Lillian Schmitt Elementary – Bid Package #2

Addendum #2

March 15, 2024

This addendum is hereby made a part of the Drawings and Specifications on the subject work as though originally included therein. The following amendments, additions, and/or corrections shall govern this package.

General

1) All substitution requests and questions must be submitted to nwerner@maxwellbuilds.com by 12:00 PM on Monday, March 18, 2024. This will be the cut-off for the final Addendum that will be issued Wednesday, March 20, 2024.
2) Revised Alternates, Unit Prices, and Allowances Forms that reflect the changes made on Addendums will be issued via Addendum 3 on Wednesday 3/20/24. Updated forms to be included within bid envelope.
3) All BC's are responsible for protecting finished surfaces. When working over top of finished casework or flooring the finished material must first be protected with RAM Board or a similar protectant. Joints must be taped and maintained. If temporary floor protection (RAM Board or equivalent with taped joints) gets damaged, the BC that causes the damage shall fix the temporary protection immediately.
4) CM/Owner will pay for all material testing on this project. Testing to be coordinated by Bid Category requiring the testing.
5) Please disregard the "Schedule of Alternates (Section 3.01)" listed in Specification Section 01 23 00. All other spec section verbiage to remain. Please refer to the Alternates added in addendums and "Specification Section 00 43 23 Alternates Form" located in DIV 00-01 specifications.
6) Updated bid forms including revised Alternates Form, Unit Prices Form, and Allowances Form will be issued in the last addendum.
7) **Bid Category #1 General Trades**
    a. It is the responsibility of BC-6, Flooring and Tiling, to demo wall tile at all walls that are existing to remain. It is the responsibility of BC-1, General Trades, to demo wall tile at all walls that are to be removed complete.
    b. Spec Section 06 42 16 Flush Wood Paneling has hereby been removed from this BC's scope of work.
    c. All toilet accessories are to be installed by BC-1, General Trades.
    d. BC-1 to include **$2,500 per thousand brick Allowance**. Allowance includes furnishing face brick. Material allowance and installation is included in this Section and is part of Contract Sum/Price.
8) **Bid Category #3 Concrete**
    a. BC-3 is responsible for caulking exterior construction and expansion joints.

9) **Bid Category #6 Flooring/Tiling**
    a. The flooring contractor, BC-6, is responsible for all required thresholds/transitions.
    b. It is the responsibility of BC-6, Flooring and Tiling, to demo wall tile at all walls that are existing to remain. It is the responsibility of BC-1, General Trades, to demo wall tile at all walls that are to be removed complete.
    c. Areas that require self-leveler, must be prepped properly before installation of self-leveler. Floors will not be accepted where self-leveler is applied over existing adhesive.
    d. It is the responsibility of this BC to seal LVT to adjacent walls with approved joint sealant.
10) **Bid Category #8 Plumbing/HVAC**
    a. It is the responsibility of BC-8 to provide and install all plumbing fixtures and equipment. This was NOT pre-purchased by the owner. See attached updated 22 40 00 specification.
11) **Bid Category #10 Painting and Coatings**
    a. The Painting and Coatings Contractor, BC-10, is responsible for painting electrical/technology conduits/pathways, sprinkler piping, and MEP Equipment/piping as indicated on drawings and specifications. BC-10 to check painting requirements in each pertinent MEP item specification.

Questions and Answers

1) In spec section 011200 for Bid Category #8 – Plumbing/Heating, Ventilation, and Air Conditioning (1.6 – N – #105.) calls for "BC-9" to be responsible for required roofing demo and repair at LSE to allow for all scope of work to be completed. Please confirm which BC is responsible for this.
    a. CM Response: BC-8 is responsible for required roofing demo and repair at LSE to allow for all scope of work to be completed.
2) On drawing AD201D is calls out for Cafeteria 196 stage to get demo. Transition between LVT 2 and Existing Hardwood Gym Flooring. Who is responsible for the aluminum threshold between the new LVT floor and the Existing Wood?
    a. CM Response: The flooring contractor, BC-6, is responsible for all required thresholds/transitions.
3) Who is responsible for painting electrical/technology conduits/pathways, sprinkler piping, and MEP Equipment/piping?
    a. CM Response: The Painting and Coatings Contractor, BC-10, is responsible for painting electrical/technology conduits/pathways, sprinkler piping, and MEP Equipment/piping as indicated on drawings and specifications. BC-10 to check painting requirements in each pertinent MEP item specification.
4) In the Multiple Contract Summary, Section 064000 appears to be assigned to both BP1 and BP4. Can you confirm all millwork will be by BP4?
    a. CM Response: This is confirmed. All new Millwork to be by BC-4.
5) Who is responsible for wall tile demo?
    a. CM Response: It is the responsibility of BC-6, Flooring and Tiling, to demo wall tile at all walls that are existing to remain. It is the responsibility of BC-1, General Trades, to demo wall tile at all walls that are to be removed complete.
6) Which BC is responsible for caulking exterior construction and expansion joints?
    a. CM Response: BC-3 is responsible for caulking exterior construction and expansion joints.

7) It appears that there aren't any toilet accessories called out at sinks in areas located outside of toilet rooms. Are these to be provided and installed by owner? Please advise.
    a. Response Per CSO's Attached Narrative: Toilet accessories at sinks located outside of toilet rooms are to be provided by owner and installed by contractor. Paper towel and soap dispensers are to be provided at every sink.
    b. CM Response: All toilet accessories are to be installed by BC-1, General Trades.
8) Please clarify where self-leveling underlayment is to be installed?
    a. CM Response: Please refer to drawings and specifications. Self-leveling underlayment to be installed in areas indicated by Note F9.
9) Is there any existing casework being reused? It appears the elevations don't reflect all the casework in the plan views. Please advise.
    a. Response Per CSO's Attached Narrative: All elevations are to be in accordance with the casework elevation tags on the A900 series equipment plans. Tags noted as "Sim" or "Opp" are referring to "similar" casework elevations, and the classroom number listed in the elevation title can be disregarded.
10) Please advise how data/intercom cable should be routed within the tunnel. Should all cabling be installed in conduit or are j-hooks acceptable?
    a. Response Per CSO's Attached Narrative: Cabling shall be supported using standards compliant products and methods as specified in Section 27 05 28 – Pathways for Communications Systems.

Updated Specifications:

1) Refer to Addendum #2 Document Attached from CSO Noting Changes.
2) Please disregard the "Schedule of Alternates (Section 3.01)" listed in Specification Section 01 23 00. All other spec section verbiage to remain. Please refer to the Alternates added in addendums and "Specification Section 00 43 23 Alternates Form" located in DIV 00-01 specifications.
3) Refer to attached specs which have been **removed.** Refer to sections above to see which bid categories specs were removed from.
    a. REMOVE spec section 06 42 16 Flush Wood Paneling

Updated Drawings:

1) Refer to Addendum #2 Document Attached from CSO Noting Changes
    a. Lillian Schmitt Elementary School – C000, C101, C300, C301, C302, C400, C401, C500, C501, C800, C801, C900, C901, C903, L101, L102, L201, L202, L301, L400, L601, A402, A404, A606, A608, A611, A900, P201D, P202C, P601, MD220, MD302, M201A, M201B, M201C, M202C, M302, M304, M310, M401, ED201D, E001, E201A, E201B, E201C, E201D, E202C, E210, E211A, E211B, E211C, E211D, E212C, E220, E231D, E302, E401, E601, E611, E612, E613

Allowances (updated Allowances form will be issued in final addendum):

1) **Bid Category #1 – General Trades**
    a. Include **$2,500 per thousand brick Allowance**. Allowance includes furnishing face brick. Material allowance and installation is included in this Section and is part of Contract Sum/Price.

Alternates (updated Alternates form will be issued in final addendum):

1) **Alternate #1 – Remove and Replace Bleachers Complete with Hussey (BC-1, BC-9)**
    a. Alternate #1 Description:

i. “Base bid to include existing bleachers to remain. Alternate #1 to include ADD to remove existing bleachers complete and replace with new.
ii. “Base bid to include existing conditions for bleachers. Alternate #1 to include ADD to supply and install necessary power requirements to new bleachers.
iii. Manufacturer: Hussey

2) **Alternate #1A - Remove and Replace Bleachers Complete with Alternate Approved Manufacturer (BC-1, BC-9)**
    a. **Alternate #1A Description:**
        i. “Base bid to include existing bleachers to remain. Alternate #1A to include ADD to remove existing bleachers complete and replace with new.
        ii. “Base bid to include existing conditions for bleachers. Alternate #1A to include ADD to supply and install necessary power requirements to new bleachers.
        iii. Manufacturer: Alternate Approved Manufacturer per Specification 12 66 00
3) **Alternate #7 – Roofing Manufacturers - Carlisle**
    b. Alternate #7 Description: “Base bid is to include Sika Sarnifil as roofing manufacturer in accordance with Division 7 specifications. Alternate #7 to include a deduct for Carlise as roofing manufacturer in accordance with Division 7 specifications.
4) **Alternate #7A – Roofing Manufacturers - Fibertite**
    a. Alternate #7A Description: “Base bid is to include Sika Sarnifil as roofing manufacturer in accordance with Division 7 specifications. Alternate #7A to include a deduct for Fibertite as roofing manufacturer in accordance with Division 7 specifications

ADDENDUM

CSO
ARCHITECTURE · INTERIOR DESIGN

ADDENDUM NO: 2

BID PACKAGE NO: 2

PROJECT: BCSC L.C. Schmitt Elementary Renovations

PROJECT NO: 2021049 DATE: 03/15/2024 BY: Lauren Maloney

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

Addendum Pages: ADD1-1-ADD1-9
Attachments: Specifications: 22 40 00 Plumbing Fixtures, 32 31 19 Decorative Metal Fences and Gates
Revised Sheets: C000, C101, C300, C301, C302, C400, C401, C500, C501, C800, C801, C900, C901, C903, L101, L102, L201, L202, L301, L400, L601, A606, A608, A611, P201D, P202C, P601, MD220, MD302, M201A, M201B, M201C, M202C, M302, M304, M310, M401, ED201D, E001, E201A, E201B, E201C, E201D, E202C, E210, E211A, E211B, E211C, E211D, E212C, E220, E231D, E302, E401, E601, E611, E612, E613

PART 1 - BIDDING AND CONTRACT REQUIREMENTS

1.01 NOT USED

PART 2 - SPECIFICATIONS

2.01 TABLE OF CONTENTS

A. DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

1. Remove 06 42 16 Flush Wood Paneling.

2.02 SECTION 04 20 00 – UNIT MASONRY

A. Add the following paragraph **1.09** as follows:

1.09 ALLOWANCES

A. Allowances: Include allowance stated under provisions of Section 01 20 00 - Allowances. Allowance includes furnishing face brick. Material allowance and installation is included in this Section and is part of Contract Sum/Price.

1. Brick allowance: $2,500 per thousand brick.

2.03 087100 – DOOR INDEX

8831 Keystone Crossing, Indianapolis, IN 46240 | 317.848.7800 | csoinc.net

A. Add the following doors to the door index:

1. DOOR# OD102-1 HS# 38

2. DOOR# OD102-2 HS# 39

2.04 SECTION 09 77 23 – FABRIC-WRAPPED PANELS

A. Add item 2.02.A.**6** as follows:

6. AVL Systems

2.05 SECTION 12 32 16 – MANUFACTURED PLASTIC-LAMINATE-FACED CASEWORK

A. Add item 2.01.A.**5** as follows:

5. Kramer Furniture and Cabinet Makers, Inc.

2.06 SECTION 22 40 00 – PLUMBING FIXTURES

A. This section is to be reissued in its entirety.

B. Remove all verbiage of pre-purchase package.

2.07 SECTION 32 31 19 – DECORATIVE METAL FENCES AND GATES

A. Insert missing section 32 31 19 – DECORATIVE METAL FENCES AND GATES.

PART 3 - DRAWINGS

CIVL

3.01 C000 – TITLE SHEET

A. Modify drawing index to identify the revised sheets & dates under this addendum.

3.02 C101 – DEMOLITION PLAN

B. Modify extents of sawcut lines and demolition of existing pavement & curb to correspond with west courtyard.

C. Modify extents of sawcut lines and demolition of existing pavement for new sidewalk ADA curb ramps along Home Avenue at bus parking drive.

3.03 C300 – GRADING PLAN

D. Modify grading of parking lots to add additional inlet in east bus parking lot.

3.04 C301 – FLOOD ROUTING PLAN

E. Modify flood hatches on east parking, per City drainage comments.

3.05 C302 – GRADING PLAN SOUTH ALTERNATE

F. Add grade elevations for light poles around south drive widening.

3.06 C400 – DRAINAGE PLAN

G. Add inlet 402A and 82 LF of pipe.

H. Add note for existing structure rim adjustment near ADA parking.

I. Modify location of STR 400.

J. Modify lengths of pavement underdrains to 20 LF.

K. Modify casting types at STR 402.

L. Modify pipe lengths leaving STR 403 per City drainage comment. Modified location of STR 403.

M. Modify size & note for roof drains at west courtyard.

3.07 C401 – DRAINAGE PROFILE

N. Add profile for STR 402 – 402A (newly added inlet).

3.08 C500 – UTILITY PLAN

O. Modify location of electric conduit around new location for storm STR 400. Refer to E series of sheets for all specifics on lighting design information.

3.09 C501 – UTILITY PLAN SOUTH ALTERNATE

P. Add sheet to show light pole locations corresponding with site lighting plan. Refer to E series of sheets for all specifics on lighting design information.

3.010 C800 – PLAN DETAILS

Q. Modify Detail 411 per City drainage comment.

R. Add general note to reference City of Columbus Standard Details.

3.011 C801 – PLAN DETAILS

S. Modify name of the sheet.

T. Add detail for Nyloplast structures and typical roof drain connection per City drainage comment.

U. Add general note to reference City of Columbus Standard Details.

3.012 C900 – STORMWATER POLLUTION PREVENTION PLAN

V. Modify disturbance limits along California St at west courtyard.

W. Add inlet protection for additional inlet.

3.013 C901 – STORMWATER POLLUTION PREVENTION NOTES

X. Modify Item B11, per City drainage comment.

3.014 C903 – STORMWATER POLLUTION PREVENTION DETAILS

Y. Add general note to reference City of Columbus Standard Details.

LANDSCAPE

3.015 L101 – MATERIALS PLAN

A. Move ADA parking spaces closer to the main entrance per request from the City.

B. Add pavement replacement near proposed addition.

C. Add Single Wing curb ramp along Home Ave.

D. Replace post curb along the north side of parking lot.

E. Add post curb along the walkway that runs through the center island.

3.016 L102 – MATERIALS PLAN

A. Add pavement replacement near proposed addition.

3.017 L201 – LAYOUT PLAN

A. Update dimensions based on site base changes.

3.018 L202 – LAYOUT PLAN

A. Update dimensions based on site base changes.

3.019 L301 – PLANTING PLAN

A. Update parking interior planting based on comments from the City.

B. Update planting near the proposed addition due to concrete changes in the area.

3.020 L400 - PLANTING DETAILS & SCHEDULE

A. Adjust plant quantities based on planting plan changes.

3.021 L601 – SITE DETAILS

A. Add detail has for single wing curb ramp as shown on the attached sheet.

ARCHITECTURAL

3.022 KEYNOTE LEGEND

A. Add keynote “06 40 00-W PLASTIC LAMINATE ON ¾” PARTICLEBOARD”.

B. Add keynote “09 65 13-A RESILIENT BASE”.

3.023 A402 – WALL SECTIONS

A. Revise insulation keynote tag on 9/A402 - WALL SECTION – TOILET 112A from ~~07 21 00-N MINERAL WOOL BATT INSUALTION~~ to **09 29 00-B SOUND ATTENUATION INSULATION**.

3.024 A404 – ENLARGED PLAN DETAILS

A. Revise insulation keynote tags on 1/A404 – PLAN DETAIL, 4/A404 - PLAN DETAIL and 10/A404 – PLAN DETAIL from ~~07 21 00-N MINERAL WOOL BATT INSUALTION~~ to **09 29 00-B SOUND ATTENUATION INSULATION**.

3.025 A606 – CASEWORK ELEVATIONS

A. Add filler panels above tall and wall casework as noted on the attached sheets.

3.026 A608 – CASEWORK ELEVATIONS

A. Add filler panels above tall and wall casework as noted on the attached sheets.

3.027 A611 – ENLARGED MILLWORK, PLANS, SECTIONS AND DETAILS

A. Revise corridor panel drawings to reflect plastic laminate finish instead of wood and as shown on the attached sheet.

B. Add additional keynotes and dimensions to 9/A611 – ENLARGED MILLWORK SECTION and 8/A611 – ENLARGED MILLWORK SECTION for clarity.

3.028 A900 – EQUIPMENT SCHEDULE

A. Remove “~~PROVIDE BLEACHER BLOCKS AS REQUIRED BY FLOORING MANUFACTURER~~” from the remarks for “GM1”.

PLUMBING

3.029 P201D - FIRST FLOOR PLAN - UNIT D - PLUMBING DEMOLITION

A. This drawing is to be reissued in its entirety.

3.030 P202C – SECOND FLOOR PLAN - UNIT C - PLUMBING

A. This drawing is to be reissued in its entirety.

3.031 P601 – SCHEDULES - PLUMBING

A. This drawing is to be reissued in its entirety.

MECHANICAL

3.032 MD220 – ROOF PLAN – MECHANICAL DEMOLITION

A. This drawing is to be reissued in its entirety.

3.033 MD302 – ENLARGED MEZZANINE LEVEL PLAN – MECHANICAL DEMOLITION

A. This drawing is to be reissued in its entirety.

3.034 M201A – FIRST FLOOR PLAN – UNIT A – MECHANICAL

A. This drawing is to be reissued in its entirety.

3.035 M201B – FIRST FLOOR PLAN – UNIT B - MECHANICAL

A. This drawing is to be reissued in its entirety.

3.036 M201C – FIRST FLOOR PLAN – UNIT C – MECHANICAL

A. This drawing is to be reissued in its entirety.

3.037 M202C – SECOND FLOOR PLAN – UNIT C – MECHANICAL

A. This drawing is to be reissued in its entirety.

3.038 M302 – ENLARGED MEZZANINE LEVEL PLAN – MECHANICAL

A. This drawing is to be reissued in its entirety.

3.039 M304 – ENLARGED PLANS – MECHANICAL

A. This drawing is to be reissued in its entirety.

3.040 M310 – SECTIONS – MECHANICAL

A. This drawing is to be reissued in its entirety.

3.041 M401 – DETAILS – AIR DISTRIBUTION

A. This drawing is to be reissued in its entirety.

ELECTRICAL

3.042 ED201D - FIRST FLOOR PLAN - UNIT D - ELECTRICAL DEMOLITION

A. This drawing is to be reissued in its entirety.

3.043 E001 - SYMBOLS, ABBREVIATIONS, & GENERAL NOTES – ELECTRICAL

A. This drawing is to be reissued in its entirety.

3.044 E201A - FIRST FLOOR PLAN - UNIT A – LIGHTING

A. This drawing is to be reissued in its entirety.

3.045 E201B - FIRST FLOOR PLAN - UNIT B – LIGHTING

A. This drawing is to be reissued in its entirety.

3.046 E201C - FIRST FLOOR PLAN - UNIT C – LIGHTING

A. This drawing is to be reissued in its entirety.

3.047 E201D - FIRST FLOOR PLAN - UNIT D – LIGHTING

A. This drawing is to be reissued in its entirety.

3.048 E202C - SECOND FLOOR PLAN - UNIT C – LIGHTING

A. This drawing is to be reissued in its entirety.

3.049 E210 - TUNNEL PLAN – POWER

A. This drawing is to be reissued in its entirety.

3.050 E211A - FIRST FLOOR PLAN - UNIT A – POWER

A. This drawing is to be reissued in its entirety.

3.051 E211B - FIRST FLOOR PLAN - UNIT B – POWER

A. This drawing is to be reissued in its entirety.

3.052 E211C - FIRST FLOOR PLAN - UNIT C – POWER

A. This drawing is to be reissued in its entirety.

3.053 E211D - FIRST FLOOR PLAN - UNIT D – POWER

A. This drawing is to be reissued in its entirety.

3.054 E212C - SECOND FLOOR PLAN - UNIT C – POWER

A. This drawing is to be reissued in its entirety.

3.055 E220 - ROOF PLAN – ELECTRICAL

A. This drawing is to be reissued in its entirety.

3.056 E231D - FIRST FLOOR PLAN - UNIT D - FIRE ALARM

A. This drawing is to be reissued in its entirety.

3.057 E302 - ENLARGED MEZZANINE LEVEL PLAN – ELECTRICAL

A. This drawing is to be reissued in its entirety.

3.058 E401 - DETAILS – ELECTRICAL

A. This drawing is to be reissued in its entirety.

3.059 E601 - SCHEDULES – ELECTRICAL

A. This drawing is to be reissued in its entirety.

3.060 E611 - SCHEDULES – PANELBOARDS

A. This drawing is to be reissued in its entirety.

3.061 E612 - SCHEDULES – PANELBOARDS

A. This drawing is to be reissued in its entirety.

3.062 E613 - SCHEDULES - PANELBOARDS

A. This drawing is to be reissued in its entirety.

PART 4 - OTHER ITEMS

4.01 NOT USED

PART 5 - QUESTION AND ANSWER

5.01 It appears that there aren't any toilet accessories called out at sinks in areas located outside of toilet rooms. Are these to be provided and installed by owner? Please advise.

A. Response: Toilet accessories at sinks located outside of toilet rooms are to be provided by owner and installed by contractor. Paper towel and soap dispensers are to be provided at every sink.

5.03 Is there any existing casework being reused? It appears the elevations don't reflect all the casework in the plan views. Please advise.

A. Response: All elevations are to be in accordance with the casework elevation tags on the A900 series equipment plans. Tags noted as "Sim" or "Opp" are referring to "similar" casework elevations, and the classroom number listed in the elevation title can be disregarded.

5.04 Please advise how data/intercom cable should be routed within the tunnel. Should all cabling be installed in conduit or are j-hooks acceptable?

A. Response: Cabling shall be supported using standards compliant products and methods as specified in Section 27 05 28 – Pathways for Communications Systems.

END OF ADDENDUM

SECTION 22 40 00 – PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Faucets.
2. Flushometers.
3. Toilet seats.
4. Water closets.
5. Urinals.
6. Lavatories.
7. 2-User Lavatories.
8. Protective shielding guards.
9. Fixture supports.
10. Sinks.

B. Related Sections include the following:

1. Division 22 Section "Drinking Fountains and Water Coolers."

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Diagram power, signal, and control wiring.

C. Operation and maintenance data.

1.3 QUALITY ASSURANCE

A. 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.

B. Regulatory Requirements: Comply with requirements in ICC A117.1, "Accessible and Usable Buildings and Facilities"; Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "Americans with Disabilities Act"; for plumbing fixtures for people with disabilities.

C. Regulatory Requirements: Comply with requirements in Public Law 102-486, "Energy Policy Act," about water flow and consumption rates for plumbing fixtures.

D. NSF Standard: Comply with the latest adopted version of NSF 61, "Drinking Water System Components--Health Effects," for fixture materials that will be in contact with potable water.

E. Select combinations of fixtures and trim, faucets, fittings, and other components that are compatible.

F. Comply with the following applicable standards and other requirements specified for plumbing fixtures:

1. Enameled, Cast-Iron Fixtures: ASME A112.19.1M.
2. Porcelain-Enameled, Formed-Steel Fixtures: ASME A112.19.4M.
3. Stainless-Steel Sinks: ASME A112.19.3.
4. Vitreous-China Fixtures: ASME A112.19.2M.
5. Water-Closet, Flush Valve Trim: ASME A112.19.5.

G. Comply with the following applicable standards and other requirements specified for lavatory/sink faucets:

1. Faucets: ASME A112.18.1.
2. Integral, Atmospheric Vacuum Breakers: ASSE 1001.
3. NSF Potable-Water Materials: NSF 61.
4. Sensor-Actuated Faucets and Electrical Devices: UL 1951.

H. Comply with the following applicable standards and other requirements specified for miscellaneous fittings:

1. Atmospheric Vacuum Breakers: ASSE 1001.
2. Brass and Copper Supplies: ASME A112.18.1.
3. Brass Waste Fittings: ASME A112.18.2.
4. Plastic Tubular Fittings: ASTM F 409.
5. Sensor-Operation Flushometers: ASSE 1037 and UL 1951.
6. Supply Fittings: ASME A112.18.1.

I. Comply with the following applicable standards and other requirements specified for miscellaneous components:

1. Disposers: ASSE 1008 and UL 430.
2. Flexible Water Connectors: ASME A112.18.6.
3. Grab Bars: ASTM F 446.
4. Hose-Coupling Threads: ASME B1.20.7.
5. Off-Floor Fixture Supports: ASME A112.6.1M.
6. Pipe Threads: ASME B1.20.1.
7. Plastic Toilet Seats: ANSI Z124.5.
8. Supply and Drain Protective Shielding Guards: ICC A117.1.

PART 2 - PRODUCTS

2.1 FLUSH VALVE WATER CLOSETS

A. Water Closets; WC-1,2,3,4:

1. Basis-of-Design Product: Subject to compliance with requirements, provide American Standard “Afwall FloWise” 2257.001, or a comparable by the following:

a. Kohler Co.
b. Sloan.
c. Zurn Plumbing Products Group.

2. Description: Wall-mounting, back-outlet, vitreous-china fixture designed for flushometer valve operation.

a. Style: Flushometer valve.
b. Bowl Type: Elongated with siphon-jet design.
c. Height: Refer to the plumbing fixture schedule on the Drawings.
d. Design Consumption: 1.28 gal./flush.
e. Color: White.

2.2 WATER CLOSET FLUSHOMETERS

A. Water Closet; WC-1,2,3:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Sloan Regal 111-SFSM or a comparable by the following:

a. Zurn Plumbing Products Group; Commercial Brass Operation.

2. Description: Flushometer for water-closet type fixture. Include brass body with corrosion and chlorine resistant internal components, dual-filtered bypass, synthetic rubber diaphragm assembly, control stop with check valve, vacuum breaker, copper or brass tubing, and polished chrome-plated finish on exposed parts.

a. Internal Design: Diaphragm operation.
b. Style: Exposed.
c. Inlet Size: NPS 1.
d. Trip Mechanism: Battery powered, infrared sensor actuator.
e. Consumption: 1.28 gal./flush.
f. Tailpiece Size: NPS 1-1/2 and standard length to top of bowl.

2.3 TOILET SEATS

A. Toilet Seats; WC-1,2,3,4:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Bemis Manufacturing Company.
b. Church Seats.
c. Olsonite Corp.

2. Description: Toilet seat for water-closet-type fixture.

a. Material: Molded, solid plastic.
b. Configuration: Open front less cover.
c. Size: Elongated.
d. Hinge Type: Stainless steel, self-sustaining check hinge.

e. Class: Extra heavy-duty, commercial.
f. Color: White.

2.4 FIXTURE SUPPORTS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Josam Company.
2. Smith, Jay R. Mfg. Co.
3. Tyler Pipe; Wade Div.
4. Watts Drainage Products Inc.; a div. of Watts Industries, Inc.
5. Zurn Plumbing Products Group; Specification Drainage Operation.

B. Water-Closet Supports; WC-1,2,3,4:

1. Description: Combination carrier designed for accessible and standard mounting height of wall-mounting, water-closet-type fixture. Include single or double, vertical or horizontal, hub-less waste fitting as required for piping arrangement; faceplates; couplings with gaskets; feet; and fixture bolts and hardware matching fixture. Include additional extension coupling, faceplate, and feet for installation in wide pipe space.

2.5 URINALS

A. Urinals; UR-1,2:

1. Basis-of-Design Product: Subject to compliance with requirements, provide American Standard “Washbrook FloWise” 6590.001 or a comparable product by one of the following:

a. Kohler Co.
b. Sloan.
c. Zurn Plumbing Products Group.

2. Description: Wall-mounting, back-outlet, vitreous-china fixture designed for flushometer valve operation.

a. Type: Washout.
b. Strainer or Trapway: Stainless steel strainer with integral trap.
c. Design Consumption: 0.5 gal./flush.
d. Color: White.
e. Supply Spud Size: NPS 3/4.
f. Outlet Size: NPS 2.

2.6 FIXTURE SUPPORTS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Josam Company.
2. Smith, Jay R. Mfg. Co.

3. Tyler Pipe; Wade Div.
4. Watts Drainage Products Inc.; a div. of Watts Industries, Inc.
5. Zurn Plumbing Products Group; Specification Drainage Operation.

B. Urinal Supports; UR-1,2:

1. Description: Type I, urinal carrier with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet.

2.7 LAVATORIES

A. Lavatories; L-1,2:

1. Basis-of-Design Product: Subject to compliance with requirements, provide American Standard “Lucerne” 0355.012 or a comparable product by one of the following:

   a. Kohler Co.
   b. Sloan.
   c. Zurn Plumbing Products Group.

2. Description: Accessible, wall-mounting, vitreous-china fixture.

   a. Size: 21-1/4 by 18-1/4 inches rectangular.
   b. Faucet Hole Punching: 4” center, three hole.
   c. Color: White.
   d. Overflow: Front.
   e. Construction: Self-draining deck area with contoured back and side splash shields.

2.8 LAVATORY FAUCETS

A. Lavatory Faucets; L-1,2:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Sloan SF-2350 or an approved equal:

2. Description: Sensor-control mixing valve. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

   a. Body Material: Commercial, solid brass.
   b. Finish: Polished chrome plate.
   c. Maximum Flow Rate: 0.5 gpm.
   d. Centers: Three holes with 4-inch deck plate.
   e. Mounting: Deck, exposed.
   f. Inlet(s): NPS 3/8 tubing, with NPS 1/2 male adaptor.
   g. Spout Outlet: Aerator.
   h. Power Source: Battery wall pack.
   i. Temperature Control: Control box mixer.
   j. Warranty: 3-year limited.

2.9 2-USER LAVATORIES

A. 2-User Lavatories; L-3:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Bradley SS-2N-IRP-TMA or a comparable by one of the following:

   a. Acorn.
   b. Willoughby.

2. Description: Solid surface two-station wash fountain.
3. Construction: Bowl and pedestal panels constructed of molded cast polymer densified solid surface material composed of polyester/acrylic resin, UV stabilizer, aluminum trihydrate and mineral fillers. Exposed trim surfaces shall be stainless steel polished to satin finish.
4. Vandal Resistance: Valves, water supplies, and waste connections are concealed within the pedestal. The pedestal panels shall be removable and secured with vandal resistant security screws.
5. Accessories: Wash fountain shall include all water and waste supplies (shipped loose for field installation), wall mounting bracket.
6. Color: Color to be selected by Architect from the standard color pallet.
7. Faucets: Integral infrared faucets.

2.10 PROTECTIVE SHIELDING GUARDS

A. Protective Shielding Pipe Covers; L-1,2:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Truebro 103 E-Z or a comparable product by one of the following:

   a. Insul-Tect Products Co.; a Subsidiary of MVG Molded Products.
   b. Plumberex Specialty Products Inc.

2. Description: Manufactured plastic wraps for covering plumbing fixture hot and cold water supplies and trap and drain piping. Comply with Americans with Disabilities Act (ADA) requirements.

   a. Material: Molded vinyl.
   b. Nominal Thickness: 1/8” constant wall.
   c. UV Protection: Required.
   d. Fasteners: Internal, reusable fasteners.
   e. Color: White.

2.11 FIXTURE SUPPORTS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Josam Company.

2. Smith, Jay R. Mfg. Co.
3. Tyler Pipe; Wade Div.
4. Watts Drainage Products Inc.; a div. of Watts Industries, Inc.
5. Zurn Plumbing Products Group; Specification Drainage Operation.

B. Lavatory Supports; L-1,2,3:

1. Description: Type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet.

2.12 CLASSROOM SINKS

A. Classroom Sinks; SK- 1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay LRAD-221950 or a comparable product by one of the following:

   a. Just Manufacturing Company.
   b. Franke Group.

2. Description: One-bowl, counter-mounting, stainless-steel kitchenette type sink.

   a. Overall Dimensions: 22 by 19-1/2 by 5 inches.
   b. Metal Thickness: 18 gauge type 304 (18-8) stainless steel.
   c. Faucet Hole Punching: Three holes, 4-inch centers.
   d. Bowl Dimensions: 18 by 14 by 4-7/8 inches.
   e. Drain: 3-1/2-inch stainless steel crumb cup with offset waste; Elkay LKAD35.

      1) Location: Rear back of bowl.

3. Subject to compliance with requirements, provide trim products by one of the following:

   a. McGuire Manufacturing Company.
   b. Engineered Brass Company.
   c. Keeney Manufacturing Company.

4. Sink Trim

   a. Supplies: Chrome-plated copper with 1/2" NPT x 3/8” OD loose key stops.
   b. Drain Piping: NPS 1-1/2 chrome-plated cast-brass P-trap with cleanout; NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon.

5. Faucet: Basis-of-Design Product: Subject to compliance with requirements, provide Chicago 201-AE35ABCP or a comparable product by one of the following:

   a. T & S Brass and Bronze Works, Inc.
   b. Zurn Plumbing Products Group; Commercial Brass Operation.

6. Description: Sink faucet without spray. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

   a. Body Material: Commercial, solid brass.

b. Finish: Polished chrome plate.
c. Maximum Flow Rate: 2.2 gpm.
d. Mixing Valve: 2 3/8 blade handle
e. Centers: 8 inches.
f. Mounting: Deck, concealed.
g. Handle(s): Lever with color coded index button.
h. Inlet(s): NPS 1/2 male shank.
i. Spout Type: 6 1/4” swing, solid brass.
j. Spout Outlet: Aerator.
k. Operation: Quarter-turn, renewable compression, manual.

B. Activity Commons Sink; SK-2:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay LR-3322 or a comparable product by one of the following:

a. Just Manufacturing Company.
b. Franke Group.

2. Description: Two-bowl, counter-mounting, stainless-steel kitchen type sink.

a. Overall Dimensions: 33 by 22 by 8-1/8 inches.
b. Metal Thickness: 18 gauge type 302 (18-8) stainless steel.
c. Faucet Hole Punching: Four holes, 4-inch centers.
d. Left Bowl Dimensions: 13-1/2 by 16 by 8-1/8 inches.
e. Drain: 3-1/2-inch stainless steel crumb cup; Elkay LK35.

1) Location: Center of bowl.

f. Right Bowl Dimensions: 13-1/2 by 16 by 8-1/8 inches.
g. Drain: 3-1/2-inch stainless steel crumb cup; Elkay LK35

1) Location: Center of bowl.

3. Subject to compliance with requirements, provide trim products by one of the following:

a. McGuire Manufacturing Company.
b. Engineered Brass Company.
c. Keeney Manufacturing Company.

4. Sink Trim

a. Supplies: Chrome-plated copper with 1/2" NPT x 3/8” OD loose key stops.
b. Continuous Waste Connection: NPS 1-1/2 chrome-plated cast brass tubing and tailpiece with center outlet.
c. Drain Piping: NPS 1-1/2 chrome-plated cast-brass P-trap with cleanout; NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon.

5. Faucet: Basis-of-Design Product: Subject to compliance with requirements, provide Chicago 201-AE35ABCP or a comparable product by one of the following:

a. T & S Brass and Bronze Works, Inc.
b. Zurn Plumbing Products Group; Commercial Brass Operation.

6. Description: Sink faucet without spray. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

    a. Body Material: Commercial, solid brass.
    b. Finish: Polished chrome plate.
    c. Maximum Flow Rate: 2.2 gpm.
    d. Mixing Valve: 2 3/8 blade handle
    e. Centers: 8 inches.
    f. Mounting: Deck, concealed.
    g. Handle(s): Lever with color coded index button.
    h. Inlet(s): NPS 1/2 male shank.
    i. Spout Type: 6 1/4” swing, solid brass.
    j. Spout Outlet: Aerator.
    k. Operation: Quarter-turn, renewable compression, manual.

2.13 CLINIC SINKS

A. Clinic Sink; SK-3:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay LRAD-221950 or a comparable product by one of the following:

    a. Just Manufacturing Company.
    b. Franke Group.

2. Description: One-bowl, counter-mounting, stainless-steel kitchenette type sink.

    a. Overall Dimensions: 22 by 19-1/2 by 5 inches.
    b. Metal Thickness: 18 gauge type 304 (18-8) stainless steel.
    c. Faucet Hole Punching: Three holes, 4-inch centers.
    d. Bowl Dimensions: 18 by 14 by 4-7/8 inches.
    e. Drain: 3-1/2-inch stainless steel crumb cup with offset waste; Elkay LKAD35.

        1) Location: Rear back of bowl.

3. Subject to compliance with requirements, provide trim products by one of the following:

    a. McGuire Manufacturing Company.
    b. Engineered Brass Company.
    c. Keeney Manufacturing Company.

4. Sink Trim

    a. Supplies: Chrome-plated copper with 1/2" NPT x 3/8” OD loose key stops.
    b. Drain Piping: NPS 1-1/2 chrome-plated cast-brass P-trap with cleanout; NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon.

5. Faucet: Basis-of-Design Product: Subject to compliance with requirements, provide Chicago 201-AE35ABCP or a comparable product by one of the following:

    a. T & S Brass and Bronze Works, Inc.
    b. Zurn Plumbing Products Group; Commercial Brass Operation.

6. Description: Sink faucet without spray. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

    a. Body Material: Commercial, solid brass.
    b. Finish: Polished chrome plate.
    c. Maximum Flow Rate: 2.2 gpm.
    d. Mixing Valve: 2 3/8 blade handle
    e. Centers: 8 inches.
    f. Mounting: Deck, concealed.
    g. Handle(s): Lever with color coded index button.
    h. Inlet(s): NPS 1/2 male shank.
    i. Spout Type: 6 1/4” swing, solid brass.
    j. Spout Outlet: Aerator.
    k. Operation: Quarter-turn, renewable compression, manual.

