTION PANEL, SEE ONE LINE DIAGRAM	-	HB	OCCUPANCY SENSOR - CEILING MOUNTED (UNO), HIGH BAY INFRARED, 360 DEGREE PATTERN, 36' DIA. COVERAGE PATTERN (MIN.) AT 20' MOUNTING HEIGHT. PROVIDE WITH RELAY OPTION.
INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW	c	ONDUIT CONCEALED IN OR BELOW FLOOR, OR UNDER GROUND		SURFACE CIRCUIT BREAKER PANELBOARD, SEE ONE LINE DIAGRAM	-		OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, 360 DEGREE PATTERN, 2000 S.F. COVERAGE. PROVIDE WITH RELAY OPTION. "/\" PORTION OF SYMBOL INDICATES AIMING OF ULTRASONIC SENSORS.
NUMBER P(N)W NUMBER OF POLES, NUMBER OF WIRES		) AMP, 125 VOLT, NEMA 5-20R DUPLEX RECEPTACLE WITH COMMON COVER PLATE MOUNTED VERTICALLY +16" TO OTTOM. LETTER(S) IN FRONT INDICATES LOAD TYPE, SEE BELOW. SINGLE LINE INDICATES HORIZONTAL MOUNTING,		FLUSH MOUNTED CIRCUIT BREAKER PANELBOARD, SEE ONE LINE DIAGRAM	-	Ċ	OCCUPANCY SENSOR - CEILING MOUNTED, INFRARED, 360 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION.
J AIR CONDITIONING UNIT AMP FRAME ABOVE FINISHED COUNTERTOP		OUBLE LINE INDICATE QUAD, DARK CENTER INDICATES ABOVE COUNTERTOP MOUNTING (44") NEMA 5-20R, UNO. RCUIT NUMBER (e.g. "1AL1-1") ADJACENT TO THE SYMBOL ON PLANS INDICATES PANELBOARD/CIRCUIT NUMBER ERVING RECEPTACLE, UNO.					OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, DIRECTIONAL/180 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION. PROVIDE WITH CEILING
ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLER UNIT		COFFEE MAKER GROUND FAULT CIRCUIT INTERRUPTING TYPE					MOUNTING BRACKET ACCESSORY IF NOT SUPPLIED AS STANDARD WITH SENSOR. "A" PORTION OF SYMBOL INDICATES AIMING.
AMPERE INTERRUPTING CAPACITY ADDRESSABLE INTERFACE DEVICE AS REQUIRED				PUSH BUTTON STATION, TYPE INDICATED	44"	Ĉ	OCCUPANCY SENSOR - CEILING MOUNTED, INFRARED, DIRECTIONAL/180 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION. PROVIDE WITH CEILING MOUNTING BRACKET ACCESSORY IF NOT SUPPLIED AS STANDARD WITH SENSOR. "A" PORTION
AMP TRIP AUTOMATIC TRANSFER SWITCH		<ul> <li>VENDING MACHINE, FEED FROM 30 mA GFCI BREAKER IN PANELBOARD.</li> <li>WALL MOUNTED VIDEO PROJECTOR, 96" AFF UNO</li> <li>VC ELECTRIC WATER COOLER. FEED FROM 5 mA GFCI BREAKER IN PANELBOARD.</li> </ul>		Hoo     PUSH BUTTON STATION, ON/OFF	44"	(ST)	OF SYMBOL INDICATES AIMING. OCCUPANCY SENSOR - WALL SWITCH TYPE, DUAL TECHNOLOGY WITH MANUAL OVERRIDE
G AMERICAN WIRE GAUGE AUDIO VISUAL	v	<ul> <li>WASHFOUNTAIN/LAVATORY. CONNECT TO NEAREST THROUGH FEED GFCI RECEPTACLE.</li> <li>WASHING MACHINE. FEED FROM 30 mA GFCI BREAKER IN PANELBOARD.</li> <li>WEATHER RESISTANT GFCI WITH IN-USE TYPE WEATHERPROOF COVER HINGED AT TOP</li> </ul>		PUSH BUTTON STATION, UP/DOWN/STOP	44"	Ý	SWITCH
BLANK BOLTED-PRESSURE CONTACT SWITCH		) AMP DUPLEX RECEPTACLE FLUSH CEILING MOUNTED , NEMA 5-20R	CLG	RECESSED ADA PUSH BUTTON FOR AUTOMATIC DOOR OPERATOR, FURNISHED BY OTHERS, INSTALLED BY DIV. 26	44"	(SI)	OCCUPANCY SENSOR - WALL SWITCH TYPE, INFRARED WITH MANUAL OVERRIDE SWITCH
CONDUIT (GENERIC TERM FOR RACEWAY, PROVIDE AS SPECIFIED) CANDELA		PECIAL POWER RECEPTACLE, AMPS, VOLTS AND NEMA CONFIGURATION AS DEFINED		RECESSED ADA DOUBLE PUSH BUTTON FOR DUAL AUTOMATIC DOOR OPERATORS, FURNISHED BY OTHERS, INSTALLED BY DIV. 26	44"	<del>ଡ</del> -K	KEY OPERATED SWITCH, NUMBER INDICATES NUMBER OF POLES, 277V, 20A, FLUSH UNO
G CEILING MOUNTED M CAMERA LIGHTING CONTACTOR		IN PLANS BY CODED NOTE	16"			<del>•9-</del> 3	SWITCH, NUMBER INDICATES NUMBER OF POLES, 277V, 20A, FLUSH UNO
L COLUMN F COMBINATION MOTOR FUSIBLE STARTER I CABINET UNIT HEATER	S S	NGLE STRAIGHT BLADE, SPECIAL RECEPTACLE, 20A, 125/250 VOLT, 3P, 4W, NEMA 14-20R	16"		44	<del>∽</del> a	SINGLE POLE SWITCH, 277V, 20A, FLUSH UNO TYPICAL, SUBSCRIPT a, b, c INDICATES WHICH LUMINAIRE THAT WILL BE CONTROLLED VIA SWITCH LEG
DEMO TABLE DIRECT CURRENT	€R S	NGLE STRAIGHT BLADE, RANGE RECEPTACLE, 50A, 125/250 VOLT, 3P, 4W, NEMA 14-50R	8"	PHOTOCELL AIMED NORTH	-	↔-D	WALL BOX DIMMER 277V, 1200 WATT MINIMUM, FLUSH, UNO. PROVIDE WATTAGE SIZE TO
DEDICATED DEVICE ON INDIVIDUAL BRANCH CIRCUIT DUAL FACE		NGLE STRAIGHT BLADE, GROUNDED DRYER RECEPTACLE, 30A, 125/250 VOLT, 3P, 4W, EMA 14-30R	32"	RECESSED WALL BOX FOR HAND DRYER. CIRCUIT WITH 2#10, #10G IN 3/4" C TO PANEL INDICATED	-		
TR DIAMETER	20	AMP DUPLEX RECEPTACLE IN FLUSH FLOOR MOUNTED BOX,NEMA 5-20R. USE A CAST BOX AT GRADE LEVEL, USE A	·	NON-FUSED DISCONNECT, 3 POLE, NEMA 1, UNO. 30 AMP UNO. -WP SUFFIX DESIGNATES NEMA 3R ENCLOSURE.	48"	LC	LIGHTING CONTACTOR, MECHANICALLY HELD, 30A - 3P WITH H-O-A SWITCH, UNO
ST     DOUBLE POLE SINGLE THROW       DT     DOUBLE POLE DOUBLE THROW       DUST-TIGHT		AMPED STEEL BOX FOR UPPER FLOORS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.		-WP4X SUFFIX DESIGNATES NEMA 4X STAINLESS STEEL ENCLOSURE.  FUSED DISCONNECT, 3 POLE, NEMA 1, UNO. 30 AMP UNOWP SUFFIX DESIGNATES NEMA 3R ENCLOSURE.	48"	$\bigcirc$	DOWNLIGHT LUMINAIRE, APPROXIMATE SIZE INDICATED
EQUIPMENT BONDING JUMPER ON LOAD		GH CAPACITY FLOOR BOX WITH 4 DUPLEX RECEPTACLES, NEMA 5-20R, UNO FOR POWER ND DATA. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-	100A-3P -WP4X SUFFIX DESIGNATES NEMA 4X STAINLESS STEEL ENCLOSURE.			DOWNLIGHT LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
SIDE OF AN OVER-CURRENT DEVICE ELECTRICAL CONTRACTOR WIRED ON EMERGENCY CIRCUIT		NO 20 AMP DUPLEX RECEPTACLES IN BOX WITH COVER PLATE, PENDANT MOUNTED ITH 3/C, SJO CORD AND STRAIN RELIEF GRIPS.	84"	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION, UNO.         FLUSH MOUNTED IN FINISH SPACES.	44"	ŶŢ	WALL SCONCE LUMINAIRE
END OF LINE EXISTING TO REMAIN ELECTRIC WATER COOLER		2 CHANNEL MULTIOUTLET SURFACE RACEWAY ASSEMBLY WITH DUPLEX RECEPTACLES AND DATA OUTLETS. SEE TECHNOLOGY DRAWINGS. QUANTITY AS	-	HANUAL MOTOR STARTER, NO OVERLOADS. FLUSH MOUNTED IN FINISH SPACES.	44"	$\begin{array}{c} \bot  \bot \\ \hline \\$	WALL MOUNTED EXIT SIGN, DIRECTIONAL ARROWS AS SHOWN
EXISTING FLUSH		M       SHOWN OR PER SPEC.         SINGLE CHANNEL MULTIOUTLET SURFACE RACEWAY PRE-WIRED ASSEMBLY WITH			44"	¥	
FUSED AT FIRE ALARM		SINGLE RECEPTACLES. QUANTITY PER SPEC.		CONTROL SWITCH FOR DEVICES SUCH AS MOTORIZED SHADES, SOLAR LIGHT TUBES, PROJECTION SCREENS, ETC. FURNISHED BY OTHERS, INSTALLED FLUSH MOUNTED WITH	44"		CEILING MOUNTED EXIT SIGN, SHADED PORTION(S) INDICATES SINGLE OR DOUBLE FACE
D     FURNISHED BY OTHERS       J     FAN COIL UNIT       N     FOUNDATION		FIRE ALARM SYMBOLS		COVER PLATE AND WIRED BY DIV. 26	60"	$\bigcirc \Box$	ARM MOUNTED AREA LUMINAIRE
B FAN POWERED BOX FIBERGLASS REINFORCED EPOXY CONDUIT FLOW SWITCH	SYMBOL	DESCRIPTION	МН			$\odot$	POLE TOP AREA LUMINAIRE
P-A HAND-OFF-AUTO HEAT PUMP	AID	ADDRESSABLE INTERFACE DEVICE	-	VARIABLE FREQUENCY CONTROLLER, FURNISHED BY DIV. 23 CONTRACTOR, INSTALLED BY DIV. 26 CONTRACTOR, UNO. COORDINATE FINAL MOUNTING HEIGHT.	60"		WALL-BRACKET LUMINAIRE, APPROXIMATE SIZE INDICATED
C KITCHEN EQUIPMENT CONTRACTOR KNOCK-OUT	H	HEAT DETECTOR, 190 DEGREES F FIXED TEMPERATURE (UNO), CEILING MOUNTED	CLG	AUTOMATIC TRANSFER SWITCH, REFER TO SINGLE LINE DIAGRAM. COORDINATE FINAL MOUNTING HEIGHT. REFER TO SPECIFICATIONS FOR REQUIREMENTS	60"		WALL-BRACKET LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
IC LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT	PD	ROUND INDICATES CEILING MOUNTED, SQUARE INDICATES DUCT MOUNTED, PHOTOELECTRIC SMOKE DETECTOR		THERMOSTAT	-		RECESSED LUMINAIRE, APPROXIMATE SIZE INDICATED. ("NL", INDICATES NIGHT LIGHT
IC LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT LIMIT SWITCH	©	CARBON MONOXIDE DETECTOR, CEILING MOUNTED	CLG	6 MOTOR	-		· · · · · · · · · · · · · · · · · · ·
G LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT TRIP ADJUSTMENTS TO				Z T DRY TYPE TRANSFORMER			RECESSED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
BE PROVIDED ON A CIRCUIT BREAKER LOW VOLTAGE <b>TV</b> MASTER ANTENNA TV	FAA	FIRE ALARM ANNUNCIATION PANEL	56"			•••	SURFACE OR PENDANT MOUNTED LUMINAIRE, APPROXIMATE SIZE INDICATED
J MAIN BONDING JUMPER /ER MAIN CROSS-CONNECT/EQUIPMENT ROOM B MAIN CIRCUIT BREAKER	FAPS	FIRE ALARM POWER SUPPLY	-	SPD SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS.	-		SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
C MOTOR CONTROL CENTER P MAIN DISTRIBUTION PANEL	FAP	FIRE ALARM CONTROL PANEL	-	GAP GENERATOR ANNUNCIATOR PANEL	56"	•	PENDANT LUMINAIRE, APPROXIMATE SIZE INDICATED
I. MANHOLE (ON SITE PLAN) MOUNTING HEIGHT (ON PLAN), ALL MOUNTING HEIGHTS FOR DEVICE BOXES ARE FROM	F F	AUDIBLE AND VISIBLE NOTIFICATION APPLIANCE (HORN/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG		-		
FINISHED FLOOR TO BOTTOM OF BOX, UNO. VERIFY OUTLET LOCATIONS WITH OTHER TRADES BEFORE ROUGH-IN	<u> </u>		CLG	س JUNCTION BOX, PIGTAIL INDICATED FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT			PENDANT LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED
D       MAIN LUGS ONLY         D       MOTOR OPERATED DISCONNECT SWITCH         CP       MAXIMUM OVER-CURRENT PROTECTION	<u> </u>	(SPEAKER/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF					
BMAIN SWITCHBOARDCMOTOR STARTER CENTERDMOUNTED		VISIBLE NOTIFICATION APPLIANCE (STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG	CEILING PADDLE FAN WITH JUNCTION BOX SECURELY MOUNTED TO STRUCTURE	CLG		
G MOUNTING S MANUAL TRANSFER SWITCH MEDIUM VOLTAGE	Ū Ū	VOICE/ALARM COMMUNICATIONS LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 96" AFF	CLG	SC BD. ELECTRONIC SCOREBOARD, WALL MOUNTED. FURNISHED BY OTHERS INSTALLED BY DIV 26	_		
J MULTI-ZONE HVAC UNIT GROUNDED CIRCUIT CONDUCTOR (NEUTRAL)	F	MANUAL FIRE ALARM PULL STATION, AND AUDIBLE AND VISIBLE NOTIFICATION APPLIANCE ABOVE (HORN/STROBE), WALL MOUNTED	44"/80"				
INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVICE FROM FINISH FLOOR, UNO NOT APPLICABLE	F	MANUAL FIRE ALARM PULL STATION, WALL MOUNTED	44"				
NORMALLY CLOSED NONFUSIBLE SWITCH NOT IN CONTRACT		VOICE/ALARM COMMUNICATIONS HORN TYPE LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL	CLG				
NIGHT LIGHT NONMETALLIC SHEATHED CABLE NORMALLY OPEN	Š Š	MOUNTING AT 96" AFF					
INDRMALLY OPEN         IL       NATIONALLY RECOGNIZED TESTING LAB         INDRMALS       NOT TO SCALE	SD	SMOKE DAMPER ACTUATOR AND ASSOCIATED SMOKE DETECTOR, TYPE PER PLANS					
ON CENTER PD OVER-CURRENT PROTECTIVE DEVICE	FS	WATER FLOW SWITCH CONNECTION					
PUBLIC ADDRESS SYSTEM PULL BOX	sv	SUPERVISORY VALVE TAMPER SWITCH CONNECTION					
PNEUMATIC/ELECTRIC PROPELLER HEATER POST INDICATING VALVE	FH	SURFACE FIRE ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR				
PAIR PROPELLER UNIT HEATER	SH	SURFACE SECURITY ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR				
RELEASE RETURN AIR FAN RAIN-TIGHT	S	ELECTRONIC RELEASE DOOR CLOSER	-				
S REDUCE VOLTAGE STARTER SURFACE	В	FIRE ALARM BELL, WALL MOUNTED, WEATHERPROOF WHERE EXTERIOR MOUNTED	96"				
J SYSTEM BONDING JUMPER SIGNAL SOLID NEUTRAL	PV	POST INDICATOR VALVE TAMPER SWITCH					
SOLID NEUTRAL SPARE SPLICE OT SINGLE POLE DOUBLE THROW							
ST SINGLE POLE SINGLE THROW STAINLESS STEEL							
3J     SUPPLY-SIDE BONDING JUMPER       SHUNT TRIP       P     SHIELDED TWISTED PAIR							
CARBON STEEL SP SUSPENDED SWITCH							
BD SWITCHBOARD TELEPHONE CABINET							
<ul> <li>TEMPERATURE CONTROL PANEL</li> <li>/DATA TELEPHONE/DATA</li> </ul>							
TELEPHONE RM TERMINAL(S) B TELECOMMUNICATIONS GROUNDING							
BUSBAR GB TELECOMMUNICATIONS MAIN GROUNDING							
BUSBAR TELEPHONE TERMINATION BOARD							
<ul> <li>UTILITY EXHAUST FAN UNDERGROUND</li> <li>UNLESS NOTED OTHERWISE</li> </ul>							
UNIT VENTILATOR							
VANDAL GUARQ, POLYCARBONATE COVER 👌 🛆							
VANDAL GUARD, POLYCARBONATE COVER VERIFY IN FIELD VAPOR-TIGHT							
VERIFY IN FIELD $\land$ $\land$ $\checkmark$							