2.14 MOTHERS ROOM SINKS

A. Mothers Room Sink; SK-4:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay LRAD-221950 or a comparable product by one of the following:

    a. Just Manufacturing Company.
    b. Franke Group.

2. Description: One-bowl, counter-mounting, stainless-steel kitchenette type sink.

    a. Overall Dimensions: 22 by 19-1/2 by 5 inches.
    b. Metal Thickness: 18 gauge type 304 (18-8) stainless steel.
    c. Faucet Hole Punching: Three holes, 4-inch centers.
    d. Bowl Dimensions: 18 by 14 by 4-7/8 inches.
    e. Drain: 3-1/2-inch stainless steel crumb cup with offset waste; Elkay LKAD35.

        1) Location: Rear back of bowl.

3. Subject to compliance with requirements, provide trim products by one of the following:

    a. McGuire Manufacturing Company.
    b. Engineered Brass Company.
    c. Keeney Manufacturing Company.

4. Sink Trim

    a. Supplies: Chrome-plated copper with 1/2" NPT x 3/8” OD loose key stops.
    b. Drain Piping: NPS 1-1/2 chrome-plated cast-brass P-trap with cleanout; NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon.

5. Faucet: Basis-of-Design Product: Subject to compliance with requirements, provide Chicago 201-AE35ABCP or a comparable product by one of the following:

    a. T & S Brass and Bronze Works, Inc.
    b. Zurn Plumbing Products Group; Commercial Brass Operation.

6. Description: Sink faucet without spray. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

    a. Body Material: Commercial, solid brass.
    b. Finish: Polished chrome plate.
    c. Maximum Flow Rate: 2.2 gpm.
    d. Mixing Valve: 2 3/8 blade handle
    e. Centers: 8 inches.
    f. Mounting: Deck, concealed.
    g. Handle(s): Lever with color coded index button.
    h. Inlet(s): NPS 1/2 male shank.
    i. Spout Type: 6 1/4” swing, solid brass.
    j. Spout Outlet: Aerator.
    k. Operation: Quarter-turn, renewable compression, manual.

2.15 STAFF DINING SINKS

A. Staff Dining Sink; SK-5:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay LRAD-221955 or a comparable product by one of the following:

    a. Just Manufacturing Company.
    b. Franke Group.

2. Description: One-bowl, counter-mounting, stainless-steel kitchenette type sink.

    a. Overall Dimensions: 22 by 19-1/2 by 5-1/2 inches.
    b. Metal Thickness: 18 gauge type 304 (18-8) stainless steel.
    c. Faucet Hole Punching: Three holes, 4-inch centers.
    d. Bowl Dimensions: 18 by 14 by 5-1/2 inches.
    e. Drain: 3-1/2-inch stainless steel crumb cup with offset waste; Elkay LKAD35.

        1) Location: Rear back of bowl.

3. Subject to compliance with requirements, provide trim products by one of the following:

    a. McGuire Manufacturing Company.
    b. Engineered Brass Company.
    c. Keeney Manufacturing Company.

4. Sink Trim

    a. Supplies: Chrome-plated copper with 1/2" NPT x 3/8” OD loose key stops.
    b. Drain Piping: NPS 1-1/2 chrome-plated cast-brass P-trap with cleanout; NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon.

5. Faucet: Basis-of-Design Product: Subject to compliance with requirements, provide Chicago 201-AE35ABCP or a comparable product by one of the following:

    a. T & S Brass and Bronze Works, Inc.
    b. Zurn Plumbing Products Group; Commercial Brass Operation.

6. Description: Sink faucet without spray. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

    a. Body Material: Commercial, solid brass.
    b. Finish: Polished chrome plate.
    c. Maximum Flow Rate: 2.2 gpm.
    d. Mixing Valve: 2 3/8 blade handle
    e. Centers: 8 inches.
    f. Mounting: Deck, concealed.
    g. Handle(s): Lever with color coded index button.
    h. Inlet(s): NPS 1/2 male shank.
    i. Spout Type: 6 1/4” swing, solid brass.
    j. Spout Outlet: Aerator.
    k. Operation: Quarter-turn, renewable compression, manual.

2.16 ART ROOM/STEM LAB SINKS

A. Free Standing Sinks; SK-6,8:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Elkay 1C18X18-0X or a comparable product by one of the following:

    a. Swan.
    b. Fiat.
    c. Just
    d. Franke
    e. Stern-Williams.

2. Description: One-bowl, Free standing, stainless steel utility tub.

    a. Overall Dimensions: 23 by 23-13/16 by 44-3/4 inches.
    b. Bowl Dimensions: 18 by 18 by 12 inches.
    c. Faucet Hole Punching: Two holes, 8-inch centers.

3. Subject to compliance with requirements, provide trim products by one of the following:

    a. McGuire Manufacturing Company.
    b. Engineered Brass Company.
    c. Keeney Manufacturing Company.

4. Sink Trim

    a. Drain: Chrome plated brass tray plug with rubber stopper and chain.
    b. Supplies: Chrome-plated copper with 1/2" NPT x 3/8” OD loose key stops.
    c. Drain Piping SK-6: Provide Solids Interceptor (SI-A), Zurn Z1180 or equivalent and NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon(s).
    d. Drain Piping SK-8: NPS 1-1/2 chrome-plated cast-brass P-trap with cleanout; NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon(s).

5. Faucet: Basis-of-Design Product: Subject to compliance with requirements, provide Elkay LK940GN05T4H or a comparable product by one of the following:

a. Chicago
b. T & S Brass and Bronze Works, Inc.
c. Zurn Plumbing Products Group; Commercial Brass Operation.

6. Description: Manual-control mixing valve with double bend spout. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

a. Body Material: Commercial, solid brass.
b. Finish: Polished chrome plate.
c. Mixing Valve: Two-handle.
d. Centers: 8 inches.
e. Mounting: Backsplash, exposed.
f. Handle(s): 4” wristblade handle with color coded index button.
g. Inlet(s): NPS 1/2 male shank.
h. Spout Type: Swing, gooseneck, solid brass.
i. Spout Outlet: Full flow.
j. Operation: Quarter-turn, renewable compression, manual.

B. Countertop Sink ADA; SK-7,9:

1. Sink: Basis-of-Design Product: Subject to compliance with requirements, provide Elkay LRAD252165PD manufacturing Company.
2. Description: Single Compartment, drop in, stainless-steel type sink.

a. Overall Dimensions: 25 by 21-1/4 by 6-1/2 inches.
b. Metal Thickness: 18 gauge type 304 (18) stainless steel.
c. Faucet Hole Punching: Three holes, 4-inch centers.
d. Bowl Dimensions: 21 by 15-3/4 by 6-3/8 inches.
e. Drain: 3-3/8-inch; Elkay LKPD1 Perfect Drain and Strainer.

1) Location: Rear Center of bowl.

3. Subject to compliance with requirements, provide trim products by one of the following:

a. McGuire Manufacturing Company.
b. Engineered Brass Company.
c. Keeney Manufacturing Company.

4. Sink Trim

a. Supplies: Chrome-plated copper with 1/2" NPT x 3/8” OD loose key stops.
b. Drain Piping SK-7: Provide Solids Interceptor (SI-A), Zurn Z1180 or equivalent, Installed in cabinet next to sink. NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon(s).
c. Drain Piping SK-9: NPS 1-1/2 chrome-plated cast-brass P-trap with cleanout; NPS 1-1/2 17 gauge tubular brass waste to wall; and wall escutcheon(s).

5. Faucet: Basis-of-Design Product: Subject to compliance with requirements, provide Chicago 201-AGN8AE35ABCP or a comparable product by one of the following:

a. T & S Brass and Bronze Works, Inc.
b. Zurn Plumbing Products Group; Commercial Brass Operation.

6. Description: Manual-control mixing valve with gooseneck spout. Coordinate faucet inlets with supplies and fixture holes; coordinate outlet with spout and fixture receptor.

    a. Body Material: Commercial, solid brass.
    b. Finish: Polished chrome plate.
    c. Maximum Flow Rate: 1.5 gpm.
    d. Mixing Valve: Two-handle.
    e. Centers: 8 inches.
    f. Mounting: Deck, concealed.
    g. Handle(s): Lever with color coded index button.
    h. Inlet(s): NPS 1/2 male shank.
    i. Spout Type: 8” gooseneck, swing, solid brass.
    j. Spout Outlet: Aerator.
    k. Operation: Quarter-turn, renewable compression, manual

2.17 MOP SINKS

A. Mop Sinks; MS-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Fiat MSB-2424 or a comparable product by one of the following:

    a. Swan.
    b. Stern-Williams.

2. Description: One-bowl, floor-mounting, molded stone utility sink.

    a. Overall Dimensions: 24 by 24 by 10 inches.
    b. Drain: 3-inch I.P.S. cast brass with 16 gauge stainless steel dome strainer and lint basket.
    c. Accessories:

        1) Hose and Bracket: Stainless steel hose bracket, spring-loaded rubber grip, 30” long heavy duty 5/8-inch rubber hose; Fiat 832 AA.
        2) Mop Hanger: Stainless steel mop hanger bracket, 24 by 3 inches, 3-spring loaded rubber grips; Fiat 889 CC.
        3) Stainless steel wall guards: Heavy gauge stainless steel, two/three panels as required; Fiat MSG 2424.

2.18 MOP SINK FAUCETS

A. Mop Sink Faucets; MS-1:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Chicago 897-RFC or a comparable product by one of the following:

    a. T & S Brass and Bronze Works, Inc.
    b. Zurn Plumbing Products Group; Commercial Brass Operation.

2. Description: Service sink faucet with check stops in shanks, vacuum breaker, hose-thread outlet, and pail hook.

a. Body Material: Commercial, solid brass.
b. Finish: Rough chrome plate.
c. Mixing Valve: Two-handle.
d. Centers: Adjustable.
e. Mounting: Back/wall, exposed.
f. Handle(s): Lever with color coded index button.
g. Inlet(s): NPS 1/2 male shank, with integral check stops.
h. Spout Type: Rigid, solid brass with wall brace.
i. Spout Outlet: Hose thread.
j. Vacuum Breaker: Integral with spout.
k. Operation: Quarter-turn compression, renewable, manual.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturers' written instructions.

B. Install off-floor supports, affixed to building substrate, for wall-mounting fixtures.

1. Use carrier supports with waste fitting and seal for back-outlet fixtures.
2. Use carrier supports without waste fitting for fixtures with tubular waste piping.

C. Install back-outlet, wall-mounting fixtures onto waste fitting seals and attach to supports.

D. Install floor-mounting fixtures on closet flanges or other attachments to piping or building substrate.

E. Install wall-mounting fixtures with tubular waste piping attached to supports.

F. Install fixtures level and plumb according to roughing-in drawings.

G. Install water-supply piping with stop on each supply to each fixture to be connected to water distribution piping. Attach supplies to supports or substrate within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.

H. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.

I. Install tubular waste piping on drain outlet of each fixture to be indirectly connected to drainage system.

J. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for people with disabilities to reach.

K. Install toilet seats on water closets.

L. Install traps on fixture outlets.

1. Exception: Omit trap on fixtures with integral traps.
2. Exception: Omit trap on indirect wastes, unless otherwise indicated.

M. Connect drain outlet hose from dishwasher to drain connection on disposer.

N. Install escutcheons at piping wall and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep-pattern escutcheons if required to conceal protruding fittings. Escutcheons are specified in Division 20 Section "Common Work Materials and Methods for Fire Suppression, Plumbing, and HVAC."

O. Set mop sinks in leveling bed of cement grout. Grout is specified in Division 20 Section "Common Work Materials and Methods for Fire Suppression, Plumbing, and HVAC."

P. Seal joints between fixtures and walls, floors, and countertops using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color. Sealants are specified in Division 07 Section "Joint Sealants."

3.2 CONNECTIONS

A. Piping installation requirements are specified in other Division 20 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.

3.3 FIELD QUALITY CONTROL

A. Verify that installed plumbing fixtures are categories and types specified for locations where installed.

B. Check that plumbing fixtures are complete with trim, faucets, fittings, and other specified components.

C. Inspect installed plumbing fixtures for damage. Replace damaged fixtures and components.

D. Test installed fixtures after water systems are pressurized for proper operation. Replace malfunctioning fixtures and components, then retest. Repeat procedure until units operate properly.

E. Install fresh batteries in sensor-operated mechanisms.

3.4 PROTECTION

A. Provide protective covering for installed fixtures and fittings.

B. Do not allow use of plumbing fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION

SECTION 32 31 19 - DECORATIVE METAL FENCES AND GATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. Section Includes:

1. Decorative aluminum fences.
2. Swing gates.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For fencing and gates.

1. Include plans, elevations, sections, gate locations, post spacing, and mounting attachment details.

C. Samples: For each fence material and for each color specified.

1. Provide Samples 12 inches (300 mm) in length for linear materials.
2. Provide Samples 12 inches (300 mm) square for sheet or plate materials.

D. Delegated-Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.04 CLOSEOUT SUBMITTALS

A. Maintenance Data: For gate operators to include in maintenance manuals.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design aluminum fence and gate system, including comprehensive engineering analysis by a qualified professional engineer, licensed in the State the project is located, using performance requirements and design criteria indicated.

B. Wind Loading:

1. Wind Exposure Category: B.
2. Design Wind Speed: 120 mph (193 kph).

2.02 DECORATIVE ALUMINUM FENCES

A. Decorative Aluminum Fences: Fences made from aluminum extrusions.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Knotwood; a brand of OmniMax International or comparable product by one of the following:

a. Superior Aluminum Products, Inc.
b. Ultra Aluminum Mfg., Inc.
c. Virginia Railing and Gates, LLC.

B. Posts and Rails: Square extruded aluminum tubes and channels.

1. Line Posts: 2-1/2 by 2-1/2 inches (64 by 64 mm) with 0.125-inch (3.18-mm) wall thickness.
2. End and Corner Posts: 2-1/2 by 2-1/2 inches (64 by 64 mm) with 0.125-inch (3.18-mm) wall thickness.
3. Swing Gate Posts: 4 by 4 inches (102 by 102 mm) with 0.250-inch (6.35-mm) wall thickness.

C. Post Caps: Aluminum extrusions that cover entire top of posts and infill.

D. Infill Slats: Extruded-aluminum tubing; nominal 6 by 5/8 inch (150 by 16 mm) rectangular slats, oriented horizontally as indicated on Drawings.

1. Infill Spacing: None.

E. Fasteners: Manufacturer's standard tamperproof, corrosion-resistant, color-coated fasteners matching fence components with resilient polymer washers.

F. Finish exposed welds to comply with NOMMA Guideline 1, Finish #2 - completely sanded joint, some undercutting and pinholes okay.

G. Finish: Manufacturer's standard powder coating.

H. Color: White.

2.03 SWING GATES

A. Gate Configuration: As indicated on drawings.

B. Gate Frame Height: As indicated to match height of fence.

C. Gate Opening Width: As indicated on drawings.

D. Aluminum Frames and Bracing: Fabricate members from square extruded-aluminum tubes size and wall thickness as required to confirm to performance requirements..

E. Additional Rails: Provide as indicated, complying with requirements for fence rails.

F. Infill: Comply with requirements for adjacent fence.

G. Hardware: Reference Section 08 71 00 Door Hardware.

H. Finish exposed welds to comply with NOMMA Guideline 1, Finish #2 - completely sanded joint, some undercutting and pinholes okay.

I. Galvanizing: For items other than hardware that are indicated to be galvanized, hot-dip galvanize to comply with ASTM A 123/A 123M. For hardware items, hot-dip galvanize to comply with ASTM A 153/A 153M.

J. Finish: Manufacturer's standard powder coating.

2.04 ALUMINUM

A. Aluminum, General: Provide alloys and tempers with not less than the strength and durability properties of alloy and temper designated in paragraphs below for each aluminum form required.

B. Extrusions: ASTM B 221 (ASTM B 221M), Alloy 6063-T5.

C. Tubing: ASTM B 429/B 429M, Alloy 6063-T6.

D. Plate and Sheet: ASTM B 209 (ASTM B 209M), Alloy 6061-T6.

E. Die and Hand Forgings: ASTM B 247 (ASTM B 247M), Alloy 6061-T6.

F. Castings: ASTM B 26/B 26M, Alloy A356.0-T6.

2.05 MISCELLANEOUS MATERIALS

A. Concrete: Normal-weight, air-entrained, ready-mix concrete complying with requirements in Section 033000 "Cast-in-Place Concrete" with a minimum 28-day compressive strength of 3000 psi (20 MPa), 3-inch (75-mm) slump, and 1-inch (25-mm) maximum aggregate size.

B. Non-shrink Grout: Factory-packaged, non-staining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M and specifically recommended by manufacturer for exterior applications.

2.06 ALUMINUM FINISHES

A. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 2 mils (0.05 mm). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

1. Color and Gloss: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, construction layout, and other conditions affecting performance of the Work.

B. Do not begin installation before final grading is completed unless otherwise permitted by Architect.

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

3.02 PREPARATION

A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet (152.5 m) or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments. Verify field measurements, surfaces, substrates and conditions are as required and ready to receive Work.

3.03 DECORATIVE FENCE INSTALLATION

A. Install fences according to manufacturer's written instructions.

B. Contractor shall consult with local jurisdictional authorities regarding specific utility locate requirements. Contractor shall arrange for local underground utility locate service to identify and locate potential below- grade utility hazards such as electric, gas, water, sewer, telecommunications and similar infrastructure prior to commencing clearing, digging, excavating or fence installation work.

C. Contractor shall install fencing in accordance with Manufacturer Installation Instructions and approved shop drawings. Fence posts shall be located and spaced in accordance with Manufacturer drawings. Posts shall be set in suitable concrete footers designed and constructed for structural integrity in specific application.

1. Setting of fence posts by other methods (e.g. base plate mounting, grouted core-drilled footers) is permissible only as determined by Architect.
2. Should contractor elect to substitute foundation design, contractor shall make sure design and construction of alternate foundation design will be sufficient for intended application.

D. Post Excavation: Drill or hand-excavate holes for posts in firm, undisturbed soil. Excavate holes to a diameter of not less than 4 times post size and a depth of not less than 24 inches (600 mm) plus 3 inches (75 mm) for each foot (300 mm) or fraction of a foot (300 mm) that fence height exceeds 4 feet (1.2 m).

E. Post Setting: Set posts in concrete with mechanical anchors at indicated spacing into firm, undisturbed soil.

1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
2. Concrete Fill: Place concrete around posts and sleeves and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.

a. Exposed Concrete: Extend 2 inches (51 mm) above grade. Finish and slope top surface to drain water away from post.
b. Concealed Concrete: Top 2 inches (51 mm)] below grade to allow covering with surface material. Slope top surface of concrete to drain water away from post.

3. Posts Set in Concrete: Extend post to within 6 inches (150 mm) of specified excavation depth, but not closer than 3 inches (75 mm) to bottom of concrete.
4. Posts Set into Concrete in Sleeves: Use galvanized-steel pipe sleeves with inside diameter at least 3/4 inch (20 mm) larger than outside diagonal dimension of post, preset and anchored into concrete for installing posts.

a. Extend posts at least 5 inches (125 mm) into sleeve.
b. After posts have been inserted into sleeves, fill annular space between post and sleeve with non-shrink grout, mixed and placed to comply with grout manufacturer's written instructions; shape and smooth to shed water. Finish and slope top surface of grout to drain water away from post.

5. Posts Set into Voids in Concrete: Form or core drill holes not less than 3/4 inch (20 mm) larger than outside diagonal dimension of post.

a. Extend posts at least 5 inches (125 mm) into concrete.
b. Clean holes of loose material, insert posts, and fill annular space between post and concrete with non-shrink grout, mixed and placed to comply with grout manufacturer's written instructions. Finish and slope top surface of grout to drain water away from post.

6. Fence installation may require limited cutting or drilling to accommodate slight variations in field measurements and normal construction tolerances. Contractor shall take reasonable precautions to make sure exposed metal surfaces are properly sealed from environment, as described below.

a. Carefully inspect fence and metal components during installation.
b. Remove metal shavings from drilling or cutting of posts or metal fence components.
c. Where drilling or cutting was determined to be necessary, clean metal surfaces and apply two (2) coats of zinc-rich metal primer to thoroughly cover each cut edge or hole drilled during installation processes. Allow each coat to dry thoroughly.
d. Apply two (2) thin coats of Manufacturer-supplied custom touch-up paint to such locations. Allow each coat to dry thoroughly.
e. Inspect work and verify each drilled or cut metal surface was properly treated, as described above
f. NOTE: Failure to properly clean, prime and finish paint exposed surfaces as described in steps listed above shall void Manufacturer Warranty

3.04 GATE INSTALLATION

A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.05 ADJUSTING

A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

B. Lubricate hardware and other moving parts.

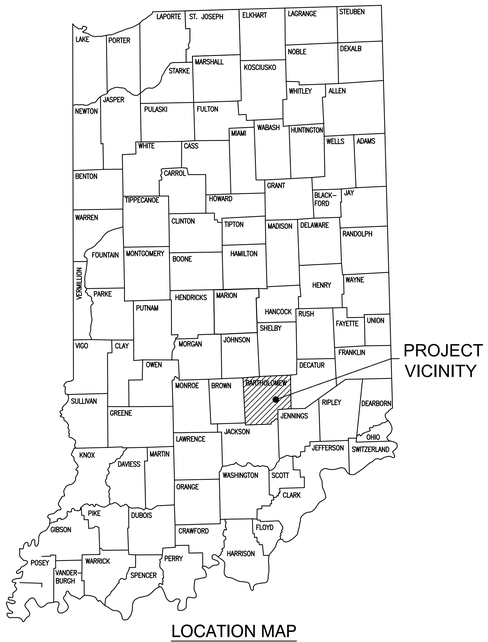
END OF SECTION

LILLIAN SCHMITT ELEMENTARY SCHOOL RENOVATIONS

2675 CALIFORNIA STREET
COLUMBUS, INDIANA 47201

100% CIVIL PLANS
FEBRUARY 16, 2024

ADDENDUM #1: MARCH 8, 2024
ADDENDUM #2: MARCH 15, 2024



PROJECT VICINITY

LOCATION MAP

NORTH

VICINITY MAP
BASE IMAGE FROM GOOGLE EARTH
ACCESSED JAN. 2024
SCALE: 1"=100'
SCALE IN FEET
0 100 200

Drawing Index

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COLUMBUS PLANNING DEPARTMENT
123 WASHINGTON ST.
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(812)376-2550
ATTN: JEFF BERGMAN

FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" (UN-SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18005C0131E (DATED DECEMBER 9, 2014) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF COLUMBUS, BARTHOLOMEW COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

BENCHMARKS:

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ELEV. = 639.79

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ELEV. = 639.31

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ELEV. = 636.88

TBM#4: NORTHEAST BOLT ON TOP OF A FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF THE SITE.
ELEV. = 636.48

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 231071909 WAS ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

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www.ceciinc.com

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction and mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
All work in the reasonably inferred scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

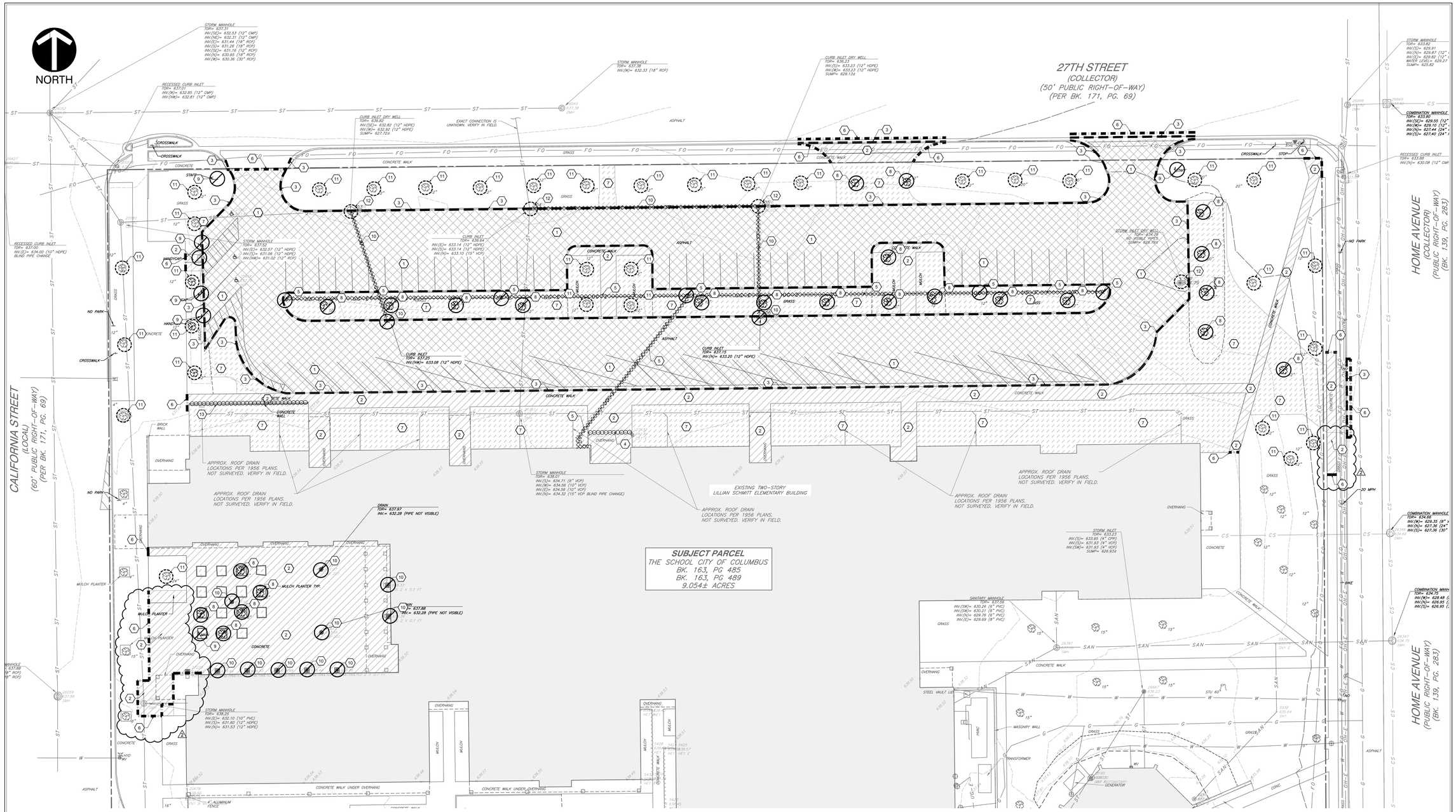
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
TITLE SHEET

CERTIFIED BY:
JONATHAN M. PASYK
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C000

PROJECT NUMBER
2021049



DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFF-SITE OF ALL ITEMS SHOWN ON THE DEMOLITION PLAN INCLUDING ITEMS ENCOUNTERED DURING EXCAVATION OF BUILDING FOUNDATIONS AND UTILITY PLACEMENT.
2. PRIOR TO STARTING DEMOLITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND REMOVAL OF SERVICES TO EXISTING STRUCTURES.
4. ITEMS SHOWN ON THE DEMOLITION PLAN TO BE SALVAGED SHALL BE TRANSPORTED TO LOCATION SPECIFIED BY THE OWNER OR HIS/HER REPRESENTATIVE.
5. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED WITH THE OWNER OR HIS/HER REPRESENTATIVE'S PERMISSION. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.
6. THE CONTRACTOR MAY NOT USE EXPLOSIVES OR BURN DEBRIS.
7. CONDUCT DEMOLITION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, SIDEWALKS AND ANY OTHER ADJACENT OCCUPIED FACILITIES.
8. DO NOT CLOSE OR OBSTRUCT ROADS, SIDEWALKS OR ANY OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND/ OR PROPERTY OWNERS.
9. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSON TRAVERSING THROUGH OR AROUND THE CONSTRUCTION SITE.
10. THE CONTRACTOR SHALL PROTECT FROM DAMAGE, SURROUNDING STRUCTURES, UTILITIES AND OTHER FACILITIES DURING DEMOLITION AND REMOVAL OPERATIONS.
11. BUILDING STRUCTURES INCLUDING FOUNDATIONS OR BASEMENTS SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
12. UTILITIES SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR A MINIMUM OF 95% OF A STANDARD PROCTOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONSTRUCTION SITE AND SURROUNDING AREAS ARE FREE OF ACCUMULATED DEBRIS.

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DEMOLITION ITEMS:

1. REMOVE EXISTING ASPHALT & BASE COMPLETE; DISPOSE OF OFF SITE.
2. REMOVE EXISTING CONCRETE COMPLETE; DISPOSE OF OFF SITE.
3. REMOVE CONCRETE CURB COMPLETE; DISPOSE OF OFF SITE.
4. REMOVE EXISTING BIKE RACKS; COORDINATE REUSE/RELOCATION/DISPOSAL WITH OWNER.
5. REMOVE EXISTING ELECTRICAL LINE, LIGHT POLE, AND CONCRETE BASE COMPLETE. COORDINATE WITH SITE LIGHTING PLANS.
6. FULL DEPTH SAWCUT. CUT CONCRETE AT JOINT LINES WHEN POSSIBLE. (A)
7. EXISTING SITE LANDSCAPING/LAWN/VEGETATION TO BE REMOVED COMPLETE; COORDINATE WITH LANDSCAPING PLANS.
8. REMOVE EXISTING TREE/SHRUB COMPLETE; DISPOSE OF OFF SITE.
9. REMOVE EXISTING SIGN. COORDINATE REUSE/RELOCATION/DISPOSAL WITH OWNER/CITY. DISPOSE OF DISCARDED ITEMS OFF SITE.
10. REMOVE EXISTING STORM SEWER INFRASTRUCTURES AND STORM SEWER COMPLETE; DISPOSE OF OFF SITE.
11. TREE PROTECTION.
12. EXISTING STORM STRUCTURE TO REMAIN, REMOVE AND REPLACE EXISTING CASTING, ADD RISER RINGS OR PRECAST MONOLITHIC SECTION WHEN EXCEEDING 12" OF RISE, REHABILITATE STRUCTURE; REFER TO SHEET C400.
13. REMOVE EXISTING CONCRETE WALL; DISPOSE OF OFF SITE.

SCALE IN FEET
0 20 40

DEMOLITION LEGEND:

- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- EXISTING TREES/LANDSCAPING/LAWN/TRASH TO BE REMOVED
- CONCRETE CURB TO BE REMOVED
- SAWCUT EXISTING PAVEMENT
- EXISTING UTILITY TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- MISC. ITEM TO BE REMOVED
- PROTECT EXISTING ITEM

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
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REVISIONS:
1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

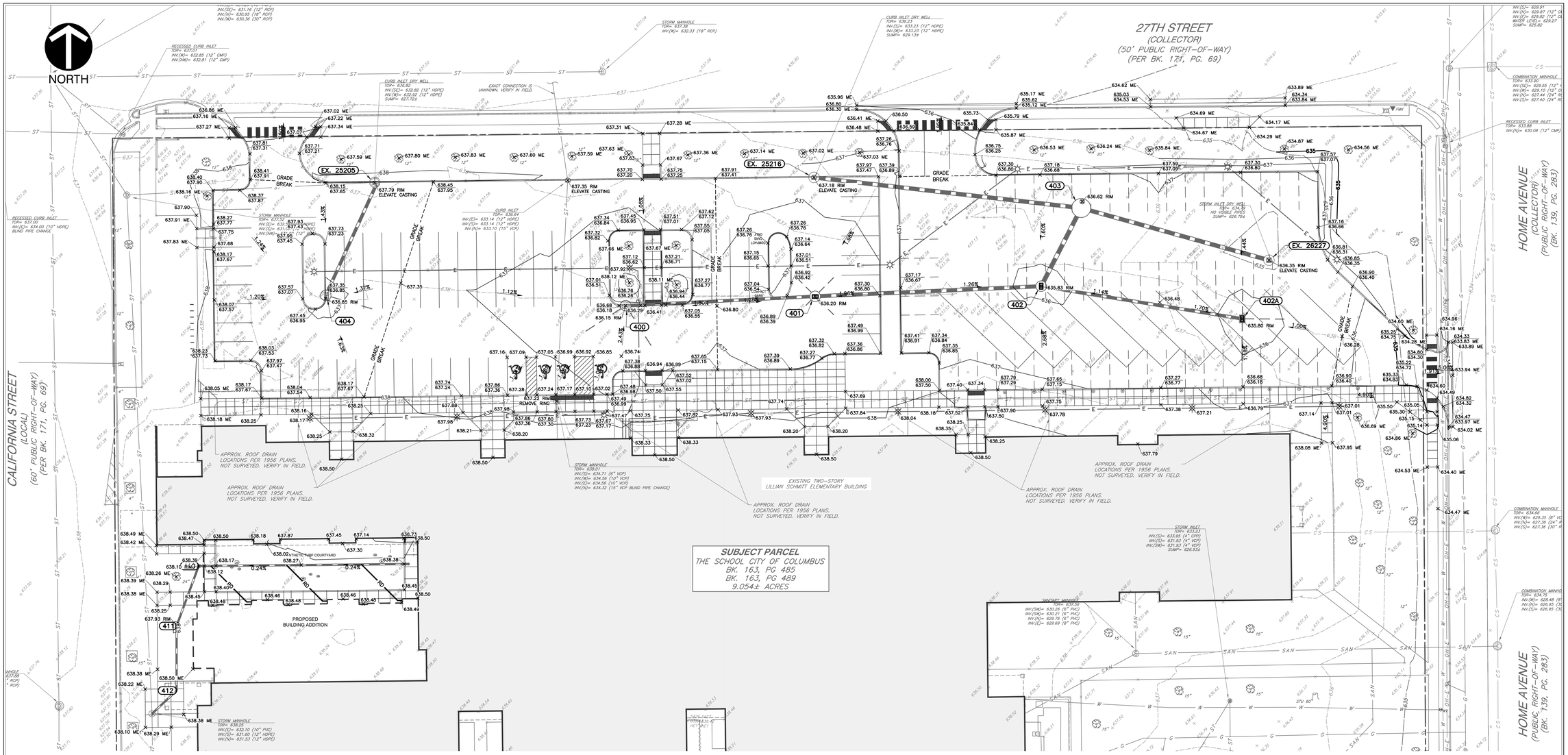
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
DEMOLITION PLAN

CERTIFIED BY:
JONATHAN M. PASTI
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C101

PROJECT NUMBER
2021049



GENERAL GRADING NOTES:

1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL MEASURES PREPARED FOR THIS PROJECT.
2. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
3. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TOA DEPTH INDICATED ON THE LANDSCAPE PLANS (6" MINIMUM). PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2%.
5. ALL SLOPES SHALL BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
6. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN, UNLESS NOTED OTHERWISE.
7. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
8. DRAINAGE SYSTEMS SHALL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR. WITHIN 30 DAYS AFTER COMPLETION OF ON AND OFF-SITE DRAINAGE FACILITIES, THE REGISTERED PROFESSIONAL SHALL CERTIFY IN WRITING THE COMPLIANCE OF THE DRAINAGE FACILITIES PER LOCAL REQUIREMENTS.
9. CONTRACTOR SHALL PERPETUATE ALL DRAINS AND TILES ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH ENGINEER OF RECORD REGARDING THE CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.
10. STORM STRUCTURES RECEIVING SUB-SURFACE DRAINS (SSD) SHALL HAVE BOTH CONNECTIONS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
11. REFER TO AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

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ELEV. = 639.79

TBM#2: NORTHEAST BOLT ON TOP OF A FIRE HYDRANT LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF CALIFORNIA ST. AND 27TH ST.
ELEV. = 639.31

TBM#3: SOUTHWEST BOLT ON TOP OF A FIRE HYDRANT LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF HOME AVE. AND 27TH ST.
ELEV. = 636.88

TBM#4: NORTHEAST BOLT ON TOP OF A FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF THE SITE.
ELEV. = 636.48

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 2310171909 WAS ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

GRADING LEGEND:

- 800 — PROPOSED INDEX CONTOUR
- 798 — PROPOSED INTERMEDIATE CONTOUR
- PROPOSED DRAINAGE SWALE
- PROPOSED GRADE BREAK
- PROPOSED STORM SEWER LINE
- PROPOSED UNDERDRAIN
- 798.50 — PROPOSED SPOT ELEVATION
- 798.50 / 798.00 — PROPOSED CURB SPOT ELEVATION; TOP OF CURB ON TOP, GUTTER ELEVATION ON BOTTOM
- 798.33 / 798.00 — PROPOSED ROLL CURB SPOT; TOP OF CURB ON TOP, EDGE OF CURB ALONG PAVEMENT; SEE DETAIL ON SHEET L501

ABBREVIATIONS:
TC = TOP OF CURB
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ME = MATCH EXISTING

SCALE IN FEET
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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings illustrate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for the satisfactory and complete execution and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
⚠ 03/15/2024 - ADDENDUM #02

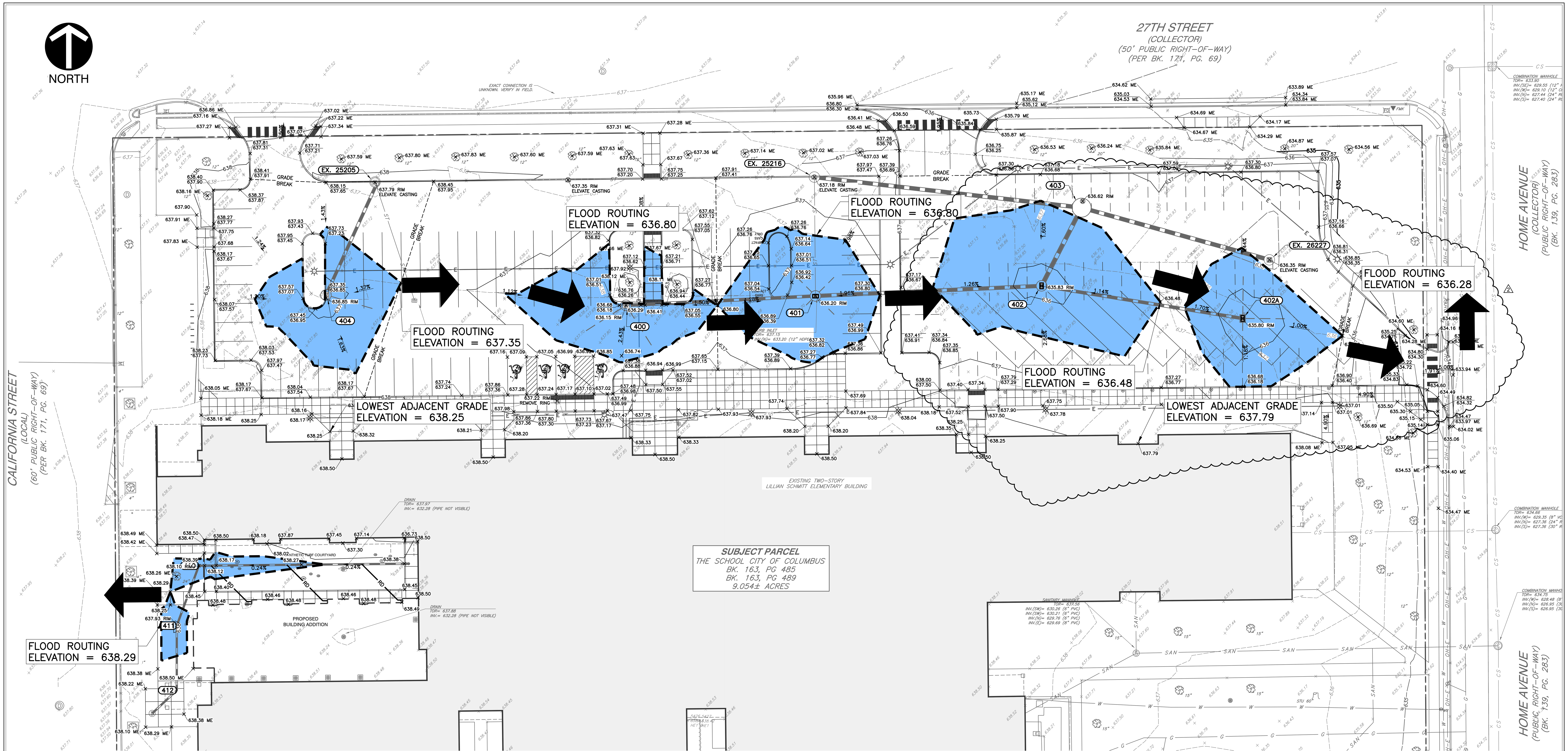
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
GRADING PLAN

CERTIFIED BY:
JONATHAN M. KLYK
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C300

PROJECT NUMBER
2021049



GENERAL GRADING NOTES:

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2. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
3. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TOA DEPTH INDICATED ON THE LANDSCAPE PLANS (6" MINIMUM). PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2%.
5. ALL SLOPES SHALL BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
6. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN, UNLESS NOTED OTHERWISE.
7. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
8. DRAINAGE SYSTEMS SHALL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR. WITHIN 30 DAYS AFTER COMPLETION OF ON AND OFF-SITE DRAINAGE FACILITIES, THE REGISTERED PROFESSIONAL SHALL CERTIFY IN WRITING THE COMPLIANCE OF THE DRAINAGE FACILITIES PER LOCAL REQUIREMENTS.
9. CONTRACTOR SHALL PERPETUATE ALL DRAINS AND TILES ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH ENGINEER OF RECORD REGARDING THE CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.
10. STORM STRUCTURES RECEIVING SUB-SURFACE DRAINS (SSD) SHALL HAVE BOTH CONNECTIONS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
11. REFER TO AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

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SCALE IN FEET
0 20 40

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798	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED DRAINAGE SWALE
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PROJECT:
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REVISIONS:
2 03/15/2024 - ADDENDUM #02

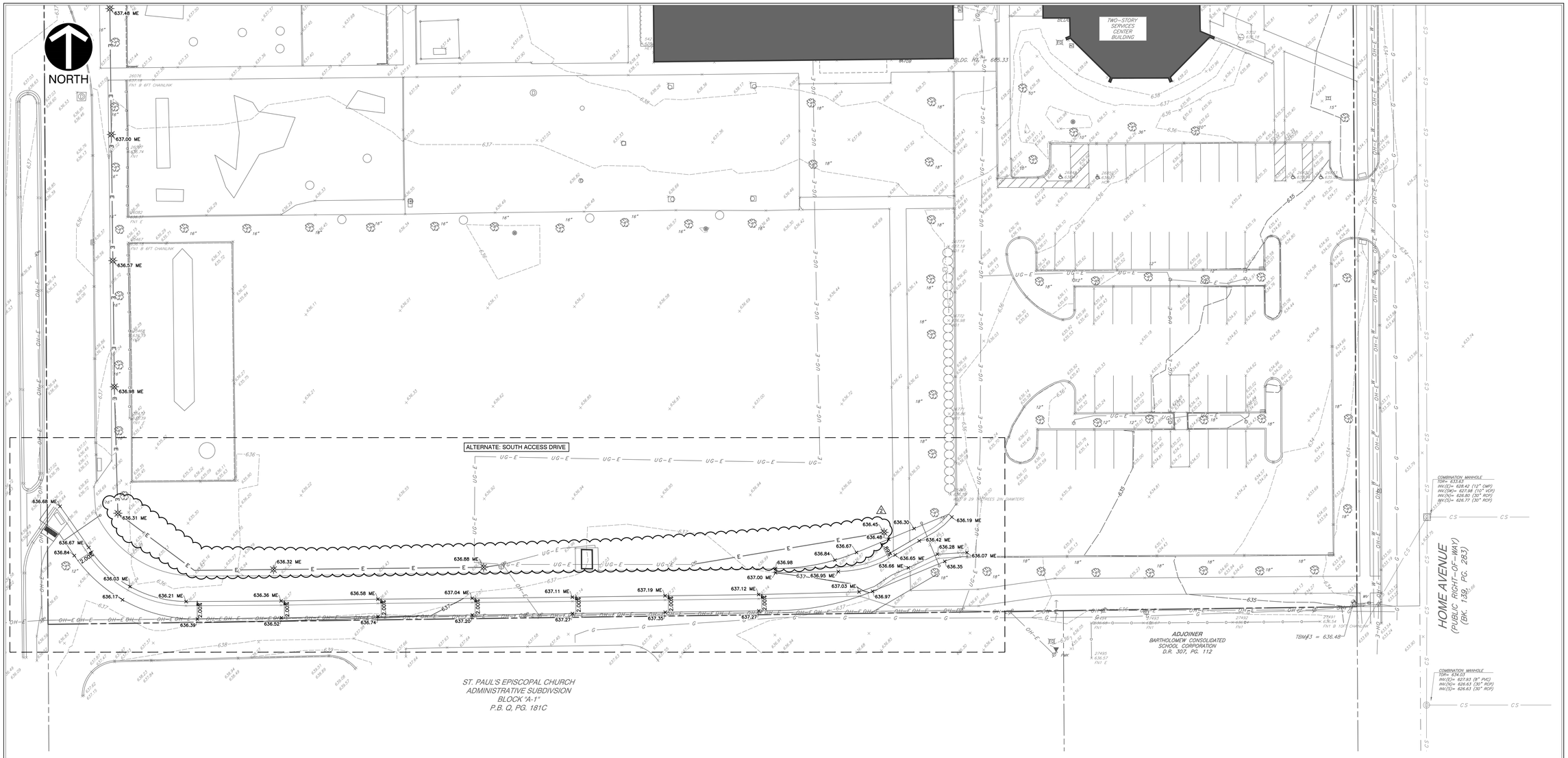
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
FLOOD ROUTING PLAN

CERTIFIED BY:
JONATHAN M. PASYK REGISTERED No. PE12100829 STATE OF INDIANA PROFESSIONAL ENGINEER
[illegible] 02/16/24

DRAWING NUMBER
C301

PROJECT NUMBER
2021049



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798	PROPOSED INTERMEDIATE CONTOUR
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SCALE IN FEET
0
20
40

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project. In terms of structural and mechanical elements, dimensions of building, the relationship of structural elements and the type of structural, mechanical and electrical systems.
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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 03/15/2024 - ADDENDUM #02

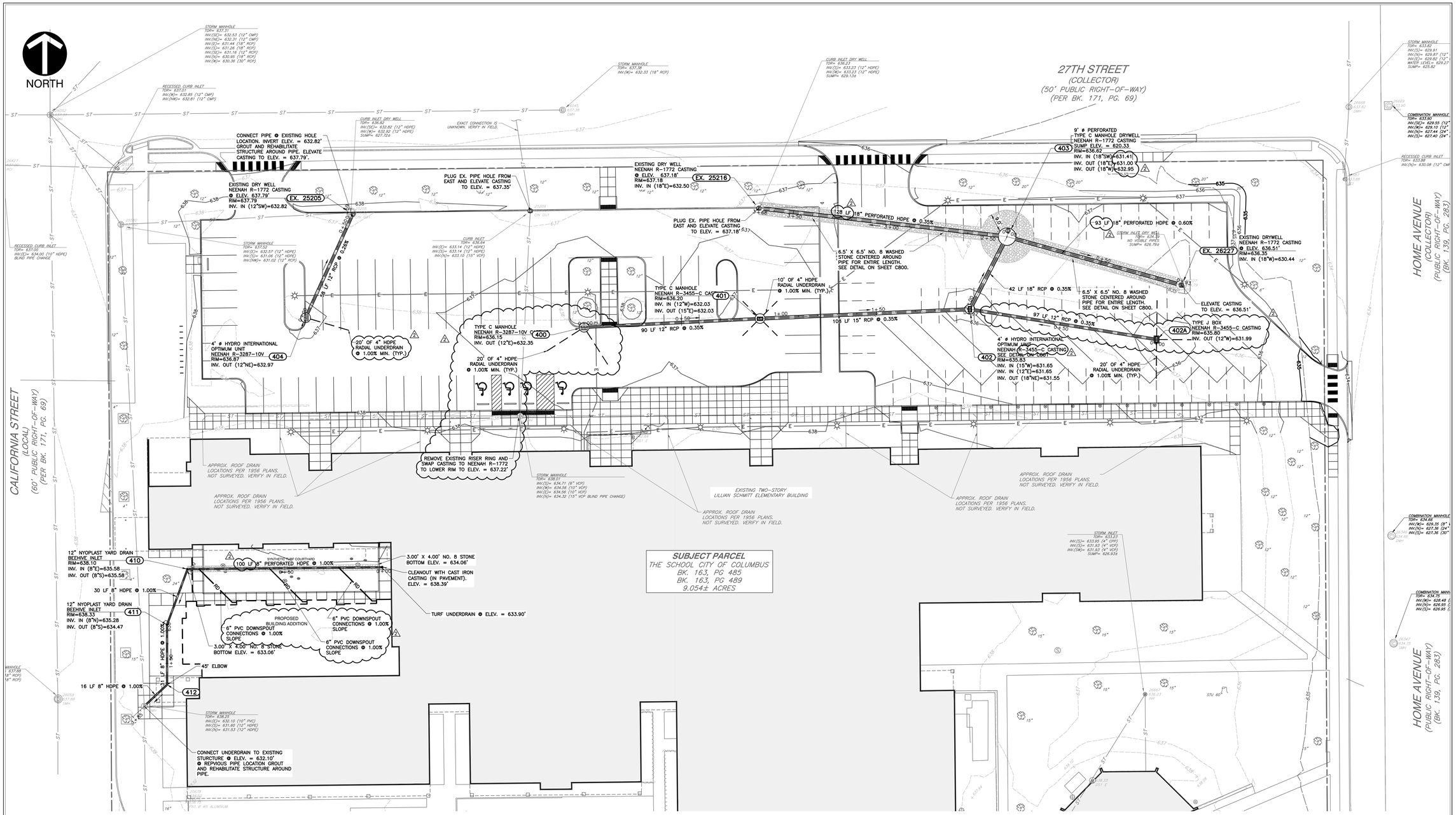
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
GRADING PLAN SOUTH ALTERNATE

CERTIFIED BY:
JONATHAN M. PAYK
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C302

PROJECT NUMBER
2021049



Structure Table				
Structure Name	RIM E.	INVERT IN	INVERT OUT	REMARKS
400	636.15		400 = 632.35	TYPE C MANHOLE NEENAH R-3287-10V CASTING
401	636.20	400 = 632.03	401 = 632.03	TYPE C MANHOLE NEENAH R-3455-C CASTING
402	635.83	401 = 631.65 402A = 631.65	402 = 631.55	4' ø HYDRO INTERNATIONAL OPTIMUM UNIT NEENAH R-3455-C CASTING SEE DETAIL ON C801
403	636.62	402 = 631.41	403A = 631.00 403B = 632.95	9' ø PERFORATED TYPE C MANHOLE DRYWELL NEENAH R-1772 CASTING SUMP ELEV. = 620.33
404	636.87		404 = 632.97	4' ø HYDRO INTERNATIONAL OPTIMUM UNIT NEENAH R-3287-10V
410	638.10	410A = 635.58	410B = 635.58	12" NYOPLAST YARD DRAIN BEEHIVE INLET
411	638.33	410B = 635.28	411 = 634.47	12" NYOPLAST YARD DRAIN BEEHIVE INLET
412	634.84	411 = 634.16	412 = 634.16	Hull Structure

Pipe Table				
Pipe Name	Size (in)	Length (ft)	Slope	MATERIAL
400	12	90.3	0.35%	RCP
401	15	107.7	0.35%	RCP
402	18	41.8	0.35%	RCP
403A	18	92.8	0.60%	PERFORATED HDPE
403B	18	128.0	0.35%	PERFORATED HDPE
404	12	57.9	0.26%	RCP
410A	8	99.8	1.00%	PERFORATED HDPE
410B	8	30.4	1.00%	HDPE
411	8	30.7	1.00%	HDPE
412	8	16.1	1.00%	HDPE

FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" (UN-SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18005C0131E (DATED DECEMBER 9, 2014) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF COLUMBUS, BARTHOLOMEW COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

GENERAL DRAINAGE NOTES:

1. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
3. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
4. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
5. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH THE CITY OF COLUMBUS STORMWATER TECHNICAL STANDARDS MANUAL, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.

BENCHMARKS:

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- RD — PROPOSED ROOF DRAIN
- PROPOSED STORM MANHOLE, INLET
- PROPOSED BEEHIVE INLET SQUARE
- PROPOSED CURB INLET
- PROPOSED INLET (CIRCULAR)

SCALE IN FEET
0 20 40

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REVISIONS:
1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

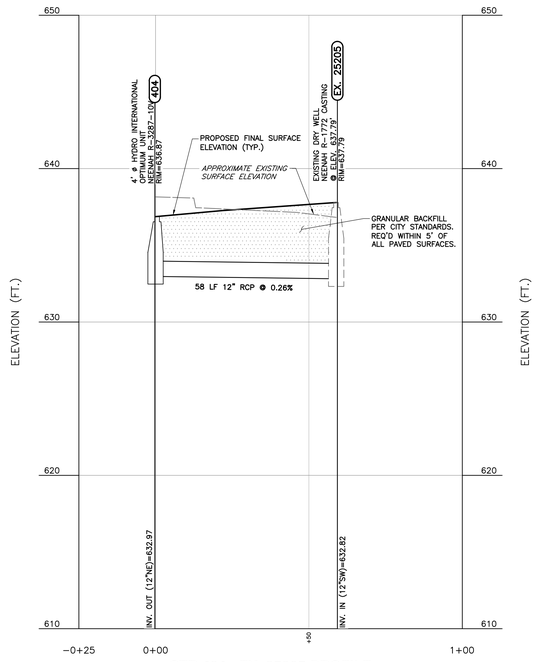
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
DRAINAGE PLAN

CERTIFIED BY:
JONATHAN M. PACK REGISTERED No. PE12100829 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/24

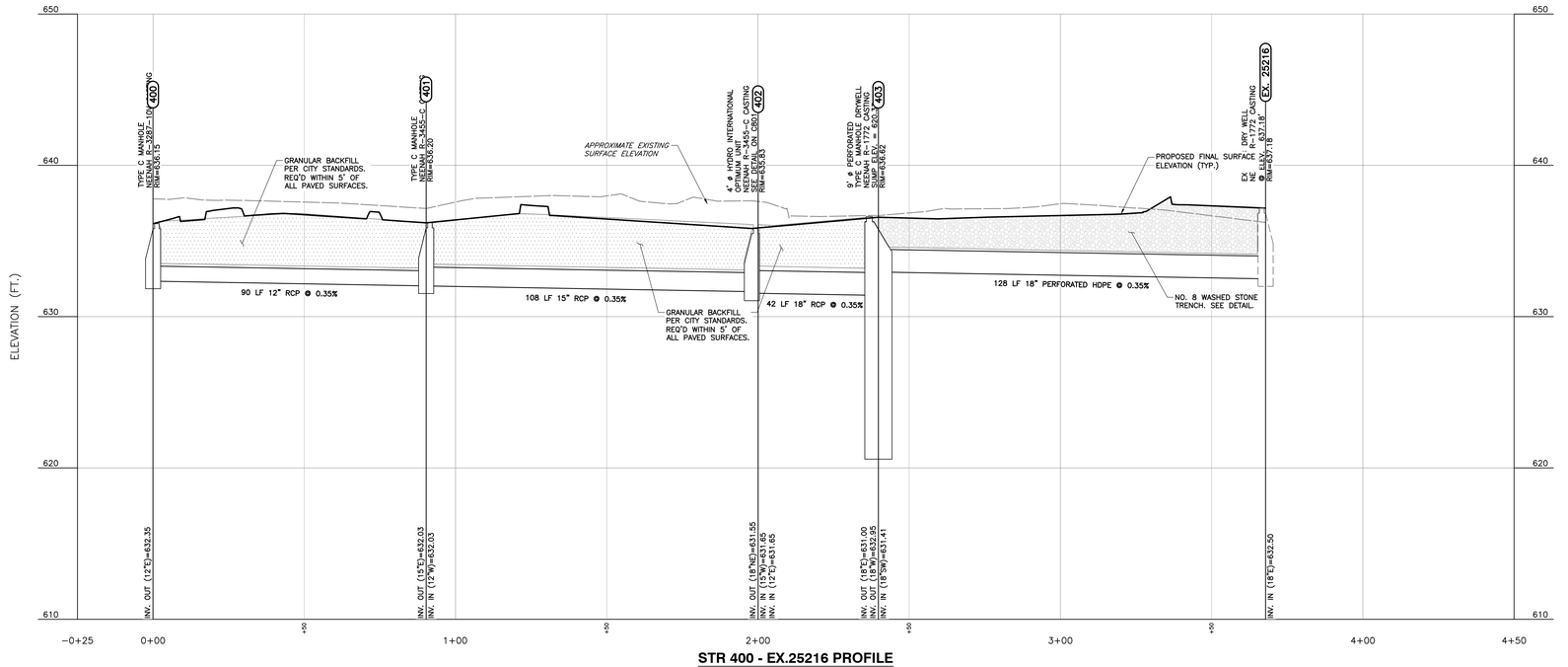
DRAWING NUMBER
C400

PROJECT NUMBER
2021049



STR 404 - EX. 25205 PROFILE

SCALE H:1"=20'; V:1"=4'



STR 400 - EX.25216 PROFILE

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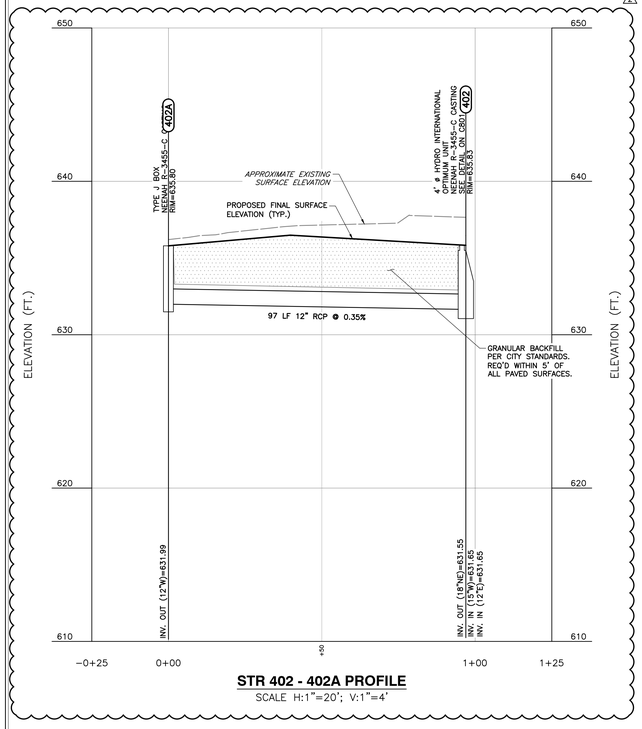
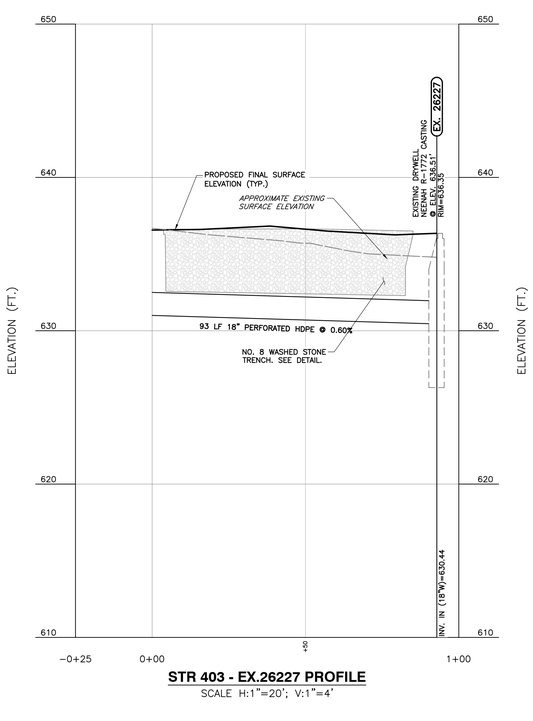


STR 402 - 402A PROFILE

SCALE H:1"=20'; V:1"=4'



STR 403 - EX.26227 PROFILE

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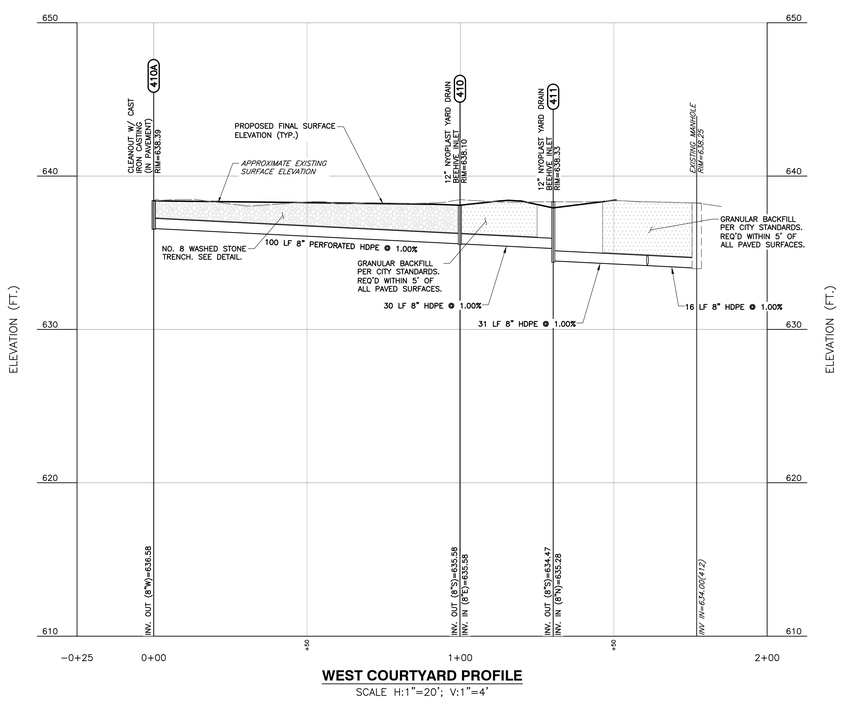

WEST COURTYARD PROFILE

SCALE H:1"=20'; V:1"=4'

SCALE IN FEET (HORIZONTAL)
0 20' 40'

SCALE IN FEET (VERTICAL)
0 4' 8'

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317-856-7777 · 877-746-0749
www.ceicinc.com

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings are a graphic depiction of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all materials, labor and workmanship and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

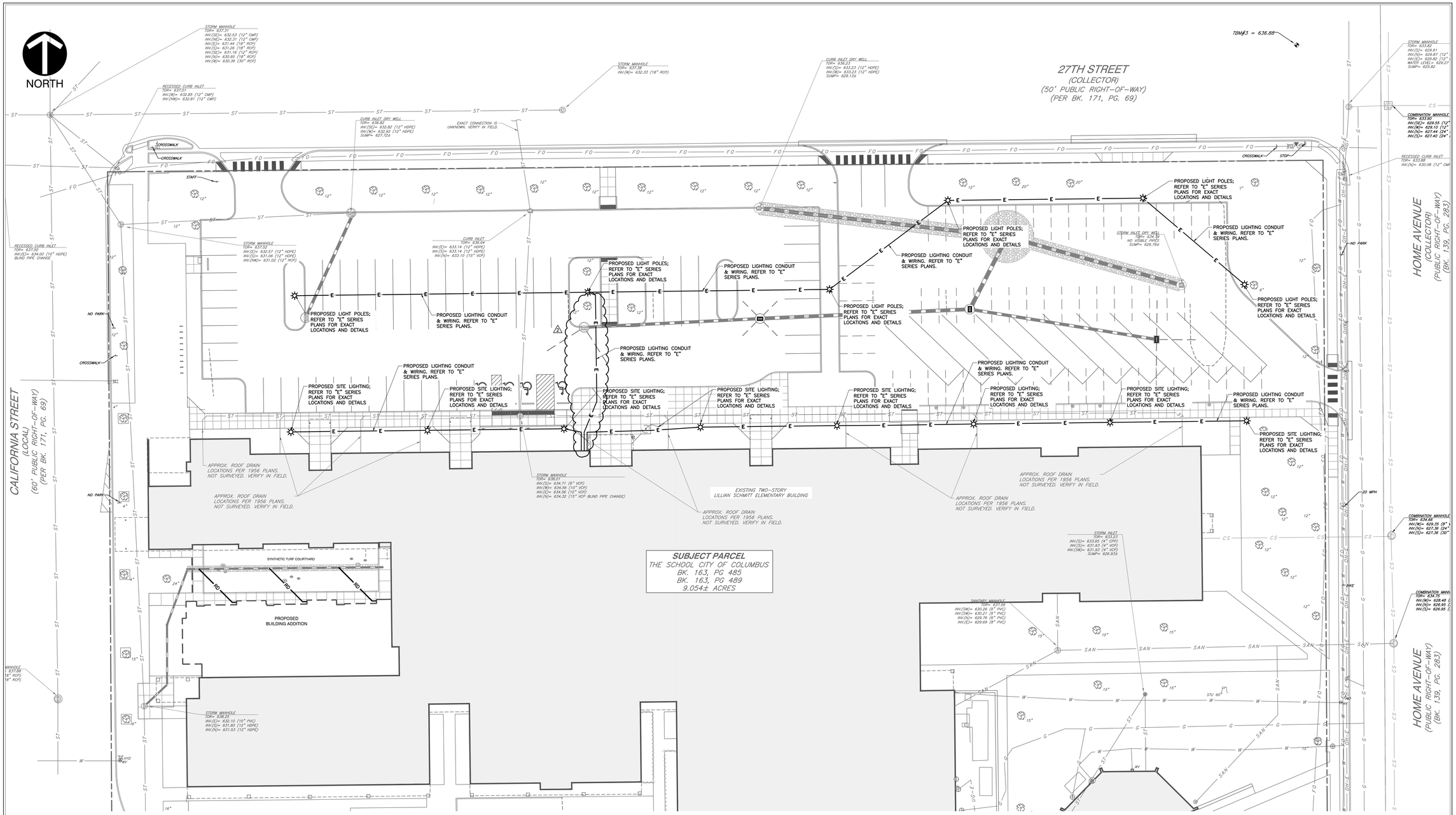
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
DRAINAGE PROFILE

CERTIFIED BY:
JONATHAN M. PASYK
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C401

PROJECT NUMBER
2021049



GENERAL UTILITY NOTES:

1. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
3. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
4. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
5. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
6. ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER.
7. MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. IF 18 INCHES OF CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS WITHIN TEN FEET OF THE WATER LINE.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED IN THE CONTRACT OR SPECIFICATIONS. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.
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11. CONTRACTOR IS RESPONSIBLE FOR ELECTRIC, TELEPHONE, AND CABLE CONDUITS AND TRENCHING. COORDINATE WITH THE LOCAL UTILITY PROVIDERS AND MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR SIZES AND QUANTITIES..

BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88) (GEOID 18). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: SET MAGNAIL ON TOP OF A LIGHT BASE LOCATED APPROXIMATELY 140 FEET SOUTH OF THE SOUTHWEST CORNER OF THE SITE.
ELEV. = 639.79

TBM#2: NORTHEAST BOLT ON TOP OF A FIRE HYDRANT LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF CALIFORNIA ST. AND 27TH ST.
ELEV. = 639.31

TBM#3: SOUTHWEST BOLT ON TOP OF A FIRE HYDRANT LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF HOME AVE. AND 27TH ST.
ELEV. = 636.88

TBM#4: NORTHEAST BOLT ON TOP OF A FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF THE SITE.
ELEV. = 636.48

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 2310171909 WAS ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

PROPOSED UTILITY LEGEND:

ST	PROPOSED STORM SEWER LINE
SAN	PROPOSED SANITARY LINE
E	PROPOSED ELECTRIC LINE
T	PROPOSED TELEPHONE LINE
G	PROPOSED GAS LINE
W	PROPOSED WATER LINE
FP	PROPOSED FIRE PROTECTION LINE
DW	PROPOSED DOMESTIC WATER LINE
	PROPOSED CONDUIT
	PROPOSED LIGHT POLE
	PROPOSED FIRE DEPT. CONNECTION, HYDRANT, WALL PIV, WATER VALVE, THRUST BLOCK
	PROPOSED SANITARY MANHOLE, CLEAN OUT
	PROPOSED TELEPHONE PEDESTAL
	PROPOSED ELECTRIC TRANSFORMER

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PROJECT:
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RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
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SCOPE DRAWINGS:
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REVISIONS:
1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

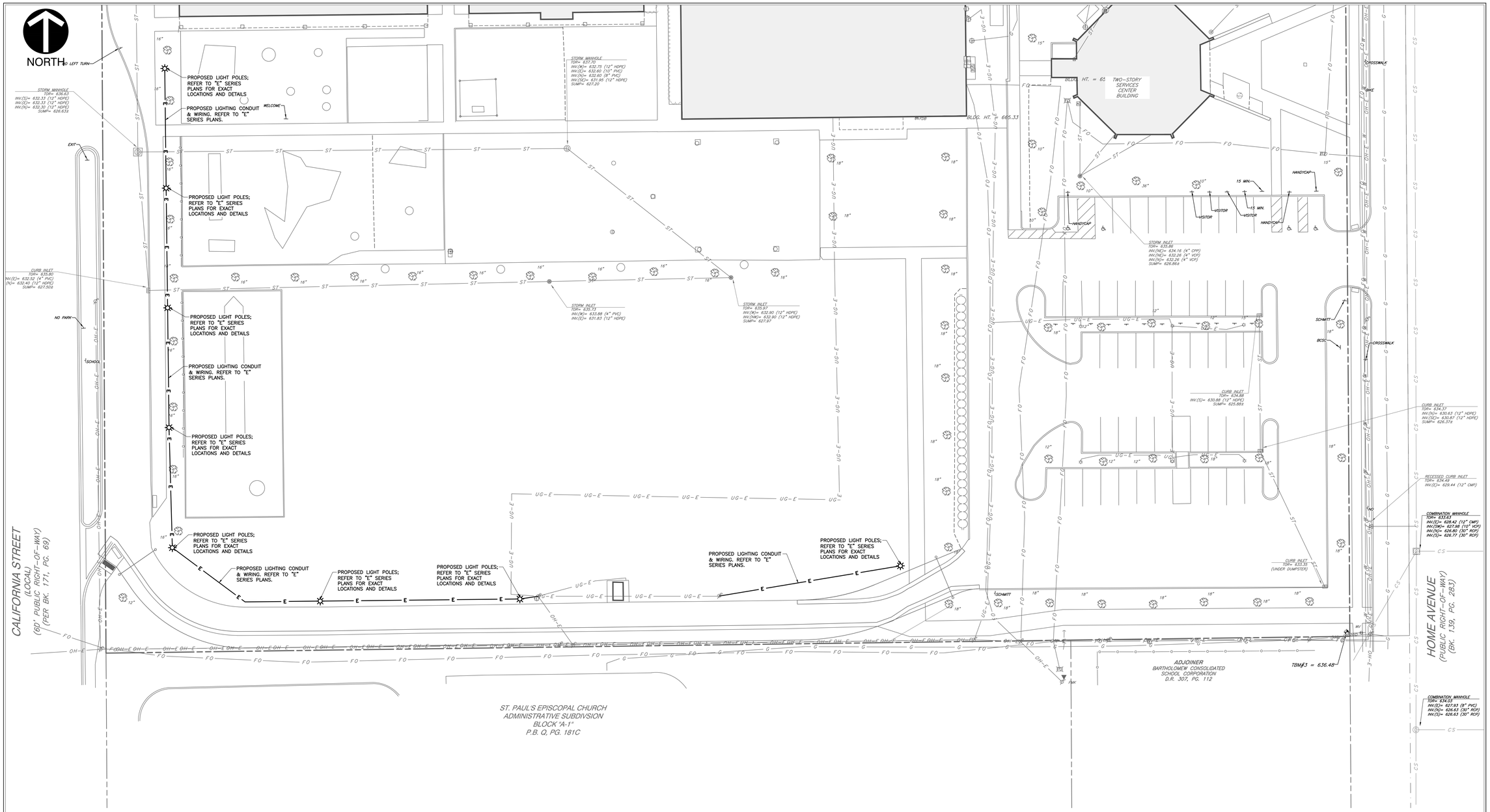
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
UTILITY PLAN

CERTIFIED BY:
JONATHAN M. PACK REGISTERED No. PE12100829 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C500

PROJECT NUMBER
2021049



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	PROPOSED SANITARY MANHOLE, CLEAN OUT
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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
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2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
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REVISIONS:
1 03/15/2024 - ADDENDUM #02

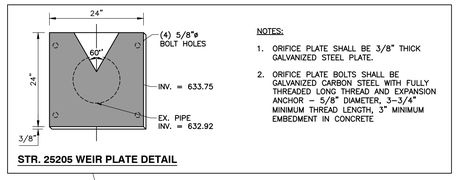
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
UTILITY PLAN SOUTH ALTERNATE

CERTIFIED BY:
JONATHAN M. PASYK
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C501

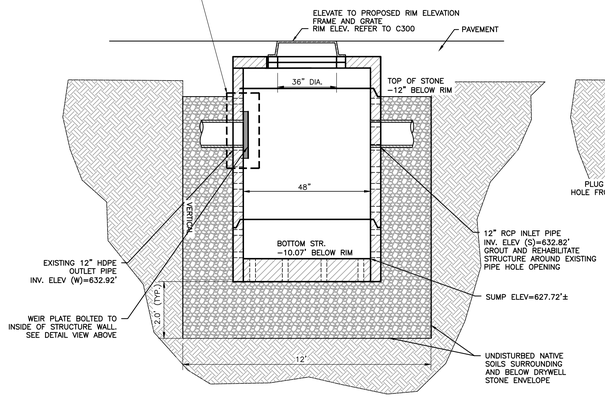
PROJECT NUMBER
2021049



NOTES:

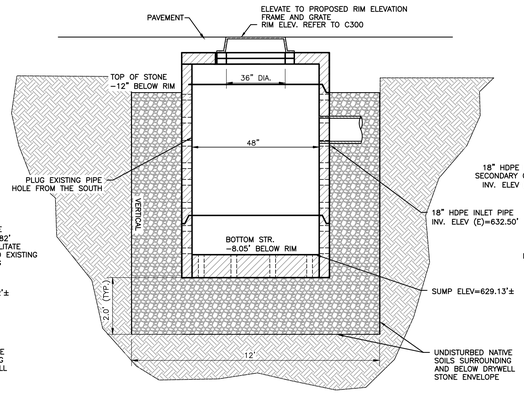
1. ORIFICE PLATE SHALL BE 3/8" THICK GALVANIZED STEEL PLATE.
2. ORIFICE PLATE BOLTS SHALL BE GALVANIZED CARBON STEEL WITH FULLY THREADED LONG THREAD AND EXPANSION ANCHOR – 5/8" DIAMETER, 3-3/4" MINIMUM THREAD LENGTH, 3" MINIMUM EMBEDMENT IN CONCRETE

STR. 25205 WEIR PLATE DETAIL



*NOTE: EXISTING DRYWELL DIMENSIONS ARE BASED ON DRYWELL DETAILS FOR THE 1990 ELEMENTARY SCHOOL PLANS BY LEERS, WEINZAPFEL ASSOCIATES (JOB 8903.00)

DETAIL 400 - EX. 25205 DETAIL
NOT TO SCALE



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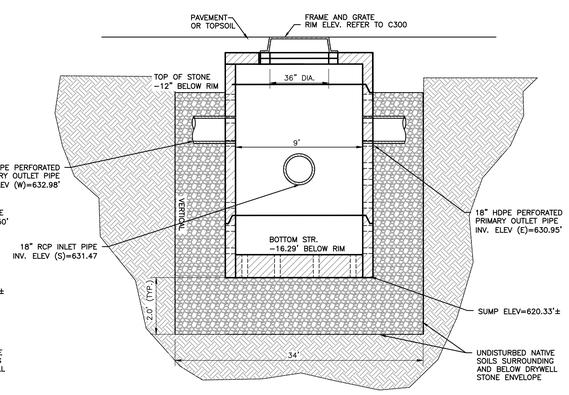
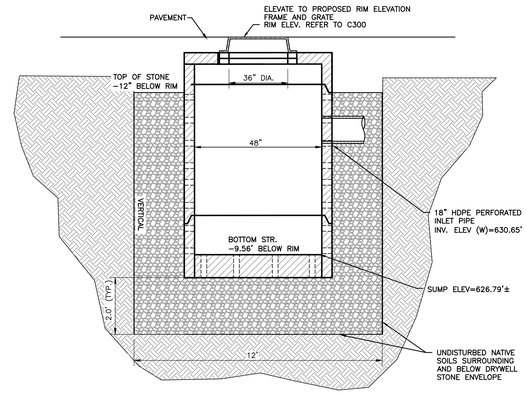
DETAIL 401 - EX. 25216 DETAIL
NOT TO SCALE



DETAIL 402 - DRYWELL STR 403 DETAIL
NOT TO SCALE



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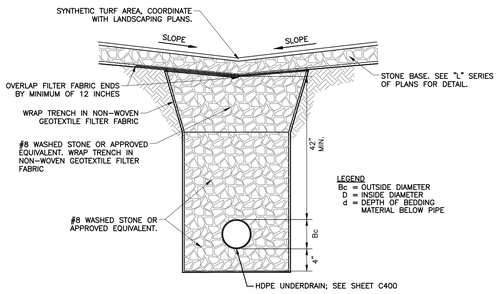
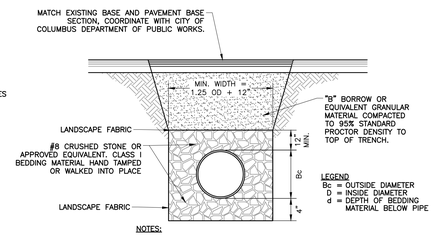
DETAIL 403 - EX. 26227 DETAIL
NOT TO SCALE



LEGEND
Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

DETAIL 404 - SYNTHETIC TURF DETENTION COLLECTOR - WEST COURTYARD
NOT TO SCALE

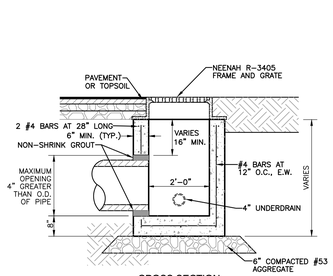


NOTES:

1. ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
2. A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

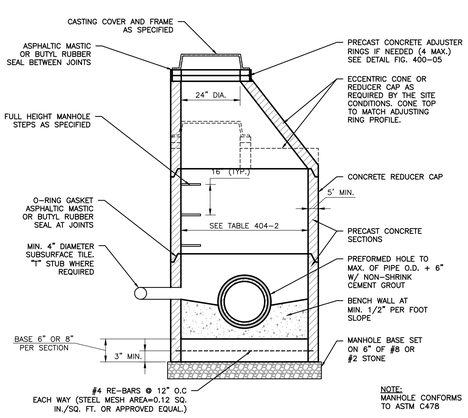
LEGEND
Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

DETAIL 405 - PLASTIC PIPE (PVC & HDPE) BEDDING/TRENCH IN PAVEMENT DETAIL
NOT TO SCALE



CROSS SECTION

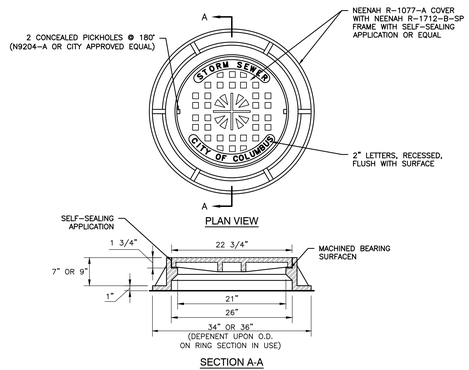
DETAIL 406 - 24" x 24" DRAINAGE STRUCTURE 'TYPE A'
NOT TO SCALE



NOTE:
MANHOLE CONFORMS TO ASTM C478

*NOTE: INLET CASTINGS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM" CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.