# ELECTRICAL GENERAL NOTES

1.	THE TERM "PROVIDE" INDICATES CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS
	REQUIRED TO OBTAIN A COMPLETE AND OPERABLE SYSTEM.
2.	COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL PLANS, CASEWORK, WINDOWS, WALL FINISHES, EQUIPMENT , AND OTHER TRADES PRIOR TO ROUGH IN. DEVICES ARE INTENDED TO BE ACCESSIBLE, DO
	NOT INSTALL BEHIND CASEWORK, DOORS OR EQUIPMENT UNLESS INDICATED ON PLANS. NOTIFY ARCHITECT IN WRITING OF CONFLICTS PRIOR TO PROCEEDING WITH WORK.
3.	WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE AND NATIONAL
	CODES INCLUDING, BUT NOT LIMITED TO NFPA 70 (NATIONAL ELECTRIC CODE), NFPA 72, NFPA 101, INTERNATIONAL BUILDING CODE, ETC.
4.	CONFLICTS BETWEEN THE APPLICABLE CODES, STANDARDS, AND THE PLANS AND SPECIFICATIONS
<u>/1</u>	SHALL BE/SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK. REFER TO E7 SERIES FOR PANEL SCHEDULES.
6. 7.	E3 SERIE'S DRAWINGS ARE FOR TECHNOLOGY ROUGH-INS REFER TO TECHNOLOGY PLANS, T1 SERIES FOR COMMUNICATIONS, SECURITY AND ACCESS CONTROL.
7. 8.	CONTRACTOR SHALL FOLLOW SEISMIC RESTRANT AND DESIGN REQUIREMENTS CONTAINED IN LATEST
9.	ADOPTED STATE AND INTERNATIONAL BUILDING CODES WITH ALL AMENDMENTS AS ADOPTED. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS
5.	SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A
10.	COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE
	STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
11.	INITIATING WORK CONSTITUTES CONTRACTOR ACCEPTANCE OF THE EXISTING CONDITIONS ASSOCIATED WITH THE WORK IN QUESTION.
12.	CONTRACTOR SHALL CONTACT UTILITIES AND VERIFY UTILITY REQUIREMENTS PRIOR TO COMMENCING
	CONSTRUCTION. CONFLICTS BETWEEN UTILITY REQUIREMENTS AND THE PLANS OR SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK.
	CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE UTILITY COMPANY TO REVIEW
	REQUIREMENTS. INCOMING SERVICE CONDUITS AND SUBSTRUCTURES SHALL BE INSTALLED PER UTILITY COMPANY STANDARDS.
13.	THESE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS RESPONSIBLE FOR CONSTRUCTION
	MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFE PRACTICES.
14.	DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION, JUNCTION BOX, WIRE, AND CONDUIT, ETC. THE EXACT LOCATIONS AND ARRANGEMENT OF PARTS SHALL BE
	DETERMINED AS THE WORK PROGRESSES. ITEMS NOT INDICATED ON DRAWINGS REASONABLY
	INFERRED TO BELONG TO THE WORK DESCRIBED SHALL BE FURNISHED AND INSTALLED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
15.	WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS, NEW CONSTRUCTION, OWNER'S VENDORS,
	OTHER TRADES, AND THEIR DOCUMENTS. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID. CONTRACTOR SHALL CONTACT OWNER FOR AN APPOINTMENT TO VISIT THE SITE.
16.	AN INSULATED GROUND CONDUCTOR SIZED PER NEC SHALL BE PROVIDED WITH EACH FEEDER AND BRANCH CIRCUIT.
17.	PROVIDE A DEDICATED NEUTRAL FOR EACH LINE TO NEUTRAL CIRCUIT. MULTI-WIRE BRANCH CIRCUITS
18.	ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED ON PLANS. MINIMUM WIRE SIZE IS #12 AWG. SEE SPECIFICATIONS FOR MINIMUM CONDUIT SIZE.
10. 19.	CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE ABOVE CEILINGS, INSIDE WALLS, OR UNDER
	FLOOR SLAB WHERE SHOWN ON DRAWINGS. IN AREAS WITH NO CEILING, RUN EXPOSED CONDUIT AS HIGH AS POSSIBLE AND PARALLEL TO NEARBY SURFACES OR EXISTING RACEWAYS. CONDUIT SHALL NOT
	BE INSTALLED IN FLOOR SLAB UNLESS SPECIFICALLY INDICATED ON PLANS AND WHERE APPROVED BY
20.	STRUCTURAL ENGINEER. DO NOT INSTALL MC CABLE IN EXPOSED LOCATIONS. CONTRACTOR SHALL PROVIDE RIGID METAL SLEEVES TO FACILITATE PATHWAYS THROUGH FULL HEIGHT
	WALLS FOR ELECTRICAL AND TELECOMMUNICATION WIRING.
21.	PROVIDE TEMPORARY OR PERMANENT END CAPS FOR STUBBED CONDUITS. PROVIDE INSULATED THROAT BUSHINGS FOR CONDUITS INTENDED TO REMAIN OPEN ENDED.
22.	SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED ASSEMBLIES AND SMOKE BARRIERS. SEAL PENETRATIONS IN ACCORDANCE WITH UL AND PROJECT SPECIFICATIONS.
23.	MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO BOTTOM
	OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO.
24.	PROVIDE SOUND INSULATING PUTTY AROUND DEVICES INSTALLED ON OPPOSITE SIDES OF A WALL IN
	THE SAME VERTICAL CHANNEL. IF DEVICES ARE LOCATED AT LEAST 8" HORIZONTALLY APART NO SOUND INSULATING PUTTY IS REQUIRED.
25.	COORDINATE CEILING MOUNTED DEVICES WITH MECHANICAL AND ARCHITECTURAL REFLECTED CEILING
26.	PLANS. NOTIFY ARCHITECT IN WRITING OF CONFLICTS PRIOR TO PROCEEDING WITH WORK. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36"
	ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
27.	CONDUITS DESIGNATED AS EMPTY OR FUTURE SHALL BE PROVIDED WITH A #12 PULL LINE. OPEN ENDED
28.	CONDUITS SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS. FOR LUMINAIRES, CIRCUIT NUMBER IS SHOWN ONLY ONCE IN EVERY ROOM. PROVIDE CIRCUIT
	INDICATED TO EVERY LIGHT FIXTURE INDICATED IN SAME ROOM UNLESS OTHERWISE INDICATED.
29.	QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP
20	DRAWING SUBMITTAL.
30.	ELECTRICAL PANELS INCLUDING BUT NOT LIMITED TO FIRE ALARM CONTROL PANELS, LIGHTING CONTROL PANELS, POWER DISTRIBUTION WILL HAVE A MAX DEVICE HEIGHT OF 72" AFF.
31.	PROVIDE GROUNDING TYPE EXPANSION FITTINGS OR OTHER APPROVED METHODS TO ALLOW FOR EXPANSION, CONTRACTION, AND DEFLECTION WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
32.	PROVIDE SEPARATE RACEWAY FOR EMERGENCY SYSTEM WIRING PER NEC ARTICLE 700. MINIMUM WIRE
33.	SIZE #10AWG. ALL CONDUITS SHALL INCLUDE AN INSULATED GROUND WIRE, SIZED PER N.E.C.
33. 34.	AUTODOORS AND WHEELCHAIR LIFT PROVIDED AND INSTALLED BY OTHERS. PROVIDE CONDUIT AND
	BOX ROUGH-INS FOR MOTORS AND PUSHBUTTONS. MAKE FINAL POWER CONNECTIONS. ALL CONTROL WIRING BY OTHERS.
35.	MASONRY LOAD-BEARING WALLS AND MASONRY SHEAR WALLS: DO NOT PENETRATE CMU WALLS
	INDICATED AS BEARING WALLS AND SHEAR WALLS ON STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE ON PLAN. DO NOT CORE THROUGH CMU BOND BEAMS OR LINTELS. DO NOT CUT ANY
	VERTICAL REINFORCING IN CMU WALLS. OBTAIN PRIOR APPROVAL FROM ENGINEER BEFORE
36.	PENETRATING ANY OF THE STRUCTURAL ELEMENTS LISTED ABOVE. CONCRETE BEARING WALLS AND BEAMS: DO NOT PENETRATE CONCRETE WALLS INDICATED AS
- • •	BEARING WALLS AND SHEAR WALLS ON STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE ON PLAN.
	DO NOT CORE THROUGH CONCRETE BEAMS , GIRDERS, OR COLUMNS. DO NOT CUT ANY VERTICAL REINFORCING IN CONCRETE WALLS. OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER BEFORE
	PENETRATING ANY OF THE STRUCTURAL ELEMENTS LISTED ABOVE.
37.	STEEL FRAMING: DO NOT CUT OR CORE THROUGH ANY STRUCTURAL STEEL BEAMS, GIRDERS, OR COLUMNS UNLESS NOTED OTHERWISE ON PLAN. NOTIFY ENGINEER OF POTENTIAL CONFLICTS BETWEEN
20	FRAMING AND ELECTRICAL WORK.
38.	CONCRETE FLOOR SYSTEMS (APPLIES TO CONCRETE BLDG. OR STEEL WITH CONCRETE DECK, MASONRY W/ CONC. FLOOR): DO NOT CUT HOLES OR CORE THROUGH CONCRETE FLOOR SLAB UNLESS
	NOTED OTHERWISE ON PLAN OR IN TYPICAL STRUCTURAL DETAILS. PENETRATIONS THROUGH EXISTING SLABS SHALL BE X-RAYED PRIOR TO CORING HOLES. NO EXISTING REINFORCEMENT SHALL BE CUT
	WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER. PENETRATIONS THROUGH EXISTING BEAMS AND
	COLUMNS IS NOT PERMITTED.

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CONSTRUCTION DOCUMENTS

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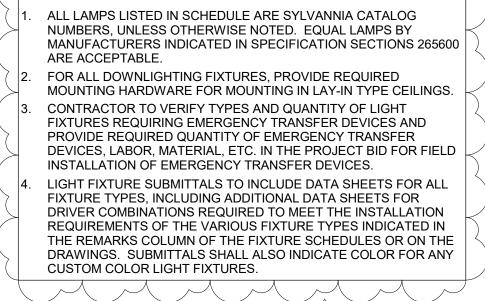
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ELECTRICAL SYMBOL LEGEND



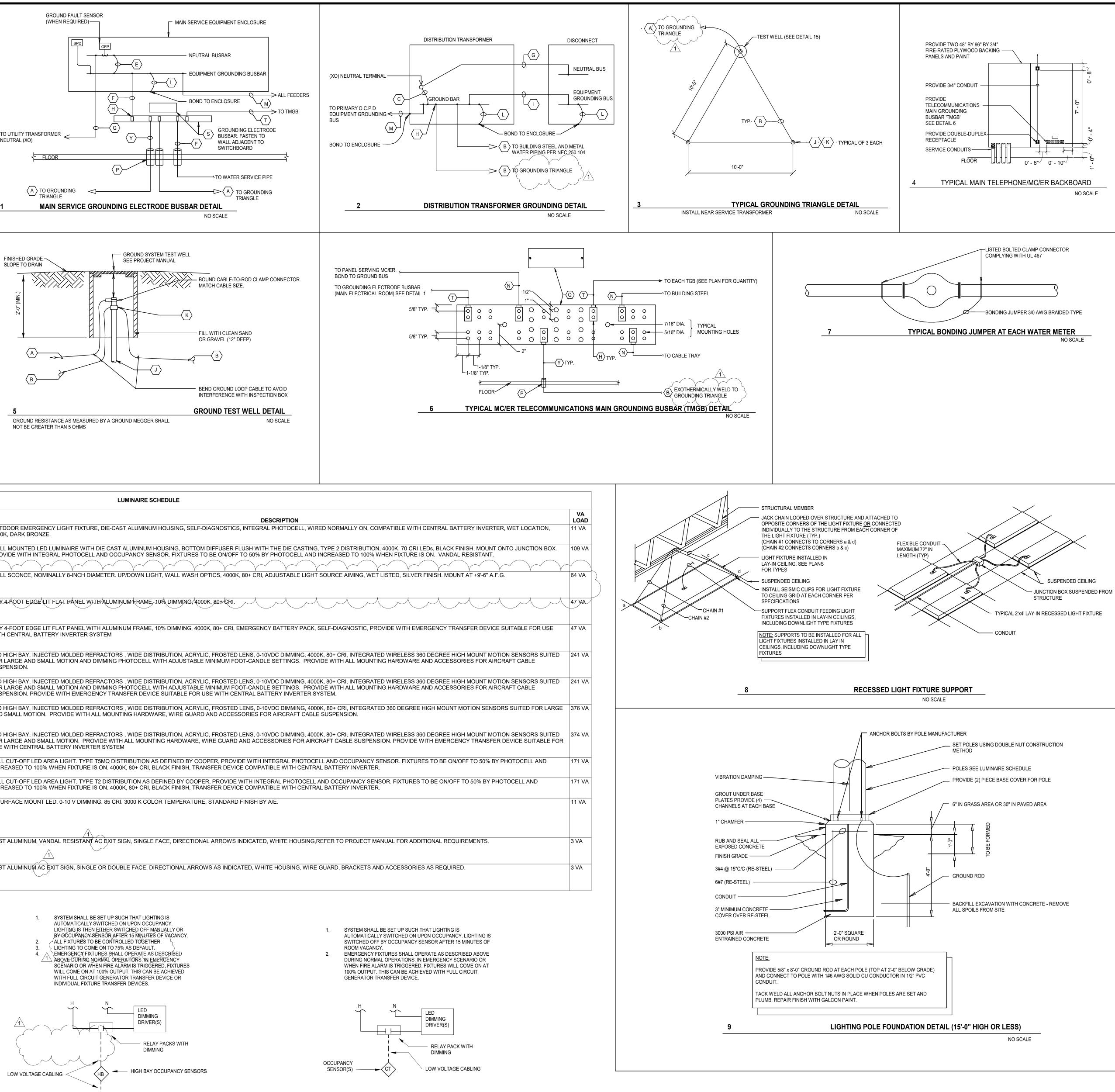
RO	UNDING CODE	D NO	TES:							GROUN (WHEN
			E, TINNED, STRANDED, COPPER-CONDU CE OF 800 AMP OR LESS USE #2/0 AWG. F							
$\sum$			NNED, STRANDED, COPPER-CONDUCTO			GREATER		41VIP USE #4/	/0 AWG.	
/	IRREVERSIBLE, COPPER, COMPR									
/			NNECTOR. (CABLE TO TRAY) BOND EACH			NER TEE	ETC			
			FACTURER AS PART OF LISTED AND LAE					BY MANUFA	CTURER.	
	PROVIDE #4/0 BARE, TINNED, STR	RANDED, CO	PPER-CONDUCTOR.							
			AWG STRANDED, BARE, COPPER IN PVC							TO UTILITY TRANSFORMER NEUTRAL (XO)
			R TO ONE-LINE DIAGRAM FOR CONDUCT	DR SIZE).						
	PROVIDE UL 467 LISTED COMPRE SYSTEM BONDING JUMPER CONE		NECTORS, TWO-HOLE LUGS. STEM BONDING JUMPER CONDUCTOR T	) BE RUN IN EACH (	CONDU	T CONTAIN	ING PHAS	E CONDUCT	ORS	<del>م FLOOR</del>
			DARY DISCONNECT. (REFER TO ONE-LIN							
	10 FOOT BY 3/4" COPPER WELD G	ROUND RO	D. TOP OF RAD SHALL BE 12" MINIMUM B	ELOW FINISHED GR	ADE.					
	8 FOOT BY 5/8" COPPER WELD GF	ROUND ROE	). TOP OF ROD SHALL BE 12" MINIMUM BE	LOW FINISHED GRA	ADE.					<u>1 MAIN S</u>
	PROVIDE EXOTHERMIC WELD FO	R ALL CABL	E TO ROD, CABLE TO CABLE, OR CABLE	TO STEEL CONNEC	TIONS.					
	EQUIPMENT BONDING JUMPER S BE USED WHEN PROVIDED AS PA		BARE, COPPER. (<110A USE #6, <410A US ED SERVICE EQUIPMENT.	E #2, <810A USE #2/	0, <2100	)A USE #4/(	)) SCREW	OF BUSBAR	MAY	
	EQUIPMENT GROUNDING CONDU	CTOR (REFI	ER TO ONE LINE DIAGRAM FOR CONDUC	TOR SIZE).						
	TELECOMMUNICATIONS BONDING	G BACKBON	E: #4/0 AWG STRANDED BARE COPPER.							SLOPE TO DRAIN
	BONDING CONDUCTOR: 6 AWG S	TRANDED B	ARE COPPER.							
	1" PVC SLEEVE FOR ALL GROUNE	DING CONDU	JCTORS THROUGH FLOOR SLABS. NEVE	R ROUTE GROUNDI	NG CON	IDUCTORS	IN A META	L CONDUIT.		2'-0" (MIN.)
	ENGRAVED NAMEPLATE, SCREW	ED TO WAL	ED COPPER BUSBAR, 4" x 20" x 1/4" WITH L, 6" ABOVE GROUNDING BUS BAR WHIC DING TELECOMMUNICATIONS MANAGER"	À READS "IF THESE					OR	5.0
	PROVIDE UL 467 LISTED, ELECTR	O-TIN-PLATE	ED COPPER BUSBAR, 2" x 12" x 1/4" WITH ., 6" ABOVE GROUNDING BUS BAR WHICH	(2) 2-INCH INSULAT					OR	V V
	MUST BE REMOVED, PLEASE CAL	L THE BUILI	DING TELECOMMUNICATIONS MANAGER							
PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 4" x 20" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE, SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS "WARNING - SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE										
CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE (GENERATOR) IS ENERGIZED".									DE	
	CONDUCTOR OR BONDING JUMP	ER CONNEC	CTION IN THIS EQUIPMENT IS REMOVED V	HILE ALTERNATE S	SOURCE	(GENERA	TOR) IS EN	IERGIZED".		В
	CONDUCTOR OR BONDING JUMP	ÉR CONNEC	CTION IN THIS EQUIPMENT IS REMOVED V	/HILE ALTERNATE S WG BARE, TINNED,	SOURCE	(GENERA	TOR) IS EN	IERGIZED".		(B)}
	CONDUCTOR OR BONDING JUMP CONTINUOUS, UNSPLICED BOND BRAIDED ALUMINUM CABLE FOR	ÉR CONNEC ING CONDU LIGHTING D	CTION IN THIS EQUIPMENT IS REMOVED V	/HILE ALTERNATE S WG BARE, TINNED, IFPA 780.	SOURCE	E (GENERA <sup>-</sup> DED, COPF	TOR) IS EN PER-COND	iergized". Uctor in C		
	CONDUCTOR OR BONDING JUMP CONTINUOUS, UNSPLICED BONDI BRAIDED ALUMINUM CABLE FOR CONNECT GROUND CABLE TO EX	ÉR CONNEC ING CONDU LIGHTING D KISTING SER	CTION IN THIS EQUIPMENT IS REMOVED V CTOR FOR TELECOMMUNICATIONS: 2/0 A OWNRUNNER. SUPPORT SPACING PER N	/HILE ALTERNATE S WG BARE, TINNED, IFPA 780. Y TRANSFORMER C	SOURCE STRAN	E (GENERA DED, COPF	TOR) IS EN PER-COND DARD GRO	iergized". Uctor in C	ABLE TRAYS.	
> > > >	CONDUCTOR OR BONDING JUMP CONTINUOUS, UNSPLICED BONDI BRAIDED ALUMINUM CABLE FOR CONNECT GROUND CABLE TO EX CONNECT TO EXISTING BUILDING WELD A MINIMUM 6" x 3" x 1/4" STE	ÈR CONNEC ING CONDU LIGHTING D (ISTING SER GROUND L EEL PLATE 1	CTION IN THIS EQUIPMENT IS REMOVED V CTOR FOR TELECOMMUNICATIONS: 2/0 A OWNRUNNER. SUPPORT SPACING PER N VICE GROUNDING ELECTRODE AT UTILIT OOP IF FOUND, DISTURBED, OR DAMAGE TO UNDERSIDE OF BOTTOM FLANGE OF F	IHILE ALTERNATE S WG BARE, TINNED, IFPA 780. Y TRANSFORMER C D, PROVIDE K ROOF JOIST. THE ST	SOURCE STRAN DR MAIN AT ALI EEL PL	E (GENERA DED, COPF I SWITCHBO SPLICES / ATE SHALL	TOR) IS EN PER-COND DARD GRO AND NEW BE WELD	IERGIZED". UCTOR IN C. DUND BAR. CABLE CONI ED TO THE E	ABLE TRAYS. NECTIONS. BOTTOM	_5
> > >	CONDUCTOR OR BONDING JUMP CONTINUOUS, UNSPLICED BONDI BRAIDED ALUMINUM CABLE FOR CONNECT GROUND CABLE TO EX CONNECT TO EXISTING BUILDING WELD A MINIMUM 6" x 3" x 1/4" STE FLANGE USING A NORMAL WELD CONDUCTOR TO THE STEEL PLAT	ÈR CONNEC ING CONDU LIGHTING D (ISTING SER GROUND L EEL PLATE T ING PROCEI IE AT LEAST	CTION IN THIS EQUIPMENT IS REMOVED V CTOR FOR TELECOMMUNICATIONS: 2/0 A OWNRUNNER. SUPPORT SPACING PER N VICE GROUNDING ELECTRODE AT UTILIT OOP IF FOUND, DISTURBED, OR DAMAGE TO UNDERSIDE OF BOTTOM FLANGE OF F DURE WITH WELDS PARALLEL TO THE BO T 1" AWAY FROM FLANGE, USING AN EXO	IHILE ALTERNATE S WG BARE, TINNED, IFPA 780. Y TRANSFORMER C D, PROVIDE K COOF JOIST. THE ST DITTOM FLANGE ALC THERMIC WELD.	SOURCE STRAN DR MAIN AT ALI EEL PL DNG TH	E (GENERA DED, COPF I SWITCHBO SPLICES / ATE SHALL E EDGE. TH	TOR) IS EN PER-COND DARD GRO AND NEW BE WELD EN BOND	IERGIZED". UCTOR IN C. DUND BAR. CABLE CONI ED TO THE E	ABLE TRAYS. NECTIONS. BOTTOM	
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								INCR
LS0423K	VISA AVATAR SERIES EVERGREEN WH1 SERIES G LIGHTING BEAM SERIES BROWNLEE 7612 SERIES CGF BSC SERIES SAL S9105 SERIES	SURFACE	1	11 W	LED	1500 lm	277 V	2' SU
XVW	LITHONIA LV SERIES SURE-LITES UX SERIES CHLORIDE 60 LINE SERIES DUAL-LITE SEWL SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST
XW	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST
	LUMINAIRE SCHEDULE - GI	ENERAL NO	TES		2		_	
NUM	LAMPS LISTED IN SCHEDULE ARE S IBERS, UNLESS OTHERWISE NOTEI IUFACTURERS INDICATED IN SPECI	D. EQUAL LAMP	SBY	-				