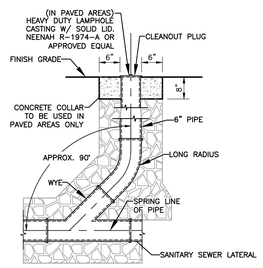
DETAIL 407 - STANDARD MANHOLE FOR PIPE SIZES 12" thru 24"
NOT TO SCALE



SECTION A-A

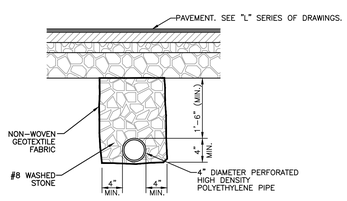
*NOTE: INLET CASTINGS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM" CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM 1" IN HEIGHT. A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.

DETAIL 408 - STORM SEWER MANHOLE FRAME & COVER
NOT TO SCALE



NOTE:
MAXIMUM CLEANOUT SPACING TO BE NO MORE THAN 100 FEET.

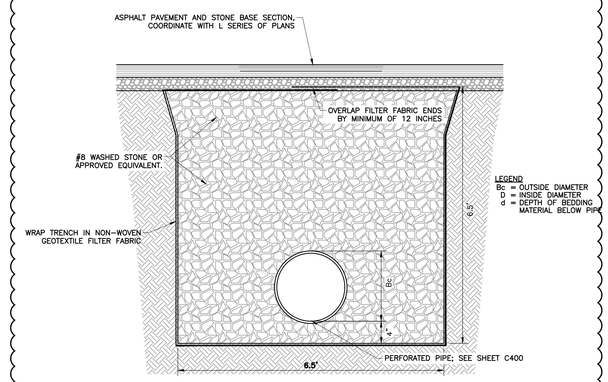
DETAIL 409 - CLEANOUT DETAIL
NOT TO SCALE



INSTALLATION REQUIRED

1. EXTENDING 10' FROM STORM INLETS OR MANHOLE WHERE SHOWN ON THE DRAINAGE PLAN.
2. PIPE MATERIAL PER INDIANA DEPT. OF TRANSPORTATION SPECS. No. 718.02

DETAIL 410 - 4" PIPE UNDERDRAIN UNDER ASPHALT PAVEMENT
NOT TO SCALE



LEGEND
Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

DETAIL 411 - PERFORATED DETENTION PIPE AND TRENCH IN PAVEMENT DETAIL
NOT TO SCALE

NOTE:
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530 E. Ohio Street - Suite G - Indianapolis, IN 46204
317-856-7777 - 877-746-0749
www.cecinc.com

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project. In some instances, they may not indicate every item required for the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all items required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

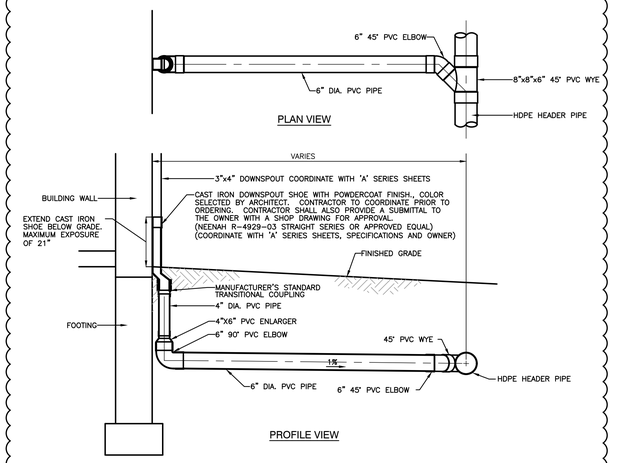
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
PLAN DETAILS

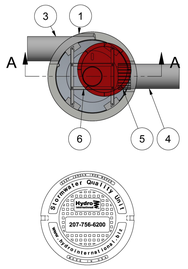
CERTIFIED BY:
JONATHAN M. PASYK
REGISTERED
No. PE21000829
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C800

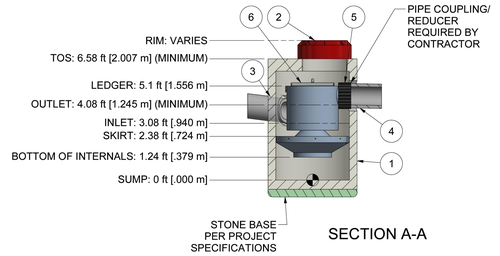
PROJECT NUMBER
2021049



DETAIL 414 - TYPICAL DOWNSPOUT CONNECTION TO ROOF DRAIN DETAIL
NOT TO SCALE



HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED



SECTION A-A

OUTLET STUB ID: 12" (300 mm)
OUTLET STUB OD: 12.5" (318 mm)

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING DOWNSTREAM DEFENDER MANHOLE.

NOTE: NOT FOR CONSTRUCTION. CONTACT HYDRO FOR SITE SPECIFIC DETAIL

EQUIPMENT PERFORMANCE
The stormwater treatment unit shall adhere to the hydraulic parameters given in the chart below and provide the removal efficiencies and storage capacities as follows:

1. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
2. Peak Hydraulic Capacity: 3.0 cfs (85 l/s)
3. Sediment Storage Capacity: 0.70 cu. yd. (0.53 cu. m)
4. Continuous Oil Storage Capacity: 70 gal. (265 liters)
5. Sediment shall be stored in a zone that is isolated from the main flow path and protected from reintrainment by a benching skirt.
6. For more product information including regulatory acceptances, please visit https://hydro-int.com/en/products/downstream-defender

PARTS LIST

ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	48	1200	PRECAST MANHOLE (BY HYDRO VIA PRECASTER)
2	1	30	750	FRAME AND COVER
3	1	12 (MAX)	300 (MAX)	INLET PIPE (BY OTHERS)
4	1	12 (MAX)	300 (MAX)	OUTLET PIPE (BY OTHERS)
5	1			PIPE COUPLING (BY OTHERS)
6	1			INTERNAL COMPONENTS (PRE-INTALLED)

PROJECTION

IF IN DOUBT ASK

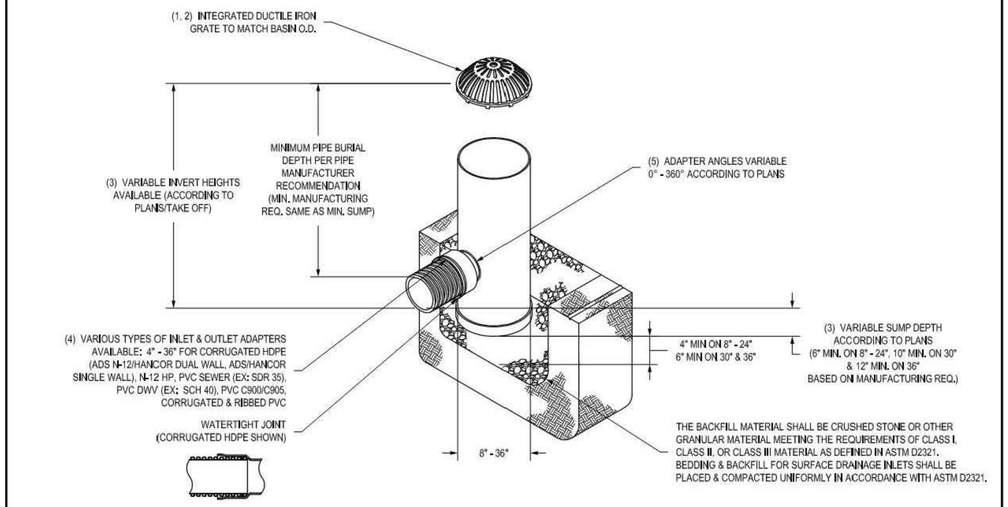
DATE: 12/7/2020 | SCALE: 1:1
DRAWN BY: ER | CHECKED BY: MRJ | APPROVED BY:
Title: 4ft-DIAMETER DOWNSTREAM DEFENDER GENERAL ARRANGEMENT

Hydro International
A CRW COMPANY
hydro-int.com
HYDRO INTERNATIONAL

WEIGHT: N/A | MATERIAL:
STOCK NUMBER:
DRAWING NO.: DD GA-4
SHEET SIZE: B | SHEET: 1 OF 1 | Rev: A

DETAIL 412 - WATER QUALITY UNITS - FIRST DEFENSE OPTIMUM
NOT TO SCALE

NYLOPLAST DRAIN BASIN WITH DOME GRATE



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

DRAWN BY	EBC	MATERIAL	
DATE	03-25-10		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	06-12-18		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
DRAIN BASIN WITH DOME GRATE
QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-397 REV E

DETAIL 413 - NYLOPLAST DRAIN BASINS
NOT TO SCALE

NOTE:
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REVISIONS:
1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

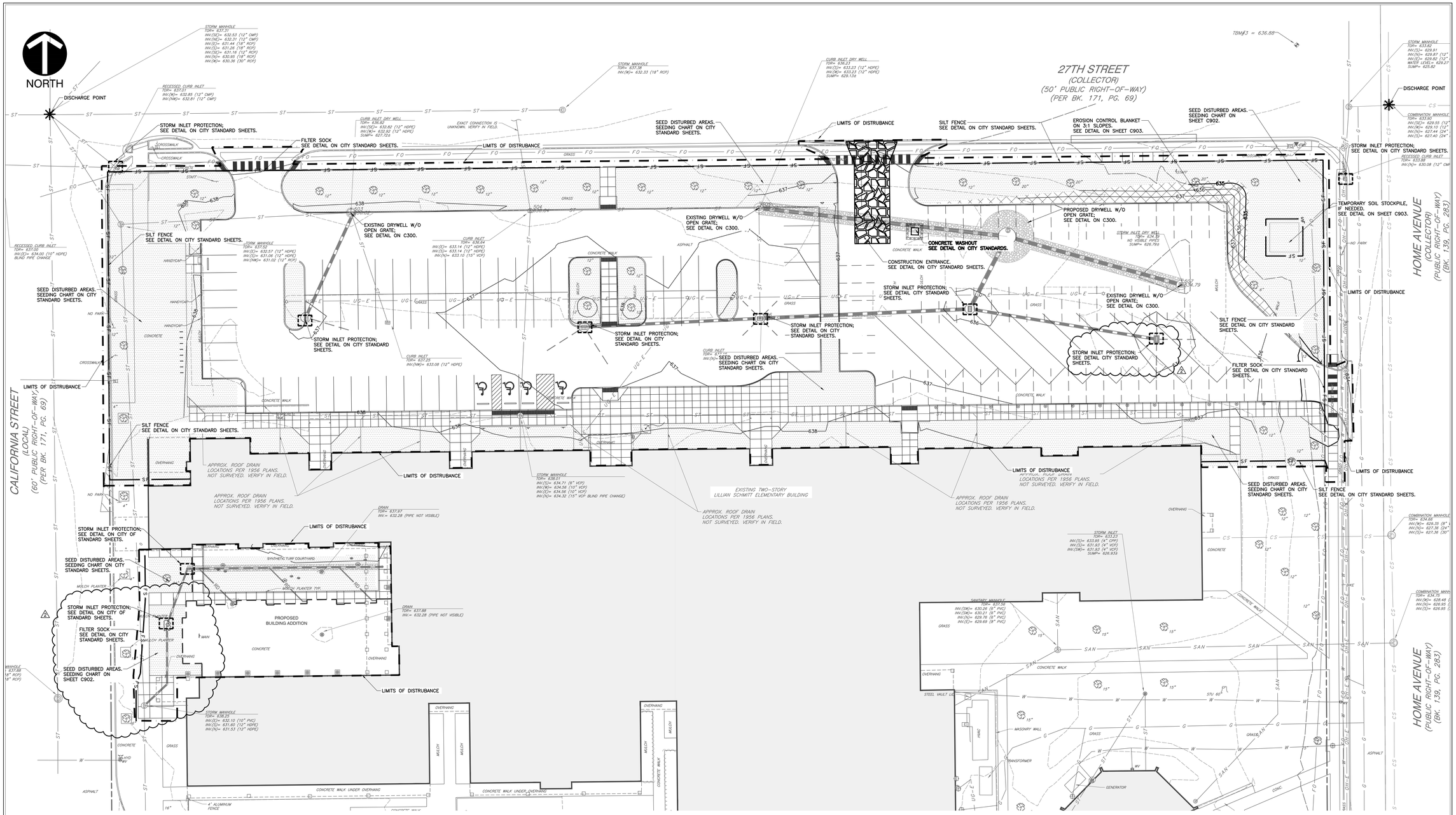
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

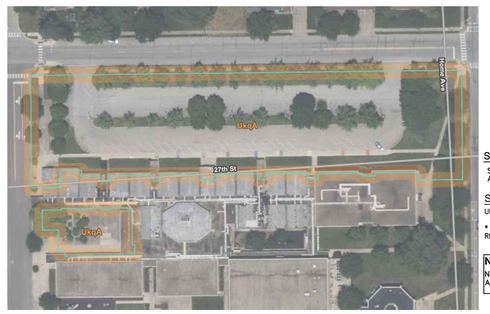
DRAWING TITLE:
2 PLAN DETAILS

CERTIFIED BY:
JONATHAN M. PASLEY
REGISTERED
No. PE12100829
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C801

PROJECT NUMBER
2021049





SOIL MAP

SOIL MAPS FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

SOIL LEGEND

UkqA — Urban land-Nineveh complex, 0 to 2 Percent Slopes; Well drained

* IF CONSTRUCTION IS TAKING PLACE DURING WET SEASON, SOILS MAY REQUIRE LIME STABILIZATION

NOTE:
NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORMWATER MANAGEMENT PERMIT.

GENERAL EROSION CONTROL NOTES

1. CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCES, SILT TRAPS, TREE PROTECTION AND INLET PROTECTION FOR EXISTING INLETS PRIOR TO THE START OF ANY EARTH MOVING OR STRIPPING.
2. CONTRACTOR SHALL INSTALL A STONE CONSTRUCTION ENTRANCE OR SOME OTHER DEVICE PRIOR TO THE START OF EARTHWORK AS NECESSARY TO PREVENT SOIL FROM BEING TRACKED OR WASHED INTO EXISTING ROADWAYS.
3. LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. AS GRADING IS DONE, INSTALL SILT TRAPS, SILT FENCES, SLOPE DRAINS, TEMPORARY DIVERSIONS AND OTHER RUNOFF CONTROL MEASURES AT APPROPRIATE LOCATIONS TO KEEP SEDIMENT CONTAINED ON SITE.
4. ALL DISTURBED AREAS SHALL BE SEEDED AND STRAW MULCHED AS SHOWN ON THE PLANS IMMEDIATELY AFTER COMPLETION OF GROUND ACTIVITY. FOR LARGE PROJECTS, THIS SEEDING SHOULD BE COMPLETED IN PHASES AS THE DIFFERENT AREAS OF THE SITE ARE COMPLETED.
5. PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
6. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM DEPENDING UPON THE WEATHER. IF CONSTRUCTION ACTIVITY IS TO CEASE FOR MORE THAN 7 DAYS, THE DISTURBED AREAS SHALL BE TEMPORARILY SEEDED.
7. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE PUT IN PLACE AT THE TIME EACH INLET IS CONSTRUCTED.
8. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING CONSTRUCTION AND UNTIL SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR.
9. ONCE ONSITE EROSION AND SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY EROSION CONTROL DEVICES.
10. THESE GENERAL PROCEDURES MAY NOT COVER ALL SITUATIONS. REFER TO EROSION CONTROL PLANS FOR SPECIFIC NOTES AND ADDITIONAL DETAILS
11. EROSION CONTROL TO COMPLY WITH IDEM CONSTRUCTION STORMWATER GENERAL PERMIT.
12. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH THE CITY OF COLUMBUS TYPICAL CONSTRUCTION GUIDELINES. DISCREPANCIES BETWEEN THE PLANS AND THE MANUAL SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE MANUAL.
13. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
14. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO CONSTRUCTION. CONTACT THE CITY OF COLUMBUS ENGINEERING DEPARTMENT TO SCHEDULE. (812) 376-2540.

FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" (UN-SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18005C0131E (DATED DECEMBER 9, 2014) OF THE FLOOD INSURANCE RATE MAPS FOR THE CITY OF COLUMBUS, BARTHOLOMEW COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

BENCHMARKS:

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON ARE BASED UPON AN OPUS SOLUTION AND ARE ON THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD88) (GEOID 18). IT IS MY OPINION THAT THE UNCERTAINTY IN THE ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT.

TBM#1: SET MAGNAIL ON TOP OF A LIGHT BASE LOCATED APPROXIMATELY 140 FEET SOUTH OF THE SOUTHWEST CORNER OF THE SITE.
ELEV. = 639.79

TBM#2: NORTHEAST BOLT ON TOP OF A FIRE HYDRANT LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF CALIFORNIA ST. AND 27TH ST.
ELEV. = 639.31

TBM#3: SOUTHWEST BOLT ON TOP OF A FIRE HYDRANT LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF HOME AVE. AND 27TH ST.
ELEV. = 636.88

TBM#4: NORTHEAST BOLT ON TOP OF A FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF THE SITE.
ELEV. = 636.48

UTILITY NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. INDIANA 811 ONE-CALL PUBLIC UTILITY LOCATE SERVICE TICKET NUMBER 23101719O9 WAS ISSUED FOR THIS SITE. AMERICAN LOCATING SERVICES, A PRIVATE SUBSURFACE UTILITY LOCATING SERVICE, WAS CONTRACTED TO PERFORM THE PRIVATE UTILITY LOCATIONS FOR THE SUBJECT SITE. THE PRIVATE UTILITIES LOCATED AND DEPICTED HEREIN WERE EITHER OBSERVED FROM MARKINGS ON THE GROUND OR USING EXISTING PLANS PROVIDED BY THE SCHOOL.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO GAS, WATER, AND SANITARY SEWER. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND THE APPROPRIATE AUTHORITIES.

PROPOSED LEGEND:

- PROPOSED GRAVEL CONSTRUCTION ENTRANCE
- PERMANENT/ TEMPORARY SEEDING AREAS
- EROSION CONTROL BLANKET W/ GRASS SEED
- PROPOSED LIMITS OF DISTURBANCE
- SF — PROPOSED SILT FENCE
- FS — PROPOSED FILTER SOCK
- PROPOSED INLET PROTECTION
- PROPOSED CONCRETE WASHOUT
- MAJOR STORMWATER DISCHARGE POINT

SCALE IN FEET
0 20 40

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1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
STORMWATER POLLUTION PREVENTION PLAN

CERTIFIED BY:
JONATHAN M. PUSEY
REGISTERED
No. PE21000829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C900

PROJECT NUMBER
2021049

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

(A1) INDEX OF THE LOCATION OF THE REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLAN

THE PROPOSED EROSION CONTROL MEASURES CAN BE FOUND ON SHEET C900. THE CORRESPONDING EROSION CONTROL DETAILS ARE SHOWN ON C902. THE REQUIRED EROSION CONTROL CHECKLIST ITEMS ARE LISTED ON THIS SHEET.

(A2) A VICINITY MAP DEPICTING THE PROJECTS SITE LOCATION

THE VICINITY MAP SHOWING THE PROJECT LOCATION CAN BE SEEN ON COVER SHEET.

(A3) NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT

THIS PROJECT CONSISTS OF CONSTRUCTING A BUILDING ADDITION AND MODIFYING PARKING AT THE EXISTING LILLIAN SCHMITT ELEMENTARY SCHOOL. THE PROJECT IS LOCATED AT 2675 CALIFORNIA STREET, COLUMBUS IN, 47201.

(A4) LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS

LONGITUDE: 85° W 54' 50"   LATITUDE: 39° N 13' 37"

(A5) LEGAL DESCRIPTION

LEGAL DESCRIPTION IS SHOWN ON THE SURVEY INCLUDED WITH THIS CONSTRUCTION SET.

TOWNSHIP: 9 N RANGE: 6 E SECTION: 07

(A6) 11X17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES

PLEASE REFER TO THE TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY.

(A7) BOUNDARIES OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS

THE PROJECT DOES NOT LIE WITHIN A 100 YEAR FLOODPLAIN AND/ OR THE FLOODWAY AREA.

(A8) LAND USE OF ALL ADJACENT PROPERTIES

THE EXISTING LAND USES ADJACENT TO THE SITE ARE AS FOLLOWS:

NORTH: RS2– RESIDENTIAL
WEST: RS2– RESIDENTIAL
SOUTH: P– PUBLIC FACILITY
EAST: P– PUBLIC FACILITY

(A9) IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL (TOTAL MAXIMUM DAILY LOAD)

TDML: 235 CFU/100 ML IN A SINGLE SAMPLE

POLLUTANTS: E. COLI

(A10) NAME(S) OF THE RECIEVING WATER(S)

DISCHARGES INTO PROPOSED STORM SEWER SYSTEM THEN INTO THE EXISTING DRY WELLS ON SITE. THEN ULTIMATELY DISCHARGES INTO FLAT ROCK RIVER–COLUMBUS.

(A11) IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(d) LIST OF IMPARED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPARED

THE FLAT ROCK RIVER–COLUMBUS IS CURRENTLY ON THE 303(d) LIST OF IMPARED WATERS THAT ARE RECEIVING DIRECT DISCHARGES FROM THIS SITE.

(A12) SOIL MAP OF THE PREDOMINATE SOIL TYPES

REFER TO SHEET C900

(A13) IDENTIFICATION AND LOCATIONOF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN, EXISTING SITE LAYOUT)

THERE ARE NO WETLANDS, LAKES, OR WATER COURSES ON OR ADJACENT TO THE IMMEDIATE PROJECT BOUNDARY.

(A14) IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES

AN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) NOTICE OF INTENT (NOI) PERMIT WILL BE REQUIRED FOR THIS PROJECT.

(A15) IDENTIFICATION AND DELINEATION OF EXISTING COVER, INCLUDING NATURAL BUFFERS

THE EXISTING SITE IS CURRENTLY COVERED BY: PAVED PARKING AND, EXISTING BUILDING AND LANDSCAPING. REFER TO SHEET C101.

(A16) EXISTING SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS

REFER TO TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY SHEET.

(A17) LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE

NOT APPLICABLE FOR THIS PROJECT SITE.

(A18) LOCATION(S) WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE

REFER TO SHEET C900.

(A19) LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE

REFER TO THE SURVEY INCLUDED WITH THESE PLANS.

(A20) EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT

NOT APPLICABLE FOR THIS PROJECT SITE.

(A21) LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES

THERE ARE NO SINKHOLES OR UNCAPPED ABANDONED WELLS LOCATED ON THE PROJECT SITE OR DOWNSTREAM OF THE PROJECT SITE. THERE ARE FUNCTIONING DRY WELLS ON THIS SITE, REFER TO SHEETS C900.

(A22) SIZE OF THE PROJECT AREA EXPRESSED IN ACRES

PROJECT SITE: 2.23 ACRES.

(A23) TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES

THE OVERALL DISTURBED AREA IS APPROXIMATELY 2.23 ACRES. REFER TO SHEET C900.

(A24) PROPOSED FINAL TOPOGRAPHY

REFER TO EXISTING TOPOGRAPHY SHEET TOPO AND C300.

(A25) LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

REFER TO SHEET C900.

(A26) LOCATIONS, SIZE, AND DIMENTIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNELS

REFER TO SITE DEVELOPMENT PLAN SHEETS C300 & C301.

(A27) LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE

THE SITE DISCHARGES INTO EXISTING DRY WELLS ON THE SITE AND STORMWATER SEWER SYSTEM. THE SITE IS LOCATED WITHIN THE FLAT ROCK RIVER – COLUMBUS WATERSHED.

(A28) LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS

THE PROJECT BOUNDARIES CAN BE SEEN ON SHEETS C300 & C301.

(A29) LOCATION OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS

NO PERMANENT SOIL STOCKPILES ARE PLANNED FOR THIS DEVELOPMENT. IF TEMPORARY STOCKPILE OR BORROW AREAS ARE UTILIZED DURING CONSTRUCTION THAN THE PERIMETER OF THE STOCKPILE AREA SHALL BE ENCOMPASSED WITH SILT FENCE.

(A30) CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT

THE CONSTRUCTION SUPPORT ACTIVITIES CONCRETE WASHOUT CAN BE SEEN ON SHEET C900.

(A31) LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSING AND PUMP AROUNDS

IN STREAM ACTIVITIES ARE NOT PLANNED FOR THIS PROJECT.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN CONSTRUCTION COMPONENT (SECTION B)

(B1) DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS, INCLUDING ALL POTENTIAL NON-STORMWATER DISCHARGES

POTENTIAL POLLUTANTS SOURCES RELATIVE TO A CONSTRUCTION SITE MAY INCLUDE, BUT ARE NOT LIMITED TO MATERIAL AND FUEL STORAGE AREAS, FUELING LOCATIONS, EXPOSED SOILS AND LEAKING VEHICLE/EQUIPMENT. POTENTIAL POLLUTANTS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO DIESEL FUEL, GASOLINE, CONCRETE AND CONCRETE WASHOUT, SOLID WASTE, SEDIMENT, PAINT AND SOLVENTS, EQUIPMENT REPAIR PRODUCTS, ANTI–FREEZE AND FERTILIZER.

(B2) STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS

THE LOCATION OF THE CONSTRUCTION ENTRANCE IS ON SHEETS C900.

(B3) SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION

TEMPORARY SEEDING AND EROSION CONTROL MATTING WILL BE USED AS TEMPORARY SURFACE STABILIZATION MEASURES. UN–VEGETATED AREAS THAT ARE LEFT IDLE OR SCHEDULED TO BE LEFT INACTIVE FOR 7 DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON. STABILIZATION MUST BE INITIATED BY THE END OF THE SEVENTH (7TH) DAY. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION. REFER TO SHEETS C900 FOR SEEDING AREAS.

APPLY SEED UNIFORMLY.

INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. USE PHOSPHOROUS FREE FERTILIZER (12–0–12) UNLESS SOIL TESTING SHOWS A NEED.

PERMANENT SEEDING WILL BE USED AS PERMANENT SURFACE STABILIZATION MEASURES. REFER TO SHEETS C900 FOR SEEDING AREAS. CONTRACTOR TO SEED ALL DISTURBED AREAS.

INSPECT 24 HOURS AFTER EACH RAIN EVENT AND OR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. USE PHOSPHOROUS FREE FERTILIZER (12–0–12) UNLESS SOIL TESTING SHOWS A NEED.

(B4) SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

THERE ARE NO CONCENTRATED FLOW AREAS ON THIS SITE.

(B5) SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

SILT FENCE, FILTER SOCK, TEMPORARY SEEDING AND EROSION CONTROL INLET PROTECTION WILL BE USED AS EROSION CONTROL MEASURES FOR SHEET FLOWS. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED SEDIMENT CONTROL MEASURE IS ON SHEETS C900–C902.

(B6) RUNOFF CONTROL MEASURES

RUNOFF CONTROL MEASURES ARE NOT NEEDED FOR THIS SITE.

(B7) STORMWATER OUTLET PROTECTION LOCATION AND SPECIFICATIONS

THE PROJECT SITE DISCHARGES TO THE EXISTING STORM SEWER PIPES AND DRYWELLS ON SITE THEREFORE OUTLET PROTECTION IS NOT NEEDED FOR THIS SITE.

(B8) GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS

EROSION CONTROL BLANKETS WILL BE USED IN THIS PHASE ON GRADES GREATER THAN 3:1 AND/ OR EXPOSED TO CONCENTRATED FLOW. REFER TO CONSTRUCTION PLANS FOR LOCATIONS.

IF LIME STABILIZATION MEASURES ARE NEEDED DURING CONSTRUCTION TO OBTAIN COMPACTION. THE CONTRACTOR SHALL CONTAIN LIME FROM ENTERING EXISTING STORM SEWER SYSTEM BY ADEQUATELY CONTROLLING RUNOFF. CONTACT ENGINEER FOR SPECIFIC PLANS BASED ON THE AREA OF WORK.

(B9) DEWATERING APPLICATIONS AND MANAGEMENT METHODS

DEWATERING NOT APPLICABLE TO SITE.

(B10) MEASURES UTILIZED FOR WORK WITHIN WATERBODIES

NO WORK WILL BE OCCURRING WITHIN WATERBODIES.

(B11) MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY SERVICE

EROSION CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT FENCE	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROSION CONTROL BLANKET	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
SEED, SOD & LANDSCAPE AROUND	WATER AS NEEDED	AFTER FINISHED GRADING
CONCRETE WASHOUT	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO START OF ANY CONCRETE WORK
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF ROCK CHECK DAMS	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

* – SEE CHART FOR MAINTENANCE REQUIREMENTS

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS

SILT FENCE MAINTENANCE REQUIREMENTS:

1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF FENCE TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF OF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE

SILT SOCK MAINTENANCE REQUIREMENTS:

1. INSPECT THE SILT SOCK PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF SOCK TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF OF THE HEIGHT OF THE SOCK AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE TO AVOID UNDERMINING THE SOCK DURING CLEAN OUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE SOCK AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL
3. TOP DRESS WITH CLEAN STONE AS NEEDED..
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING.
5. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN. CLEANING OF STREETS COMPLETED BY END OF DAY TRACKING OCCURS.

EROSION CONTROL BLANKET MAINTENANCE REQUIREMENTS:

1. INSPECT EACH EROSION CONTROL BLANKET AREAS WEEKLY AND AFTER STORM E VENTS OR HEAVY USE
2. CHECK FOR DISPLACEMENT OF BLANKET.
3. AREAS DISPLACED, PULL BACK PORTION OF BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA. REPLACE AND STAPLE BLANKET.

CONCRETE WASHOUT MAINTENANCE REQUIREMENTS:

1. INSPECT EACH CONCRETE WASHOUT AREAS DAILY AND AFTER STORM EVENTS OR HEAVY USE.
2. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE. CHECK FOR LEAKS, SPILLS OR TRACKING OF SOIL BY EQUIPMENT.
3. REMOVE EXCESS CONCRETE WHEN WASHOUT SYSTEM REACHES 50% OF THE DESIGN CAPACITY, UPON REMOVAL, INSPECT STRUCTURE, REPAIR AS NEEDED.
4. DISPOSE OF ALL CONCRETE IN A LEGAL MANNER.
5. REPLACE PLASTIC LINER AFTER EVERY CLEANING. ENLARGE AS NECESSARY TO MAINTAIN CAPACITY.
6. WASH WATER NEED TO BE APPROPRIATELY COLLECTED AND DISPOSED.

INLET PROTECTION MAINTENANCE REQUIREMENTS:

1. INSPECT EACH INLET PROTECTION MEASURE WEEKLY AND AFTER STORM OR HEAVY USE
2. INSPECT STORM INLET BASKET OR GEOTEXTILE FABRIC AND MAKE REPAIRS.
3. REMOVE ANY SEDIMENT. AVOID DAMAGING OR UNDERCUTTING FABRIC.

(B12) STORMWATER QUALITY SEQUENCE

PRE–CONSTRUCTION ACTIVITIES:

SCHEDULE A PRE–CONSTRUCTION MEETING WITH CITY OF (CITY AND COUNTY) SOIL & WATER.

DESIGNATE A PERSON TO BE RESPONSIBLE FOR THE SITE INSPECTIONS AFTER EACH RAIN A MINIMUM OF ONCE EACH WEEK.

CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. (HOLEY MOLEY) AT 1–800–382–5544 TO CHECK LOCATIONS OF ANY EXISTING UTILITIES– MIN, 2 DAYS PRIOR BEFORE CONSTRUCTION ACTIVITY.

ESTABLISH ONSITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND CSGP NOI AND CSGP INSPECTION DOCUMENTATION.

INSTALL SILT FENCE AND OTHER EROSION CONTROL MEASURES AS INDICATED ON DRAWINGS.

INSTALL GRAVEL CONSTRUCTION ENTRANCE AS INDICATED ON DRAWINGS– ADD ADDITIONAL STONE AS NEEDED.

ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES.

CONSTRUCTION ACTIVITY PHASING:

AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. EROSION CONTROL FOR LARGE UNPROTECTED AREAS MUST BE INITIATED WITHIN 7 DAYS OF EXPOSURE, AND MUST BE COMPLETE BY DAY 14 OF EXPOSURE.
CONSTRUCT CONCRETE WASH STATION BEFORE CONCRETE WORK IS TO COMMENCE ON SITE. REFER TO PLAN FOR LOCATION.

INSTALL SEWERS, ALL UTILITIES AND UNDERDRAINS. ADD INLET PROTECTION MEASURES AS INDICATED ON PLANS.

AFTER COMPLETION OF MASS GRADING AND FINAL GRADING: SEED ALL DISTURBED AREAS, COMMON AREAS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETED.

PLACE TOPSOIL IN ALL TURF AND LANDSCAPE AREAS.