LOW VOLTAGE CABLING

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



LIGHTING CONTROL - LOBBIES/RESTROOM SCALE: 1/8" = 1'-0"

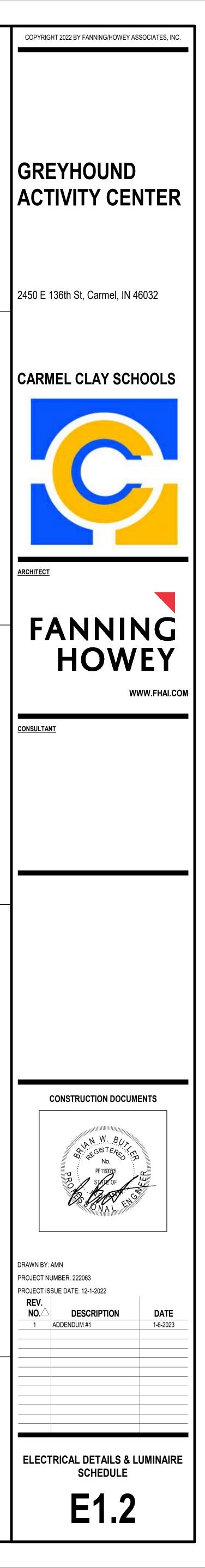
**LIGHTING CONTROLS - FIELDHOUSE** 

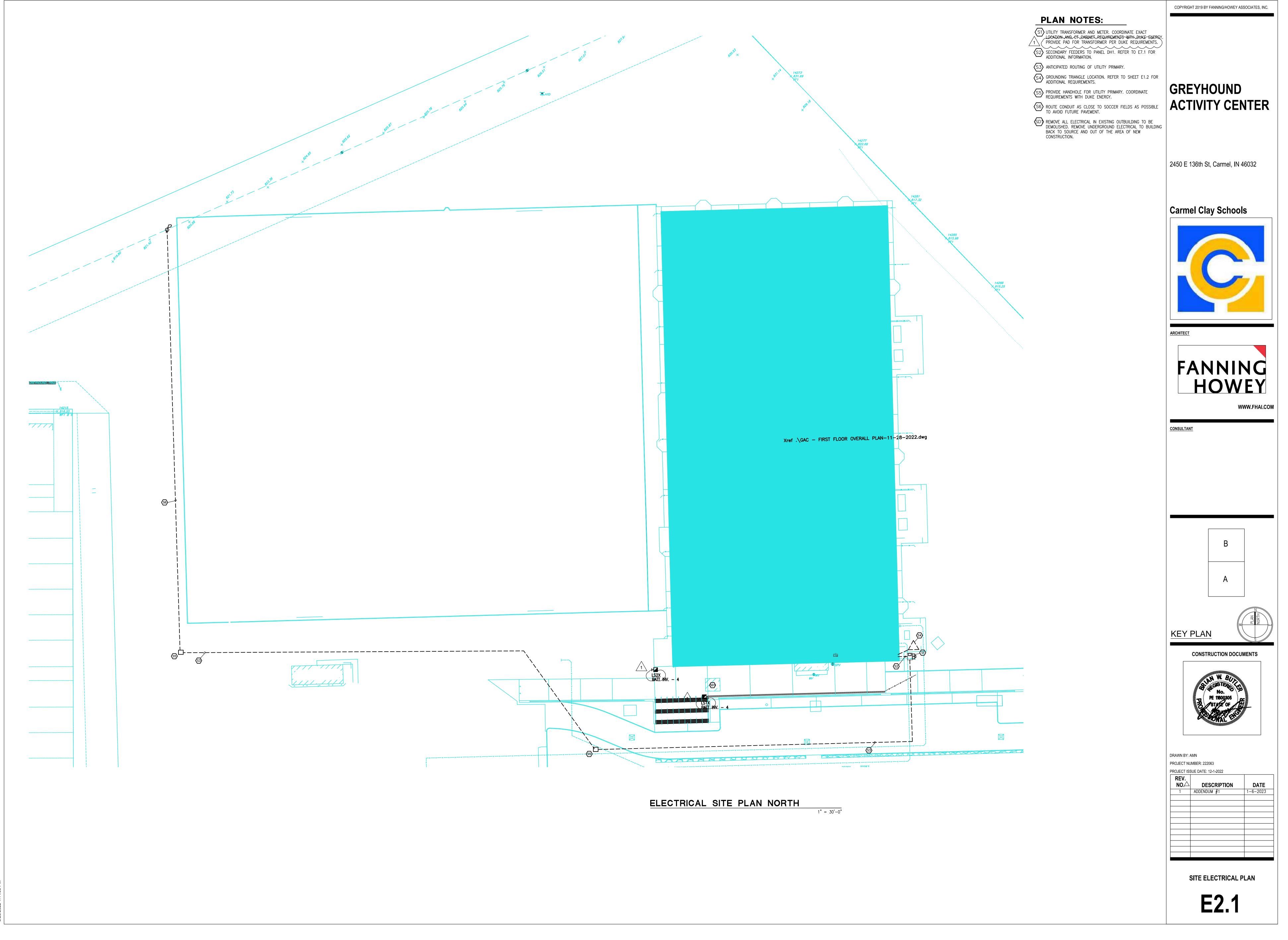
- WALL SWITCH

□ 100%

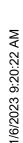
□75%

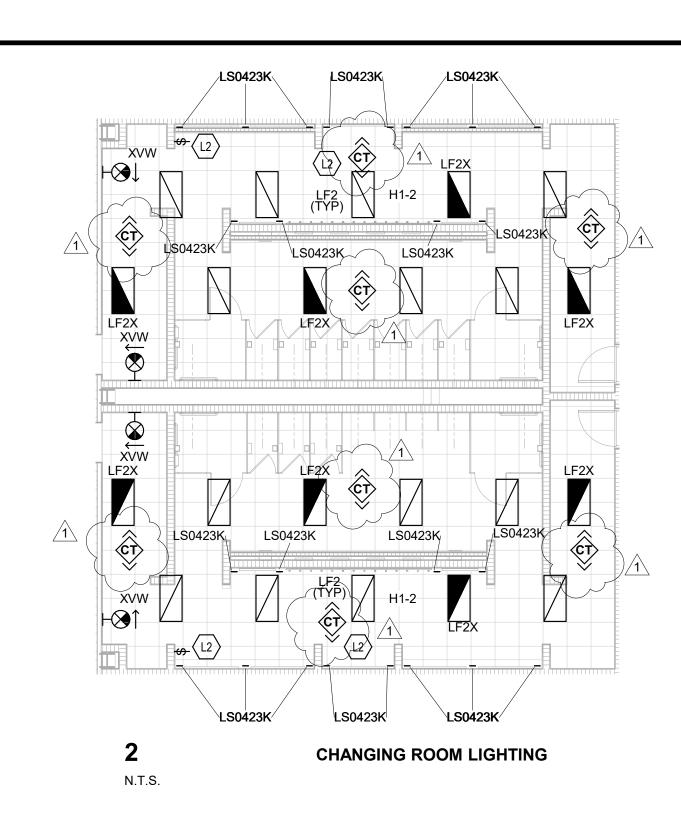
□ 30% RAISE LOWER DOFF

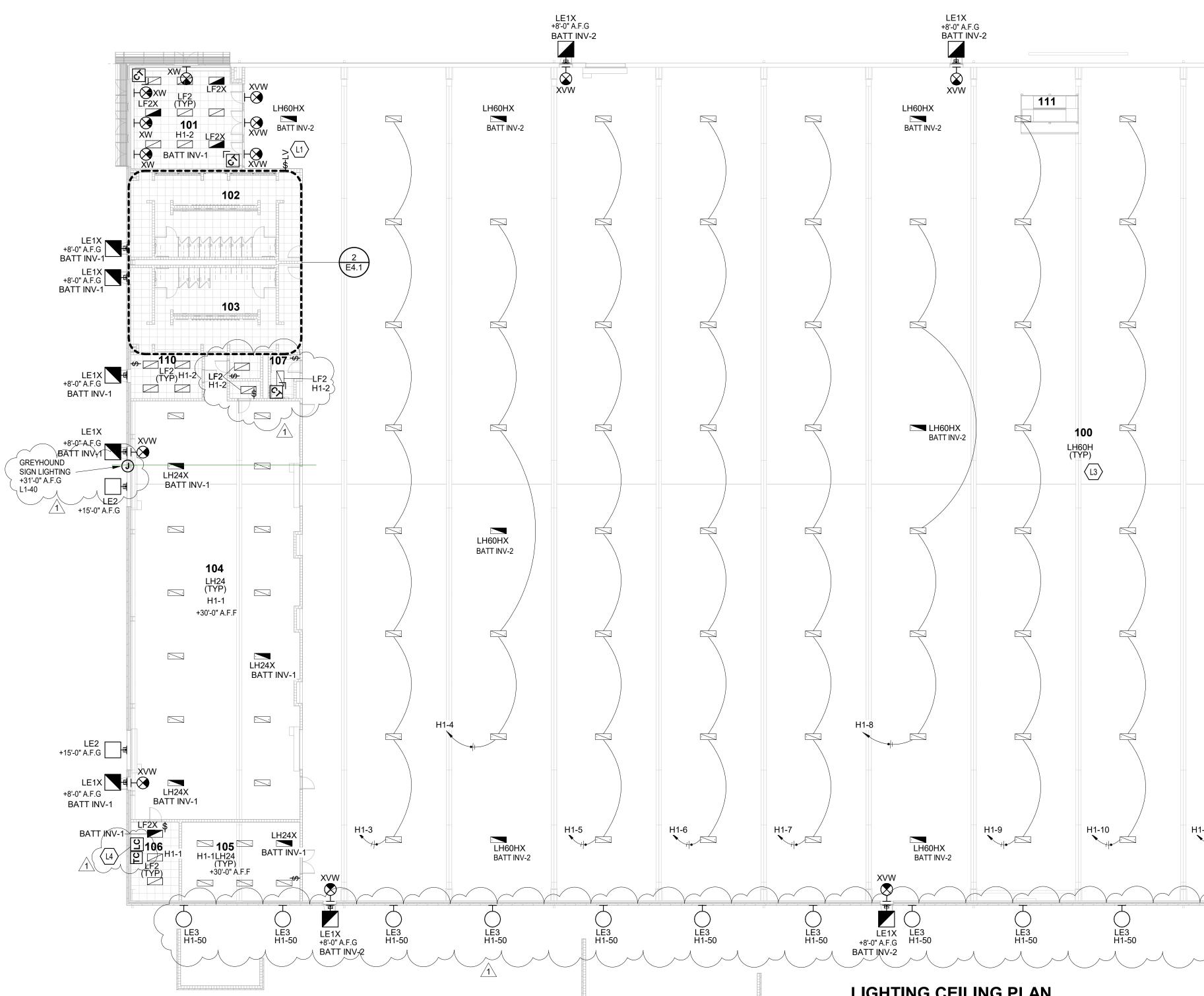




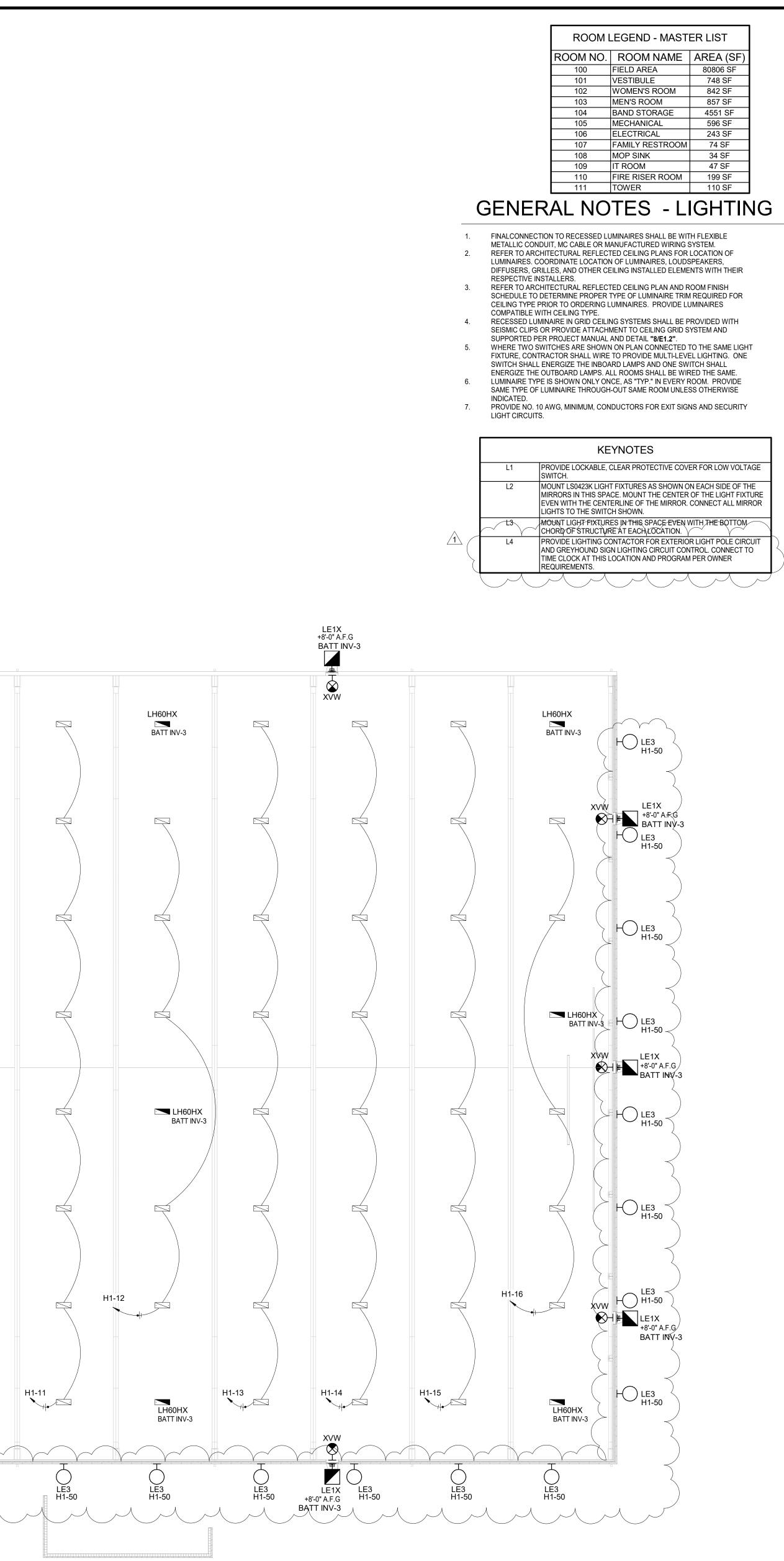


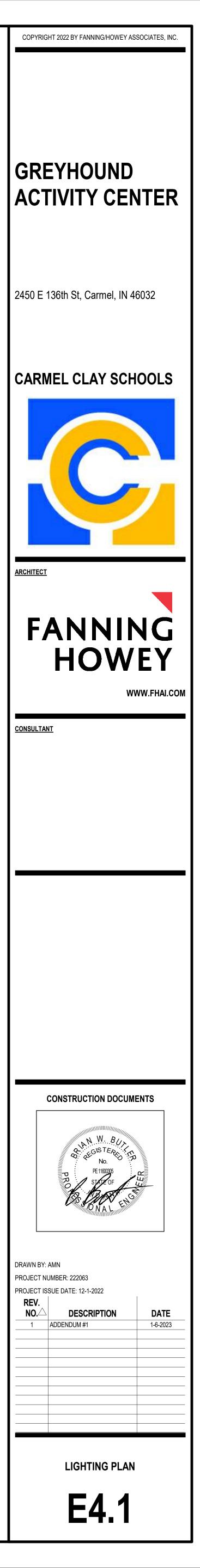


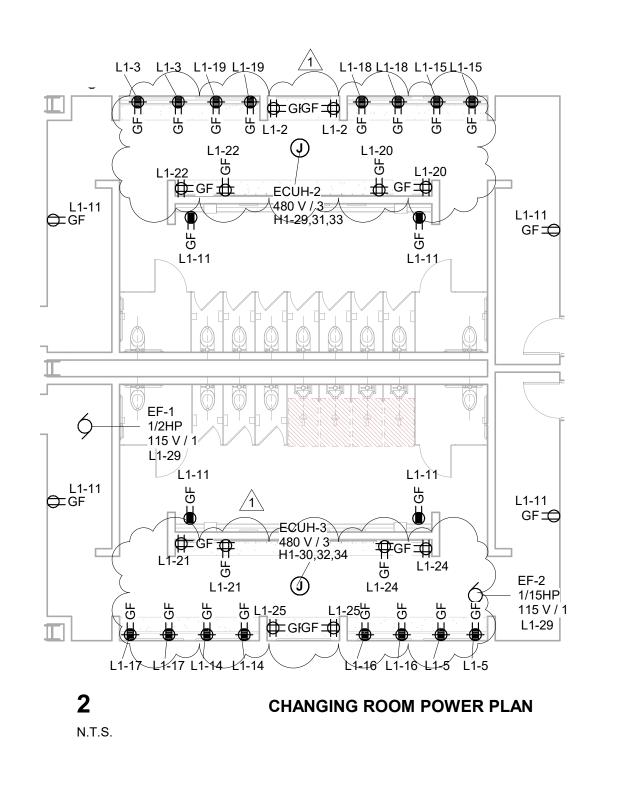


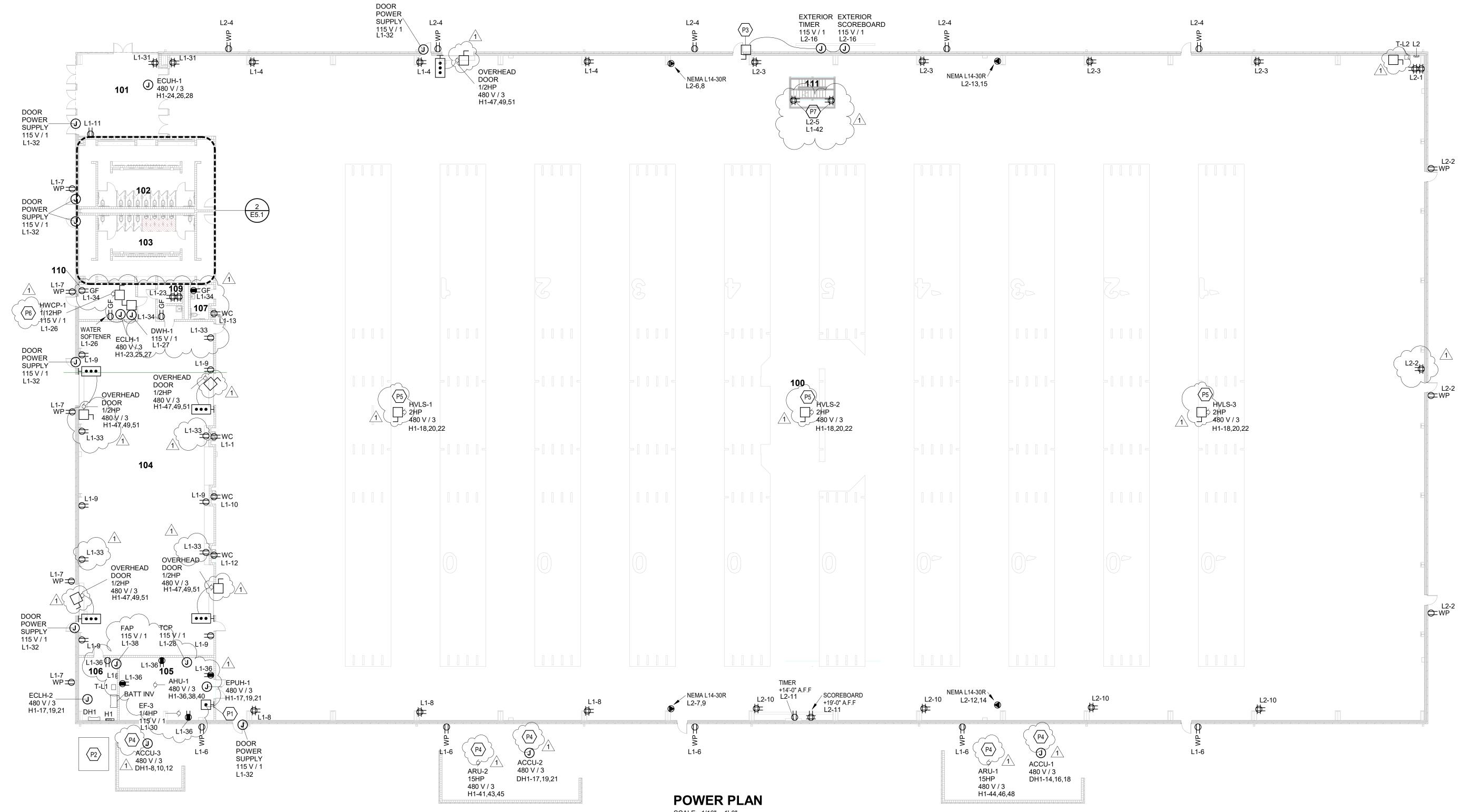


LIGHTING CEILING PLAN SCALE: 1/16" = 1'-0"