INSTALL PAVEMENT AND FINAL GRADE AREA.

INSTALL LANDSCAPING AND FINAL SEEDING.

REMOVE ALL SEDIMENT CONTROL PRACTICES ONCE THE SITE IS STABILIZED.

NOTE: INSTALL TEMPORARY SEEDING AFTER A SPECIFIC STAGE OF CONSTRUCTION HAS BEEN COMPLETED (TEMPORARY OR FINAL) WHERE AREAS WILL BE IDLE OF CONSTRUCTION ACTIVITIES FOR A PERIOD OF 7 DAYS OR MORE.

(B13) PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL RESIDENTIAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT

NO ADDITIONAL EROSION CONTROL SPECIFICATIONS ARE NEEDED FOR THIS PHASE.

(B14) MATERIAL HANDLING AND (B15) SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2-6.1

EXPECTED MATERIALS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO PETROLEUM PRODUCTS, FERTILIZERS, PAINT AND SOLVENTS, AND CONCRETE. MATERIALS SHALL BE STORED IN THE DESIGNATED MATERIAL STORAGE AREA.

SPILL PREVENTION FOR VEHICLE AND EQUIPMENT FUELING SHALL CONFORM TO THE FOLLOWING PRACTICES: VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY USING OFFSITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY, ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES. LIMITATIONS: ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING. SENDING VEHICLES AND EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT. IMPLEMENTATION: USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE. DISCOURAGE "TOPPING–OFF" OF FUEL TANKS. ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHOULD BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA. USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES. DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL–GRADE AREA. PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN SPILLS. NOZZLES USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED. FEDERAL, STATE, AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.

VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE. KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE. IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOILS.

SPILL PREVENTION FOR SOLID WASTE SHALL CONFORM TO THE FOLLOWING PRACTICES: SOLID WASTE MANAGEMENT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM SOLID OR CONSTRUCTION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS, ARRANGING FOR REGULAR DISPOSAL, AND TRAINING EMPLOYEES AND SUBCONTRACTORS. SOLID WASTE GENERATED FROM TREES AND SHRUBS REMOVED DURING LAND CLEARING, DEMOLITION OF EXISTING STRUCTURES, AND BUILDING CONSTRUCTION. PACKAGING MATERIALS INCLUDING WOOD, PAPER, AND PLASTIC. SCRAP OR SURPLUS BUILDING MATERIALS INCLUDING SCRAP METALS, RUBBER, PLASTIC, GLASS PIECES AND MASONRY PRODUCTS. DOMESTIC WASTES INCLUDING FOOD CONTAINERS SUCH AS BEVERAGE CANS, COFFEE CUPS, PAPER BAGS, PLASTIC WRAPPERS, AND CIGARETTES. CONSTRUCTION WASTES INCLUDING BRICK, MORTAR, TIMBER, STEEL AND METAL SCRAPS, PIPE AND ELECTRICAL CUTTINGS, NON–HAZARDOUS EQUIPMENT PARTS, STYROFOAM AND OTHER PACKAGE CONSTRUCTION MATERIALS. SELECT DESIGNATED WASTE COLLECTION AREAS ONSITE. INFORM TRASH–HAULING CONTRACTORS THAT YOU WILL ACCEPT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE. INSPECT DUMPSTERS FOR LEAKS AND REPAIR ANY DUMPSTER THAT IS NOT WATERTIGHT. PROVIDE AN ADEQUATE NUMBER OF CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER TO KEEP RAIN OUT OR TO PREVENT LOSS OF WASTES WHEN IT IS WINDY. PLAN FOR ADDITIONAL CONTAINERS AND MORE FREQUENT PICKUP DURING THE DEMOLITION PHASE OF CONSTRUCTION. COLLECT SITE TRASH DAILY, ESPECIALLY DURING RAINY AND WINDY CONDITIONS. REMOVE THIS SOLID WASTE PROMPTLY SINCE EROSION AND SEDIMENT CONTROL DEVICES TEND TO COLLECT LITTER. MAKE SURE THAT TOXIC LIQUID WASTES (SUED OILS, SOLVENTS AND PAINTS) AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNED FOR CONSTRUCTION DEBRIS. DO NOT HOSE OUT DUMPSTERS ON THE CONSTRUCTION SITE. LEAVE DUMPSTER CLEANING TO THE TRASH HAULING CONTRACTOR. ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW. CLEAN UP IMMEDIATELY IF A CONTAINER DOES SPILL. MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS. SOLID WASTE STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT FROM DRAINAGE FACILITIES AND WATERCOURSES AND SHOULD NOT BE LOCATED IN AREAS PRONE TO FLOODING OR PONDING. INSPECT CONSTRUCTION WASTE AREA REGULARLY. ARRANGE FOR REGULAR WASTE COLLECTION.

SPILL PREVENTION FOR CONCRETE WASHOUT SHALL CONFORM TO THE FOLLOWING PRACTICES: STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE. PERFORM WASHOUT OF CONCRETE TRUCKS OFFSITE OR IN DESIGNATED AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS. LOCATE WASHOUT AREAS AT LEAST 50 FT FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY. AVOID CREATING RUNOFF BY DRAINING WATER TO A BERMED OR LEVEL AREA WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE. DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH. 10 MIL LINER REQUIRED.

THE CLEANUP PARAMETERS SHALL CONFORM TO THE FOLLOWING PRACTICES: THE DEVELOPER SHALL BE CONTINUALLY KEPT INFORMED, MAINTAIN LISTS OF QUALIFIED CONTRACTORS AND AVAILABLE VAC–TRUCKS, TANK PUMPERS AND OTHER EQUIPMENT READILY ACCESSIBLE FOR CLEANUP OPERATIONS. IN ADDITION, A CONTINUALLY UPDATED LIST OF AVAILABLE ABSORBENT MATERIALS AND CLEANUP SUPPLIES SHOULD BE KEPT ON SITE. ALL MAINTENANCE PERSONNEL WILL BE MADE AWARE OF TECHNIQUES FOR PREVENTION OF SPILLS. THEY WILL BE INFORMED OF THE REQUIREMENTS AND PROCEDURES OUTLINED IN THIS PLAN. THEY WILL BE KEPT ABREAST OF CURRENT DEVELOPMENTS OR NEW INFORMATION ON THE PREVENTION OF SPILLS AND / OR NECESSARY ALTERATION TO THIS PLAN. WHEN SPILLS OCCUR WHICH COULD ENDANGER HUMAN LIFE AND THIS BECOME PRIMARY CONCERN, THE DISCHARGE OF THE LIFE SAVING PROTECTION FUNCTION WILL BE CARRIED OUT BY THE LOCAL POLICE AND FIRE DEPARTMENTS. ABSORBENT MATERIALS, WHICH ARE USED IN CLEANING UP SPILLED MATERIALS, WILL BE DISPOSED OF IN A MANNER SUBJECT TO THE APPROVAL OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. FLUSHING OF SPILLED MATERIAL WITH WATER WILL NOT BE PERMITTED UNLESS SO AUTHORIZED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. COLLECT WASTE FROM WASHING TOOLS, SAW CUTTING, MIXING MORTAR, STUCCO, OTHER CEMENTITIOUS PRODUCTS. NO CLEANING OR WASHING OR MIXING ONTO GROUND.

SPILL PREVENTION FOR VEHICLE AND EQUIPMENT MAINTENANCE SHALL CONFORM TO THE FOLLOWING PRACTICES: PREVENT OR REDUCE THE CONTAMINATION OF STORMWATER RESULTING FROM VEHICLE AND EQUIPMENT MAINTENANCE BY RUNNING A "DRY AND CLEAN SITE". THE BEST OPTION WOULD BE TO PERFORM MAINTENANCE ACTIVITIES AT AN OFFSITE FACILITY. IF THIS OPTION IS NOT AVAILABLE THEN WORK SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY, WHILE PROVIDING COVER FOR MATERIALS STORED OUTSIDE, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY. THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE AN ONSITE YARD AREA IS NECESSARY FOR STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES. ONSITE VEHICLE AND EQUIPMENT MAINTENANCE SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR. SENDING VEHICLES / EQUIPMENT OFFSITE SHOULD BY DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE / EXIT. OUT DOOR VEHICLE OR EQUIPMENT MAINTENANCE IS A POTENTIALLY SIGNIFICANT SOURCE OF STORMWATER POLLUTION. ACTIVITIES THAT CAN CONTAMINATE STORMWATER INCLUDE ENGINE REPAIR AND SERVICE, CHANGING OR REPLACEMENT OF FLUIDS, AND OUTDOOR EQUIPMENT STORAGE AND PARKING (ENGINE FLUID LEAKS). IF MAINTENANCE MUST OCCUR ONSITE, USE DESIGNATED AREAS, LOCATED AWAY FROM DRAINAGE COURSES. DEDICATED MAINTENANCE AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT FROM DOWNSTREAM DRAINAGE FACILITIES AND WATER COURSES. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT MAINTENANCE WORK THAT INVOLVES FLUIDS, UNLESS THE MAINTENANCE WORK IS PERFORMED OVER AND IMPERMEABLE SURFACE IN A DEDICATED MAINTENANCE AREA. PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE. ALL FUELING TRUCKS AND FUELING AREAS ARE REQUIRED TO HAVE SPILL KITS AND/OR USE OTHER SPILL PROTECTION DEVICES. USE ABSORBENT MATERIALS ON SMALL SPILLS. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. INSPECT ONSITE VEHICLES AND EQUIPMENT DAILY AT STARTUP FOR LEAKS, AND REPAIR IMMEDIATELY. KEEP VEHICLES AND EQUIPMENT CLEAN; DO NOT ALLOW EXCESSIVE BUILDUP OF OIL AND GREASE. SEGREGATE AND RECYCLE WASTES, SUCH AS GREASES, USED OIL OR OIL FILTERS, ANTIFREEZE, CLEANING SOLUTIONS, AUTOMOTIVE BATTERIES, HYDRAULIC AND TRANSMISSION FLUIDS. PROVIDE SECONDARY CONTAINMENT AND COVERS FOR THESE MATERIALS IF STORED ONSITE. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER MAINTENANCE AND SPILL CLEANUP PROCEDURES. DRIP PANS OR PLASTIC SHEETING SHOULD BY PLACED UNDER ALL VEHICLES AND EQUIPMENT PLACED ON DOCKS, BARGES, OTHER STRUCTURES OVER WATER BODIES WHEN THE VEHICLE OR EQUIPMENT IS PLANNED TO BE IDLE FOR MORE THAN 1 HOUR. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. PROPERLY DISPOSE OF OR RECYCLE USED BATTERIES. DO NOT PLACE USED OIL IN A DUMPSTER OR POUR INTO A STORM DRAIN OR WATER COURSE. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. DON NOT BURY TIRES. REPAIR LEAKS OF FLUIDS AND OIL IMMEDIATELY.

SPILL PREVENTION FOR FERTILIZERS SHALL CONFORM TO THE FOLLOWING PRACTICES: FERTILIZER'S USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

SPILL PREVENTION FOR PAINT AND SOLVENTS SHALL CONFORM TO THE FOLLOWING PRACTICES: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE OR LOCAL REGULATIONS.

SPILL PREVENTION FOR PORTABLE TOILETS SHALL CONFORM TO THE FOLLOWING PRACTICE: ALL PORTABLE TOILETS MUST BE ANCHORED TO PREVENT SPILLS.

SPILL PREVENTION AND CLEANUP SHALL CONFORM TO IDEM FORM 327 IAC 2–6 AND THE COLUMBUS FIRE DEPARTMENT SHALL BE CONTACTED IN THE CASE OF A MATERIAL SPILL OCCURRING.

IDEM EMERGENCY SPILL REPORTING:	(317) 233–7745 OR (888) 233–7745
COLUMBUS FIRE DEPARTMENT	(812) 376–2679
COLUMBUS POLICE DEPARTMENT	(812) 376–2600
BARTHOLOMEW COUNTY SOIL & WATER CONSERVATION	(812) 378–1280
CITY OF COLUMBUS ENGINEERING DEPARTMENT	(812) 376–2540

(B15) MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY

APPROPRIATE MEASURES MUST BE IMPLEMENTED TO MANAGE WASTES OR UNUSED BUILDING MATERIALS INCLUDING, BUT NOT LIMITED TO GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, CONCRETE OR CEMENTITIOUS WASHOUT WATER, MORTAR/MASONRY PRODUCTS, SOIL STABILIZERS, LIME STABILIZATION MATERIALS, AND OTHER SUBSTANCES. WASTES AND UNUSED BUILDING MATERIALS MUST BE MANAGED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE STATUTES AND REGULATIONS.
PROPER STORAGE AND HANDLING OF MATERIALS, SUCH AS FUELS OR HAZARDOUS WASTES, AND SPILL PREVENTION AND CLEAN–UP MEASURES MUST BE IMPLEMENTED TO MINIMIZE THE POTENTIAL FOR POLLUTANTS TO CONTAMINATE SURFACE OR GROUND WATER OR DEGRADE SOIL QUALITY.

CONCRETE OR CEMENTITIOUS WASHOUT AREAS, WHERE WASHOUT IS PERMISSIBLE, MUST BE IDENTIFIED FOR THE SITE AND LOCATIONS CLEARLY POSTED. WASH WATER MUST BE DIRECTED INTO LEAK–PROOF CONTAINERS OR LEAK–PROOF CONTAINMENT AREAS WHICH ARE LOCATED AND DESIGNED TO DIVERT STORMWATER RUN–OFF AWAY FROM THE MEASURE AND SIZED TO PREVENT THE DISCHARGE AND/OR OVERFLOW OF THE WASH WATER.

(B16) MONITORING AND PROJECT MANAGEMENT PLAN

PROVIDE TRAINED INDIVIDUAL DOCUMENTATION TO THE CITY OF COLUMBUS STORMWATER COORDINATOR.

A PRE–CONSTRUCTION MEETING WITH THE CITY OF COLUMBUS STORMWATER COORDINATOR AND THE OWNER, CONTRACTOR, AND APPOINTED "TRAINED INDIVIDUAL" WILL BE REQUIRED BEFORE LAND DISTURBING COMMENCES, INCLUDING INSTALLATION OF SEDIMENT AND EROSION CONTROL BMPS.

A BMP MEETING WILL BE REQUIRED WITH THE CONTRACTOR, OWNER AND/OR LESSEE, AND THE CITY STORMWATER COORDINATOR AT THE TIME OF CERTIFICATE OF OCCUPANCY.

UN–VEGETATED AREAS THAT ARE LEFT IDLE OR SCHEDULED TO BE LEFT INACTIVE FOR 7 DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON. STABILIZATION MUST BE INITIATED BY THE END OF THE SEVENTH (7^{TH}) DAY. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION. INITIATION OF STABILIZATION INCLUDES, BUT IS NOT LIMITED TO, THE SEEDING AND/OR PLANTING OF THE EXPOSED AREA AND APPLYING MULCH OR OTHER TEMPORARY SURFACE STABILIZATION METHODS WHERE APPROPRIATE

SELF INSPECTIONS:
A TRAINED INDIVIDUAL SHALL PERFORM VISUAL INSPECTIONS OF THE PROJECT SITE. A TRAINED INDIVIDUAL IS AN INDIVIDUAL WHO IS TRAINED AND EXPERIENCED IN THE PRINCIPLES OF STORMWATER MANAGEMENT, INCLUDING EROSION AND SEDIMENT CONTROL AS IS DEMONSTRATED BY COMPLETION OF COURSEWORK, STATE REGISTRATION, PROFESSIONAL CERTIFICATION, OR ANNUAL TRAINING THAT ENABLE THE INDIVIDUAL TO MAKE JUDGMENTS REGARDING STORMWATER MANAGEMENT, TREATMENT, AND MONITORING.

1) THE FREQUENCY OF SELF–INSPECTIONS ARE:
   a. AT LEAST ONCE EVERY WORK WEEK;
   b. WITHIN TWENTY–FOUR (24) HOURS AFTER QUALIFYING PRECIPITATION EVENT, WHICH IS PRECIPITATION ACCUMULATION EQUAL TO, OR GREATER THAN, ONE–HALF (0.50) INCH OF RAINFALL WITHIN A 24–HOUR PERIOD. INSPECTIONS THAT WERE CONDUCTED TWENTY–FOUR (24) HOURS PRIOR TO A QUALIFYING PRECIPITATION EVENT MEET THIS REQUIREMENT.
   c. IF THERE ARE MULTIPLE QUALIFYING PRECIPITATION EVENTS OCCUR DURING THE WEEK NO MORE THAN THREE (3) INSPECTIONS ARE REQUIRED WITHIN THAT WEEK.

PROJECT MANAGEMENT LOG:
THE PROJECT OWNER IS REQUIRED TO KEEP A PROJECT MANAGEMENT LOG THAT ADDRESS THE REQUIREMENTS FOUND WITHIN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP). THEY ARE REQUIRED TO RETAIN THE PROJECT MANAGEMENT LOG FOR THREE YEARS AFTER COMPLETION OF THE PROJECT, NOTICE OF TERMINATION GRANTED.
THE PROJECT MANAGEMENT LOG SHOULD INCLUDE:

1. INFORMATION RELATED TO ALL OFF–SITE BORROW SITES, DISPOSAL AREAS, AND STAGING AREAS
2. INFORMATION RELATED TO ALL PROJECT ACTIVITIES INCLUDING, BUT NOT LIMITED TO:
   a. SMP (SELF–MONITORING PROGRAM) REPORTS.
   b. PUBLIC NOTICED DOCUMENTATION
   c. REGULATORY INSPECTIONS.
   d. RESPONSES TO A COMPLIANCE ACTION OR ENFORCEMENT ACTION.
   e. RECORDS SHOWING THE DATES OF ALL SWP3 MODIFICATIONS. THE RECORDS MUST INCLUDE THE NAME OF THE PERSON AUTHORIZING EACH CHANGE AND A SUMMARY OF ALL CHANGES.
3. TRAINED INDIVIDUAL'S QUALIFYING DOCUMENTS
4. DOCUMENTATION SHOWING THAT PERSONNEL ASSOCIATED WITH THE PROJECT HAVE BEEN INFORMED OF THE TERMS AND CONDITIONS OF THE PERMIT AND THE REQUIREMENTS WITHIN THE SWP3.
5. ENSURE THE SWP3 AND SUPPORTING DOCUMENTATION ASSOCIATED WITH THE SMP AND PROJECT MANAGEMENT LOG ARE ACCESSIBLE AT THE PROJECT SITE OFFICE OR IN THE POSSESSION OF ON–SITE INDIVIDUALS WITH RESPONSIBILITY FOR THE OVERALL PROJECT MANAGEMENT OR ASSOCIATED WITH THE MANAGEMENT AND OPERATIONS OF CONSTRUCTION ACTIVITIES.
6. ALL REPORTS FOR THE PROJECT SITE MUST BE PROVIDED TO THE INSPECTING AUTHORITY WITHIN FORTY–EIGHT (48) HOURS OF A REQUEST. ELECTRONIC COPIES ARE ACCEPTABLE, PROVIDED THEY ARE IN A FORMAT CONSISTENT WITH THE PAPER RECORD.

TRAINED INDIVIDUAL:
THE "TRAINED INDIVIDUAL MEANS AN INDIVIDUAL WHO IS TRAINED AND EXPERIENCED IN THE PRINCIPLES OF STORM WATER QUALITY, INCLUDING EROSION AND SEDIMENT CONTROL AS MAY BE DEMONSTRATED BY STATE REGISTRATION, PROFESSIONAL CERTIFICATION, EXPERIENCE, OR COMPLETION OF COURSEWORK THAT ENABLE THE INDIVIDUAL TO MAKE JUDGMENTS REGARDING STORM WATER CONTROL OR TREATMENT AND MONITORING." THIS PERSON WOULD BE OVERSEEING THE IMPLEMENTATION OF THE STORM WATER QUALITY MEASURES AND PERFORMING THE WEEKLY SELF–MONITORING INSPECTIONS.
TO FINAL THE CITY STORMWATER MANAGEMENT PERMIT AND TO TERMINATE THE STATE CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP):

1) CERTIFY THE SITE MEETS THE REQUIREMENTS THE FOLLOWING REQUIREMENTS:
   a. ALL LAND DISTURBING ACTIVITIES HAVE BEEN COMPLETED
   b. FINAL STABILIZATION OF THE ENTIRE SITE HAS BEEN COMPLETED AND VEGETATED AREAS HAVE ACHIEVED 70% UNIFORM PERENNIAL VEGETATED COVER.
   c. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED
   d. ALL PERMANENT STORMWATER QUALITY MEASURES HAVE BEEN IMPLEMENTED AND ARE OPERATIONAL. PROVIDE DOCUMENTATION THAT THE STORMWATER BMPS HAVE BEEN INSPECTED AND CLEANED.
   e. ALL CONSTRUCTION MATERIALS, WASTE, WASTE HANDLING DEVICES, EQUIPMENT AND VEHICLES HAVE BEEN REMOVED.
   f. NO FUTURE LAND DISTURBING ACTIVITIES WILL OCCUR AT THE PROJECT SITE.
2) CONTACT THE CITY STORMWATER COORDINATOR TO REQUEST A FINAL RELEASE INSPECTION.
3) RECEIVE AN ADEQUATE FINAL INSPECTION REPORT.
4) FILE A NOTICE OF TERMINATION THROUGH THE IDEM'S REGULATORY EPORTAL. ATTACH THE ADEQUATE FINAL INSPECTION REPORT TO CLOSE OUT THE CSGP.
5) RECEIVE A NOTICE OF TERMINATION VERIFICATION FROM IDEM.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN COMPONENT (SECTION C)

(C1) DESCRIPTION OF POLLUTATNTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE

POTENTIAL POLLUTANT SOURCES THAT MAY APPEAR AT THE SITE DUE TO PROPOSED LAND USE ACTIVITIES, BUT ARE NOT LIMITED TO VEHICLES, EXPOSED SOIL AND TRASH. POTENTIAL POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO OIL, GREASE, DIESEL FUEL, GASOLINE, ANTI–FREEZE, AUTO SOAP AND FERTILIZER.

(C2) DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER MEASURES

POST CONSTRUCTION STORMWATER QUALITY MEASURES TO AID IN REDUCING THE AMOUNT OF POLLUTANTS:

1. POST CONSTRUCTION STORMWATER QUALITY MEASURES WILL CONSIST OF VEGETATIVE COVER ON THE PERMANENT GRASS AREAS IMMEDIATELY AFTER COMPLETION OF FINAL GRADING. THE VEGETATIVE COVER IS INTENDED TO STABILIZE THE DISTURBED AREAS AND TO SERVE AS A SEDIMENT TRAP FOR FINER PARTICLES WITHIN THE STORM SEWER SYSTEM.

2. THE USE OF INLETS WITHIN THE STORM SEWER SYSTEM HAS BEEN UTILIZED. MAINTENANCE OF THE INLETS WILL BE THE RESPONSIBILITY OF THE OWNER AND/OR AGENCY TAKING JURISDICTION OVER THE STORM SEWER INFRASTRUCTURE IMPROVEMENTS.

3. AQUA SWIRL MECHANICAL BMP STRUCTURES ARE PROPOSED FOR THIS PROJECT. THE OWNER SHALL FOLLOW THE OPERATION AND MAINTENANCE SCHEDULE AS DEFINED IN THE PROJECT O&M MANUAL. INSPECTIONS SHALL OCCUR AS DEFINED IN THE PROJECT O&M MANUAL. THESE CAN BE FOUND ON SHEETS C300, C301, & C900.

(C3) PLAN DETAILS FOR EACH STORMWATER MEASURE

THE STORMWATER QUALITY MEASURES FOR POST CONSTRUCTION ACTIVITIES ARE INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS. REFER TO SHEETS C900 FOR EROSION CONTROL MEASURES TO BE IMPLEMENTED WITHIN THE PROJECT SITE. REFER TO SHEETS C300 & C301 FOR MECHANICAL BMP STRUCTURES AND STORM SEWER IMPROVEMENTS. DETAILS CAN BE FOUND ON SHEET C800 AND IN THE O&M MANUAL.

(C4) SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION

THE STORMWATER BMP STRUCTURES SHALL BE IMPLEMENTED AT THE TIME OF STORM SEWER INSTALLATION. ADDITIONAL STORMWATER QUALITY MEASURES WILL BE IMPLEMENTED AT THE DEVELOPMENT OF SUBSEQUENT CONSTRUCTION PHASES. FOLLOWING CONSTRUCTION, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED UNTIL ALL PERMANENT MEASURES AND VEGETATION HAS BEEN ESTABLISHED AND CONSTRUCTION, INCLUDING LANDSCAPING, IS COMPLETE.

INDIVIDUAL EROSION CONTROL MEASURES MAY BE REMOVED FROM INLET PROTECTION STATUS FOLLOWING SEEDING AND AFTER SUFFICIENT VEGETATION HAS BEEN ESTABLISHED IN AN AREA TO PREVENT SILT AND SOIL EROSION INTO THE STORM SEWER SYSTEM.

INSPECTION AND MAINTENANCE OF ALL COMMON AREAS, LANDSCAPE AREAS, MECHANICAL BMP UNITS, AND INFRASTRUCTURE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE DEVELOPER/OWNER AND OR LOCAL AGENCIES TAKING JURISDICTION OVER THE INFRASTRUCTURE IMPROVEMENTS.

(C5) MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER MEASURES

OWNER WILL PROVIDE MAINTENANCE ACTIVITIES FOR THE POST CONSTRUCTION WATER QUALITY MEASURES. MAINTENANCE ACTIVITIES WILL BE COMPLETED AS DESCRIBED BELOW.

1. ALL INLET CASTINGS WILL BE INSPECTED MONTHLY. DEBRIS AND TRASH AROUND OR OBSTRUCTING INLETS WILL BE REMOVED AND DISPOSED PROPERLY.

2. GRASS AREAS SURROUNDING INLETS WILL BE MAINTAINED ON A REGULAR MOWING CYCLE. TRASH AND DEBRIS WILL BE REMOVED FROM SEEDED AND PAVED AREAS.

3. DAMAGE TO INLET CASTINGS, INLET STRUCTURES, STORM STRUCTURES, OR CATCH BASINS SHOULD BE REPAIRED AS SOON AS POSSIBLE.

4. THE OWNER SHALL FOLLOW THE OPERATION AND MAINTENANCE SCHEDULE AS DEFINED IN THE PROJECT O&M MANUAL. INSPECTIONS SHALL OCCUR AS DEFINED IN THE PROJECT O&M MANUAL.

(C6) ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEASURES

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
BRETT BOEZEMAN, DIRECTOR OF OPERATIONS
1260 N. MARR ROAD
COLUMBUS, IN 47201
PH: (812) 376–4231
boezemanb@bcsc.k12.in.us

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Civil & Environmental Consultants, Inc.
530 E. Ohio Street · Suite G - Indianapolis, IN 46204
317-655-7777 · 877-746-0749
www.cecinc.com

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

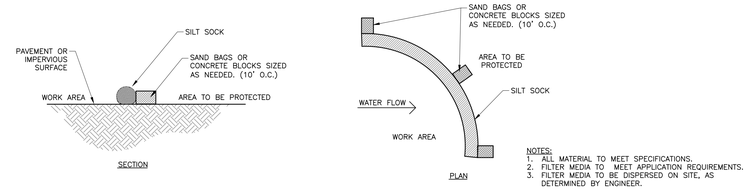
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
STORMWATER POLLUTION PREVENTION NOTES

CERTIFIED BY:
JONATHAN M. PASYK
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

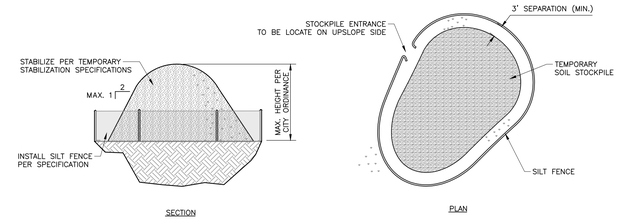
DRAWING NUMBER
C901

PROJECT NUMBER
2021049



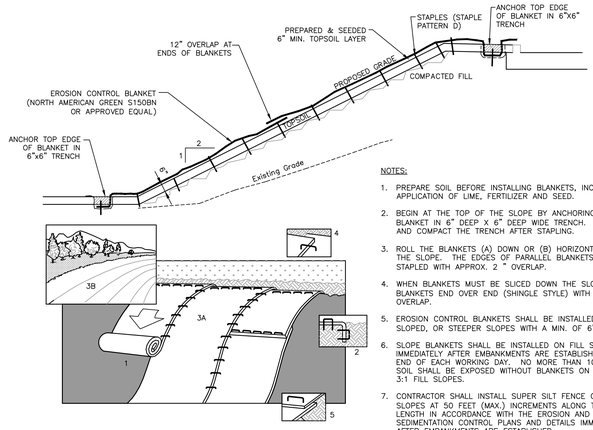
NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

DETAIL 901 - SILT SOCK ON PAVEMENT
(SILTSOXX OR APPROVED EQUAL)
NOT TO SCALE



NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. SEE PLAN VIEW FOR STOCKPILE LOCATION AND TYPE OF STOCKPILE PROTECTION.
3. INSTALL SILT FENCE IN ACCORDANCE WITH DETAIL. SEE SILT FENCE DETAIL ON CITY STANDARD SHEETS.
4. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKEST OR SOIL BINDERS.

DETAIL 902 - TEMPORARY SOIL STOCKPILE DETAIL
NOT TO SCALE



NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" DEEP WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROX. 2 " OVERLAP.
4. WHEN BLANKETS MUST BE SLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROX. 12" OVERLAP.
5. EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL 3:1 SLOPED, OR STEEPER SLOPES WITH A MIN. OF 6" OF TOPSOIL.
6. SLOPE BLANKETS SHALL BE INSTALLED ON FILL SLOPES IMMEDIATELY AFTER EMBANKMENTS ARE ESTABLISHED. AT THE END OF EACH WORKING DAY, NO MORE THAN 10 FEET OF SOIL SHALL BE EXPOSED WITHOUT BLANKETS ON PERMANENT 3:1 FILL SLOPES.
7. CONTRACTOR SHALL INSTALL SUPER SILT FENCE ON 2:1 SLOPES AT 50 FEET (MAX.) INCREMENTS ALONG THE SLOPE LENGTH IN ACCORDANCE WITH THE EROSION AND SEDIMENTATION CONTROL PLANS AND DETAILS IMMEDIATELY AFTER EMBANKMENTS ARE ESTABLISHED.

DETAIL 903 - SLOPE BLANKET INSTALLATION
NOT TO SCALE

NOTE:
CONTRACTOR SHALL REFER TO THE CITY OF COLUMBUS STANDARD DETAILS AND SPECIFICATIONS WITHIN THIS CONSTRUCTION SET FOR OTHER SWPPP DETAILS AND PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT THE C903 DRAWING FULLY DEPICTS ALL SITE DETAILS ASSOCIATED WITH THE PROJECT. FOR ANY DISCREPANCIES BETWEEN DETAIL SETS, THE COLUMBUS STANDARD DETAILS SHALL SUPERSEDE OVER THE C900 SERIES OF DETAILS.

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1 03/08/2024 - ADDENDUM #01
2 03/15/2024 - ADDENDUM #02

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	RT	JP

DRAWING TITLE:
STORMWATER POLLUTION PREVENTION DETAILS

CERTIFIED BY:
JONATHAN M. PASSEY
REGISTERED
No. PE12100829
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/24

DRAWING NUMBER
C903

PROJECT NUMBER
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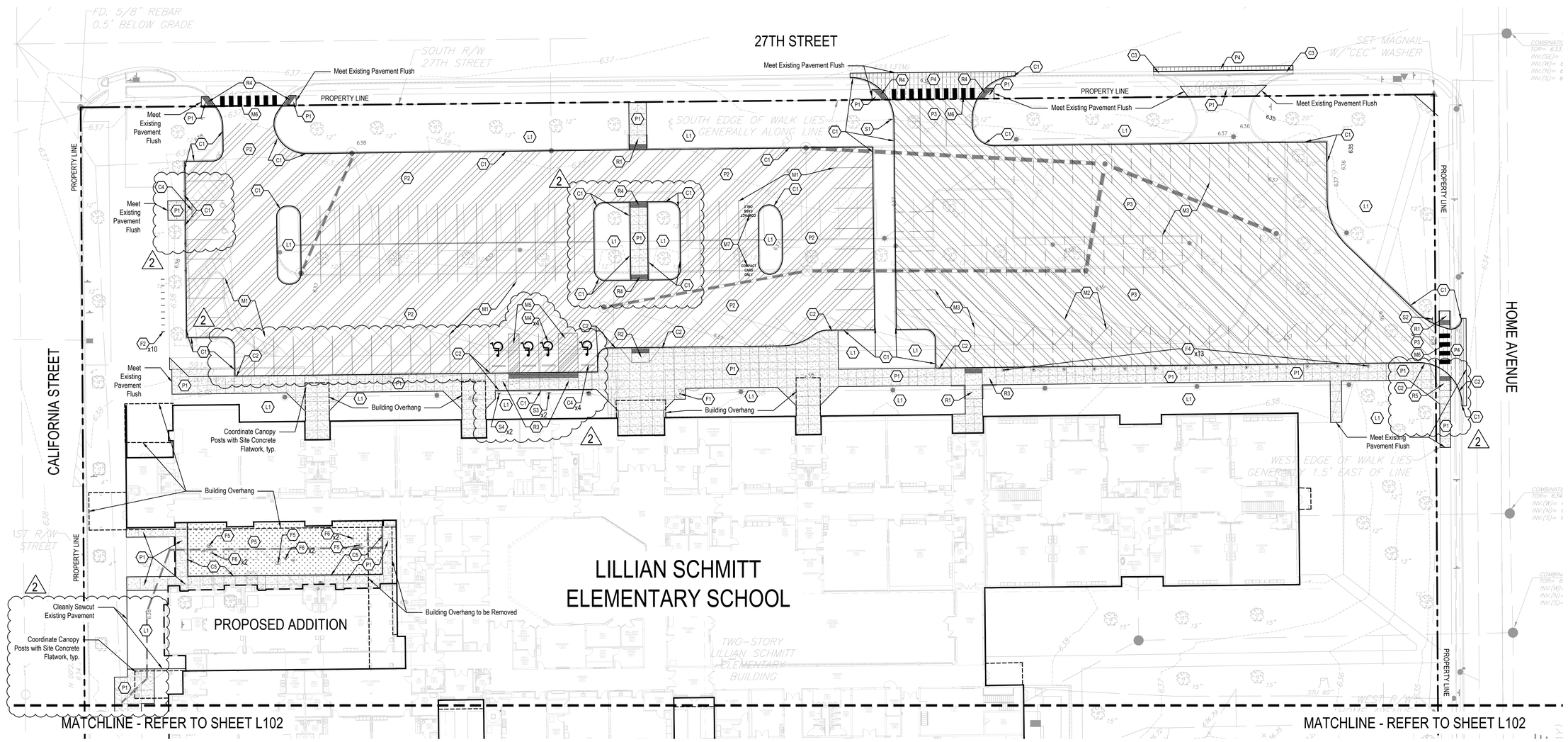

	CURBS
KEY	DESCRIPTION / REFERENCE
C1	POST CURB, REFER TO DETAIL 6/L600
C2	INTEGRAL CURB AND SIDEWALK, REFER TO DETAIL 7/L600
C3	CURB, ROLL, REFER TO DETAIL 16/L600
C4	WHEEL STOP, REFER TO DETAIL 8/L600
C5	INTEGRAL CURB AND SIDEWALK AT SYNTHETIC PLAYGROUND TURF, REFER TO DETAIL 7/L601

	SITE FURNISHINGS
KEY	DESCRIPTION / REFERENCE
F1	FLAG POLE, REFER TO DETAIL 15/L600
F2	BICYCLE RACK, REFER TO DETAIL 5/L601
F3	BARRIER GATE, 22'-0" WIDTH, REFER TO SPECIFICATION 32 33 00
F4	STEEL PIPE BOLLARD, 6", REFER TO DETAIL 14/L600
F5	MAYA LIN LARGE STONE
F6	MAYA LIN SMALL STONE

	LANDSCAPE AREA
KEY	DESCRIPTION / REFERENCE
L1	PLANTING AREA, REFER TO L300 SERIES SHEETS

	PAVEMENT, CONCRETE
KEY	DESCRIPTION / REFERENCE
P1	STANDARD DUTY CONCRETE, REFER TO DETAILS 1-2/L600

	PAVEMENT, ASPHALT
KEY	DESCRIPTION / REFERENCE
P2	STANDARD DUTY ASPHALT, REFER TO DETAIL 4/L600
P3	HEAVY DUTY ASPHALT, REFER TO DETAIL 5/L600
P4	RIGHT OF WAY ASPHALT, REFER TO CIVIL DRAWINGS

	PAVEMENT, SYNTHETIC TURF
KEY	DESCRIPTION / REFERENCE
P5	SYNTHETIC PLAYGROUND TURF, REFER TO DETAIL 6/L601

	RAMPS
KEY	DESCRIPTION / REFERENCE
R1	STRAIGHT RAMP, REFER TO DETAIL 2/L601
R2	DOUBLE WING RAMP, REFER TO DETAIL 1/L601
R3	PARALLEL CURB RAMP, REFER TO DETAIL 3/L601
R4	TRUNCATED DOME WARNING SURFACE, REFER TO DETAIL 4/L601
R5	SINGLE WING RAMP, REFER TO DETAIL 9/L601

	SIGNAGE (COMPLY WITH MUTCD STANDARDS)(VIF REGULATORY SIGNS WITH CITY REPRESENTATIVE)
KEY	DESCRIPTION / REFERENCE
S1	BUS LOT EVENT PARKING ONLY, REFER TO DETAIL 11/L600
S2	DO NOT ENTER, REFER TO DETAIL 11/L600
S3	VAN ACCESSIBLE ADA PARKING, REFER TO DETAIL 10/L600
S4	ACCESSIBLE ADA PARKING, REFER TO DETAIL 10/L600

	STRIPING, REFER TO SPECIFICATION 32 17 23
KEY	DESCRIPTION / REFERENCE
M1	VEHICULAR STRIPING, WHITE, REFER TO DETAIL 12/L600 AND SPECIFICATIONS
M2	BUS STRIPING, WHITE, REFER SPECIFICATIONS
M3	EVENT VEHICULAR STRIPING, DASHED WHITE, REFER TO DETAIL 12/L600 AND SPECIFICATIONS
M4	ADA PARKING SYMBOL, BLUE, REFER TO DETAIL 9/L600 AND SPECIFICATIONS
M5	ADA PARKING STRIPING, BLUE, REFER TO DETAIL 12/L600 AND SPECIFICATIONS
M6	CROSSWALK STRIPING, WHITE, REFER TO DETAIL 13/L600 AND SPECIFICATIONS

North

0 10' 20' 40'

Scale 1" = 20'-0"

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REVISIONS:

1	Addendum 01	03/08/2024
2	Addendum 02	03/15/2024

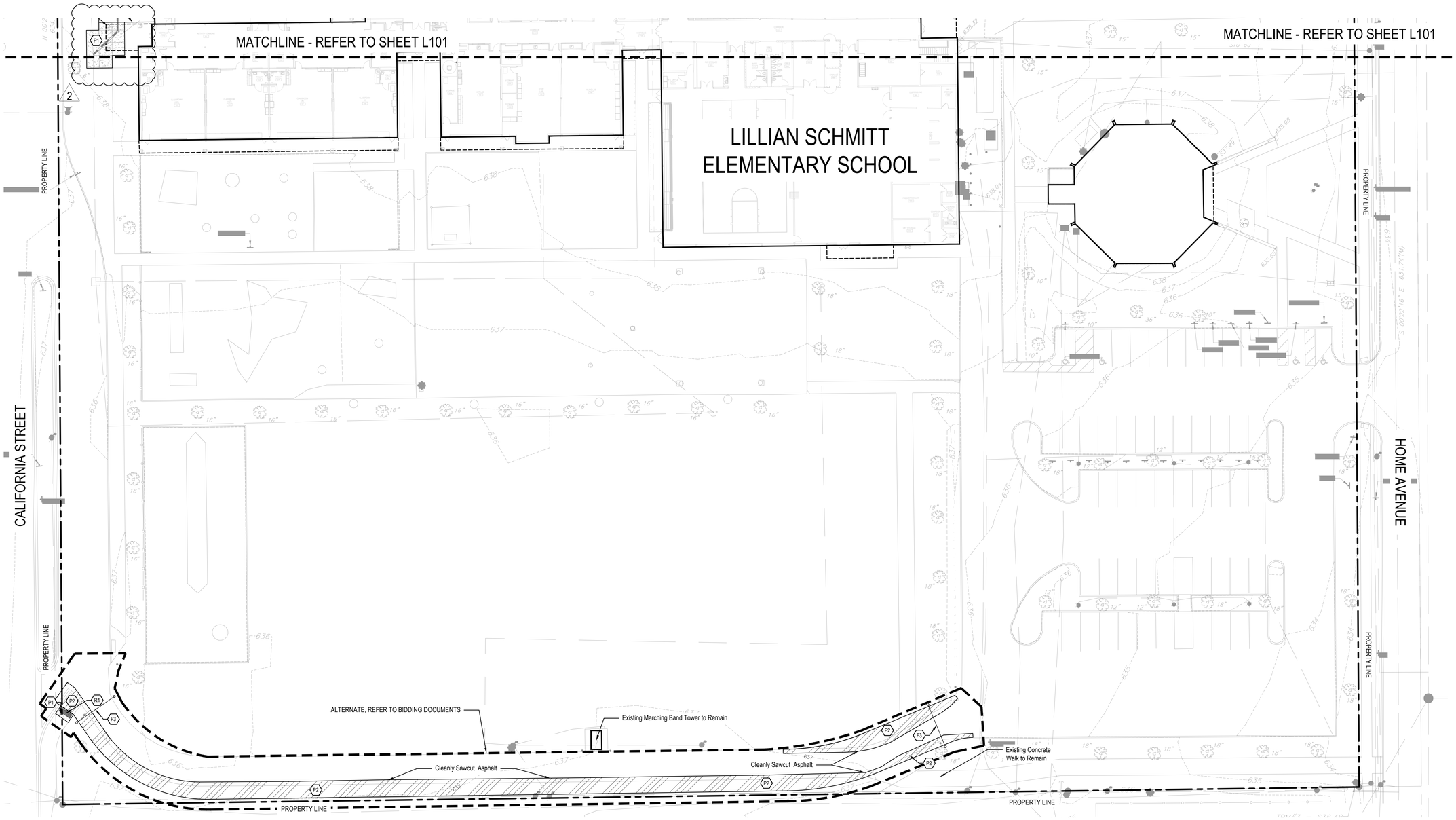
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	MA	LM

DRAWING TITLE:
MATERIALS PLAN

CERTIFIED BY:
ALYSSA P. PRAZNIK
REGISTERED
No. 2020-0132
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

DRAWING NUMBER
L101

PROJECT NUMBER
2021049



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KEY	DESCRIPTION / REFERENCE
M1	VEHICULAR STRIPING, WHITE, REFER TO DETAIL 12/L600 AND SPECIFICATIONS
M2	BUS STRIPING, WHITE, REFER SPECIFICATIONS
M3	EVENT VEHICULAR STRIPING, DASHED WHITE, REFER TO DETAIL 12/L600 AND SPECIFICATIONS
M4	ADA PARKING SYMBOL, BLUE, REFER TO DETAIL 9/L600 AND SPECIFICATIONS
M5	ADA PARKING STRIPING, BLUE, REFER TO DETAIL 12/L600 AND SPECIFICATIONS
M6	CROSSWALK STRIPING, WHITE, REFER TO DETAIL 13/L600 AND SPECIFICATIONS

North

0 10' 20' 40'

Scale 1" = 20'-0"

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5920 Lawton Loop E. Dr. | Indianapolis, IN 46216
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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction and materials to be employed.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction required.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	Addendum 01	03/08/2024
2	Addendum 02	03/15/2024

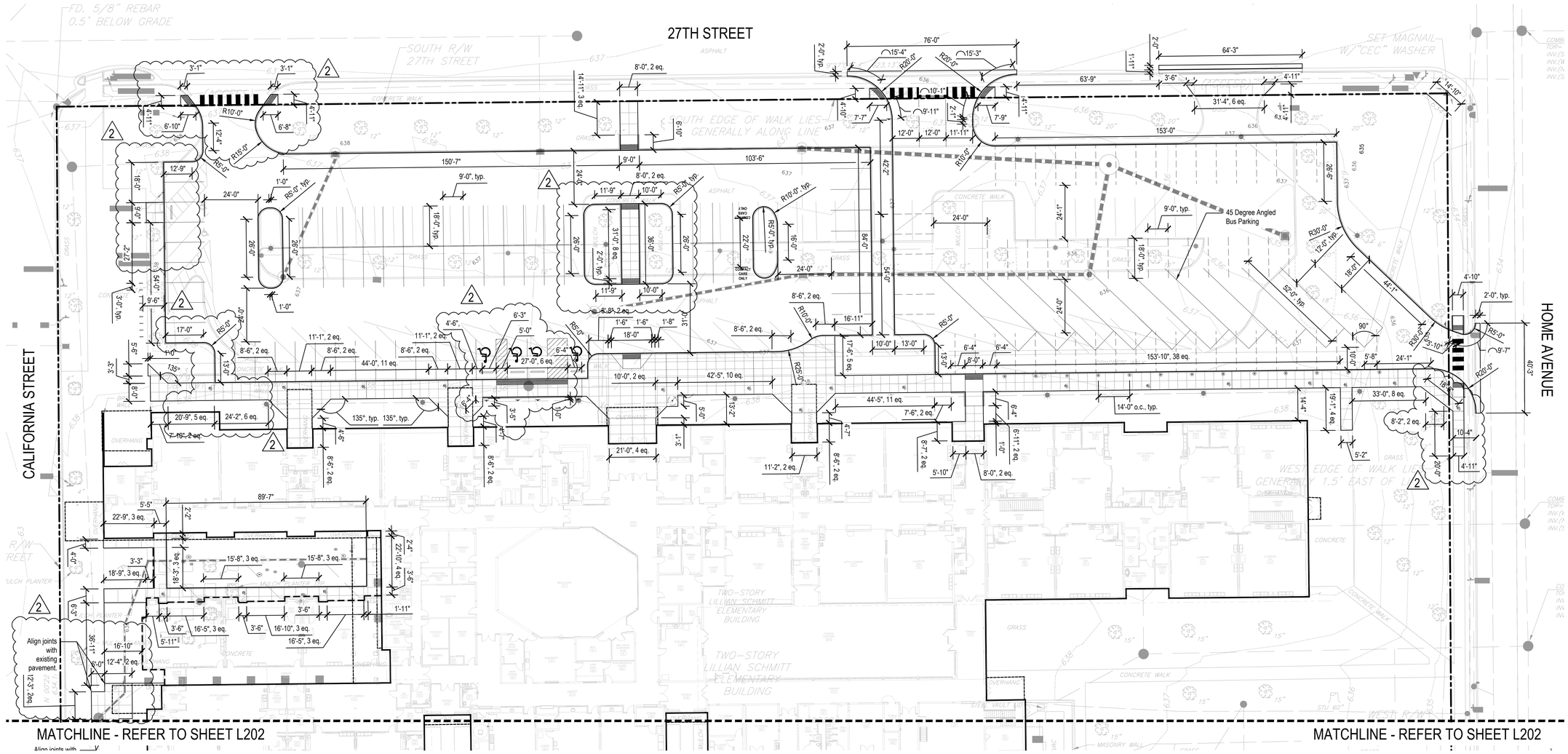
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	MA	LM

DRAWING TITLE:
MATERIALS PLAN

CERTIFIED BY:
ALYSSA P. PRAZENKA
REGISTERED
No. 2020-0132
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

DRAWING NUMBER
L102

PROJECT NUMBER
2021049



LAYOUT NOTES

1. Dimensions are shown to Face of Curb unless otherwise noted.
2. Contractor shall coordinate final joint locations in the field with the Landscape Architect. Align to existing conditions when practical, including at building and wall corners, connections to existing work, and to centerlines of doors.
3. Space control joints evenly between all bands and expansion joints as shown, unless otherwise dimensioned. Space interim joints equally whenever possible.
4. Digital AutoCAD files will be provided to the successful bidder as a courtesy to assist with field layout. The Contractor maintains all responsibility for the use, accuracy, and confirmation of such data.
5. All pavement striping shown shall adhere to Specifications. The Contractor shall include in their bid any miscellaneous copy, striping, or curb painting that may be requested by the Fire Marshal.
6. All disturbed areas not proposed to receive pavements shall be dressed with topsoil and seeded per Specifications.
7. Contractor shall provide and install One (1) Accessible Parking Sign per accessible parking space indicated in plans. Coordinate final location in the field with Landscape Architect.

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context DESIGN
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317-485-5000 | www.context-design.com

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L.C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required to the complete performance and completion of the requirements of the Contract.
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REVISIONS:

1	Addendum 01	03/08/2024
2	Addendum 02	03/15/2024

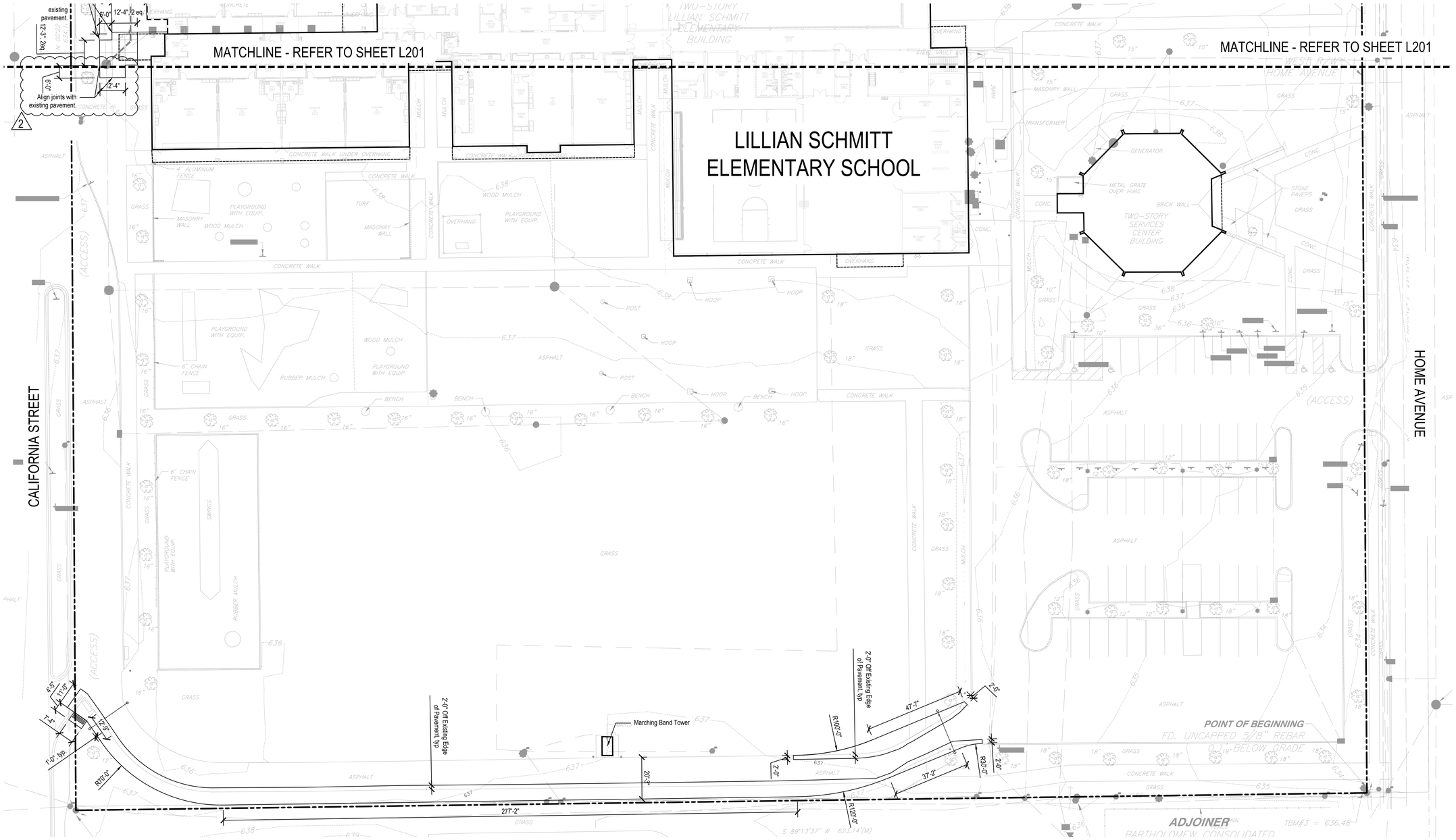
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	MA	LM

DRAWING TITLE:
LAYOUT PLAN

CERTIFIED BY:
ALYSSA P. PRZYBAU
REGISTERED
No. 2020-0132
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

DRAWING NUMBER
L201

PROJECT NUMBER
2021049



LAYOUT NOTES

1. Dimensions are shown to Face of Curb unless otherwise noted.
2. Contractor shall coordinate final joint locations in the field with the Landscape Architect. Align to existing conditions when practical, including at building and wall corners, connections to existing work, and to centerlines of doors.
3. Space control joints evenly between all bands and expansion joints as shown, unless otherwise dimensioned. Space interim joints equally whenever possible.
4. Digital AutoCAD files will be provided to the successful bidder as a courtesy to assist with field layout. The Contractor maintains all responsibility for the use, accuracy, and confirmation of such data.
5. All pavement striping shown shall adhere to Specifications. The Contractor shall include in their bid any miscellaneous copy, striping, or curb painting that may be requested by the Fire Marshal.
6. All disturbed areas not proposed to receive pavements shall be dressed with topsoil and seeded per Specifications.
7. Contractor shall provide and install One (1) Accessible Parking Sign per accessible parking space indicated in plans. Coordinate final location in the field with Landscape Architect.

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction required for the building(s).
The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction required by the Owner.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	Addendum 01	03/08/2024
2	Addendum 02	03/15/2024

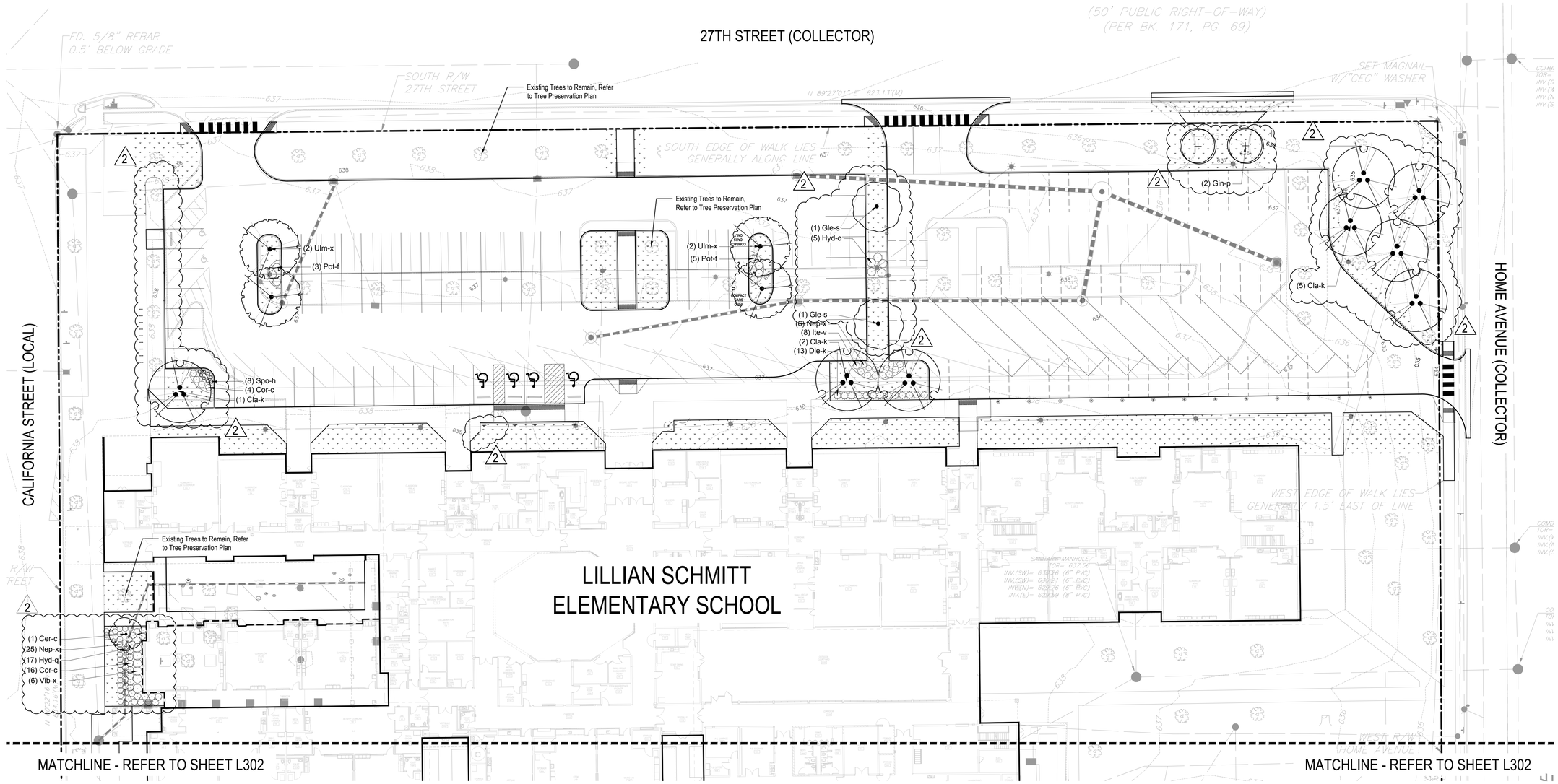
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	MA	LM

DRAWING TITLE:
LAYOUT PLAN

CERTIFIED BY:
ALYSA P. PRAZNIK
REGISTERED
No. 2020-0132
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

DRAWING NUMBER
L202

PROJECT NUMBER
2021049



GENERAL LANDSCAPE AND PLANTING NOTES

1. Refer to Project Manual for Planting Specifications and Topsoil requirements. Refer to Plant Schedule and Planting Details for additional information.
2. All materials are subject to the approval of the Landscape Architect and Owner at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. On-site adjustments may be required.
3. Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
4. Remove from the site any plant material that turns brown or defoliates within five (5) days after planting. Replace immediately with approved, specified material.
5. Plant counts indicated on drawings are for Landscape Architect's use only. Contractor shall make own plant quantity takeoffs using drawings, specifications, and plant schedule requirements (i.e., spacing), unless otherwise directed by Landscape Architect. Contractor to verify bed measurements and install appropriate quantities as governed by plant spacing per schedule. Plant material quantities shown on plan are minimum quantities. Additional material may be needed to meet spacing requirements and field conditions.
6. Seed all areas disturbed by construction activities that are not otherwise noted to receive pavement, planting bed, or sod treatment.
7. The Contractor shall install and/or amend topsoil in all proposed bed areas to meet Specifications. Contractor shall coordinate quantity and placement of topsoil. Landscaper shall verify depth of topsoil prior to plant installation. (Refer to specifications for topsoil source and placement requirements)
8. All tree locations shall be marked with 2x2" stakes prior to planting for review and approval by the Landscape Architect. Any plant material installed in an incorrect location, by the judgment of the Landscape Architect, shall be reinstalled at the Contractor's expense.
9. All plant beds shall receive 3" minimum of shredded hardwood bark mulch (unless otherwise noted).
10. Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to Owner's satisfaction at no additional cost.
11. The Contractor shall maintain all plant material and lawns until the project is fully accepted by the Landscape Architect, unless otherwise noted.
12. All workmanship and materials shall be guaranteed by the Contractor for a period of one calendar year after Final Acceptance.
13. Install all plant material in accordance with all local codes and ordinances. Coordinate with the Owner to obtain any required permits necessary to complete work.
14. Contractor shall test all tree pits for drainage. Any tree pit that holds water for more than 24 hours shall be installed using tree pit drainage.
15. Tree Protection Fencing is the responsibility of the Contractor. Minimum protected area shall include the full drip line of the canopy. NO construction activities, material storage, etc. may occur within that area. The Contractor shall ensure that no soil compaction or tree damage occurs in any Protected areas, at any time during the construction process.
16. Trees shall be matched in groups unless otherwise noted.

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction required for the building shell.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction required.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	Addendum 01	03/08/2024
2	Addendum 02	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	MA	LM

DRAWING TITLE:
PLANTING PLAN

CERTIFIED BY:
ALYSSA P. PRAZZINI
REGISTERED
No. 2020-0132
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

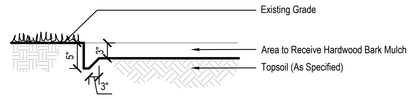
DRAWING NUMBER
L301

PROJECT NUMBER
2021049

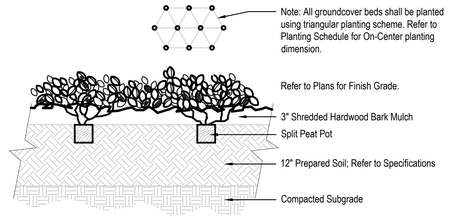
PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMARKS
TREES						
Cla-k	8	Cladrastis kentukea	American Yellowwood	B & B	2.5"Cal	full, strong central leader, matched
Gin-p	2	Ginkgo biloba `Princeton Sentry`	Princeton Sentry Ginkgo	B & B	2.5"Cal	full, strong central leader, matched
Gle-s	2	Gleditsia triacanthos `Imperial`	Imperial Honey Locust	B & B	2.5"Cal	strong central leader, symmetrical, full, matched
Ulm-x	4	Ulmus x 'Frontier'	Frontier Elm	B & B	2.5"Cal	
UNDERSTORY TREES						
Cer-c	1	Cercis canadensis	Eastern Redbud	B & B	min. 6` ht.	clump form 3-5 stems
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	REMARKS
SHRUBS						
Cor-c	20	Cornus sericea `Arctic Fire`	Arctic Fire Red Twig Dogwood	Container	18" ht. min.	space @ 3`-0" o.c.
Die-k	13	Diervilla x Kodiac Orange	Kodiac Orange Northern Bush Honeysuckle	Container	18" ht. min.	space @ 3`-6" o.c.
Hyd-o	5	Hydrangea quercifolia	Oakleaf Hydrangea	Container	18" ht. min.	
Hyd-q	17	Hydrangea quercifolia `Pee Wee`	Pee Wee Oakleaf Hydrangea	Container	18" ht. min.	space @ 3`-0" o.c.
Ite-v	8	Itea virginica `Henry`s Garnet`	Henry`s Garnet Sweetspire	Container	18" ht. min.	space @ 3`-0" o.c.
Pot-f	8	Potentilla fruiticosa `Goldfinger`	Goldfinger Potentilla	Container	18" ht. min.	sapce @ 4`-0" o.c.
Vib-x	6	Viburnum x juddii	Judd Viburnum	Container	18" ht. min.	space @ 4`-0" o.c., allow to mass
GRASSES						
Spo-h	8	Sporobolus heterolepis `Tara`	Dwarf Prairie Dropseed	pot	#1	space @ 2`-0" o.c.
PERENNIALS						
Nep-x	31	Nepeta x faassenii `Novanepjun`	Junior Walker Catmint	pot	#1	space @ 2`-0" o.c.

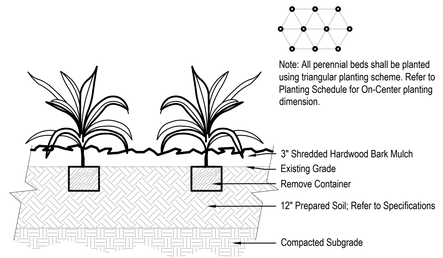
2



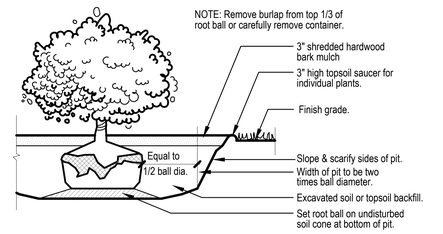
7 SPADE EDGE
Not to Scale



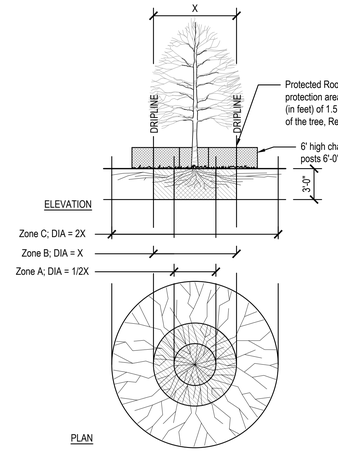
6 GROUNDCOVER PLANTING
Not to Scale



5 PERENNIAL PLANTING
Not to Scale



4 SHRUB PLANTING
Not to Scale



3 TREE & ROOT PROTECTION
Not To Scale

TRENCHING/EXCAVATION

Should Work be Required within the Protected Root Zone, the Following Shall be Minimally Coordinated in the Field with the Landscape Architect prior to Construction.

ZONE A (CRITICAL ROOT ZONE)
1. NO DISTURBANCE ALLOWED without site-specific inspection and approval of methods to minimize root damage.
2. Severance of roots larger than 2" diameter requires Landscape Architect's approval.
3. Tunneling or boring required to install utilities 3'-0" below grade or deeper.

ZONE B (DRIPLINE)
1. Operation of heavy equipment and/or stockpiling of materials subject to Landscape Architect's approval. Surface Protection* measures required.
2. Trenching allowed as follows:
   - Excavation by hand or with hand-driver trencher may be required.
   - Limit trench width. Do not disturb Zone A, maintain 2/3 or more of Zone B in undisturbed condition.
3. Tunneling or boring may be required for trenches deeper than 3'-0".

ZONE C (FEEDER ROOT ZONE)
1. Operation of heavy equipment and/or stockpiling of materials subject to Landscape Architect's approval. Surface Protection* measures required.
2. Trenching with heavy equipment allowed as follows:
   - Minimize trench width.
   - Maintain 2/3 or more of Zone C in undisturbed condition.

FENCING/ROOT PROTECTION

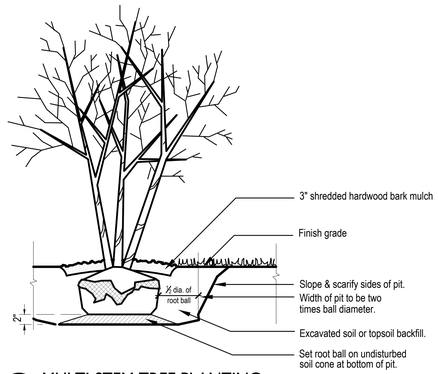
4' high vinyl protection fence at the greater of Zone B (Dripline) or to a radius (in feet) of 1.5x the caliper (in inches) of the tree, minimum, and at Zone C (Protected Root Zone) if possible.

Upon Landscape Architect's approval, a plywood box (8' minimum height) may be used where fencing cannot be achieved.

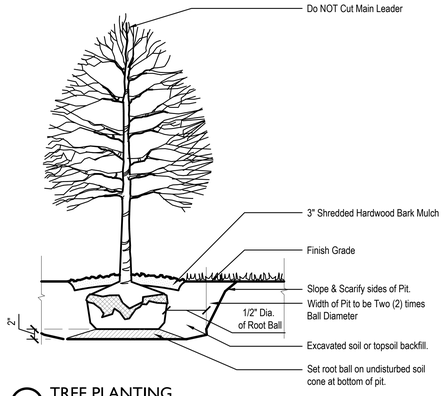
Landscape Architect's approval required for use/access within Zone B. Permission for use/access requires Surface Protection Measures for all unfenced, unpaved surfaces within Zone B.

*SURFACE PROTECTION MEASURES
1. Mulch Layer, 6"-8" Depth
2. ¾" Plywood
3. Steel Plates

NOTE:
1. Refer to Tree Preservation specification 01-56-39.
2. Contractor may submit alternate methods of tree protection to Landscape Architect for Consideration Prior to Construction.



2 MULTI-STEM TREE PLANTING
Not to Scale



1 TREE PLANTING
Not to Scale

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5925 Lawton Loop E. Dr. | Indianapolis, IN 46216
317-485-6900 | www.context-design.com

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction anticipated for the project.
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REVISIONS:

1	Addendum 01	03/08/2024
2	Addendum 02	03/15/2024

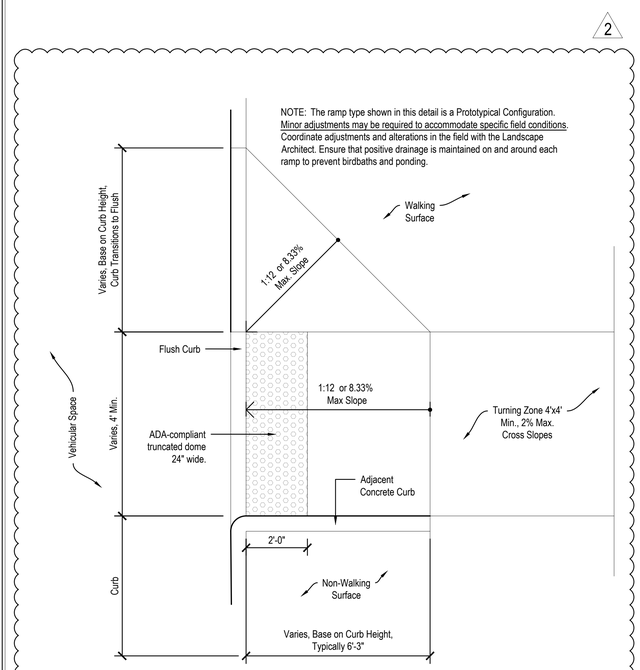
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	MA	LM

DRAWING TITLE:
PLANTING DETAILS & SCHEDULE

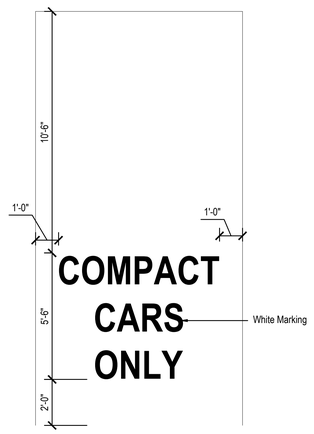
CERTIFIED BY:
ALYSSA P. PRAZNIK
REGISTERED
No. 2020-0132
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

DRAWING NUMBER
L400

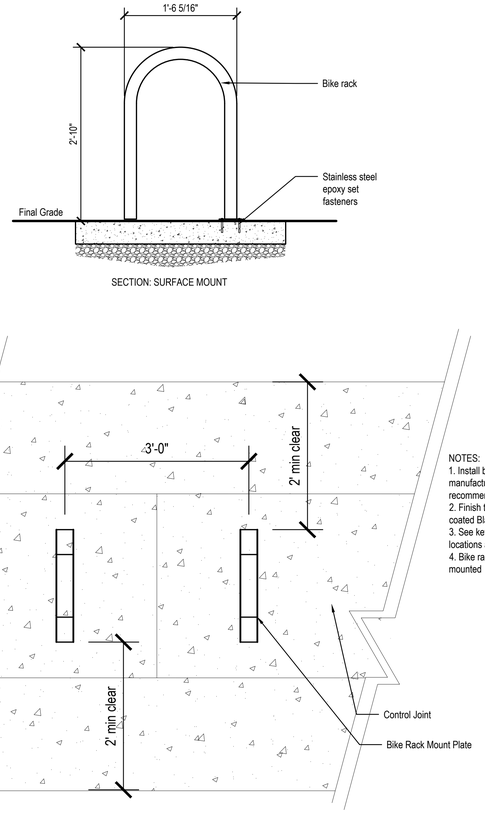
PROJECT NUMBER
2021049



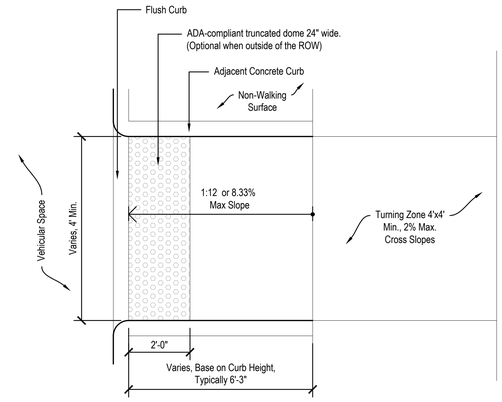
9 CURB RAMP, ONE WING
Scale: 1/2" = 1'-0"



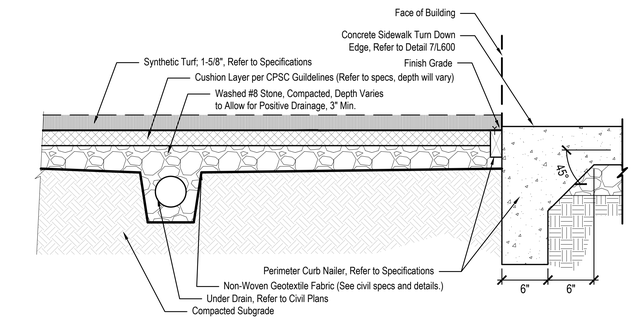
8 COMPACT CARS ONLY MARKING
Scale: 3/8" = 1'-0"



5 BIKE RACK - SURFACE MOUNT
Scale: 1" = 1'-0"

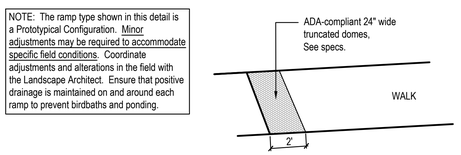


2 CURB RAMP, STRAIGHT
Scale: 1/2" = 1'-0"

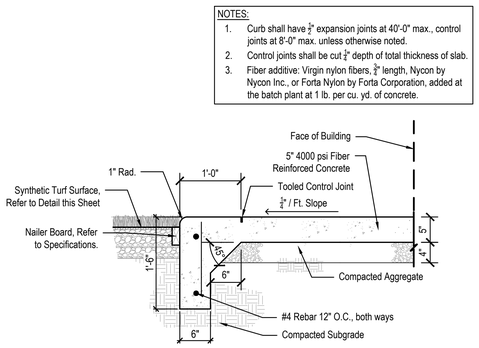


Note: Refer to C Series Sheets Drainage Piping

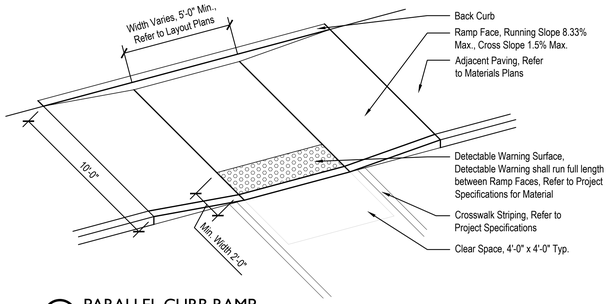
7 SYNTHETIC PLAYGROUND TURF
Scale: 1-1/2" = 1'-0"