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

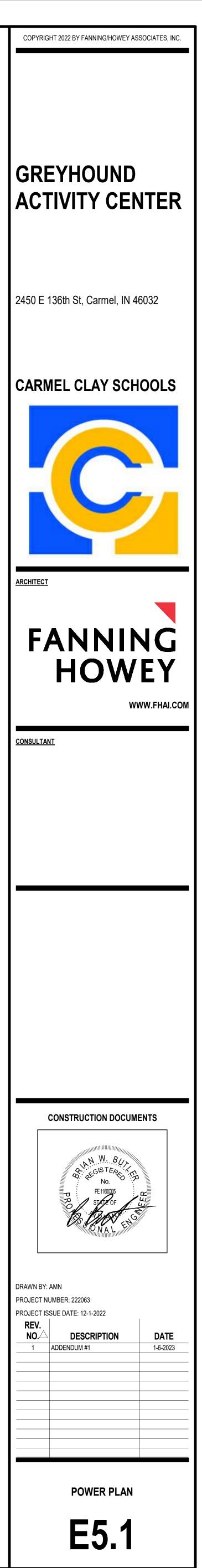
ROOM LEGEND - MASTER LIST							
ROOM NO.	ROOM NAME	AREA (SF)					
100	FIELD AREA	80806 SF					
101	VESTIBULE	748 SF					
102	WOMEN'S ROOM	842 SF					
103	MEN'S ROOM	857 SF					
104	BAND STORAGE	4551 SF					
105	MECHANICAL	596 SF					
106	ELECTRICAL	243 SF					
107	FAMILY RESTROOM	74 SF					
108	MOP SINK	34 SF					
109	IT ROOM	47 SF					
110	FIRE RISER ROOM	199 SF					
111	TOWER	110 SF					

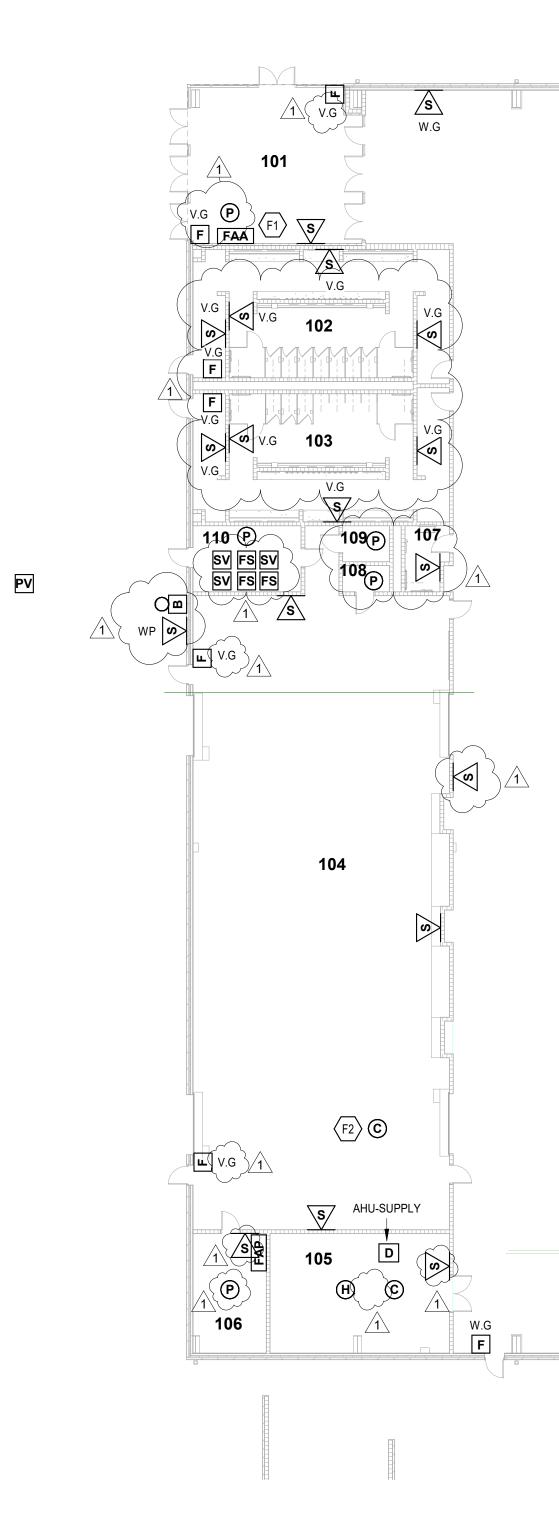
## **GENERAL NOTES - POWER**

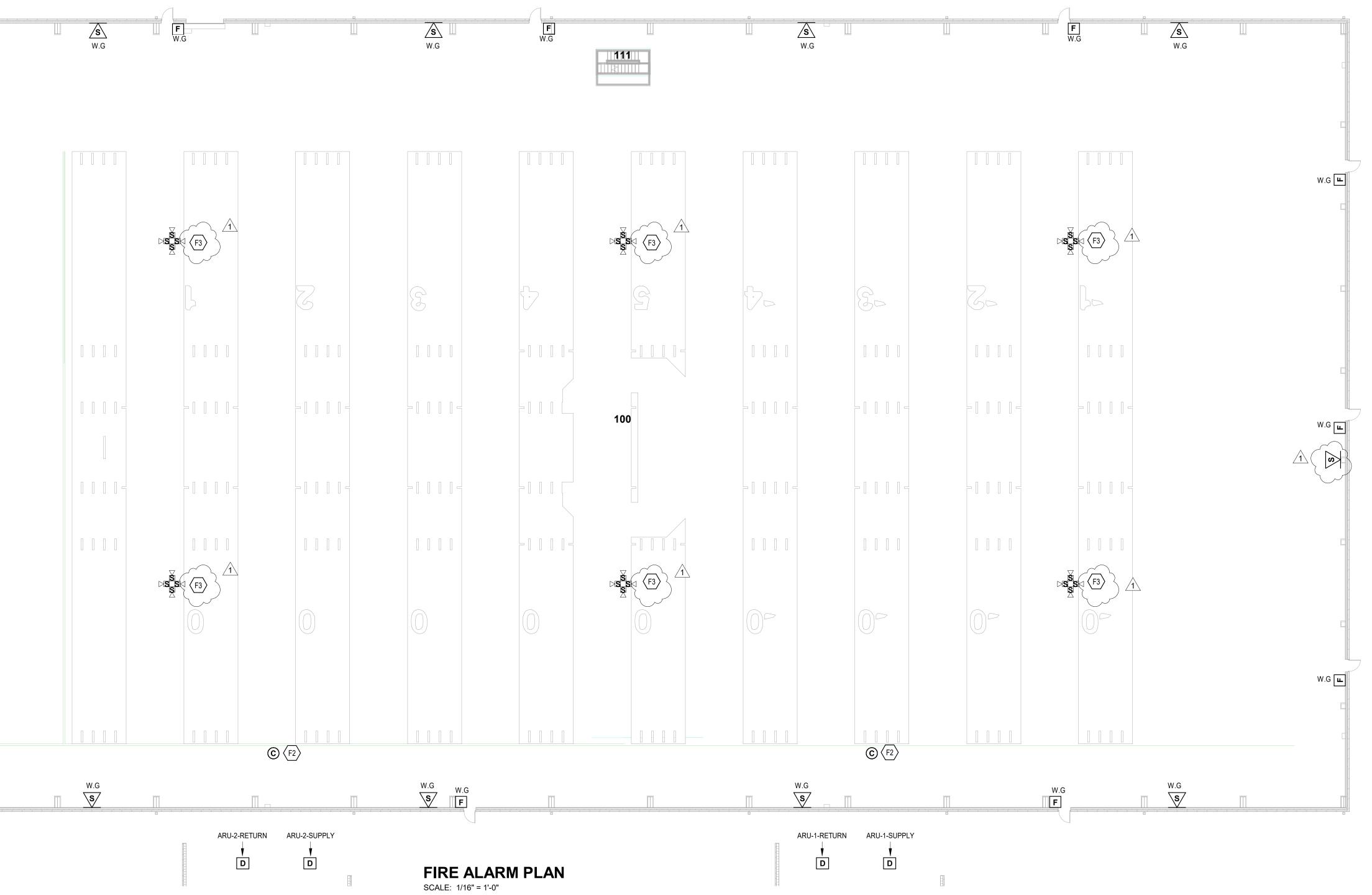
- PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT 1. INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS
- ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION. 2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED
- PROJECTOR BRACKET, 96" A.F.F. UNO. 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. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE 4.
- OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED 5. DEVICE.
- CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR 6. VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
- REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL 8
- CONTROL WIRING AND CONTROL CONNECTIONS. 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.

	KEYNOTES
P1	CONNECT EMERGENCY STOP PUSHBUTTON TO SHUNT TRIP CIRCUIT BREAKER FOR AHU-1 IN PANEL H1.
P2	UTILITY TRANSFORMER AT THIS LOCATION. REFER TO E2.1 FOR ADDITIONAL INFORMATION.
P3	MOUNT NEMA 3R DISCONNECT FOR EXTERIOR SCOREBOARD AND TIMER TO THE SIDE OF THE POST FOR THE SCOREBOARD.
P4	CONNECT THROUGH FACTORY PROVIDED DISCONNECT.
P5	COORDINATE LOCATION OF FAN CONTROLLER WITH OTHER TRADES AND INSTALL COMPLETE.
> P6	PROVIDE AQUASTAT CONTROL OF HOT WATER CIRCULATING PUMP.
P7	PROVIDE A PAIR OF QUAD RECEPTACLES AT BOTH BALCONY LEVELS ON THE DIRECTORS TOWER, 4 RECEPTACLES IN TOTAL. CIRCUIT RECEPTACLES TOGETHER ON EACH BALCONY. UTILIZE THE 2 CIRCUITS SHOWN.





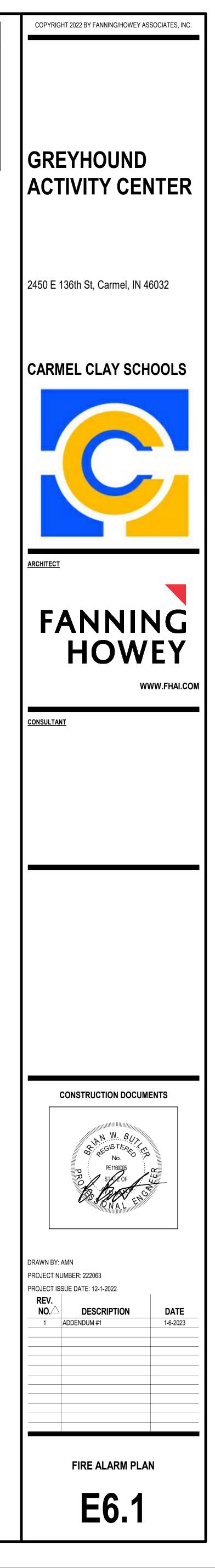


ROOM LEGEND - MASTER LIST						
ROOM NO.	ROOM NAME	AREA (SF				
100	FIELD AREA	80806 SF				
101	VESTIBULE	748 SF				
102	WOMEN'S ROOM	842 SF				
103	MEN'S ROOM	857 SF				
104	BAND STORAGE	4551 SF				
105	MECHANICAL	596 SF				
106	ELECTRICAL	243 SF				
107	FAMILY RESTROOM	74 SF				
108	MOP SINK	34 SF				
109	IT ROOM	47 SF				
110	FIRE RISER ROOM	199 SF				
111	TOWER	110 SF				

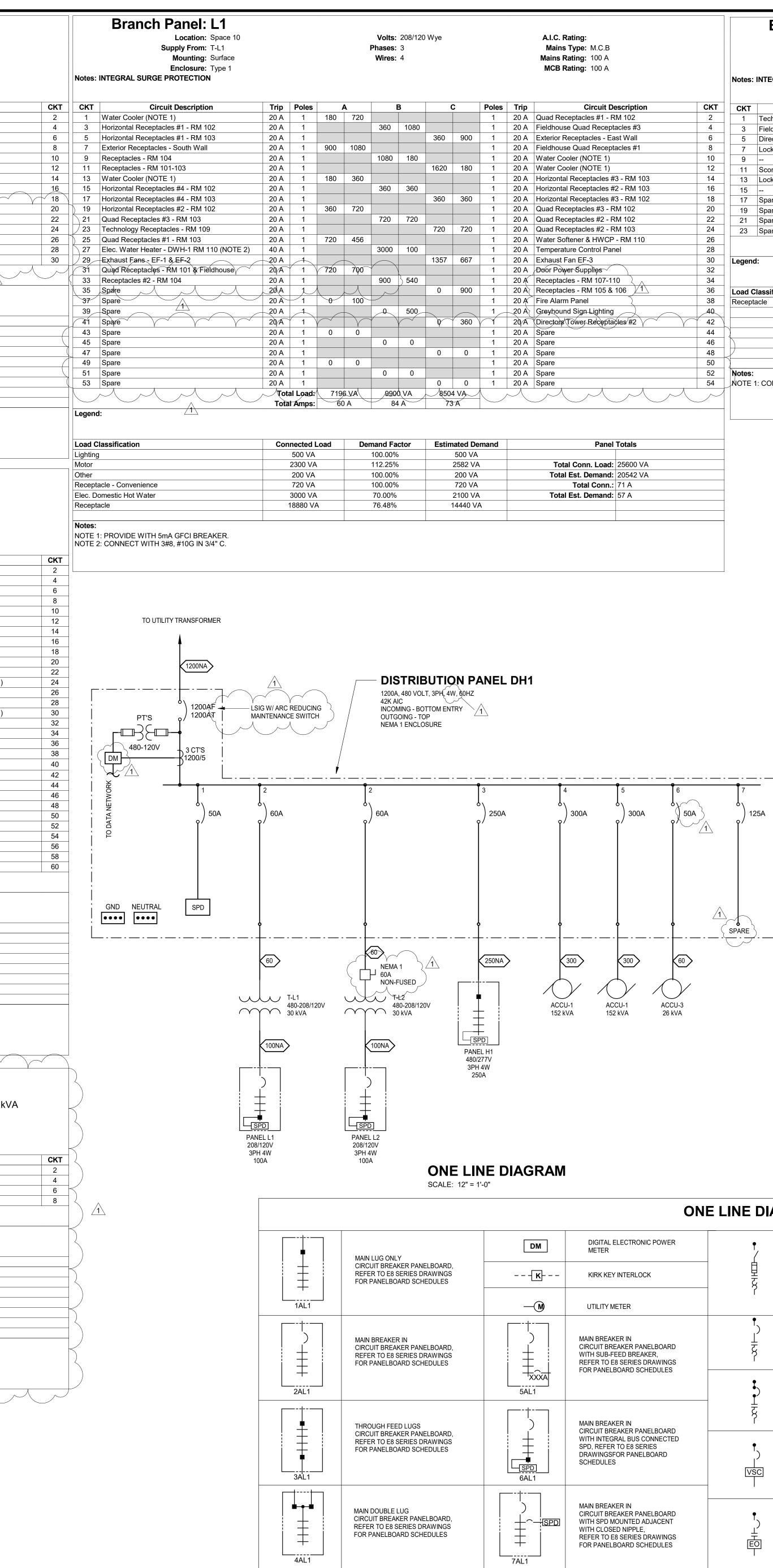
## GENERAL NOTES - FIRE ALARM

QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL. 1

	KEYNOTES
F1	PROVIDE MIRCROPHONE-IN LOCKING-CABINET.
F2 \	MOUNT CARBON MONOXIDE DETECTOR NEAR HVAC DIFFUSER.
F3	MOUNT SPEAKERS EVEN WITH THE BOTTOM CHORD OF STRUCTURE.
	$\begin{array}{c} \\ \\ \\ \\ \\ \end{array}$



Trip         Circuit Description           60 A         T-L2                   50 A         ACCU-3
 50 A ACCU-3 
300 A     ACCU-1           125 A     Spare           50 A     SPD
Panel Totals         Image: Constant of the state of
A.I.C. Rating: Mains Type: M.L.O Mains Rating: 250 A MCB Rating: N/A
es Trip Circuit Description 20 A Lighting - RM 101-103, 108, 110
20 A       Field Lighting #2         20 A       Field Lighting #4         20 A       Field Lighting #6         20 A       Field Lighting #6         20 A       Field Lighting #10         20 A       Field Lighting #10         20 A       Field Lighting #12         20 A       Field Lighting #14         20 A       High Volume Fans (NOTE 1)
 20 A Cabinet Unit Heater ECUH-1 (NOTE 1)  
20 A         Cabinet Unit Heater ECUH-3 (NOTE 1)
20 A         Air Handling Unit AHU-1 (NOTE 1)
SHUNT TRIP (AHU-1)           40 A         Air Rotation Unit ARU-1                   20 A         Spare           20 A         Spare
20 ASpare20 ASpare20 ASpare
20 A     Spare       20 A     Spare
Panel Totals         Total Conn. Load:       138208 VA         Total Est. Demand:       139411 VA         Total Conn.:       166 A         Total Est. Demand:       168 A         Image: State of the
A.I.C. Rating: N/A Mains Type: N/A 10 k Mains Rating: N/A MCB Rating: N/A
esTripCircuit Description20 AEm Lighting - South 10120 ALighting - Exterior Poles20 ASpare20 ASpare
Panel Totals         Total Conn. Load:       6860 VA         Total Est. Demand:       6860 VA         Total Conn.:       8 A         Total Est. Demand:       8 A         Total Est. Demand:       8 A



	Notes:	Branch Panel: L2 Location: Space 7 Supply From: T-L2 Mounting: Surface Enclosure: Type 1 INTEGRAL SURGE PROTECTION					Volts: Phases: Wires:	-	Wye				A.I.C. Rating: Mains Type: M.C.B Mains Rating: 100 A MCB Rating: 100 A		
СКТ	СКТ	Circuit Description	Trip	Poles		4	E	3		С	Poles	Trip	Circuit Description	СКТ	
2	1	Technology Receptacles - Fieldhouse	20 A	1	720	900					1	20 A	Exterior Receptacles - North Wall	2	
4	3	Fieldhouse Quad Receptacles #4	20 A	1			1440	900			1	20 A	Exterior Receptacles - West Wall	4	
6	5	Directors Tower Receptacles #1	20 A	1					360	2450	2	30 A	Locking Receptacle #1 (NOTE 1)	6	
8	7	Locking Receptacle #3 (NOTE 1)	30 A	2	2450	2450								8	
10	9						2450	1440			1	20 A	Fieldhouse Quad Receptacles #2	10	
12	11	Scoreboard	20 A	1					540	2450	2	30 A	Locking Receptacle #4 (NOTE 1)	12	
14	13	Locking Receptacle #2 (NOTE 1)	30 A	2	2450	2450								14	
16	15						2450	1000			1	20 A	Exterior Scoreboard	16	
18	17	Spare	20 A	1					0	0	1	20 A	Spare	18	
20	19	Spare	20 A	1	0	0					1	20 A	Spare	20	
22	21	Spare	20 A	1			0	0			1	20 A	Spare	22	
24	23	Spare	20 A	1					0	0	1	20 A	Spare	24	
26			Tot	al Load:	1142	20 VA	9680	O VA	580	0 VA		I	L		
28			Tota	I Amps:	10	0 A	86	δA	48	3 A	-				
30	Legend	J:			L.				L.						
32	_														
34															
36	Load C	Classification	Con	nected L	oad	Der	nand Fa	ctor	Estin	nated De	mand	nand Panel Totals			
38	Recept	acle		26900 VA	4		68.59%			18450 V/	4				
40													Total Conn. Load: 26900 VA		
42													Total Est. Demand: 18450 VA		
44													Total Conn.: 75 A		
46													Total Est. Demand: 51 A		
48															
50															
52	Notes:														
54	NOTE	1: CONNECT WITH 3#10, #10G IN 3/4"C.													

ALUMINUM FEEDER SCHEDULE

×	NO.	СС	NDUCTOR SIZE		CONDUIT
EEDER	OF	PHASE	NEUTRAL	GROUND	SIZE
EGEND	SETS	QTY	(1)	(1)	Inches
100A	1	3 # 1/0		#4	1 1/2
100NA	1	3 # 1/0	#1/0	#4	1 1/2
125A	1	3 # 2/0		#4	2
125NA	1	3 # 2/0	#2/0	#4	2
150A	1	3 # 3/0		#4	2
150NA	1	3 # 3/0	#3/0	#4	2
175A	1	3 # 4/0		#4	2
175NA	1	3 # 4/0	#4/0	#4	2
200A	1	3 # 250		#4	2 1/2
200NA	1	3 # 250	#250	#4	2 1/2
225A	1	3 # 300		#2	3
225NA	1	3 # 300	#300	#2	3
250A	1	3 # 350		#2	3
250NA	1	3 # 350	#350	#2	3
300A	1	3 # 500		#2	3
300NA	1	3 # 500	#500	#2	3
350A	2	3 # 500		#1	2
350NA	2	3 # 500	#500	#1	2
400A	2	3 # 250		#1	2 1/2
400NA	2	3 # 250	#250	#1	2 1/2
450A	2	3 # 300		#1/0	3
450NA	2	3 # 300	#300	#1/0	3
500A	2	3 # 350		#1/0	3
500NA	2	3 # 350	#350	#1/0	3
600A	2	3 # 500		#2/0	3
600NA	2	3 # 500	#500	#2/0	3
700A	3	3 # 350		#3/0	3
700NA	3	3 # 350	#350	#3/0	3
800A	3	3 # 400		#3/0	3
800NA	3	3 # 400	#400	#3/0	3
1000A	3	3 # 600		#4/0	4
1000NA	3	3 # 600	#600	#4/0	4
1200A	4	3 # 500		#250	4
1200NA	4	3 # 500	#500	#250	4
1600A	5	3 # 600		#350	4
1600NA	5	3 # 600	#600	#350	4
2000A	6	3 # 600		#400	4
2000NA	6	3 # 600	#600	#400	4
2500A	8	3 # 600		#600	4
2500NA	8	3 # 600	#600	#600	4
3000A	9	3 # 600		#600	4
3000NA	9	3 # 600	#600	#600	4
4000A	12	3 # 600		#800	4
4000NA	12	3 # 600	#600	#800	4

	CO	PPER FEE	EDER SCH	IEDULE	
SOUF XHH\		C T310.15(B)(16), C	OPPER 75C, (THH	W, THW, THWN,	
X	NO.	CC	ONDUCTOR 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

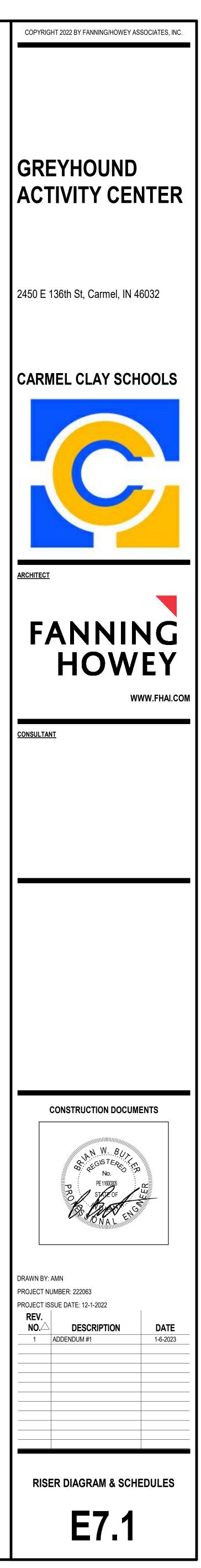
ONE LINE	DIAGRAM	SYMBOLS

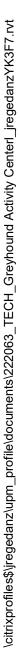
125A

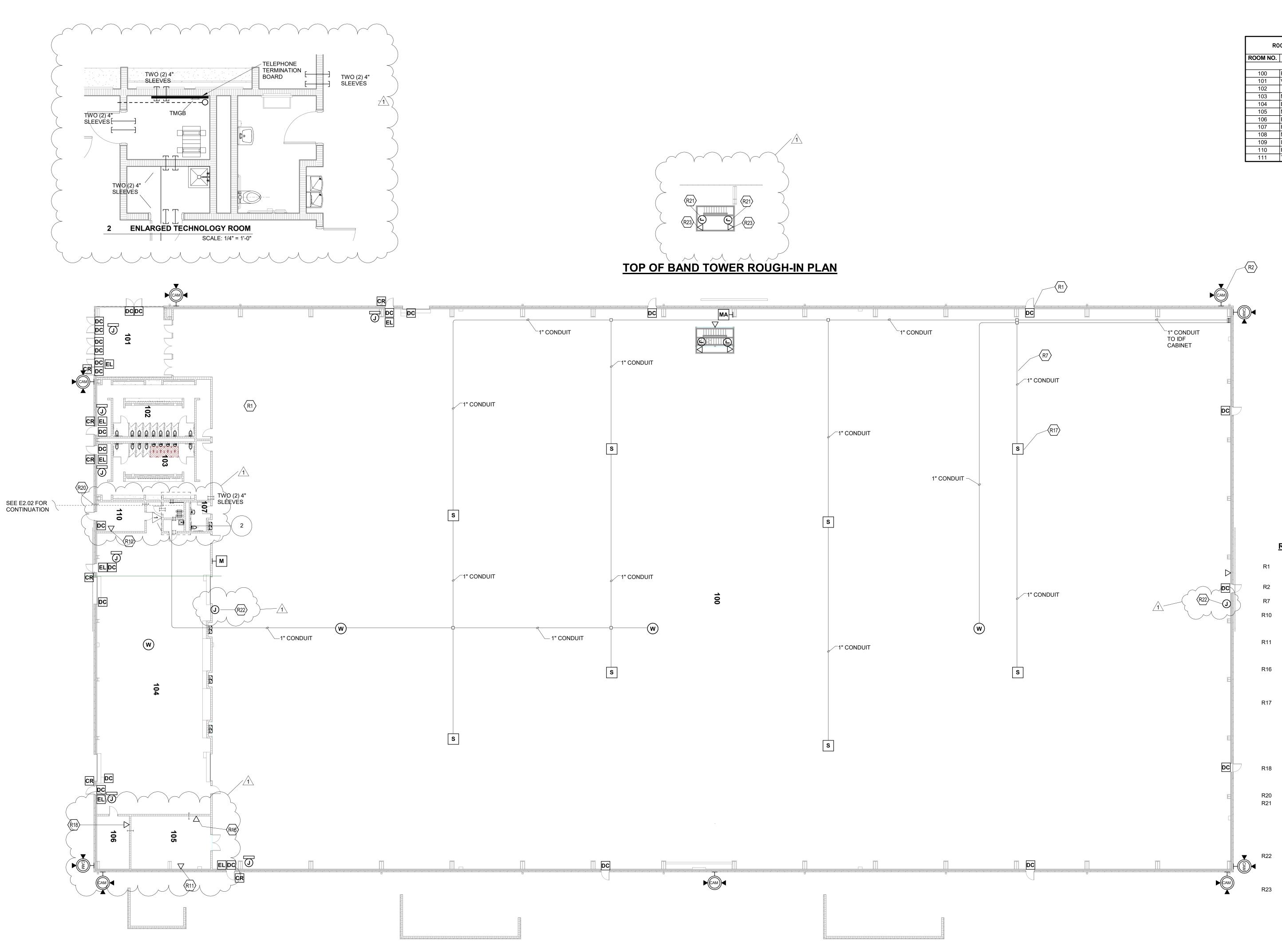
<u>/1</u>

SPARE

•			FUSED SWITCH IN SWITCHBOARD, 3P UNO		FUSED POTENTIAL TRANSFORMER
く 日 ろ	COMBINATION MAGNETIC MOTOR STARTER WITH FUSED SWITCH	-0_0-	DISCONNECT SWITCH IN SWITCHBOARD, 3P UNO		
 Я Г		(G)	FUSED BOLTED PRESSURE		CURRENT TRANSFORMERS, 3 UNO
۴			SWITCH WITH GROUND FAULT AND SINGLE PHASE PROTECTION, 3P UNO	—(	CAPACITOR
	COMBINATION MAGNETIC MOTOR STARTER WITH CIRCUIT BREAKER		TRANSFER SWITCH	]Iı	EARTH GROUND
5	COMBINATION MAGNETIC MOTOR		DISCONNECT, 3P UNO		LIGHTNING ARRESTER
T S S	STARTER WITH MOTOR CIRCUIT PROTECTOR		MOLDED CASE CIRCUIT BREAKER, 3P UNO		PLUG AND RECEPTACLE OR DRAWOUT DEVICE
•	COMBINATION MAGNETIC MOTOR		CIRCUIT BREAKER IN SWITCHBOARD, 3P UNO		POWER TRANSFORMER
VSC	STARTER WITH VARIABLE SPEED CONTROLLER	_ <b>_</b>	INSULATED CASED POWER CIRCUIT BREAKER WITH L.I.S.G. PROTECTION FEATURES,		
			3P UNO DRAWOUT CIRCUIT BREAKER,	×	3 PHASE MOTOR. X INDICATES HORSEPOWER OR KILOWATTS
• 	COMBINATION MAGNETIC MOTOR STARTER WITH ELECTRONIC	(S)	3P UNO	СР	CONTROL PANEL FURNISHED UNDER DIVISION 25
EO	OVERLOADS		SHUNT TRIP OPERATED CIRCUIT BREAKER	G	GENERATOR







# FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN

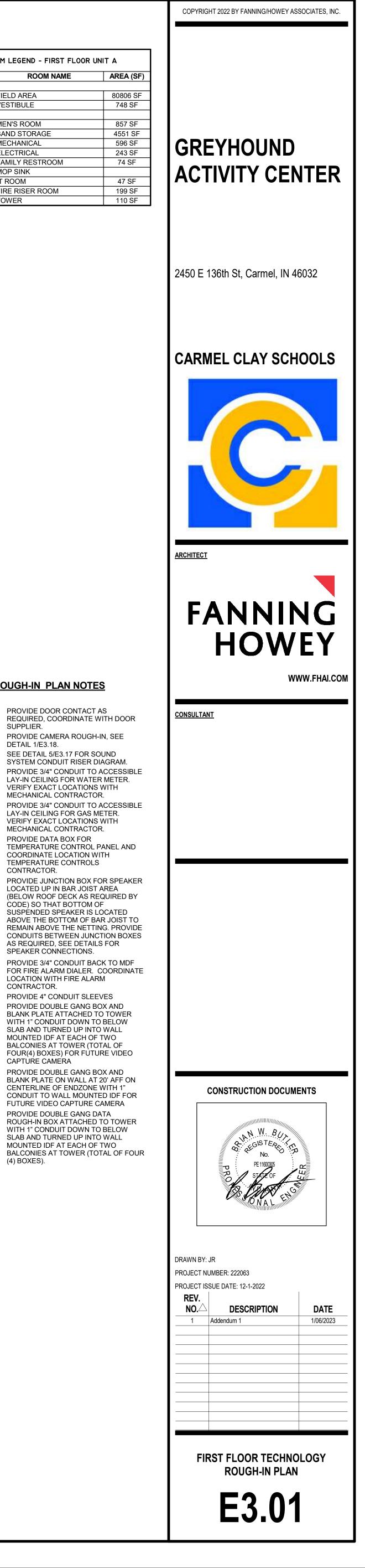
SCALE: 1/16" = 1'-0"

RC	OOM LEGEND - FIRST FLOOR	UNIT A
ROOM NO.	ROOM NAME	AREA (SF)
100	FIELD AREA	80806 SF
101	VESTIBULE	748 SF
102		
103	MEN'S ROOM	857 SF
104	BAND STORAGE	4551 SF
105	MECHANICAL	596 SF
106	ELECTRICAL	243 SF
107	FAMILY RESTROOM	74 SF
108	MOP SINK	
109	IT ROOM	47 SF
110	FIRE RISER ROOM	199 SF
111	TOWER	110 SF

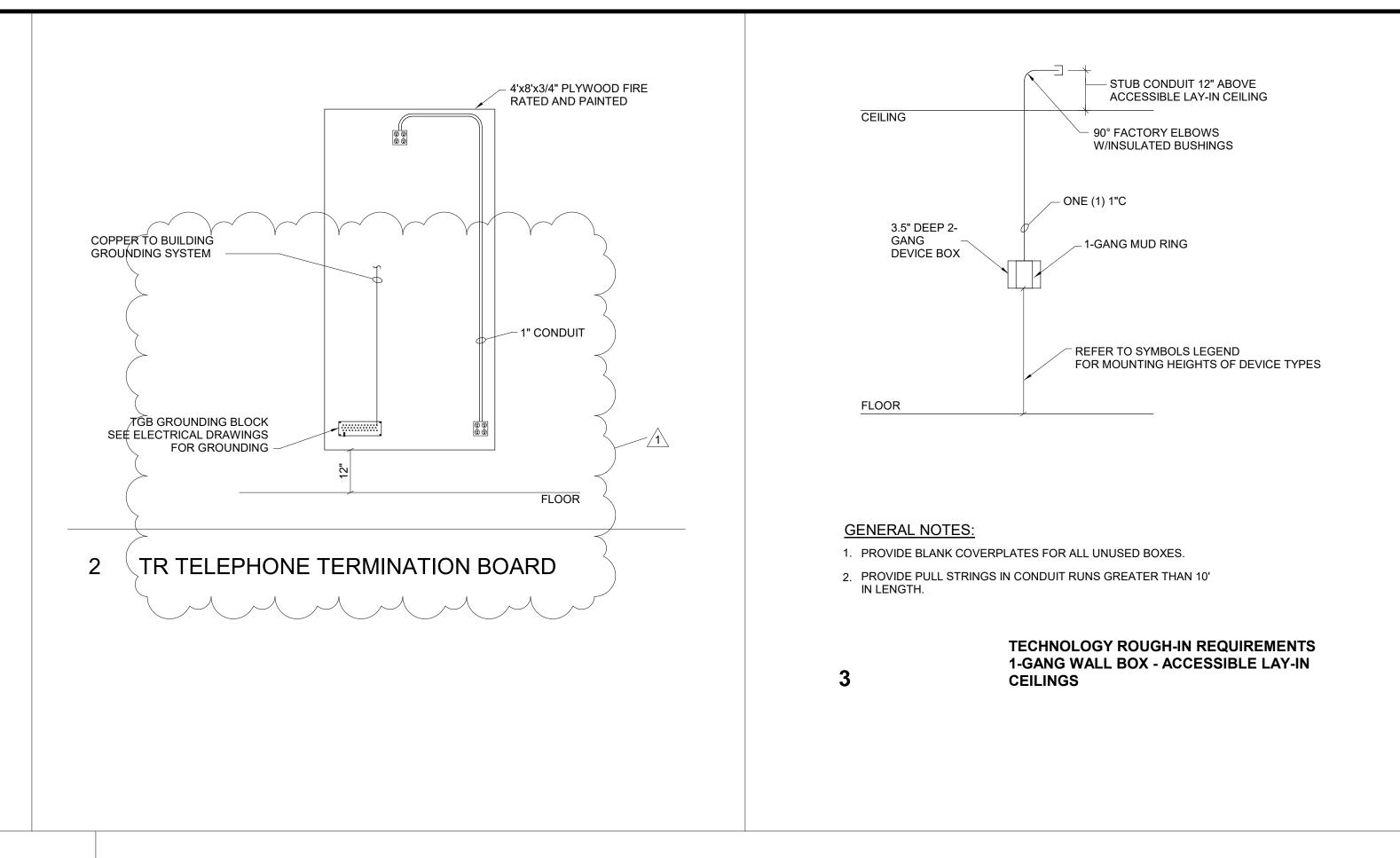
## ROUGH-IN PLAN NOTES

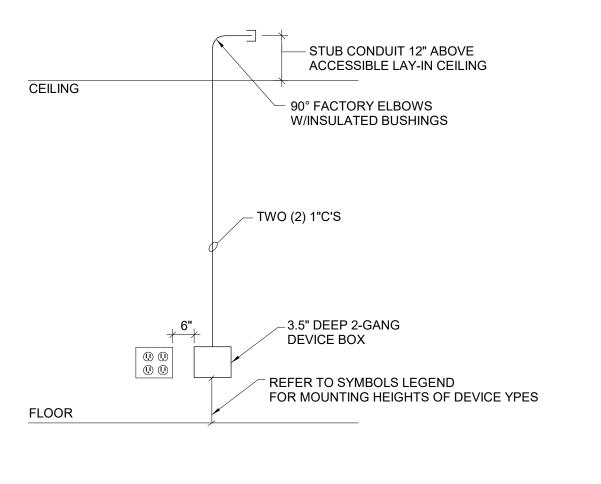
- PROVIDE DOOR CONTACT AS REQUIRED, COORDINATE WITH DOOR SUPPLIER. PROVIDE CAMERA ROUGH-IN, SEE DETAIL 1/E3.18. SEE DETAIL 5/E3.17 FOR SOUND SYSTEM CONDUIT RISER DIAGRAM. PROVIDE 3/4" CONDUIT TO ACCESSIBLE LAY-IN CEILING FOR WATER METER. VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR. PROVIDE 3/4" CONDUIT TO ACCESSIBLE LAY-IN CEILING FOR GAS METER. VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR. PROVIDE DATA BOX FOR TEMPERATURE CONTROL PANEL AND COORDINATE LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR. R17 PROVIDE JUNCTION BOX FOR SPEAKER
  - LOCATED UP IN BAR JOIST AREA (BELOW ROOF DECK AS REQUIRED BY CODE) SO THAT BOTTOM OF SUSPENDED SPEAKER IS LOCATED ABOVE THE BOTTOM OF BAR JOIST TO REMAIN ABOVE THE NETTING. PROVIDE CONDUITS BETWEEN JUNCTION BOXES AS REQUIRED, SEE DETAILS FOR SPEAKER CONNECTIONS.
- R18 PROVIDE 3/4" CONDUIT BACK TO MDF FOR FIRE ALARM DIALER. COORDINATE CONTRACTOR.
  - PROVIDE 4" CONDUIT SLEEVES PROVIDE DOUBLE GANG BOX AND BLANK PLATE ATTACHED TO TOWER WITH 1" CONDUIT DOWN TO BELOW SLAB AND TURNED UP INTO WALL MOUNTED IDF AT EACH OF TWO BALCONIES AT TOWER (TOTAL OF FOUR(4) BOXES) FOR FUTURE VIDEO
  - CAPTURE CAMERA PROVIDE DOUBLE GANG BOX AND BLANK PLATE ON WALL AT 20' AFF ON CENTERLINE OF ENDZONE WITH 1" CONDUIT TO WALL MOUNTED IDF FOR FUTURE VIDEO CAPTURE CAMERA PROVIDE DOUBLE GANG DATA ROUGH-IN BOX ATTACHED TO TOWER WITH 1" CONDUIT DOWN TO BELOW SLAB AND TURNED UP INTO WALL MOUNTED IDF AT EACH OF TWO

(4) BOXES).