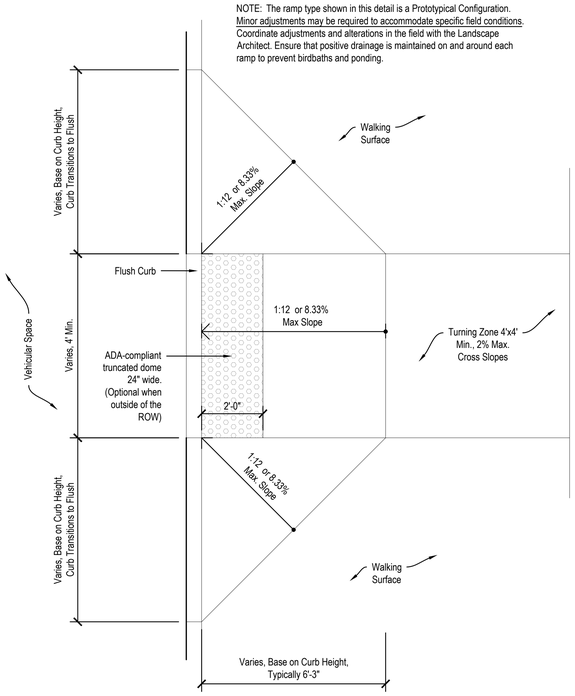
4 TRUNCATED DOMES WITH NO RAMP CONDITION
Scale: 1/4" = 1'-0"



6 PERIMETER CURB NAILER AT INTEGRAL CURB AND WALK
1"=1'-0"



3 PARALLEL CURB RAMP
Scale: 1/4" = 1'-0"



1 CURB RAMP, DOUBLE WING
Scale: 1/2" = 1'-0"

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
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The drawings do not necessarily indicate or describe all work required for full performance and completion of the contractors' scope of work.
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REVISIONS:

1	Addendum 01	03/08/2024
2	Addendum 02	03/15/2024

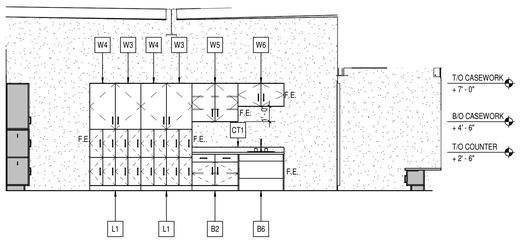
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	MA	LM

DRAWING TITLE:
SITE DETAILS

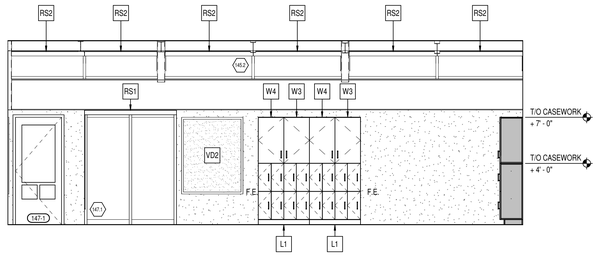
CERTIFIED BY:
ALYSSA P. PRAZEAU
REGISTERED
No. 2020-0132
STATE OF INDIANA
LANDSCAPE ARCHITECT
EXPIRES 12-31-2025

DRAWING NUMBER
L601

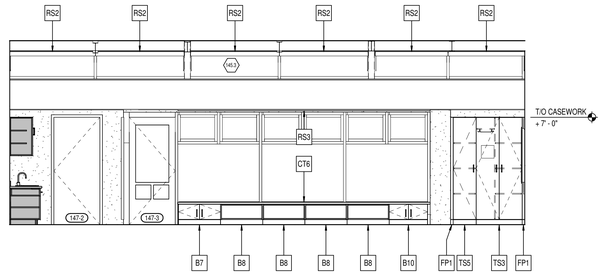
PROJECT NUMBER
2021049



16 A606 CLASSROOM 147 - WEST
SCALE: 1/4" = 1'-0"



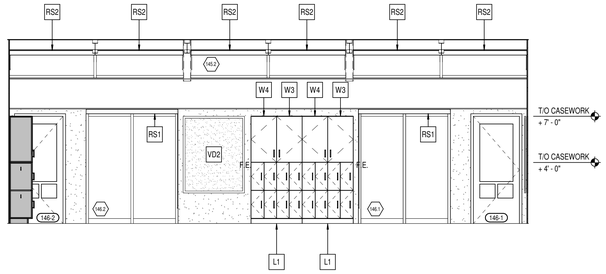
15 A606 CLASSROOM 147 - SOUTH
SCALE: 1/4" = 1'-0"



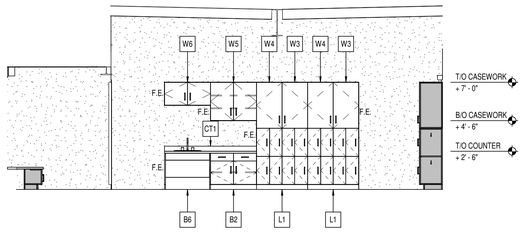
14 A606 CLASSROOM 147 - NORTH
SCALE: 1/4" = 1'-0"

GENERAL CASEWORK NOTES

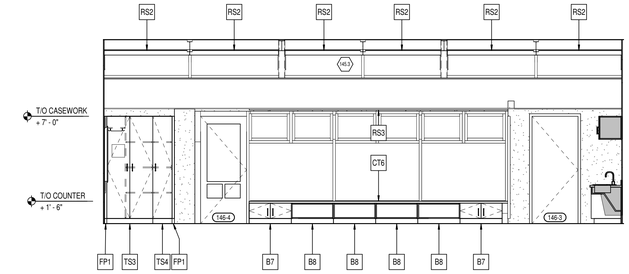
A. PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE COUNTERTOPS.
B. PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED BY WALLS AS REQUIRED TO CLOSE OFF SPACE AND PROVIDE A NEAT, FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF CASEWORK TO BALANCE APPEARANCE.
C. PROVIDE FINISHED ENDS AT ALL CABINET SIDES PARTIALLY OR FULLY EXPOSED TO VIEW.
D. SEE INTERIOR CASEWORK ELEVATIONS FOR DOOR SWING.
E. PROVIDE COUNTER GROMMETS FOR ALL OPEN KNEE-SPACE COUNTERTOP INSTALLATIONS.
F. REFER TO A900 SERIES FOR ALL MATERIAL FINISHES, SPECIFICATIONS, AND LOCATIONS.
G. ALL CASEWORK TO HAVE LOCKS PROVIDED UNLESS SPECIFICALLY NOTED OTHERWISE.
H. SEE REFLECTED CEILING PLAN FOR MOST ACCURATE CEILING HEIGHTS.
I. CONFIRM FIELD DIMENSIONS PRIOR TO FABRICATION.
J. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR CASEWORK. COORDINATE LOCATION OF BLOCKING WITHIN PARTITIONS FOR ITEMS TO BE SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.
K. WHERE DROP SINKS OCCUR, ENSURE THAT NO PORTION OF THE ASSEMBLY EXCEEDS 34" A.F.F. AS REQUIRED BY ADA.
L. CAULK CASEWORK TO ADJOINING FINISHED SURFACES.
M. REFER TO A900 SERIES FOR EQUIPMENT SCHEDULE AND LOCATIONS.



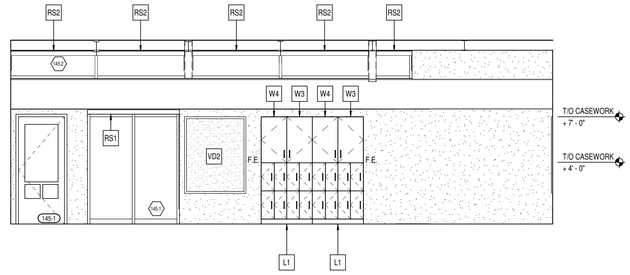
13 A606 FLEX CLASSROOM 146 - SOUTH
SCALE: 1/4" = 1'-0"



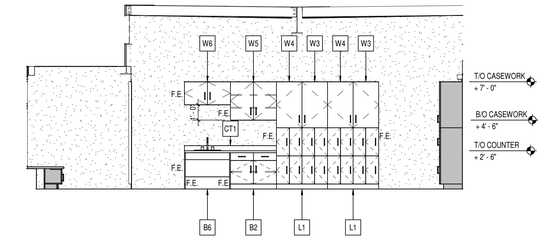
12 A606 FLEX CLASSROOM 146 - EAST
SCALE: 1/4" = 1'-0"



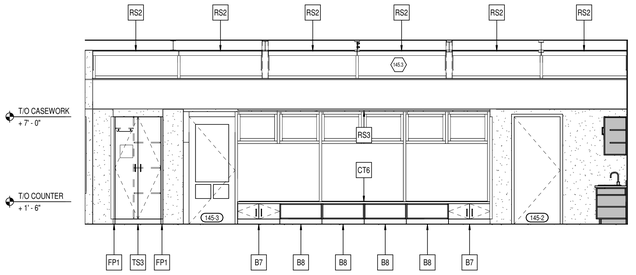
11 A606 FLEX CLASSROOM 146 - NORTH
SCALE: 1/4" = 1'-0"



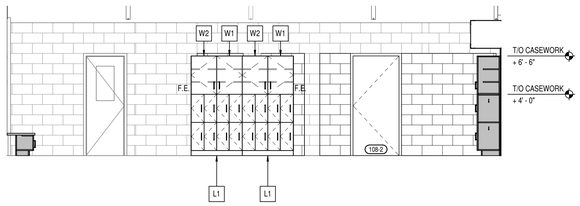
10 A606 CLASSROOM 145 - SOUTH
SCALE: 1/4" = 1'-0"



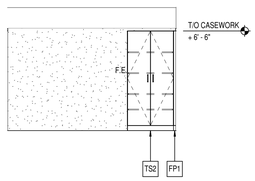
9 A606 CLASSROOM 145 - EAST
SCALE: 1/4" = 1'-0"



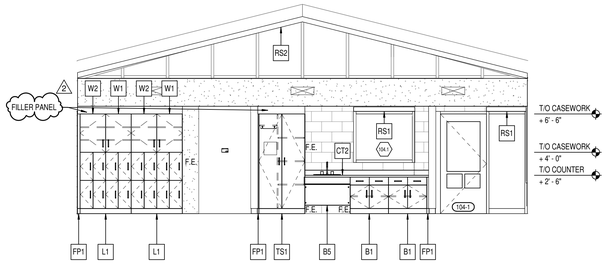
8 A606 CLASSROOM 145 - NORTH
SCALE: 1/4" = 1'-0"



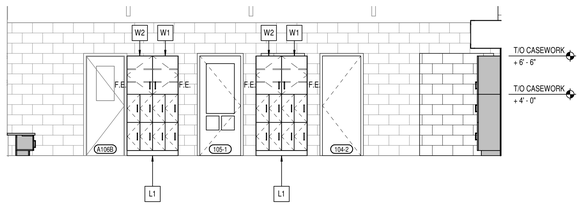
7 A606 CLASSROOM 108 - EAST
SCALE: 1/4" = 1'-0"



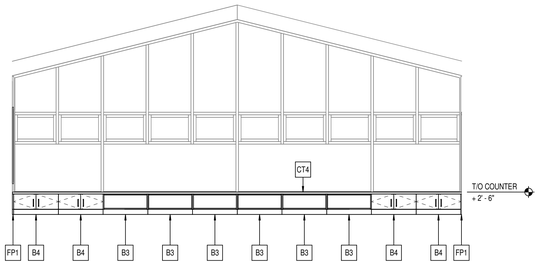
6 A606 SMALL GROUP ROOM 105
SCALE: 1/4" = 1'-0"



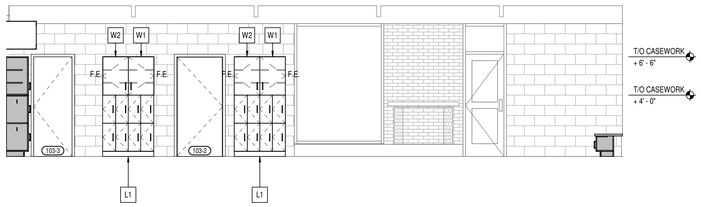
5 A606 CLASSROOM 104 - SOUTH
SCALE: 1/4" = 1'-0"



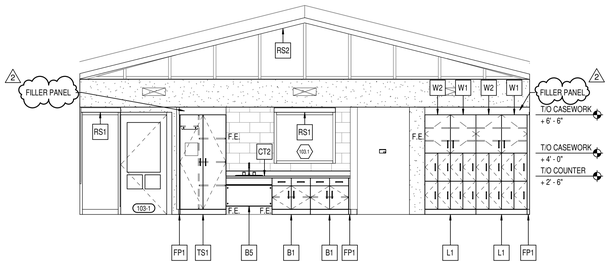
4 A606 CLASSROOM 104 - EAST
SCALE: 1/4" = 1'-0"



3 A606 CLASSROOM 104 - NORTH
SCALE: 1/4" = 1'-0"



2 A606 COMMUNITY/ FLEX CLASSROOM 103 - WEST
SCALE: 1/4" = 1'-0"



1 A606 COMMUNITY/ FLEX CLASSROM 103 - SOUTH
SCALE: 1/4" = 1'-0"

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317.848.7800 | csoinc.net

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L.C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, and the general requirements as related to the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for the satisfactory performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #2 03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/24	LNM	BJK

DRAWING TITLE:
CASEWORK ELEVATIONS

CERTIFIED BY:
JAMES ROBERT FUNK
REGISTERED
No. AR00900003
STATE OF
IND.IANA
ARCHITECT

DRAWING NUMBER
A606

PROJECT NUMBER
2021049

GENERAL CASEWORK NOTES

A. PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE COUNTERTOPS.
B. PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED BY WALLS AS REQUIRED TO CLOSE OFF SPACE AND PROVIDE A NEAT, FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF CASEWORK TO BALANCE APPEARANCE.
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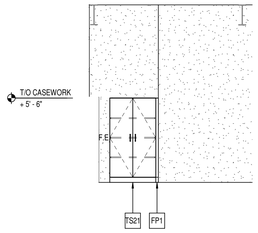
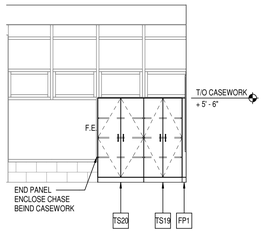
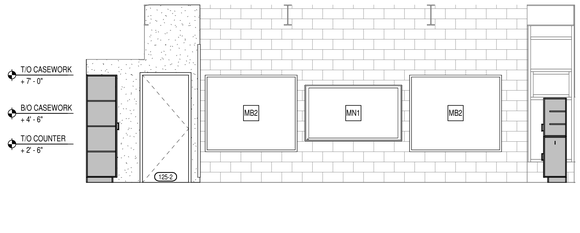


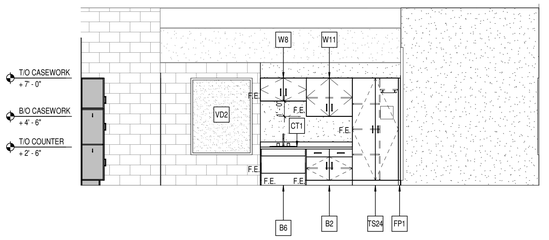
19 A608 SMALL GROUP ROOM 127
SCALE: 1/4" = 1'-0"



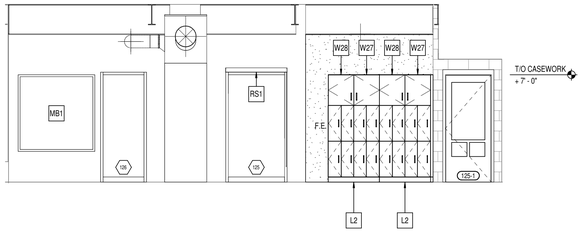
18 A608 SMALL GROUP ROOM 126
SCALE: 1/4" = 1'-0"



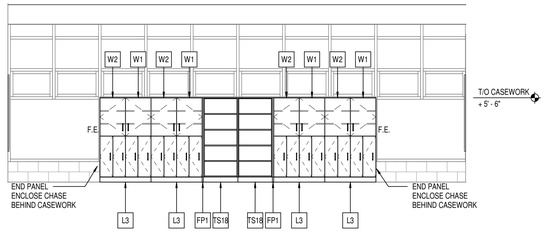
17 A608 CLASSROOM 125 - WEST
SCALE: 1/4" = 1'-0"



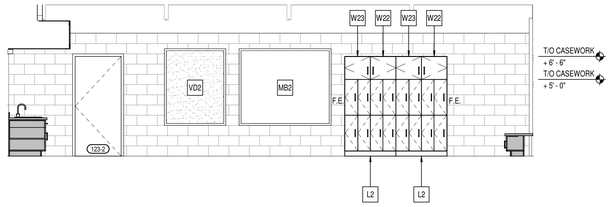
16 A608 CLASSROOM 125 - SOUTH
SCALE: 1/4" = 1'-0"



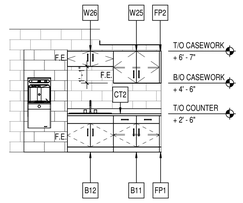
15 A608 CLASSROOM 125 - EAST
SCALE: 1/4" = 1'-0"



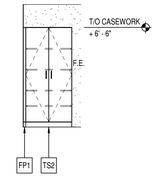
14 A608 TYP. UNIT C CLASSROOM
SCALE: 1/4" = 1'-0"



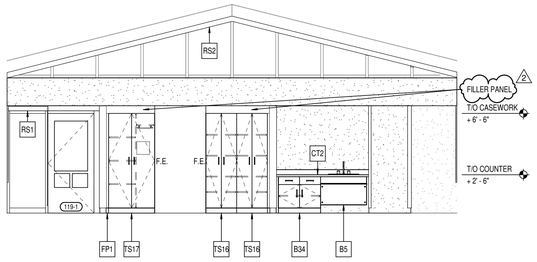
13 A608 CLASSROOM 123 - EAST
SCALE: 1/4" = 1'-0"



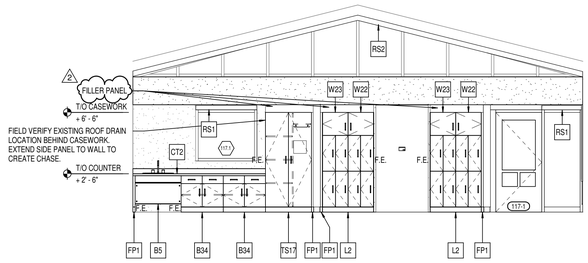
12 A608 ACTIVITY COMMONS 122
SCALE: 1/4" = 1'-0"



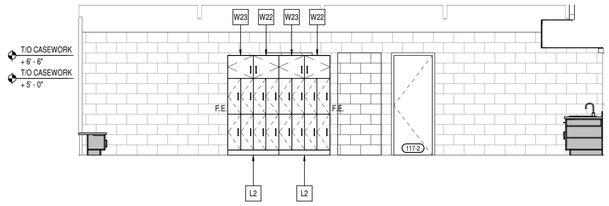
11 A608 TOILET 119A
SCALE: 1/4" = 1'-0"



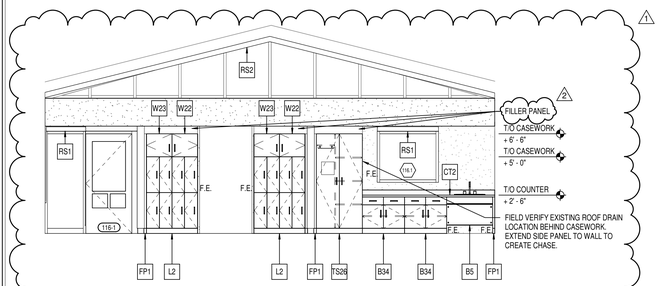
10 A608 LIFE SKILLS 119 - NORTH
SCALE: 1/4" = 1'-0"



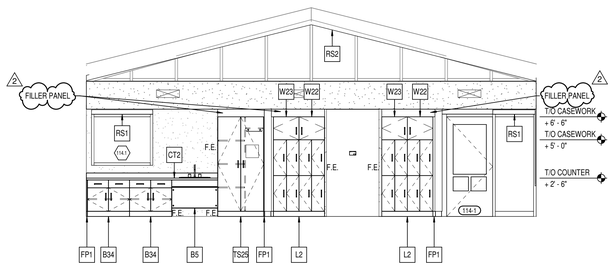
9 A608 CLASSROOM 117 - SOUTH
SCALE: 1/4" = 1'-0"



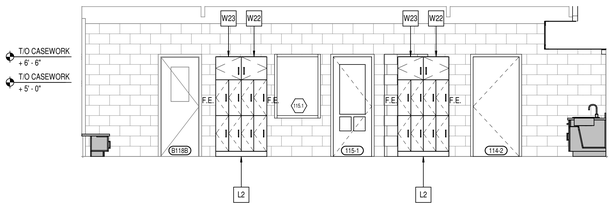
8 A608 CLASSROOM 117 - EAST
SCALE: 1/4" = 1'-0"



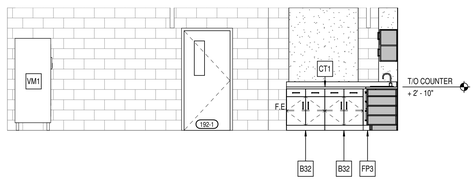
7 A608 CLASSROOM 116 - SOUTH
SCALE: 1/4" = 1'-0"



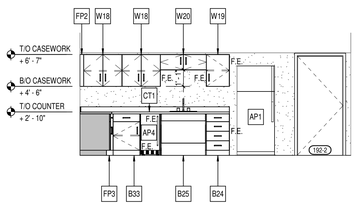
6 A608 FLEX CLASSROOM 114 - SOUTH
SCALE: 1/4" = 1'-0"



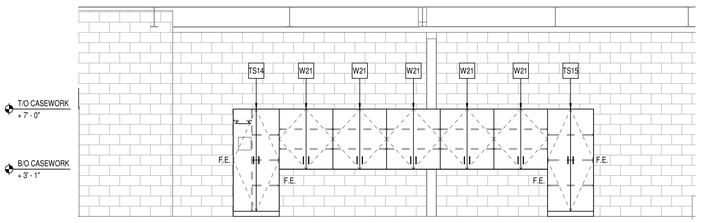
5 A608 FLEX CLASSROOM 144 - EAST
SCALE: 1/4" = 1'-0"



4 A608 STAFF DINING 192 - WEST
SCALE: 1/4" = 1'-0"



3 A608 STAFF DINING 192 - NORTH
SCALE: 1/4" = 1'-0"



2 A608 MUSIC LAB 186 - EAST
SCALE: 1/4" = 1'-0"

1 A608 MUSIC LAB 186 - NORTH
SCALE: 1/4" = 1'-0"

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317.848.7800 | csoinc.net

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
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REVISIONS:

1	ADDENDUM #1	03/08/2024
2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/24	LNM	BJK

DRAWING TITLE:
CASEWORK ELEVATIONS

CERTIFIED BY:
JAMES ROBERT FLUM
REGISTERED
No. AR00900003
STATE OF
INDIANA
ARCHITECT

DRAWING NUMBER
A608

PROJECT NUMBER
2021049

GENERAL CASEWORK NOTES

A. PROVIDE COUNTERTOP SUPPORTS AT ALL OPEN KNEE SPACE COUNTERTOPS.
B. PROVIDE FILLER PANELS AT ALL LOCATIONS WHERE CASEWORK IS FLANKED BY WALLS AS REQUIRED TO CLOSE OFF SPACE AND PROVIDE A NEAT, FINISHED INSTALLATION. PROVIDE EQUAL FILLER PANELS AT EITHER SIDE OF CASEWORK TO BALANCE APPEARANCE.
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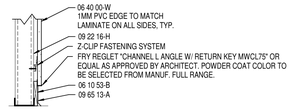
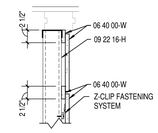
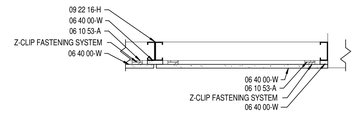


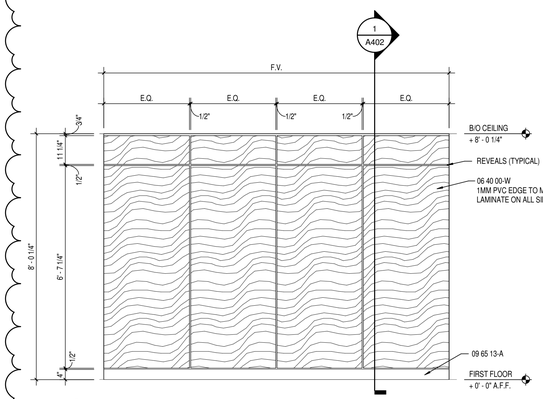
14 A611 TYP. CORRIDOR PANEL SECTION DETAIL
SCALE: 1" = 1'-0"



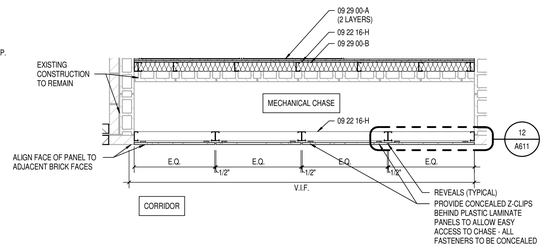
13 A611 TYP. CORRIDOR PANEL SECTION DETAIL
SCALE: 1" = 1'-0"



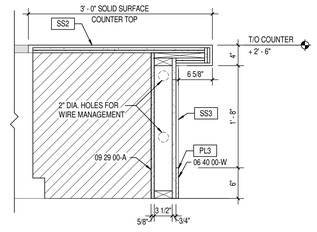
12 A611 TYP. CORRIDOR PANEL ENLARGED PLAN DETAIL
SCALE: 1" = 1'-0"



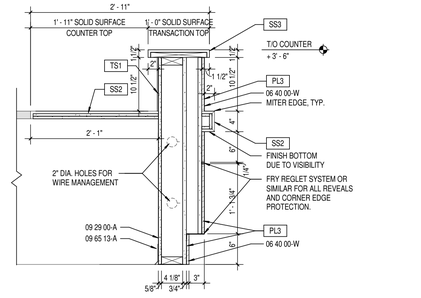
11 A611 TYP. CORRIDOR PANEL ELEVATION
SCALE: 1/2" = 1'-0"



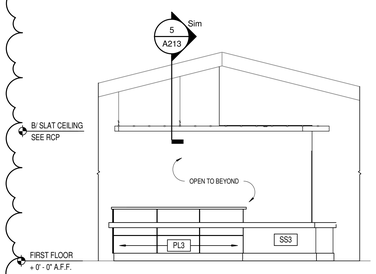
10 A611 TYP. CORRIDOR PANEL ENLARGED PLAN
SCALE: 1/2" = 1'-0"



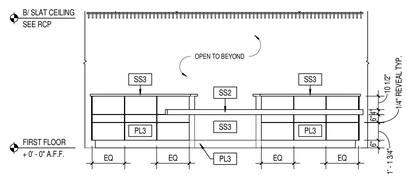
9 A611 ENLARGED MILLWORK SECTION
SCALE: 1" = 1'-0"



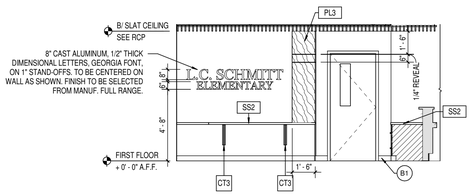
8 A611 ENLARGED MILLWORK SECTION
SCALE: 1" = 1'-0"



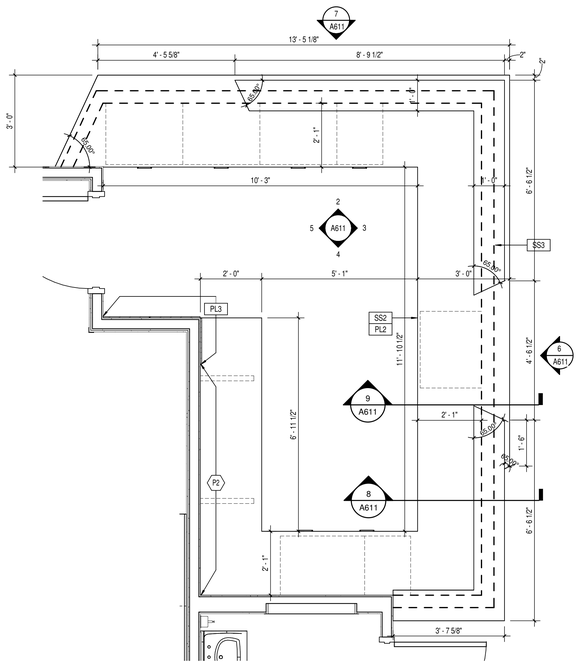
7 A611 RECEPTION DESK ELEVATION
SCALE: 1/4" = 1'-0"



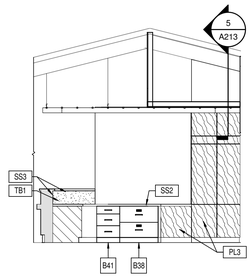
6 A611 RECEPTION DESK ELEVATION
SCALE: 1/4" = 1'-0"



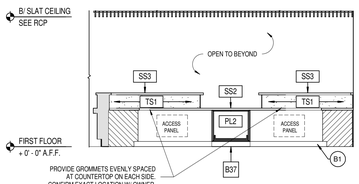
5 A611 RECEPTION DESK ELEVATION
SCALE: 1/4" = 1'-0"



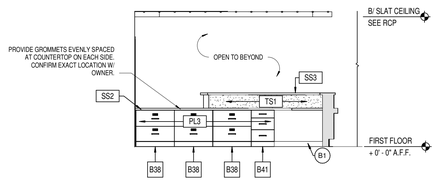
1 A611 RECEPTION DESK ENLARGED PLAN
SCALE: 1/2" = 1'-0"



4 A611 RECEPTION DESK ELEVATION
SCALE: 1/4" = 1'-0"



3 A611 RECEPTION DESK ELEVATION
SCALE: 1/4" = 1'-0"



2 A611 RECEPTION DESK ELEVATION
SCALE: 1/4" = 1'-0"

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 CALIFORNIA STREET, COLUMBUS, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project. They are not intended to show every detail of construction of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction of the project.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #1	03/08/2024
2	ADDENDUM #2	03/15/2024

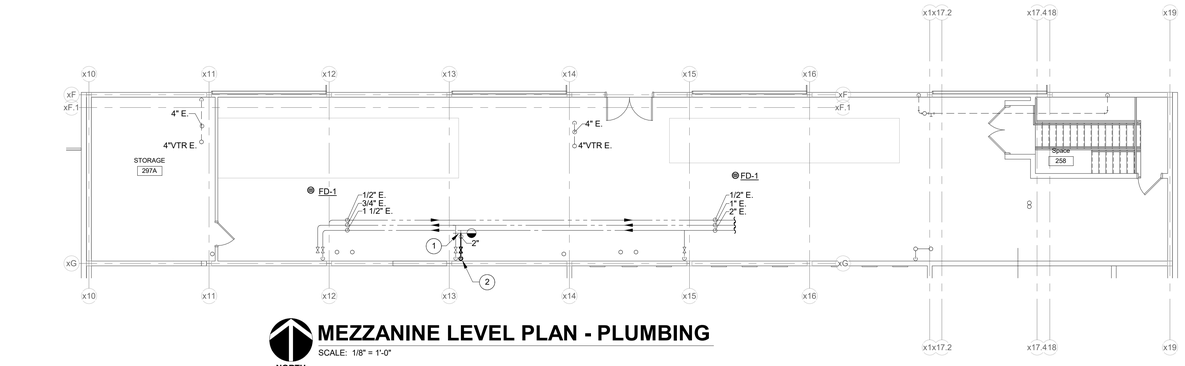
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/24	LNM	BJK

DRAWING TITLE:
ENLARGED MILLWORK, PLANS, SECTIONS AND DETAILS

CERTIFIED BY:
JAMES ROBERT FUNK
REGISTERED
No. AR00900003
STATE OF INDIANA
ARCHITECT

DRAWING NUMBER
A611

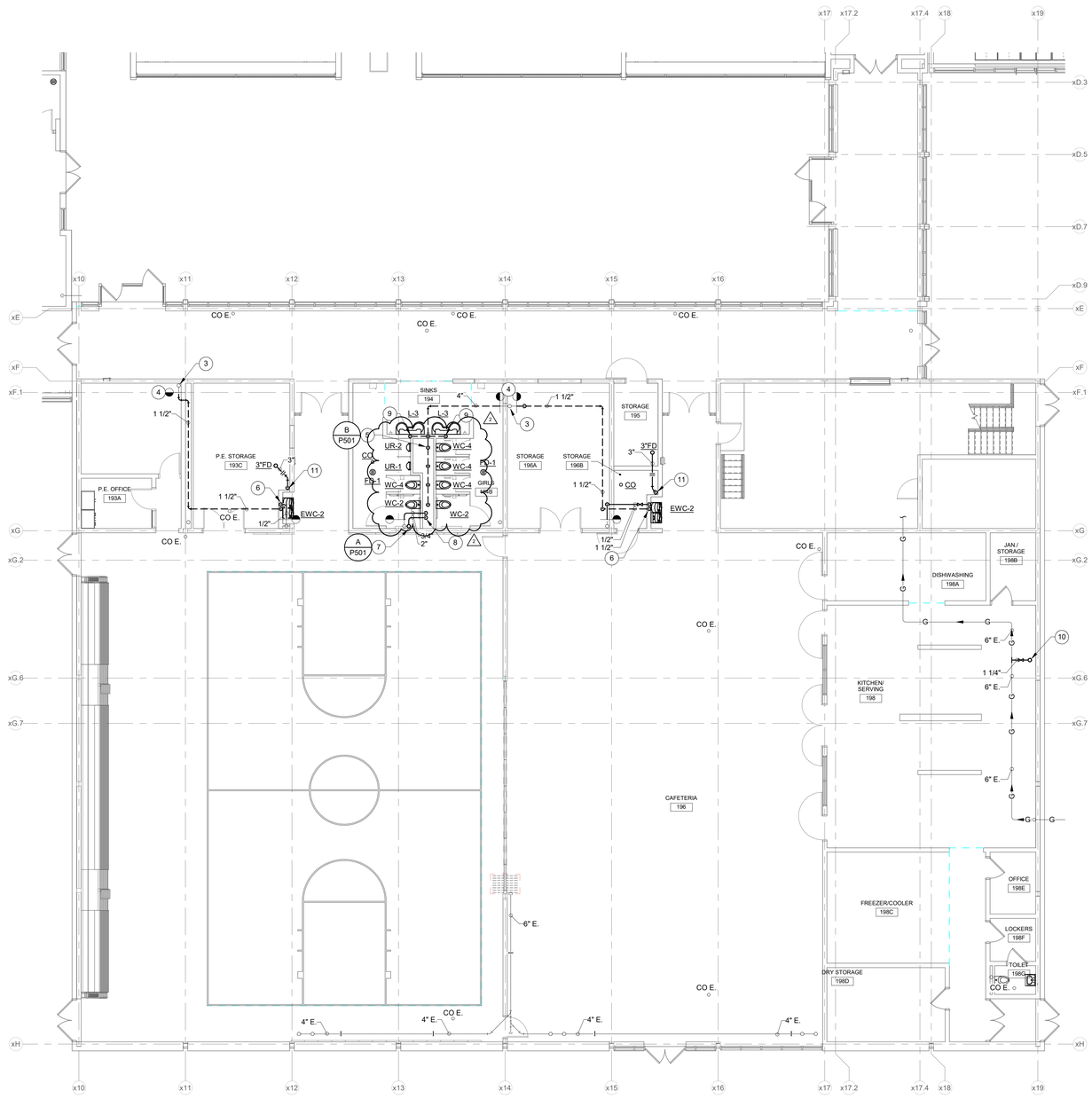
PROJECT NUMBER
2021049



MEZZANINE LEVEL PLAN - PLUMBING

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

NORTH



FIRST FLOOR - UNIT D - PLUMBING

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

NORTH

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

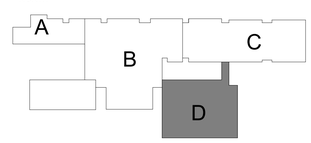
GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. CONNECT NEW 2" COLD WATER TO EXISTING 2" MAIN.
2. 2" COLD WATER DOWN.
3. EXISTING 4" VENT UP.
4. CONNECT TO EXISTING VENT PIPING AT THIS POINT.
5. 4" WASTE DOWN. 4" VENT UP.
6. 1/2" COLD WATER AND 2" WASTE DOWN. 1 1/2" VENT UP.
7. 2" COLD WATER AND EXISTING 3/4" HOT WATER FROM ABOVE.
8. 2" COLD WATER AND EXISTING 3/4" HOT WATER DOWN.
9. 2" WASTE DOWN. 1 1/2" VENT UP.
10. 1 1/4" GAS UP.
11. 3" WASTE DOWN.

KEY PLAN



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D&A #22054

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Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, and the general requirements of the type of structural, mechanical and electrical systems.