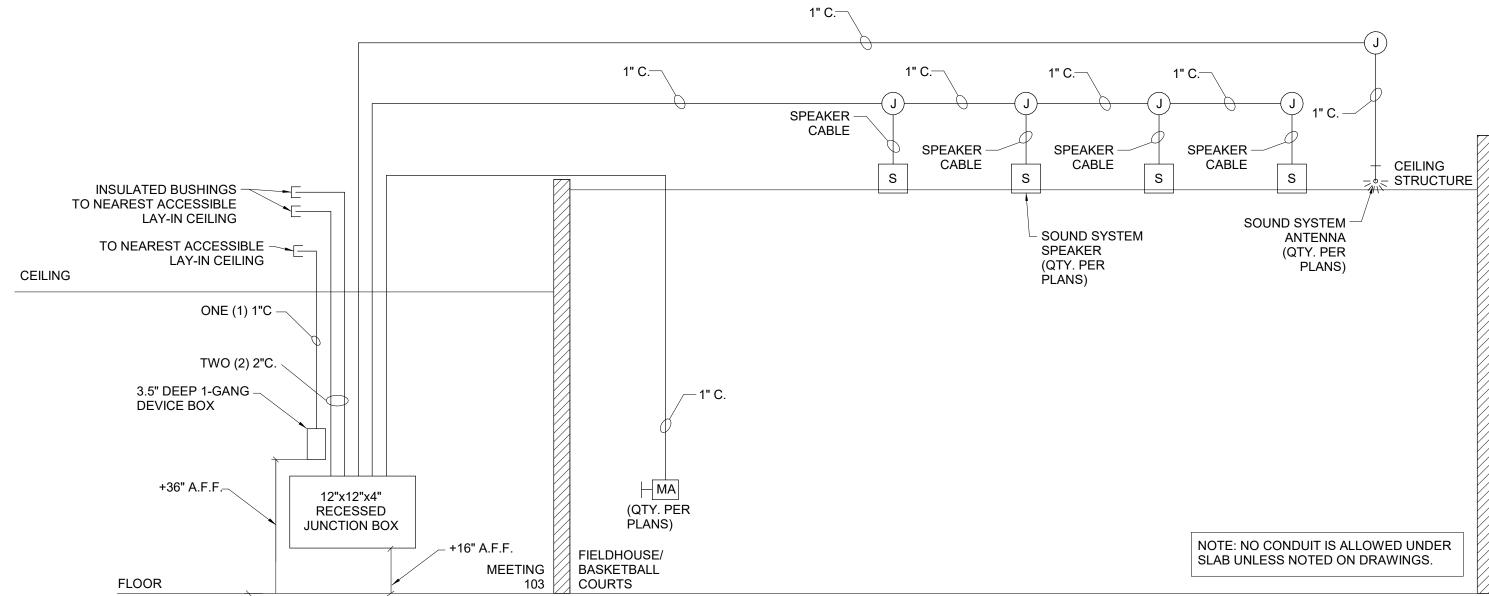


	COMMUNICATIONS ROUGH-IN SYMBOLS		AUDIO/VISUAL ACCESS CONTROL ROUGH-IN SYMBOLS
YMBOL	DESCRIPTION	MH UNO	SYMBOL     DESCRIPTION       MASTER INTERCOM 2 GANG 35" DEEP BOX WITH 2 GANG MUD RING 1 (ONE) 1" CONDUIT TO JUNCTION BOX
ST	OMMUNICATIONS OUTLET. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING. WITH 2 (TWO) 1" CONDUIT TUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	16"	MI MASTER INTERCOM. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION BOX ABOVE DOOR
	ALL MOUNTED COMMUNICATIONS OUTLET. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	44"	IC INTERCOM BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION BOX ABOVE DOOR
	ULTI CAPACITY FLOOR BOX WITH 1 (ONE) 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING AND ONE (1) 1" ONDUIT TO NEAREST TELECOMMUNICATIONS ROOM. PROVIDE PLASTIC BUSHINGS AND PULL STRINGS. OUND REINFORCEMENT LOCATION. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING. WITH 2 (TWO) 1"	F	VIDEO SURVEILLANCE CAMERA ROUGH-IN SYMBOL
	ONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. COORDINATE /ITH TECHNOLOGY AND ARCHITECTURAL DRAWINGS.	5'-4"	SYMBOL DESCRIPTION
1"	ALL MOUNTED WIRELESS ACCESS POINT. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	10'-0"	WALL MOUNTED VIDEO SURVEILLANCE CAMERA2 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12" OF CORNER WHEN APPLICABLE)
	EILING MOUNTED WIRELESS ACCESS POINT. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	С	WALL MOUNTED VIDEO SURVEILLANCE CAMERAS 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12" OF CORNER WHEN
18	3" CABLE TRAY, UNLESS OTHERWISE NOTED	-	APPLICABLE)      WALL MOUNTED VIDEO SURVEILLANCE CAMERAS 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1"
_∃ 2"	CONDUIT SLEEVES BETWEEN WALLS, UNLESS OTHERWISE NOTED	-	HCAN       CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12" OF CORNER WHEN APPLICABLE)         WALL MOUNTED VIDEO SURVEILLANCE CAMERA 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1"
0 2	(TWO) 4" CONDUIT SLEEVES BETWEEN FLOORS	-	CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12" OF CORNER WHEN APPLICABLE)
4'	x 8' x 3/4" FIRE RATED PLYWOOD	-	MUD RING WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PULL BOX. (MOUNT WITHIN 12"-16" OF CORNER WHEN APPLICABLE)
	OKE-THRU FLOOR BOX WITH 1 (ONE) 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING AND ONE (1) 1" ONDUIT TO NEAREST TELECOMMUNICATIONS ROOM. PROVIDE PLASTIC BUSHINGS AND PULL STRINGS.	F	CLOCK ROUGH-IN SYMBOLS
PU	BLIC ADDRESS AND MASS NOTIFICATION SYSTEMS ROU	GH-IN	SYMBOL     DESCRIPTION       WALL MOUNTED SINGLE-FACED DIGITAL CLOCK, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1"
10	SYMBOLS		CONDUIT STUBBED ABOVE ACCESSIBLE LAY-IN CEILING (IF CLOCKS ARE 120 VOLT OR 24 VOLT)
1BOL	DESCRIPTION	MH UNO	HDIG DF       WALL MOUNTED DUAL-FACED DIGITAL CLOCK. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1"         CONDUIT STUBBED ABOVE ACCESSIBLE LAY-IN CEILING (IF CLOCKS ARE 120 VOLT OR 24 VOLT)
s	OUND SYSTEM ANTENNA. 1 GANG, 3.5" DEEP BOX WITH 1" CONDUIT TO SOUND SYSTEM JUNCTION BOX	BETWEEN JOISTS	HO       WALL MOUNTED CLOCK. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1" CONDUIT STUBBED ABOVE         ACCESSIBLE LAY-IN CEILING (IF CLOCKS ARE 120 VOLT OR 24 VOLT)
	EILING MOUNTED SOUND SYSTEM SPEAKER, 1 GANG BOX WITH 1" CONDUIT TO SOUND SYSTEM JNCTION BOX	-	HOPF       WALL MOUNTED DUAL-FACED CLOCK. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1" CONDUIT         STUBBED ABOVE ACCESSIBLE LAY-IN CEILING (IF CLOCKS ARE 120 VOLT OR 24 VOLT)
	ALL MOUNTED SOUND REINFORCEMENT SPEAKER BOX, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. (ITH 1 (ONE) 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	-	HOWG WALL MOUNTED CLOCK WITH WIRE GUARD. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1" CONDUIT STUBBED ABOVE ACCESSIBLE LAY-IN CEILING (IF CLOCKS ARE 120 VOLT OR 24 VOLT)
	ICROPHONE INPUT. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT TO SOUND YSTEM JUNCTION BOX WITH PULL STRING.	16"	
	UXILIARY INPUT. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT TO SOUND YSTEM JUNCTION BOX WITH PULL STRING.	16"	
	ALL MOUNTED MICROPHONE/AUXILIARY INPUT. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING. WITH 1 ONE) 1" CONDUIT TO SOUND SYSTEM JUNCTION BOX WITH PULL STRING.	16"	
	ALL MOUNTED SOUND SYSTEM SPEAKER OUTLET. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 ONE) 1" CONDUIT TO SOUND SYSTEM JUNCTION BOX WITH PULL STRING.	NOTED ON DRAWINGS	
	NE ARRAY COLUMN SPEAKERS - WALL MOUNTED. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 ONE) 1" CONDUIT TO SOUND SYSTEM JUNCTION BOX WITH PULL STRING.	NOTED ON DRAWINGS	STUB CONDUIT 12" ABOVE ACCESSIBLE LAY-IN CEILING
RE	ECESSED JUNCTION BOX FOR SOUND SYSTEM. REFER TO DETAILS AND FLOORPLANS FOR SIZE.	16"	CEILING 90° FACTORY ELBOWS
	RODUCTION INTERCOM, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT TO DUND SYSTEM JUNCTION BOX WITH PULL STRING.	-	W/INSULATED BUSHINGS
	DESCRIPTION ALL-IN SWITCH. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT STUBBED ABOVE CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. OLUME CONTROL. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT STUBBED BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	MH UNO 44" 44"	6" -3.5" DEEP 2-GANG DEVICE BOX
	VALL MOUNTED HORN SPEAKER. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT TUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. OUND SYSTEM MASTER STATION. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 2 (TWO) 1" CONDUIT TUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	96"	Image:
	OOF MOUNTED AM/FM ANTENNA	ROOF	<u>GENERAL NOTES:</u>
WR CO	EMOTE DESK INTERCOM CABINET ROUGH-IN. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 2 (TWO) 1" ONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. COORDINATE ITH CASEWORK.	-	1. MOUNTING HEIGHTS AS LISTED ON THIS SHEET UNLESS NOTED OTHERWISE.
<u>м</u>	ETAL SURFACE WALL MOUNTED SPEAKER. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	96"	<ol> <li>PROVIDE BLANK COVERPLATES FOR ALL UNUSED BOXES.</li> <li>RECEPTACLES ARE SHOWN FOR COORDINATION ONLY. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY, CIRCUITING, MOUNTING, AND</li> </ol>
C) (C	JRFACE MOUNTED CEILING SPEAKER. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING WITH 1 (ONE) 1" ONDUIT STUBBED ABOVE ACCESSIBLE CEILING OR RUN TO NEXT SPEAKER LOCATION. PROVIDE PLASTIC JSHING AND PULL STRING.	-	ADDITIONAL REQUIREMENTS. 4. PROVIDE PULL STRINGS IN CONDUIT RUNS GREATER THAN 10'
	ITERCOMM STROBE LAMP.	C	IN LENGTH.
		]	TECHNOLOGY ROUGH-IN REQUIREMENTS 2-GANG WALL BOX - ACCESSIBLE LAY-IN
BOL	ACCESS CONTROL ROUGH-IN SYMBOLS DESCRIPTION	MH	<b>4</b> CEILINGS
CP A	CCESS CONTROL PANEL, 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 2 (TWO) 1" CONDUIT STUBBED BOVE ACCESSIBLE LAY-IN CEILING WITH PULL STRING	UNO -	
	ARD READER. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION BOX BOVE DOOR	44"	
	LECTRONIC LATCH. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION BOX	-	
	LECTRONIC LATCH. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION BOX BOVE DOOR 4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER.	ABOVE	
L EL AF	BOVE DOOR 4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER. EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE		
L EL AF	BOVE DOOR 4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER. EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. JSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED	ABOVE CLG.	
AF	BOVE DOOR 4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER. EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	ABOVE CLG. 60"	
AI       L     EL       J     24       B     KI       AI       O     AI       DO     AI	BOVE DOOR         4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER.         EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE         CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.         JSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED         BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.         UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR         EQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION	ABOVE CLG. 60"	
AF	BOVE DOOR         4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER.         EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE         CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.         JSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED         BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.         UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR	ABOVE CLG. 60" 44" -	
L     EL       L     EL       J     24       B     KI       B     AI       DO     AI       EX     RI	BOVE DOOR         4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER.         EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE         CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.         JSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED         BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.         UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR         EQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION	ABOVE CLG. 60" 44" - -	TO NEAREST ACCESSIBLE LAY-IN CEILING TO NEAREST ACCESSIBLE LAY-IN CEILING
Image: Non-State     All       Image: Non-State     Electronic       Image: Non-State     Elect	BOVE DOOR         4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER.         EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE         CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.         JSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED         BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.         UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR         EQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION OX ABOVE DOOR (LOCATED IN EXIT DOOR HARDWARE)         INTRUSION DETECTION ROUGH-IN SYMBOLS	ABOVE CLG. 60" 44" - -	TO NEAREST ACCESSIBLE LAY-IN CEILING TO NEAREST ACCESSIBLE
A       L     A       L     A       D     24       B     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A       D     A </td <td>BOVE DOOR 4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER. EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. JSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR EQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION OX ABOVE DOOR (LOCATED IN EXIT DOOR HARDWARE) INTRUSION DETECTION ROUGH-IN SYMBOLS DESCRIPTION TRUSION DETECTION PANEL, 2 GANG, 3.5" DEEP BOX WITH 2 (TWO) 1" CONDUIT STUBBED ABOVE</td> <td>ABOVE CLG. 60" 44" - -</td> <td>TO NEAREST ACCESSIBLE LAY-IN CEILING TO NEAREST ACCESSIBLE LAY-IN CEILING CEILING ONE (1) 1"C</td>	BOVE DOOR 4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER. EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. JSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR EQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION OX ABOVE DOOR (LOCATED IN EXIT DOOR HARDWARE) INTRUSION DETECTION ROUGH-IN SYMBOLS DESCRIPTION TRUSION DETECTION PANEL, 2 GANG, 3.5" DEEP BOX WITH 2 (TWO) 1" CONDUIT STUBBED ABOVE	ABOVE CLG. 60" 44" - -	TO NEAREST ACCESSIBLE LAY-IN CEILING TO NEAREST ACCESSIBLE LAY-IN CEILING CEILING ONE (1) 1"C
Image: Market interview     All       Image: Image: Market interview     Elements       Image: Ima	BOVE DOOR 4" W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER. EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. USH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING. UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR EQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION OX ABOVE DOOR (LOCATED IN EXIT DOOR HARDWARE) INTRUSION DETECTION ROUGH-IN SYMBOLS DESCRIPTION TRUSION DETECTION PANEL, 2 GANG, 3.5" DEEP BOX WITH 2 (TWO) 1" CONDUIT STUBBED ABOVE CCESSIBLE LAY-IN CEILING	ABOVE CLG. 60" 44" - -	TO NEAREST ACCESSIBLE LAY-IN CEILING TO NEAREST ACCESSIBLE LAY-IN CEILING CEILING
Image: Market interview     All       Image: Image: Market interview     Elements       Image: Ima	BOVE DOOR  If 'W × 24" H × 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER.  EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.  USH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.  UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR  EQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION OX ABOVE DOOR (LOCATED IN EXIT DOOR HARDWARE)  INTRUSION DETECTION PANEL, 2 GANG, 3.5" DEEP BOX WITH 2 (TWO) 1" CONDUIT STUBBED ABOVE CCESSIBLE LAY-IN CEILING  OOR CONTACT ROUGH-IN  EYPAD. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED ABOVE CCESSIBLE ELAY-IN CEILING  AND PULL STRING.  AND PULL S	ABOVE CLG. 60" 44" - - - - - - - - - - -	TO NEAREST ACCESSIBLE LAY-IN CEILING TO NEAREST ACCESSIBLE LAY-IN CEILING CEILING ONE (1) 1"C TWO (2) 2"C. 3.5" DEEP 1-GANG
Image: Market interview     All       Image: Market interview     EL       Image: Market interview     EL    <	BOVE DOOR  I'' W x 24" H x 6" D JUNCTION BOX ABOVE DOOR FOR ACCESS CONTROL DOOR CONTROLLER.  EY BOX. 2 GANG, 3.5" DEEP BOX WITH 2 GANG MUD RING, 1 (ONE) 1" CONDUIT STUBBED ABOVE CCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.  JSH TO RELEASE BUTTON. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED BOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.  UTOMATIC DOOR OPERATOR, 1" CONDUIT TO JUNCTION BOX ABOVE DOOR  EQUEST TO EXIT SWITCH, 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING, 1 (ONE) 1" CONDUIT TO JUNCTION OX ABOVE DOOR (LOCATED IN EXIT DOOR HARDWARE)  INTRUSION DETECTION PANEL, 2 GANG, 3.5" DEEP BOX WITH 2 (TWO) 1" CONDUIT STUBBED ABOVE CCESSIBLE LAY-IN CEILING  EYPAD. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED ABOVE EYPAD. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED ABOVE ELING WITH PLASTIC BUSHING AND PULL STRING.	ABOVE CLG. 60" 44" - - - - - 44" NOTED	TO NEAREST ACCESSIBLE LAY-IN CEILING TO NEAREST ACCESSIBLE LAY-IN CEILING CEILING ONE (1) 1"C TWO (2) 2"C. 3.5" DEEP 1-GANG

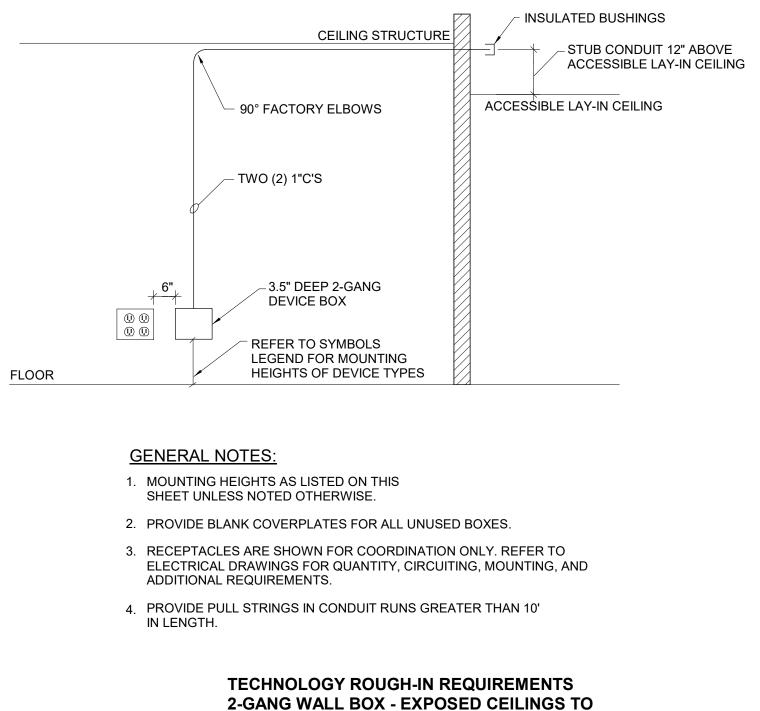






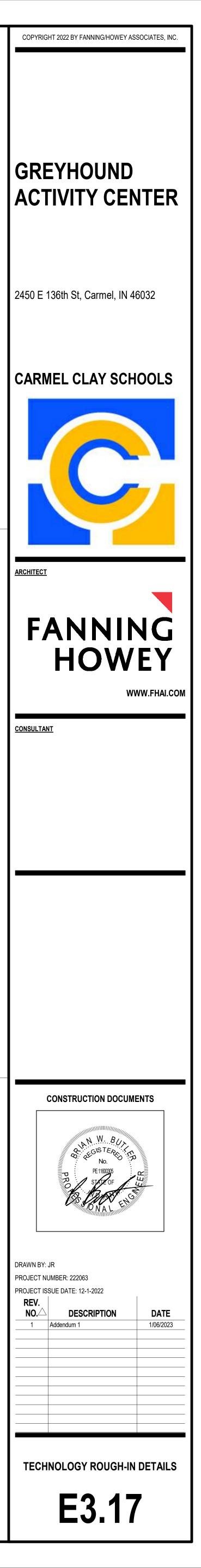


SOUND SYSTEM CONDUIT ROUGH-IN DETAILS





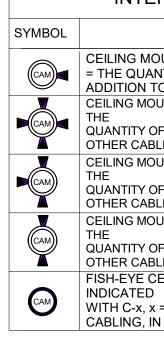
2-GANG WALL BOX - EXPOSED CEILINGS TO NEAREST ACCESSIBLE LAY-IN CEILING

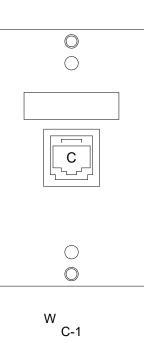


	COMMUNICATIONS SYMBOLS LEGEND	
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWIS
$\leq$	COMMUNICATIONS OUTLET. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	1
≤w	WALL MOUNTED COMMUNICATIONS OUTLET. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	1
	MULTI CAPACITY FLOOR BOX. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
	POKE-THRU FLOOR BOX. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
	CEILING MOUNTED PROJECTOR. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
	WALL MOUNTED PROJECTOR. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	SEE AV WIRING DETAILS
Ŵ	CEILING MOUNTED WIRELESS ACCESS POINT. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	
⊢(W)	WALL MOUNTED WIRELESS ACCESS POINT. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
	CABLE TRAY	-
	LADDER TRAY	-
	CONDUIT SLEEVES BETWEEN WALLS	-
00	2 (TW0) 4" CONDUIT SLEEVES BETWEEN FLOORS	-
	TELEPHONE TERMINATION BOARD	2 / T1.02
	TECHNOLOGY EQUIPMENT RACK	-
	TECHNOLOGY EQUIPMENT CABINET	-
	4-POST TECHNOLOGY EQUIPMENT RACK	-
CAM	OVERHEAD DOCUMENT CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-

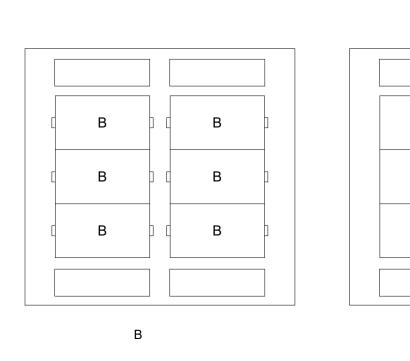
	Pl
SYMBOL	
	ANTENNA
S	CLASSROOMS
SG	GYMNASIUM S
S	MULTI-PURPO
S	CLASSROOM
Ss	WALL MOUNT
S	WALL MOUNT
S	CEILING MOUN
SA	LINE ARRAY C
	FULL RANGE (
$\vdash\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	PRODUCTION
M	WALL MICROP
M	CEILING MICR
A	AUX. INPUT
SM	MONITOR OUT
	RECESSED JU
SUB	SUBWOOFER
MA	WALL MOUNT



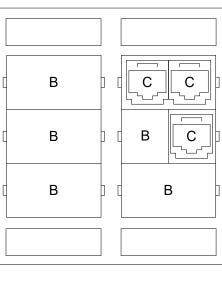


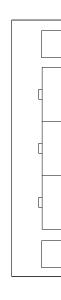


WALL PLATE



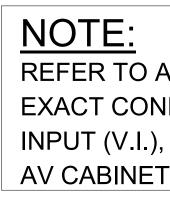
**BLANK TECHNOLOGY OUTLET** 





DATA PLATE

C-3

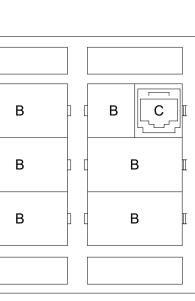


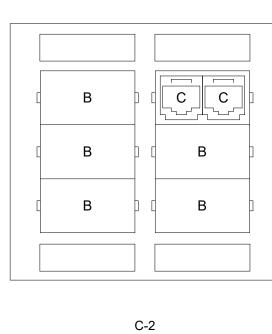
UBLIC ADDRESS AND MASS NOTIFICATION SYS	STEMS
DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
SOUND REINFORCEMENT SPEAKER - CEILING MOUNTED	-
SOUND REINFORCEMENT SPEAKER - CEILING MOUNTED	-
SE ROOM SOUND REINFORCEMENT SPEAKER - CEILING MOUNTED	-
SOUND REINFORCEMENT SPEAKER - WALL MOUNTED	-
ED SPEAKER	-
ED SPEAKER OUTLET	-
NTED SPEAKER OUTLET	-
COLUMN SPEAKERS - WALL MOUNTED	-
CEILING SPEAKER	-
INTERCOM	-
PHONE INPUT	-
OPHONE	-
	-
TPUT	-
JNCTION BOX FOR SOUND SYSTEM	-
	-
ED MICROPHONE/AUXILIARY INPUT	2 / T1.02
	1

DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
OUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x NTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN TO OTHER CABLES NOTED.	
DUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x =	
DF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO BLES NOTED.	
DUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x =	
DF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO BLES NOTED.	
DUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x =	
OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO BLES NOTED.	
CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. WHEN	
A THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL N ADDITION TO OTHER CABLES NOTED.	

	EXTERIOR VIDEO SURVEILLAN	CE CAMERA S	YMBOLS LEC	GEND				
YMBOL	DESCRIPTION		V UNLES	VIRING DETAIL(S) S NOTED OTHERW	ISE			
	WALL MOUNTED WEATHERPROOF VIDEO SURVEIL INDICATED WITH C-x, x = THE QUANTITY OF COMMI HORIZONTAL CABLING, IN ADDITION TO OTHER CA WALL MOUNTED VIDEO SURVEILLANCE CAMERA. W THE QUANTITY OF COMMUNICATIONS COPPER HO ADDITION TO OTHER CABLES NOTED.	JNICATIONS COPPEF BLES NOTED. VHEN INDICATED WI <sup>-</sup>	EN { FH C-x, x =			А	THE COM RESPONS OUTLET/J	NOLOGY GENERAL NOTES IMUNICATIONS CABLING CONTRACTOR(S) IS/ARE SIBLE FOR ANY ADDITIONAL CONDUIT SLEEVES, JUNCTION BOXES, SURFACE RACEWAY, CABLE OUBLE GANG SQUARE PLASTER MUD RINGS, ETC.
	ACCESS CONTROL	SYMBOLS LEO	GEND			В	THE COM RESPONS	IMUNICATIONS CABLING CONTRACTOR(S) IS/ARE SIBLE FOR EXTENDING THE ELECTRICAL SERVICE
YMBOL	DESCRIPTION		۱ UNLES	VIRING DETAIL(S) S NOTED OTHERW	ISE			IE ELECTRICAL JUNCTION BOX IN THE SPACE TO COMMUNICATIONS RACKS/CABINETS.
A.C.P.	ACCESS CONTROL PANEL			3 / T1.02		-	REPLACIN	TRACTOR(S) SHALL BE RESPONSIBLE FOR NG/REPAIRING DAMAGED CEILING GRID/TILE AS A OF THEIR INSTALLATION.
CR	CARD READER			3 / T1.02				TRACTOR SHALL VERIFY THE SURFACE RACEWAY
EL	ELECTRONIC LATCH SET WITH ELECTRONIC POWE	R TRANSFER		3 / T1.02			ELECTRIC	NS, ROUTING, OPENINGS, ETC. WITH THE BUILDING CAL CONTRACTOR. PROVIDE PROPER COVER FOR THE DEVICES AS REQUIRED.
⊢	AUTOMATIC DOOR PUSHBUTTON CEILING MOUNTED DOOR ACCESS CONTROLLER J	UNCTION BOX.		3 / T1.02			COORDIN	IMUNICATIONS CABLING CONTRACTOR SHALL IATE THE EXACT LOCATION OF THE VIDEO
	WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMM	JNICATIONS		3 / T1.02				FOR WITH THE AUDIO/VIDEO EQUIPMENT CTOR AND ELECTRICAL CONTRACTOR.
	COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CA PUSH TO RELEASE BUTTON	BLES NOTED.		3 / T1.02				
ADO	AUTOMATIC DOOR OPERATOR			3 / T1.02				
LD	LOCKDOWN BUTTON			3 / T1.02		-	TFCH	INOLOGY ABBREVIATIONS
	DOOR INTERCOM			3 / T1.02		ABBR		IS USED ON DRAWINGS IN GENERAL ARE LISTED BELO ABOVE FINISH FLOOR ABOVE FINISH GRADE
DI		R HARDWARE)		3 / T1.02 3 / T1.02		ABBR AFF AFG B C	REVIATION	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT
DI	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO	R HARDWARE)	ES SCHEDULE			ABBR AFF AFG B C CATV J MC/E +N	REVIATION	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE
DI	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO		ES SCHEDULE CONTRACTOR INSTALL		OWNER	ABBR AFF AFG B C CATV J MC/E	REVIATION / R / MDF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE
	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO		CONTRACTOR	3 / T1.02		ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B	REVIATION / R / MDF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD
	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO	IER RESPONSIBILITIE CONTRACTOR FURNISH	CONTRACTOR INSTALL	3 / T1.02		ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEY FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE
	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONTRACTOR/OWN	ER RESPONSIBILITIE CONTRACTOR FURNISH	CONTRACTOR INSTALL	3 / T1.02		ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEY FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL
	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS CACKBONE(S)	ER RESPONSIBILITIE CONTRACTOR FURNISH	CONTRACTOR INSTALL	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I.	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEY FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD
DI REX IBER C IBER B OE SW	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES R HORIZONTAL CABLING	IER RESPONSIBILITIE CONTRACTOR FURNISH •	CONTRACTOR INSTALL •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION
	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES R HORIZONTAL CABLING	ER RESPONSIBILITIE CONTRACTOR FURNISH • •	CONTRACTOR INSTALL •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEY FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF
DI REX IBER C IBER B OE SW OPPEF HOOK	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) TTCHES R HORIZONTAL CABLING S	ER RESPONSIBILITIE CONTRACTOR FURNISH • •	CONTRACTOR INSTALL •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEY FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM
DI REX IBER C IBER B OE SW OPPEF HOOK ABLE/I	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES R HORIZONTAL CABLING S LADDER TRAY	ER RESPONSIBILITIE CONTRACTOR FURNISH • • •	CONTRACTOR INSTALL • • •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
DI REX BER C BER C BER B OE SW OPPEF HOOK ABLE/I ATCH I	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES R HORIZONTAL CABLING S LADDER TRAY PANELS	ER RESPONSIBILITIE CONTRACTOR FURNISH • • • • •	CONTRACTOR INSTALL • • • •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEY FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN
DI REX BER C BER C BER B DE SW DPPEF HOOK ABLE/I ATCH I ATCH I IRELE	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES R HORIZONTAL CABLING S LADDER TRAY PANELS CABLES	ER RESPONSIBILITIE CONTRACTOR FURNISH • • • • •	CONTRACTOR INSTALL • • • •	3 / T1.02	INSTALL •	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
DI REX BER C BER B DE SW OPPEF HOOK ABLE/I ATCH I ATCH I IRELE	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES R HORIZONTAL CABLING S LADDER TRAY PANELS CABLES SS ACCESS POINTS	ER RESPONSIBILITIE CONTRACTOR FURNISH • • • • •	CONTRACTOR INSTALL • • • •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
DI REX IBER C IBER B OE SW OPPEF HOOK ABLE/I ATCH I ATCH I ATCH Q IRELE V DISP	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES AHORIZONTAL CABLING S LADDER TRAY PANELS CABLES SS ACCESS POINTS LAY MONITORS AND MOUNTS	ER RESPONSIBILITIE CONTRACTOR FURNISH • • • • •	CONTRACTOR INSTALL • • • •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
DI REX IBER C IBER B OE SW OPPEF HOOK ABLE/I ATCH I ATCH I ATCH I ATCH I ROJEC ECHNC	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES AHORIZONTAL CABLING S LADDER TRAY PANELS CABLES SS ACCESS POINTS LAY MONITORS AND MOUNTS CTOR AND MOUNTS	ER RESPONSIBILITIE CONTRACTOR FURNISH	CONTRACTOR INSTALL • • • •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
DI REX IBER C IBER C IBER B POE SW OPPEF HOOK ABLE/I PATCH I PATCH I PATCH I PATCH I PATCH I PATCH I PATCH I PATCH I PATCH I	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES ACKBONE(S) ITCHES A HORIZONTAL CABLING S LADDER TRAY PANELS CABLES SS ACCESS POINTS LAY MONITORS AND MOUNTS TOR AND MOUNTS DLOGY BOX ROUGH-INS	ER RESPONSIBILITIE CONTRACTOR FURNISH	CONTRACTOR INSTALL • • • •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
DI REX REX IBER C IBER C IBER B POE SW COPPER HOOK CABLE/I PATCH I PATCH I	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) ITCHES A HORIZONTAL CABLING S LADDER TRAY PANELS CABLES SS ACCESS POINTS LAY MONITORS AND MOUNTS TOR AND MOUNTS DLOGY BOX ROUGH-INS LLANCE CAMERAS	ER RESPONSIBILITIE	CONTRACTOR INSTALL • • • •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
DI REX FIBER C FIBER C FIBER B POE SW COPPEF J HOOK CABLE/I PATCH C PATCH C WIRELE AV DISP PROJEC SURVEII ACCESS ACCESS	DOOR INTERCOM REQUEST TO EXIT SWITCH (LOCATED IN EXIT DOO CONTRACTOR/OWN CONNECTORS ACKBONE(S) TICHES ACKBONE(S) TICHES A HORIZONTAL CABLING S LADDER TRAY PANELS CABLES SS ACCESS POINTS LAY MONITORS AND MOUNTS CTOR AND MOU	ER RESPONSIBILITIE	CONTRACTOR INSTALL • • • •	3 / T1.02	INSTALL	ABBR AFF AFG B C CATV J MC/E +N NIC NTS TCP TR / II T.T.B TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	REVIATION / R / MDF DF	ABOVE FINISH FLOOR ABOVE FINISH GRADE BLANK CONDUIT CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEV FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR

	EXTERIOR VIDEO SURVEILLAN	NCE CAMERA S	YMBOLS LEO	SEND			
YMBOL				VIRING DETAIL(S) S NOTED OTHERWI	SE		
W W	WALL MOUNTED WEATHERPROOF VIDEO SURVEN INDICATED WITH C-x, x = THE QUANTITY OF COMM HORIZONTAL CABLING, IN ADDITION TO OTHER C/ WALL MOUNTED VIDEO SURVEILLANCE CAMERA. THE QUANTITY OF COMMUNICATIONS COPPER HO ADDITION TO OTHER CABLES NOTED.	IUNICATIONS COPPER ABLES NOTED. WHEN INDICATED WIT	R TH C-x, x =			A THE C RESP OUTL	COMMUNICATIONS CABLING CONTRACTOR(S) IS/ARE ONSIBLE FOR ANY ADDITIONAL CONDUIT SLEEVES, ET/JUNCTION BOXES, SURFACE RACEWAY, CABLE , DOUBLE GANG SQUARE PLASTER MUD RINGS, ETC.
	ACCESS CONTRO	L SYMBOLS LE	GEND				COMMUNICATIONS CABLING CONTRACTOR(S) IS/ARE ONSIBLE FOR EXTENDING THE ELECTRICAL SERVICE
YMBOL			V	VIRING DETAIL(S)		FROM	I THE ELECTRICAL JUNCTION BOX IN THE SPACE TO HE COMMUNICATIONS RACKS/CABINETS.
	ACCESS CONTROL PANEL		UNLES	<u>S NOTED OTHÈŔWI</u> 3 / T1.02	<u>SE</u>	REPL	CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ACING/REPAIRING DAMAGED CEILING GRID/TILE AS A
CR	CARD READER			3 / T1.02			LT OF THEIR INSTALLATION.
EL	ELECTRONIC LATCH SET WITH ELECTRONIC POW	/ER TRANSFER		3 / T1.02		ELEC	TIONS, ROUTING, OPENINGS, ETC. WITH THE BUILDING TRICAL CONTRACTOR. PROVIDE PROPER COVER ES FOR THE DEVICES AS REQUIRED.
	AUTOMATIC DOOR PUSHBUTTON CEILING MOUNTED DOOR ACCESS CONTROLLER WHEN	JUNCTION BOX.		3 / T1.02	_	COOF	COMMUNICATIONS CABLING CONTRACTOR SHALL RDINATE THE EXACT LOCATION OF THE VIDEO ECTOR WITH THE AUDIO/VIDEO EQUIPMENT
	INDICATED WITH C-x, x = THE QUANTITY OF COMM COPPER			3 / T1.02			RACTOR AND ELECTRICAL CONTRACTOR.
	HORIZONTAL CABLING, IN ADDITION TO OTHER CA PUSH TO RELEASE BUTTON	ABLES NOTED.		3 / T1.02			
ADO	AUTOMATIC DOOR OPERATOR			3 / T1.02		TEC	
LD	LOCKDOWN BUTTON			3 / T1.02			CHNOLOGY ABBREVIATIONS
DI	DOOR INTERCOM			3 / T1.02		ABBREVIAT AFF	IONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. ABOVE FINISH FLOOR
REX	REQUEST TO EXIT SWITCH (LOCATED IN EXIT DO			3 / T1.02		AFG B	ABOVE FINISH GRADE BLANK
	CONTRACTOR/OW		ES SCHEDULE			C CATV J MC/ER / MD +N	DISTRIBUTION FRAME
	CONTRACTOR/OW	CONTRACTOR	CONTRACTOR	OWNER		CATV J MC/ER / MD +N NIC NTS	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE
				OWNER FURNISH	OWNER	CATV J MC/ER / MD +N NIC	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT
	CONTRACTOR/OW	CONTRACTOR	CONTRACTOR			CATV J MC/ER / MD +N NIC NTS TCP	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE
		CONTRACTOR FURNISH	CONTRACTOR INSTALL			CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B.	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD
	CONNECTORS	CONTRACTOR FURNISH	CONTRACTOR INSTALL			CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED
FIBER CO FIBER BA POE SWI	CONNECTORS BACKBONE(S)	CONTRACTOR FURNISH	CONTRACTOR INSTALL		INSTALL	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D	CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE
FIBER CO FIBER BA POE SWI COPPER	CONNECTORS BACKBONE(S) /ITCHES R HORIZONTAL CABLING	CONTRACTOR FURNISH •	CONTRACTOR INSTALL •		INSTALL	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE
FIBER CO FIBER B/ POE SWI COPPER I HOOKS	CONNECTORS BACKBONE(S) /ITCHES R HORIZONTAL CABLING	CONTRACTOR FURNISH • •	CONTRACTOR INSTALL • •		INSTALL	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R DF WP	CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF
FIBER CO FIBER B/ POE SWI COPPER I HOOKS CABLE/L	CONNECTORS BACKBONE(S) /ITCHES R HORIZONTAL CABLING S	CONTRACTOR FURNISH • • •	CONTRACTOR INSTALL • •		INSTALL	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R DF WP VO PTZ	CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM
FIBER CO FIBER B/ POE SWI COPPER I HOOKS CABLE/L PATCH P	CONNECTORS BACKBONE(S) /ITCHES R HORIZONTAL CABLING S LADDER TRAY	CONTRACTOR FURNISH	CONTRACTOR INSTALL • •		INSTALL	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
FIBER CO FIBER BA POE SWI COPPER I HOOKS CABLE/L PATCH P PATCH C	CONNECTORS BACKBONE(S) /ITCHES R HORIZONTAL CABLING S LADDER TRAY PANELS	CONTRACTOR FURNISH	CONTRACTOR INSTALL		INSTALL	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR	CABLE ANTENNA TELEVISION JUNCTION BOX MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN
FIBER CO FIBER B/ POE SWI COPPER I HOOKS CABLE/L PATCH P PATCH C WIRELES	CONNECTORS BACKBONE(S) /ITCHES R HORIZONTAL CABLING S LADDER TRAY PANELS CABLES	CONTRACTOR FURNISH	CONTRACTOR INSTALL	FURNISH	INSTALL •	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
FIBER CO FIBER B/ POE SWI COPPER I HOOKS CABLE/L PATCH P PATCH C WIRELES AV DISPL	CONNECTORS BACKBONE(S) /ITCHES R HORIZONTAL CABLING S LADDER TRAY PANELS CABLES CABLES	CONTRACTOR FURNISH	CONTRACTOR INSTALL	FURNISH	INSTALL •	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
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FIBER CO FIBER BA POE SWI COPPER HOOKS CABLE/L PATCH P PATCH C VIRELES AV DISPL PROJEC FECHNO SURVEIL	CONNECTORS BACKBONE(S) //TCHES R HORIZONTAL CABLING S LADDER TRAY PANELS CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES CABLES	CONTRACTOR FURNISH	CONTRACTOR INSTALL	FURNISH	INSTALL •	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR
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iber co iber co iber b/ oe swi copper hooks cable/l patch p patch c wireles voispi projec iechno surveil access access	CONNECTORS BACKBONE(S) //TCHES R HORIZONTAL CABLING S LADDER TRAY PANELS CABLES SS ACCESS POINTS PLAY MONITORS AND MOUNTS CTOR AND MOUNTS CTOR AND MOUNTS DLOGY BOX ROUGH-INS LLANCE CAMERAS S CONTROL READERS	CONTRACTOR FURNISH	CONTRACTOR INSTALL	FURNISH	INSTALL •	CATV J MC/ER / MD +N NIC NTS TCP TR / IDF T.T.B. TV UNO VIF VC W V.I. D WG R DF WP VO PTZ ETR VP	CABLE ANTENNA TELEVISION JUNCTION BOX F MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVIC FROM FINISH FLOOR UNLESS NOTED OTHERWISE NOT IN CONTRACT NOT TO SCALE TEMPERATURE CONTROL PANEL TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME TELEPHONE TERMINATION BOARD TELEVISION UNLESS NOTED OTHERWISE VERIFY IN FIELD VOLUME CONTROL WALL MOUNTED VIDEO INPUT LOCATION DEMO TABLE WIRE GUARD RELEASE DUAL FACE WEATHER PROOF VIDEO OUTPUT PAN TILT ZOOM EXISTING TO REMAIN VIDEO PROJECTOR

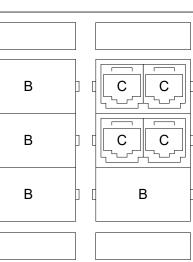


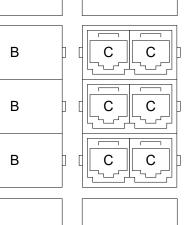


DATA PLATE

C-1

DATA PLATE





C-6

#### C-4 DATA PLATE

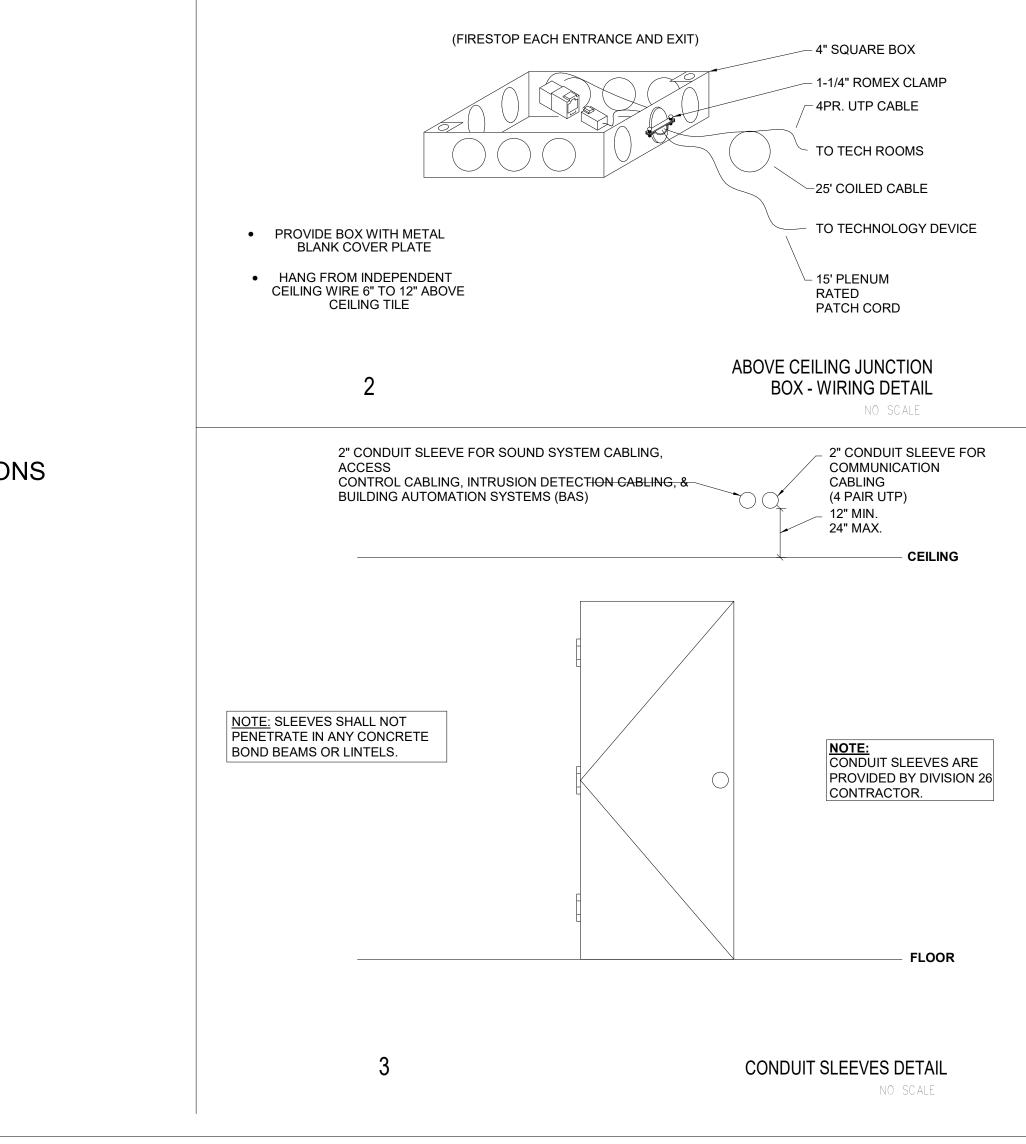
DATA PLATE

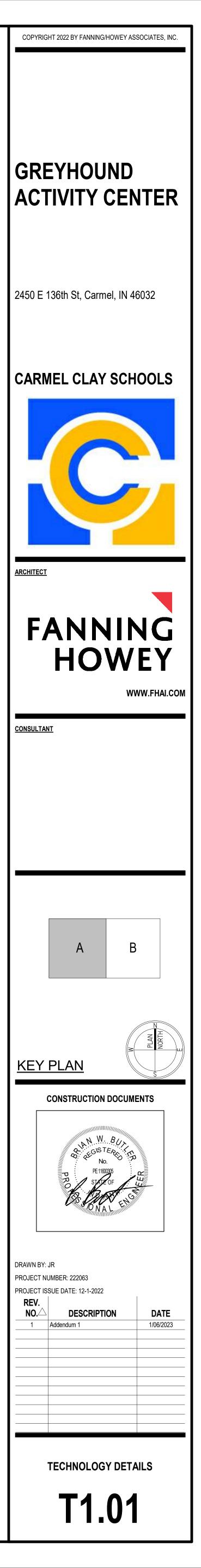
REFER TO AV WIRING DETAILS FOR EXACT CONFIGURATIONS OF VIDEO INPUT (V.I.), VIDEO OUTPUT (VO), AND AV CABINET LOCATIONS..

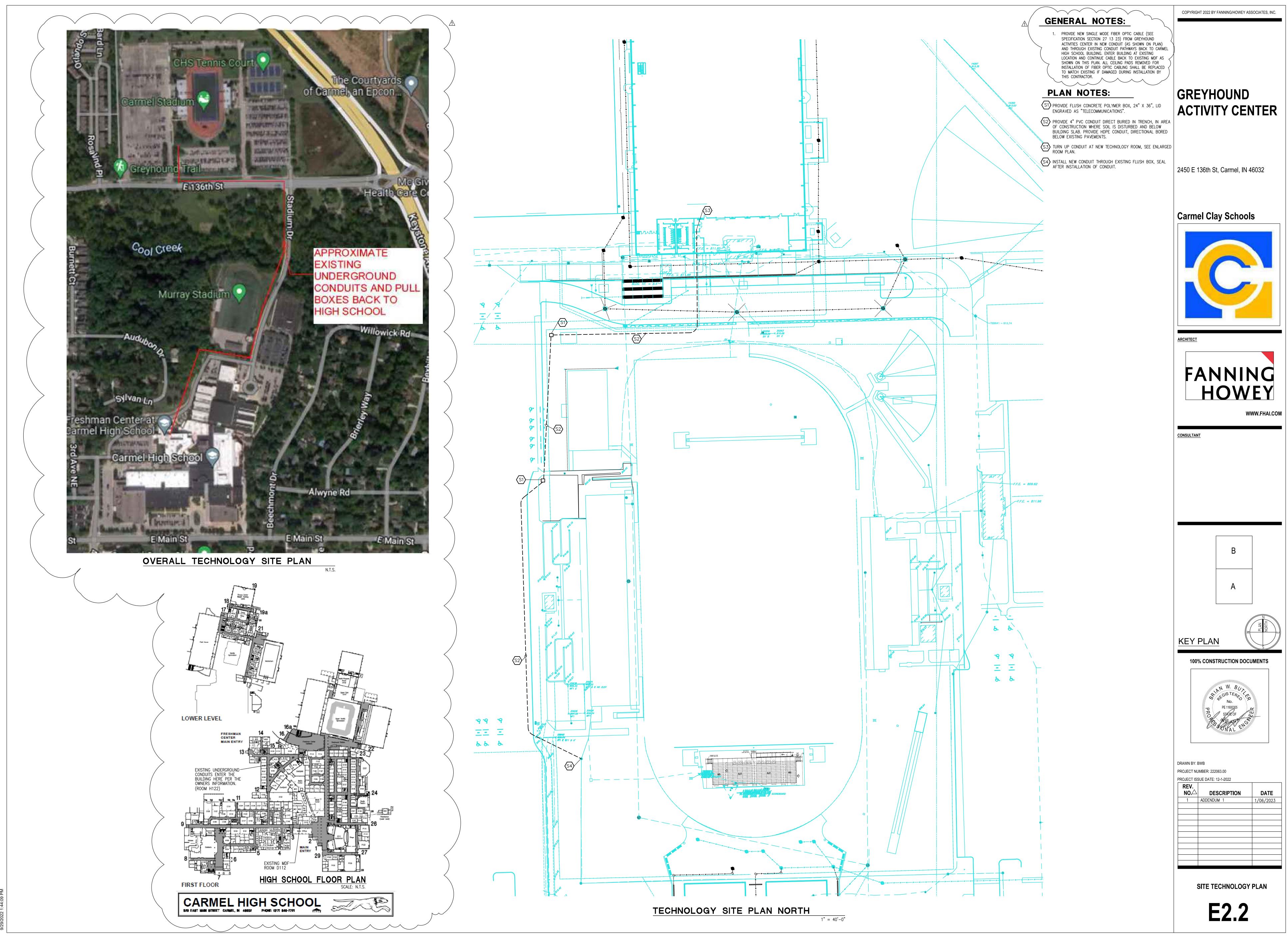
> WALL PLATE CONFIGURATIONS NO SCALE

## TECHNOLOGY FACEPLATE ABBREVIATIONS

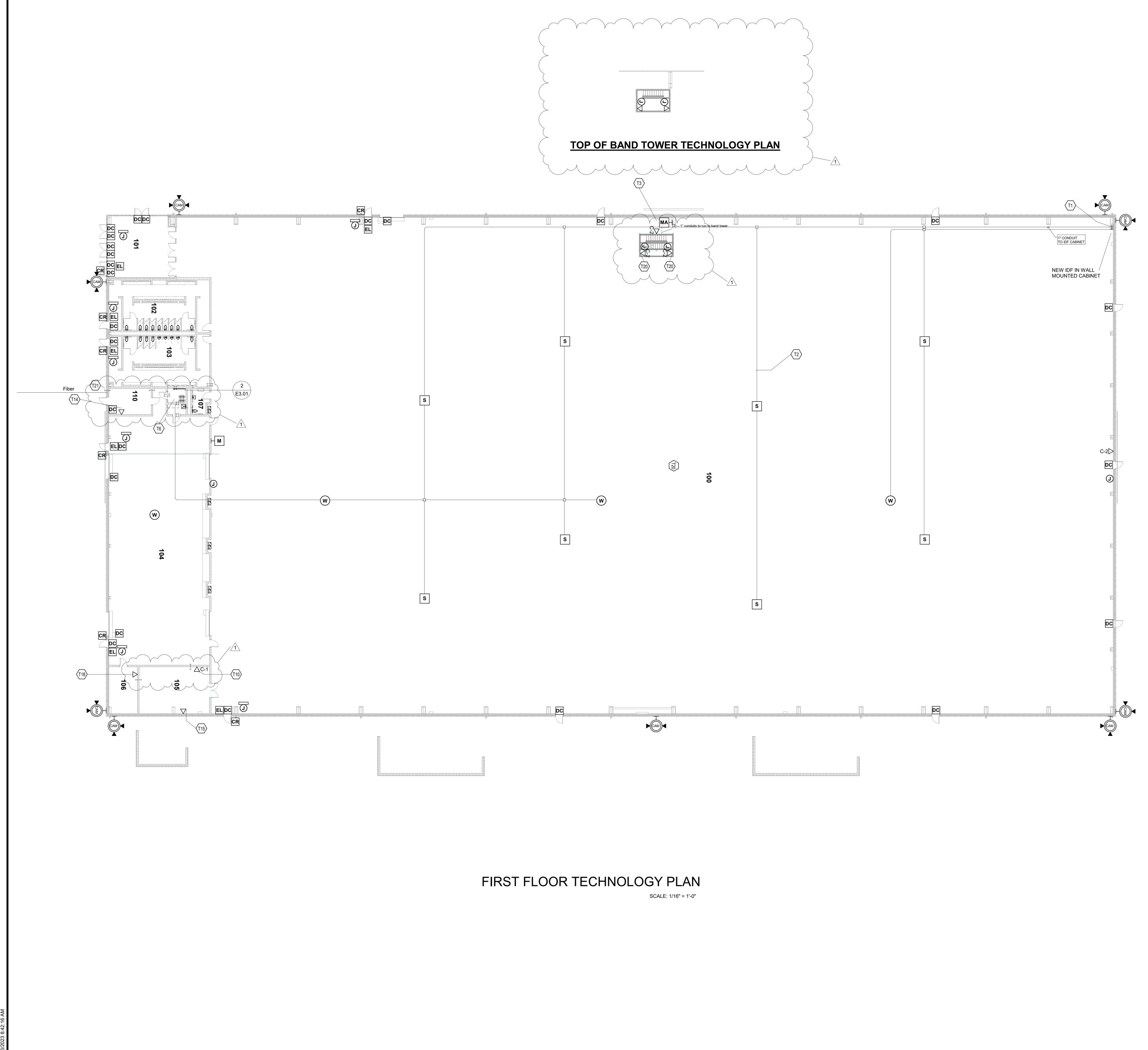
C - RJ45 DATA JACK B - BLANK INSERT WB - RJ-45 JACK FOR USB INTERACTIVITY HD - RJ45 JACK FOR VIDEO 3.5mm - 3.5mm SOLDER JACK HDMI - HDMI CONNECTOR







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ROOM LEGEND - FIRST FLOOR UNIT A		
ROOM NO.	ROOM NAME	AREA (SF)
		•
100	FIELD AREA	80806 SF
101	VESTIBULE	748 SF
102		
103	MEN'S ROOM	857 SF
104	BAND STORAGE	4551 SF
105	MECHANICAL	596 SF
106	ELECTRICAL	243 SF
107	FAMILY RESTROOM	74 SF
108	MOP SINK	
109	IT ROOM	47 SF
110	FIRE RISER ROOM	199 SF
111	TOWER	110 SF

### ROUGH-IN PLAN NOTES

T1	PROVIDE WALL SWING CABINET FOR IDF AND SOUND EQUIPMENT. PROVIDE FIBER OPTIC CABLE BACK TO EXISTING MDF. COORDINATE LOCATION IN FIELD. INSTALL CABLING ABOVE ACCESSIBLE CORRIDOR CEILINGS.
Τ2	ROUTE CABLING IN CONDUIT PARALLEL OR PERPENDICULAR TO BAR JOISTS. ALL CONDUIT AND BOXES SHALL BE INSTALLED SO THAT EQUIPMENT IS NO LOWER THAN BOTTOM CHORD OF TRUSS.
Т3	BLUETOOTH WALLPLATE TRANCIEVER AND MICROPHONE / AUX INPUT MOUNTED IN A TWO GANG TECHNOLOGY BOX. REFER TO DETAIL 1 ON SHEET T1.02.
Τ6	LOCATION OF MC/ER-MAIN EQUIPMENT ROOM WITH VOICE, VIDEO AND DATA EQUIPMENT WITH UPS ETC. REFERENCE TO SPECIFICATION SECTION 271100 AND DETAIL 3/T1.02 FOR MORE INFORMATION.
Г10	PROVIDE CABLES FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
Г14	PROVIDE CABLE FOR WATER METER WITH SECONDARY ENTRANCE PROTECTION. VERIFY EXACT LOCATION WITH PLUMBING CONTRACTOR.
Г15	PROVIDE CABLE FOR GAS METER WITH SECONDARY ENTRANCE PROTECTION. VERIFY EXACT LOCATION WITH PLUMBING CONTRACTOR.
Г18	PROVIDE CABLES FOR FIRE ALARM PANEL. COORDINATE EXACT LOCATION WITH FIRE ALARM CONTRACTOR PRIOR TO INSTALLATION.
Г20	PROVIDE SURFACE MOUNTED STYLE COVERPLATES FOR EACH DATA BOX AT EACH OF TWO BALCONIES AT TOWER
Г21	PROVIDE 4" CONDUIT SLEEVES

T21