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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	AMB	DED

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT D - PLUMBING

CERTIFIED BY:

DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

P201D

PROJECT NUMBER

22054

RENOVATION LEGEND:

WORK TO BE INSTALLED

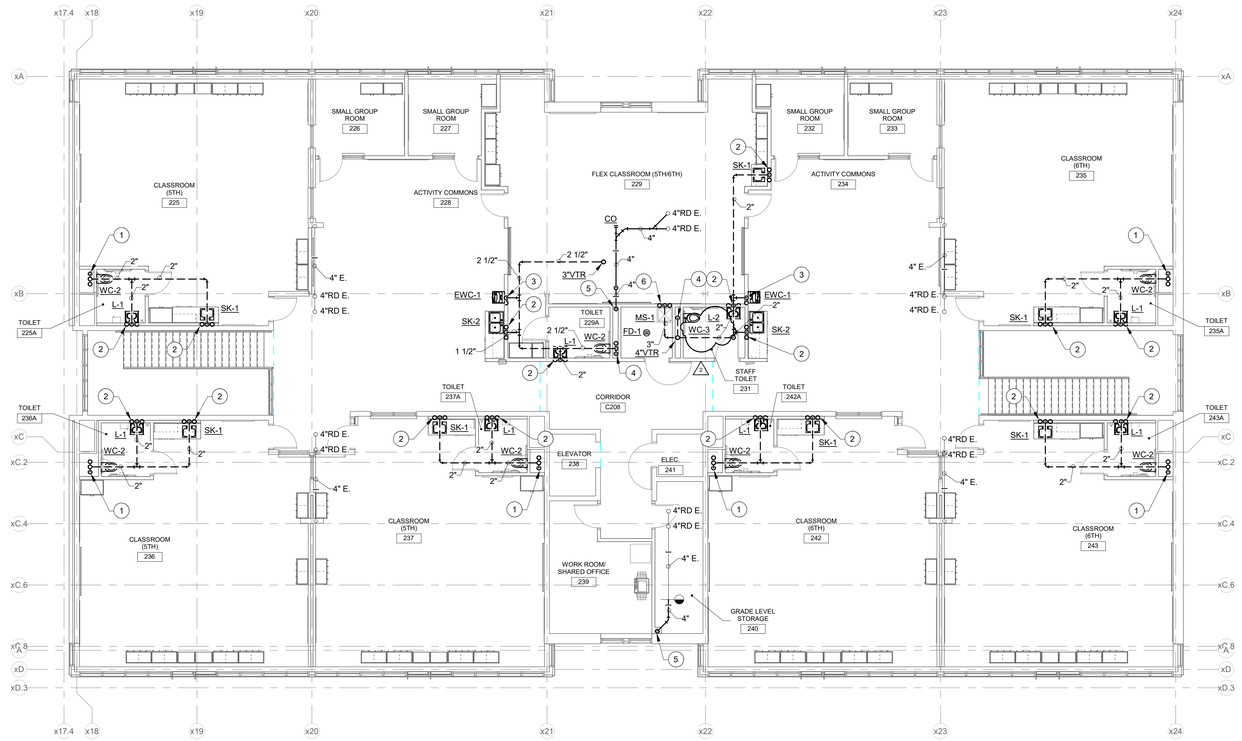
WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. 1" COLD WATER FROM BELOW. 4" WASTE STACK. 2 1/2" VENT STACK. 4" VENT THROUGH ROOF.
2. 1/2" COLD WATER AND 1/2" HOT WATER FROM BELOW. 2" COMBINATION WASTE AND VENT STACK DOWN. 2" VENT UP.
3. 1/2" COLD WATER FROM BELOW. 2" COMBINATION WASTE AND VENT STACK DOWN. 2" VENT UP.
4. 1" COLD WATER FROM BELOW. 4" WASTE STACK. 2 1/2" VENT STACK UP.
5. 4" STORM DOWN.
6. 3/4" COLD WATER AND 3/4" HOT WATER FROM BELOW. 3" COMBINATION WASTE AND VENT STACK DOWN. 3" VENT UP.



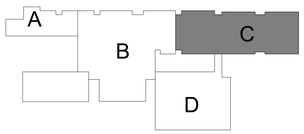
SECOND FLOOR - UNIT C - PLUMBING

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

NORTH

KEY PLAN

NORTH



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PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction and materials required for the work.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the Contractor shall provide all labor and materials required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	AMB	DED

DRAWING TITLE:

SECOND FLOOR PLAN - UNIT C - PLUMBING

CERTIFIED BY:

DANIEL E. DIMOND
NOTARIAL SEAL
No. PE60910351
STATE OF INDIANA
PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

P202C

PROJECT NUMBER

22054

PLUMBING EQUIPMENT SCHEDULE

MARK NO.	SPECIFICATION NAME	MANUFACTURER & MODEL NO.	ELECTRICAL DATA			GAS LOAD	WT.	CAPACITY	REMARKS
			LOAD	VOLTS	PHASE	INPUT - BTU			
SI-A	SOLIDS INTERCEPTOR	ZURN Z1180	-	-	-	-	-	1-1/2" INLET AND OUTLET CONNECTIONS	KEEP MIN 6" OF CLEARANCE FOR SCREEN REMOVAL, LOCATED IN ART ROOM
GD-A	GARBAGE DISPOSAL	INSINKERATOR BADGER 5	3/4 HP	115	1 PH	-	-	-	COORDINATE WITH GENERAL CONTRACTOR
-	-	-	-	-	-	-	-	-	-

FIXTURE ROUGH-IN SCHEDULE & MOUNTING HEIGHTS

MARK NO.	FIXTURE DESCRIPTION	HW	CW	TRAP	W	V	MOUNTING HEIGHTS
WC-1	WATER CLOSET - WALL HUNG, FLUSH VALVE, CHILD HEIGHT △1	-	1"	INTEGRAL	4"	2"	15" TO SEAT
WC-2	WATER CLOSET - WALL HUNG, FLUSH VALVE, CHILD HEIGHT, ADA △1	-	1"	INTEGRAL	4"	2"	15" TO SEAT
WC-3	WATER CLOSET - WALL HUNG, FLUSH VALVE, ADA △1	-	1"	INTEGRAL	4"	2"	17" TO SEAT
WC-4	WATER CLOSET - WALL HUNG, FLUSH VALVE, CHILD HEIGHT (SEE NOTE #1) △1	-	1"	INTEGRAL	4"	2"	15" TO SEAT
UR-1	URINAL - CHILD HEIGHT (SEE NOTE #1) △1	-	3/4"	INTEGRAL	2"	1 1/2"	17" TO RIM
UR-2	URINAL - CHILD HEIGHT, ADA (SEE NOTE #1) △1	-	3/4"	INTEGRAL	2"	1 1/2"	14" TO RIM
L-1	LAVATORY - WALL HUNG, CHILD HEIGHT, ADA △1	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	31" TO TOP OF RIM
L-2	LAVATORY - WALL HUNG, ADA △1	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	34" TO TOP OF RIM
L-3	LAVATORY - 2-USER, WALL HUNG	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	31" TO LOWEST RIM
SK-1	SINGLE BOWL SINK - CLASSROOMS, ADA	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	DROP-IN COUNTER MOUNT
SK-2	DOUBLE BOWL SINK - ACTIVITY COMMONS	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	DROP-IN COUNTER MOUNT
SK-3	SINGLE BOWL SINK - CLINIC, ADA	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	DROP-IN COUNTER MOUNT
SK-4	SINGLE BOWL SINK - MOTHERS ROOM, ADA	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	DROP-IN COUNTER MOUNT
SK-5	SINGLE BOWL SINK - STAFF DINING, ADA	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	DROP-IN COUNTER MOUNT
SK-6	SINGLE COMPARTMENT SINK WITH LEGS	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	PROVIDE SOLIDS INTERCEPTOR BELOW SINK
SK-7	SINGLE BOWL ART SINK - ADA	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	DROP-IN COUNTER MOUNT, PROVIDE SOLIDS INTERCEPTOR IN ADJACENT CASEWORK
SK-8	SINGLE COMPARTMENT SINK WITH LEGS	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	-
SK-9	SINGLE BOWL ART SINK - ADA	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	DROP-IN COUNTER MOUNT
EWC-1	WATER COOLER W/BOTTLE FILLER - CHILD HEIGHT, ADA	-	1/2"	1 1/4"	1 1/2"	1 1/2"	32" TO BUBBLER
EWC-2	WATER COOLER W/BOTTLE FILLER - HI/LO CHILD HEIGHT, ADA	-	1/2"	1 1/4"	1 1/2"	1 1/2"	32" TO LO BUBBLER, 44" TO HI BUBBLER
MS-1	MOP SINK	3/4"	3/4"	3"	3"	2"	MOUNT FAUCET 36" ABOVE FINISHED FLOOR
IMB-1	ICE MAKER OUTLET BOX	-	1/2"	-	-	-	24"
WB-1	WASHING MACHINE OUTLET BOX	3/4"	3/4"	2"	2"	2"	42" TO TOP OF BOX
HYD-1	WALL HYDRANT - NON FREEZE	-	3/4"	-	-	-	24" A.F.F.
HB-1	HOSE BIBB - INTERIOR USE	-	3/4"	-	-	-	24" A.F.F.

NOTES:
1. AUTOMATIC FLUSH VALVE TO BE REUSED FROM EXISTING FIXTURE.

△1

WATER HAMMER ARRESTER SCHEDULE

TYPE	I.P.S.	F.U. RATING	J.R. SMITH NO.	WADE NO.	ZURN NO.	REMARKS
A	3/4"	1 - 11	5005	W-5	100	P.D.I. CERTIFIED
B	1"	12 - 32	5010	W-10	200	P.D.I. CERTIFIED
C	1"	33 - 60	5020	W-20	300	P.D.I. CERTIFIED
D	1"	61 - 113	5030	W-50	400	P.D.I. CERTIFIED

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D&A #22054

R.E. Dimond and Associates, Inc. Consulting Engineers
732 North Capital Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction and materials to be employed.
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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

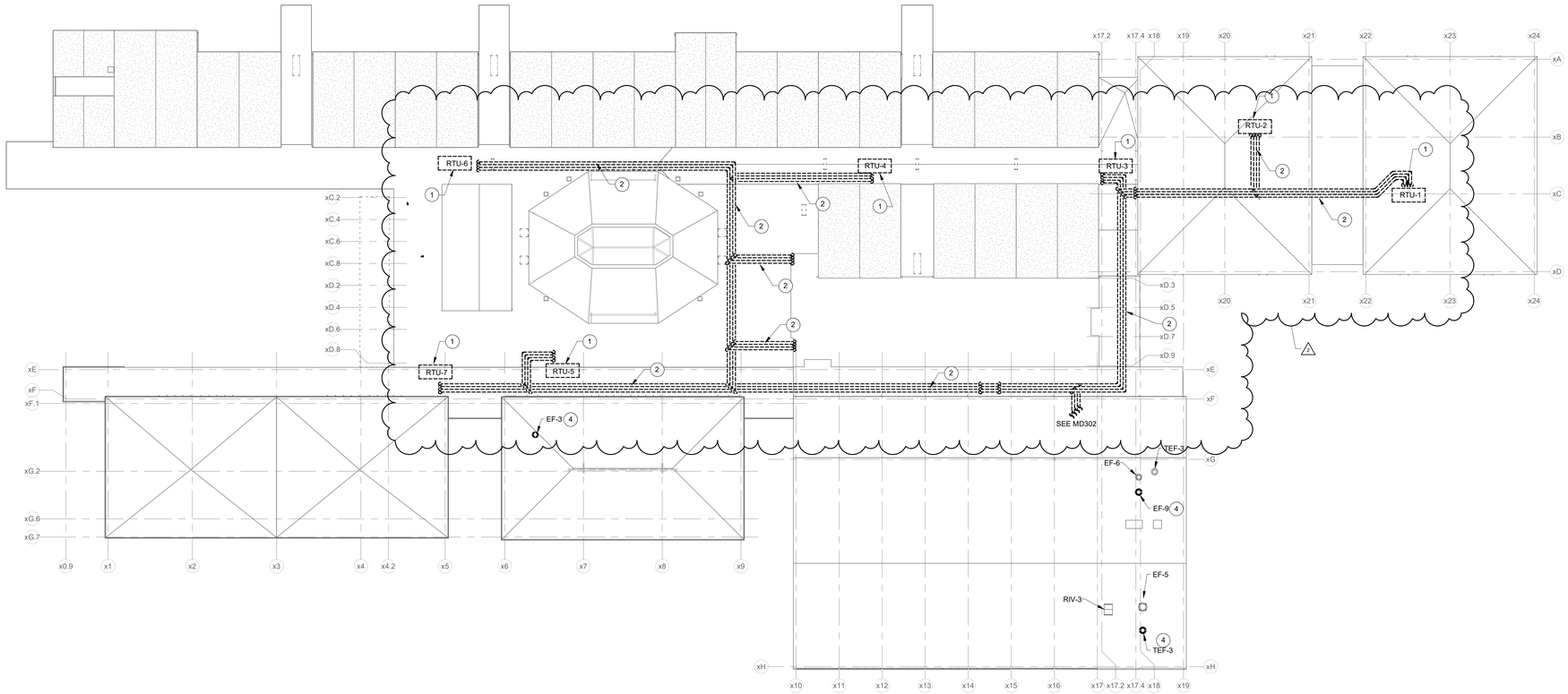
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	AMB	DED

DRAWING TITLE:
SCHEDULES - PLUMBING

CERTIFIED BY:
DANIEL E. DIMOND
REGISTERED
No.
PE60910351
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
P601

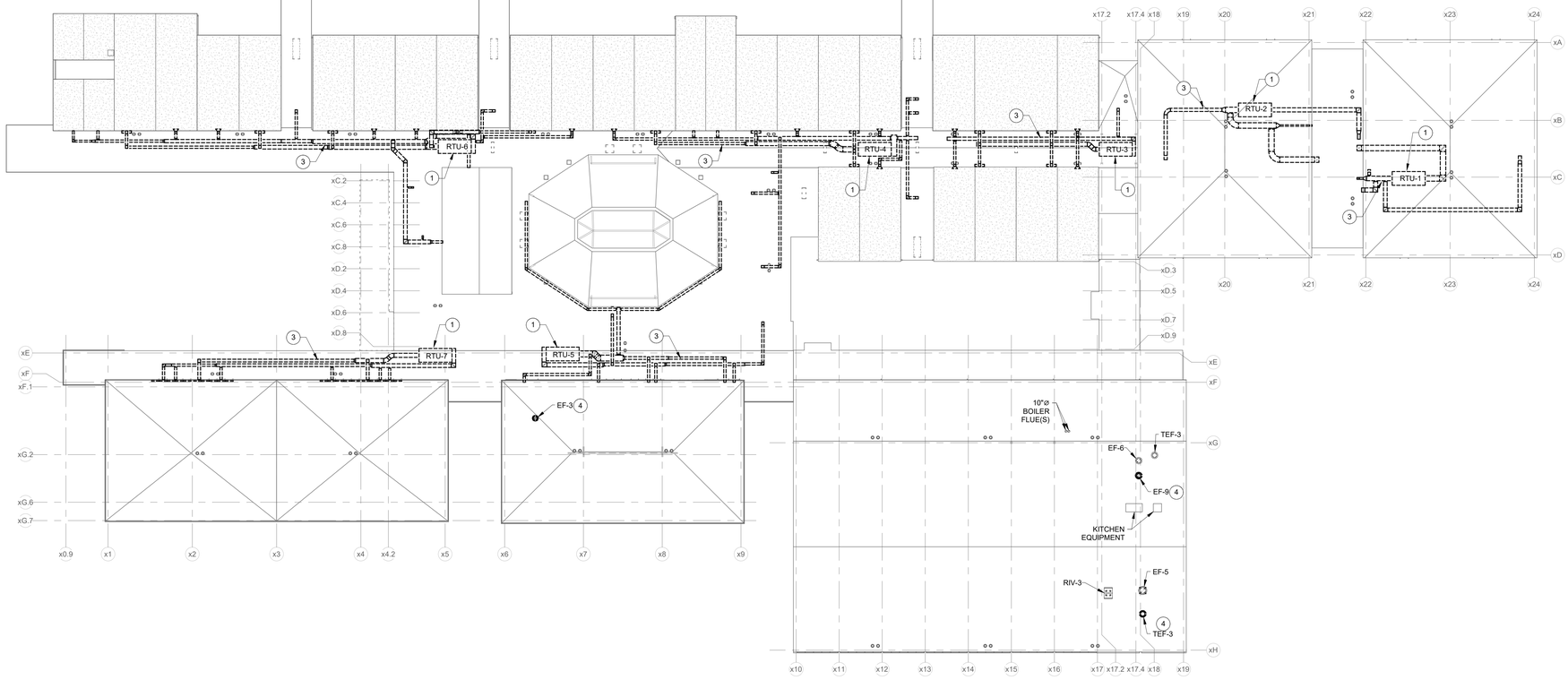
PROJECT NUMBER
22054



ROOF PLAN - HYDRONIC DEMOLITION

SCALE: 1" = 20'-0"

NORTH



ROOF PLAN - AIR DISTRIBUTION DEMOLITION

SCALE: 1" = 20'-0"

NORTH

DEMOLITION LEGEND:

- WORK TO BE REMOVED
- WORK TO REMAIN

GENERAL NOTES - DEMOLITION:

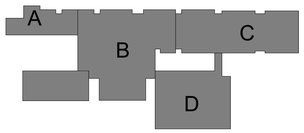
1. ALSO SEE MD200 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. REMOVE ALL RTUs ON ROOF COMPLETE.
2. REMOVE ALL HYDRONIC PIPING ON ROOF COMPLETE.
3. REMOVE ALL SHEET METAL ON ROOF COMPLETE.
4. REMOVE EXHAUST FAN COMPLETE.

KEY PLAN

NORTH



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Consulting Engineers
732 North Capital Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

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The Trade Contractors shall install scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:

ROOF PLAN - MECHANICAL DEMOLITION

CERTIFIED BY:

DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

MD220

PROJECT NUMBER

22054

DEMOLITION LEGEND:

WORK TO BE REMOVED

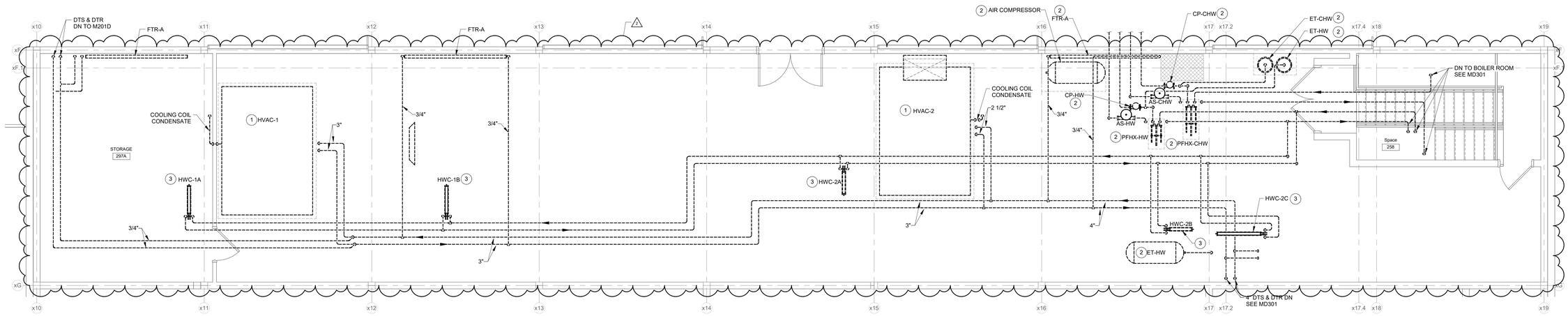
WORK TO REMAIN

GENERAL NOTES - DEMOLITION:

1. ALSO SEE MD200 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

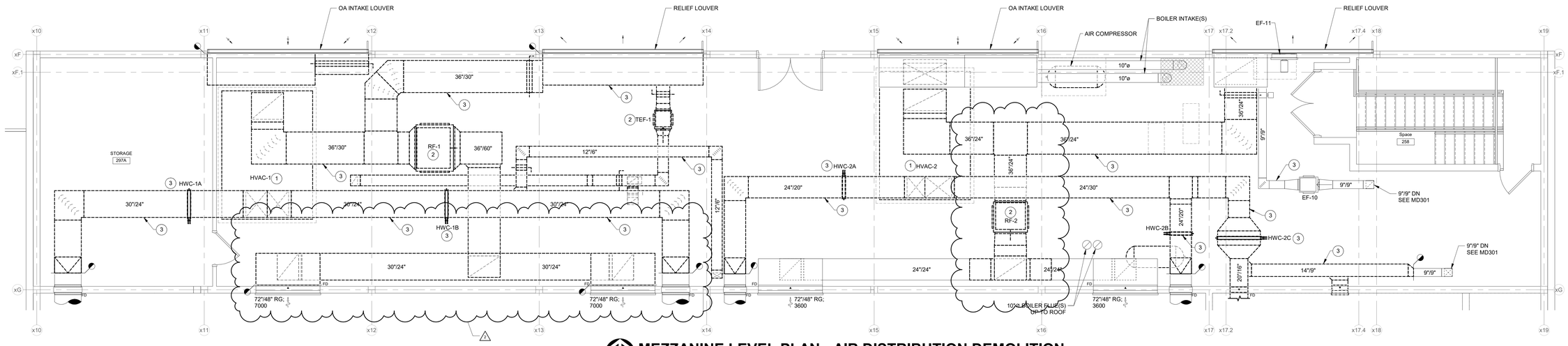
1. REMOVE AHUs COMPLETE INCLUDING SHEETMETAL, PIPING, CONDENSATE DRAIN, CONTROLS, AND CONCRETE PAD.
2. REMOVE MECHANICAL EQUIPMENT COMPLETE.
3. REMOVE PIPING AND SHEET METAL BACK TO WHERE SHOWN INCLUDING DUCT MOUNTED REHEAT COILS.



MEZZANINE LEVEL PLAN - HYDRONIC DEMOLITION

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

NORTH



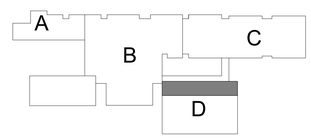
MEZZANINE LEVEL PLAN - AIR DISTRIBUTION DEMOLITION

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

NORTH

KEY PLAN

NORTH



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732 North Capitol Avenue Indianapolis, IN 46204
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Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:
ENLARGED MEZZANINE LEVEL PLAN - MECHANICAL DEMOLITION

CERTIFIED BY:
DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
MD302

PROJECT NUMBER
22054

RENOVATION LEGEND:

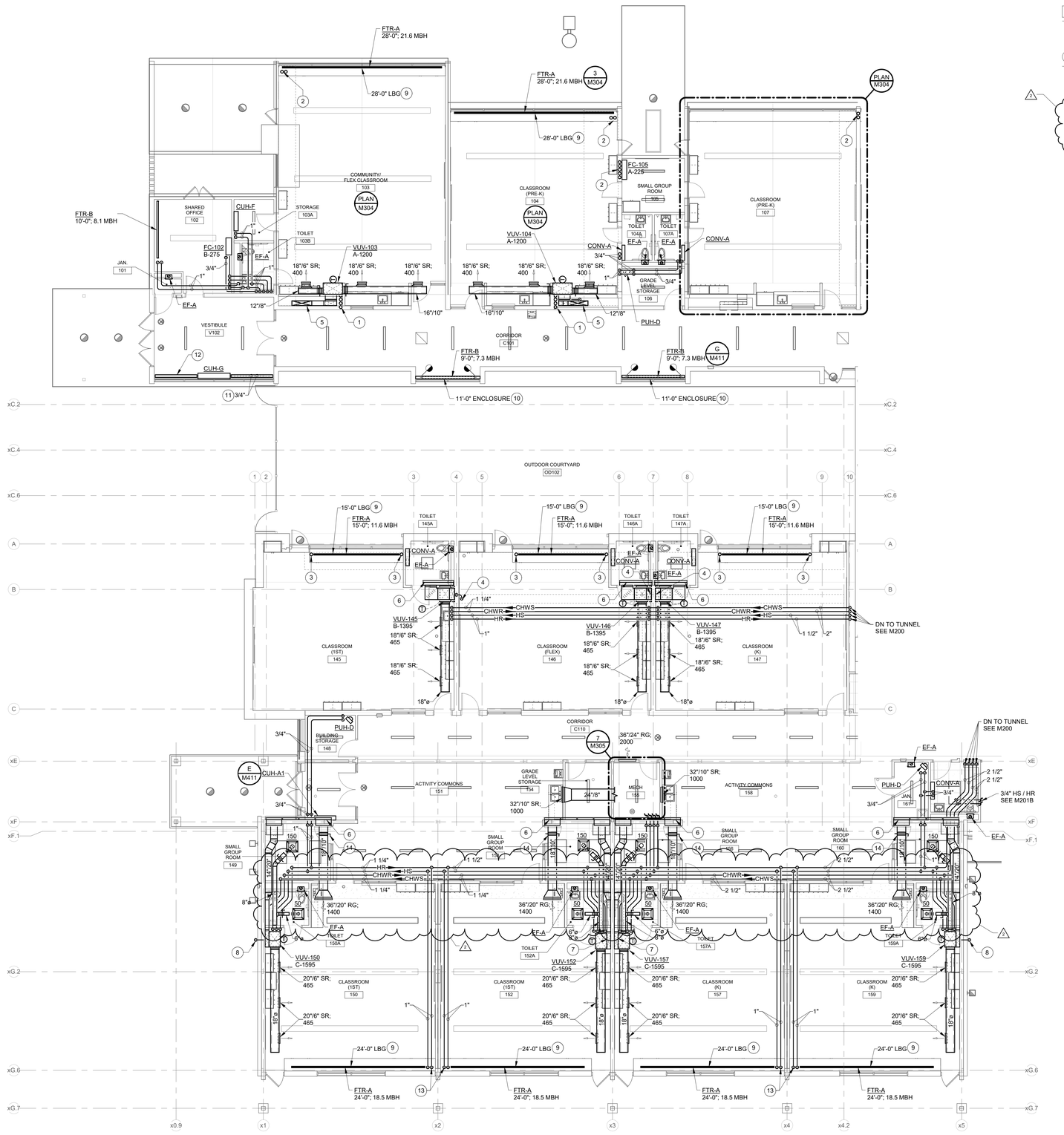
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES - MECHANICAL

1. SEE SHEET M200 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. 1-1/4" CHILLED WATER SUPPLY / RETURN, 1" HEATING WATER SUPPLY / RETURN, AND 1" CONDENSATE DRAIN DN TO TUNNEL. SEE M200.
2. HYDRONIC / CONDENSATE PIPING ROUTED IN EXISTING TRENCH TO TUNNEL. SEE M200.
3. HEATING WATER SUPPLY / HEATING WATER RETURN DN NEW TRENCH. SEE M200.
4. 1" CONDENSATE DRAIN DN TO NEW TRENCH. SEE M200.
5. OA DUCTWORK UP THRU ROOF FOR VENTILATION AIR. SEE 'J' / M401.
6. LOUVER IN CLERESTORY WINDOWS FOR VENTILATION AIR. SEE ARCHITECTURE DRAWINGS.
7. ROUTE CONDENSATE TO FLOOR DRAIN BEHIND UNIT. SEE 'P' SERIES DRAWINGS FOR DRAIN LOCATION.
8. TERMINATE 1" CONDENSATE DRAIN OUT WALL.
9. 3" WIDE HEAVY DUTY LINEAR BAR GRILLE MOUNTED IN TOP OF FURRED WALL BEHIND CASEWORK. SEE SECTION 'A' / M304 FOR DETAILS. LINEAR BAR GRILLE TO BE LIKE PRICE MODEL LBPH, 3" WIDE, 1/4" BAR SPACING, 0° DEFLECTION, 3/4" FLANGE WIDTH AND SPRING CLIP MOUNTING. LENGTH AS NOTED ON PLANS. FINISH TO BE CUSTOM COLOR SELECTED BY ARCHITECT.
10. PROVIDE FTR-B WITH ENCLOSURE. VERIFY DIMENSIONS IN FIELD.
11. ROUTE HYDRONIC PIPING IN FTR-B STYLE ENCLOSURE. NO HEATING ELEMENT REQUIRED.
12. PROVIDE ADDITIONAL FTR-B STYLE ENCLOSURE. NO HEATING ELEMENT REQUIRED.
13. ROUTE HYDRONIC PIPING IN CONTRACTOR PROVIDED SHEET METAL ENCLOSURE.
14. PROVIDE BACKDRAFT DAMPER IN RELIEF AIR DUCT.



FIRST FLOOR - UNIT A - MECHANICAL

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

KEY PLAN

NORTH

A B C D

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D&A #22054

R.E. Dimond and Associates, Inc. Consulting Engineers
732 North Capital Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION RENOVATIONS TO L. C. SCHMITT ELEMENTARY

2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings and specifications together describe all work required for full performance and completion of the requirements of the Contract.
The trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #1	03/08/2024
2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT A - MECHANICAL

CERTIFIED BY:

DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

M201A

PROJECT NUMBER

22054

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES - MECHANICAL

1. SEE SHEET M200 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. 1-1/4" CHILLED WATER SUPPLY / RETURN, 1" HEATING WATER SUPPLY / RETURN, AND 1" CONDENSATE DRAIN DN TO TUNNEL. SEE M200.
2. HYDRONIC / CONDENSATE PIPING ROUTED IN EXISTING TRENCH TO TUNNEL. SEE M200.
3. OA DUCTWORK UP THRU ROOF FOR VENTILATION AIR. SEE 'J' / M401.
4. LOUVER FOR VENTILATION AIR. SEE ARCHITECTURAL DRAWINGS.
5. 3/4" HEATING WATER SUPPLY / RETURN DN TO TUNNEL.
6. ROUND CONE DIFFUSER LIKE PRIE RCD.
7. INSTALL HYDRONIC PIPING TIGHT TO BEAM AND DECK ABOVE.
8. 3" WIDE HEAVY DUTY LINEAR BAR GRILLE MOUNTED IN TOP OF FURRED WALL BEHIND CASEWORK. SEE SECTION 'A' / M304 FOR DETAILS. LINEAR BAR GRILLE TO BE LIKE PRICE MODEL LBPH, 3" WIDE, 1/4" BAR SPACING, 0° DEFLECTION, 3/4" FLANGE WIDTH AND SPRING CLIP MOUNTING. LENGTH AS NOTED ON PLANS. FINISH TO BE CUSTOM COLOR SELECTED BY ARCHITECT.
9. PROVIDE FTR-B WITH ENCLOSURE. VERIFY DIMENSIONS IN FIELD.
10. ROUTE CONDENSATE DOWN TO EXISTING TRENCH. PROVIDE SHEET METAL ENCLOSURE AS NEEDED.
11. TERMINATE 1" CONDENSATE DRAIN OUT WALL.
12. ROUTE HYDRONIC PIPING IN CONTRACTOR PROVIDED SHEET METAL ENCLOSURE.
13. PROVIDE FTR-B WITH ENCLOSURE. DIMENSION NOTED IS TOTAL ENCLOSURE LINEAR LENGTH. VERIFY DIMENSIONS IN FIELD.
14. PROVIDE BACKDRAFT DAMPER IN RELIEF AIR DUCT.
15. ROUTE CONDENSATE DOWN WALL IN EXISTING CONDENSATE PATHWAY TO TUNNEL BELOW.
16. LINEAR BAR GRILLE LIKE PRICE LBP CORE 16A WITH DAMPER. BALANCE TO NOTED CFM. VERIFY DIMENSIONS IN FIELD.
17. LINEAR BAR GRILLE LIKE PRICE LBP CORE 16A WITHOUT DAMPER. GRILLE TO NOT BE ACTIVE. VERIFY DIMENSIONS IN FIELD.

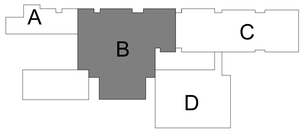
FIRST FLOOR - UNIT B - MECHANICAL

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

NORTH

KEY PLAN

NORTH



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732 North Capital Avenue
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Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, and the general requirements of the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all the requirements for the performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:
FIRST FLOOR PLAN - UNIT B - MECHANICAL

CERTIFIED BY:
DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
M201B

PROJECT NUMBER
22054

RENOVATION LEGEND:

WORK TO BE INSTALLED

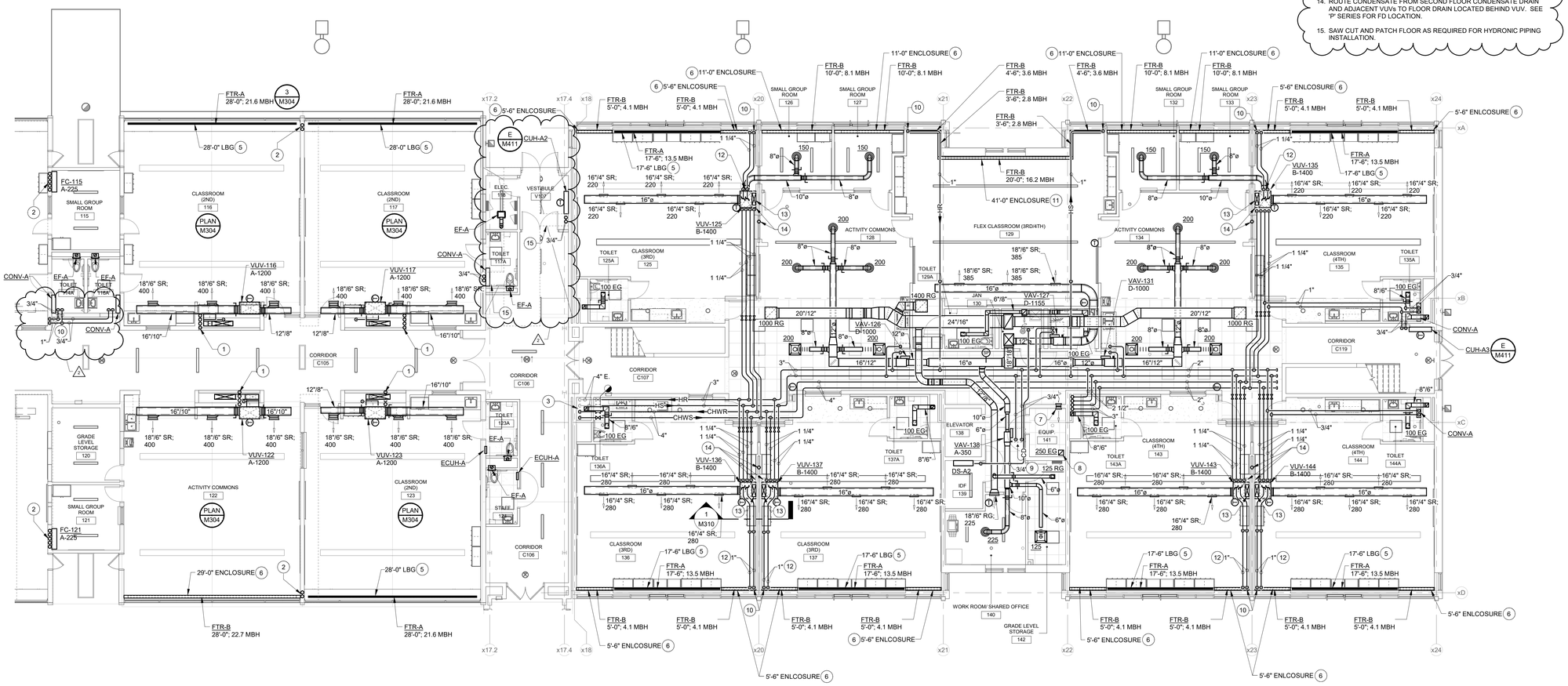
WORK TO REMAIN

GENERAL NOTES - MECHANICAL

1. SEE SHEET M200 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. 1-1/4" CHILLED WATER SUPPLY / RETURN, 1" HEATING WATER SUPPLY / RETURN, AND 1" CONDENSATE DRAIN DN TO TUNNEL. SEE M200.
2. HYDRONIC / CONDENSATE PIPING ROUTED IN EXISTING TRENCH TO TUNNEL. SEE M200.
3. DOWN TO TUNNEL LEVEL. SEE M200 FOR HYDRONIC PIPING CONTINUATION.
4. ROUTE 3/4" CONDENSATE TO MOP SINK IN JANITOR 130.
5. 3" WIDE HEAVY DUTY LINEAR BAR GRILLE MOUNTED IN TOP OF FURRED WALL BEHIND CASEWORK. SEE SECTION 'A' / M304 FOR DETAILS. LINEAR BAR GRILLE TO BE LIKE PRICE MODEL LBPH, 3" WIDE, 1/4" BAR SPACING, 0° DEFLECTION, 3/4" FLANGE WIDTH AND SPRING CLIP MOUNTING. LENGTH AS NOTED ON PLANS. FINISH TO BE CUSTOM COLOR SELECTED BY ARCHITECT.
6. PROVIDE FTR-B WITH ENCLOSURE. VERIFY DIMENSIONS IN FIELD.
7. PROVIDE 10"/10" TRANSFER WITH FIRST DAMPER IN WALL.
8. PROVIDE FIRE DAMPER AT EACH FLOOR PENETRATION.
9. ROUTE 3/4" CONDENSATE TO MOP SINK IN JANITOR 130. TERMINATE WITH 90° FITTING ABOVE MOP SINK.
10. ROUTE HYDRONIC PIPING IN CONTRACTOR PROVIDED SHEET METAL ENCLOSURE.
11. PROVIDE FTR-B WITH ENCLOSURE. DIMENSION NOTED IS TOTAL ENCLOSURE LINEAR LENGTH. VERIFY DIMENSIONS IN FIELD.
12. OFFSET HYDRONIC PIPING BELOW STRUCTURE. INSTALL PIPING TIGHT TO STRUCTURE.
13. OUTSIDE AIR DUCT UP TO RIV ON ROOF. ROUTE OA DUCT TO BACK OF VUV FOR OA CONNECTION. SEE '1' / M310.
14. ROUTE CONDENSATE FROM SECOND FLOOR CONDENSATE DRAIN AND ADJACENT VUVs TO FLOOR DRAIN LOCATED BEHIND VUV. SEE 'P' SERIES FOR FD LOCATION.
15. SAW CUT AND PATCH FLOOR AS REQUIRED FOR HYDRONIC PIPING INSTALLATION.



FIRST FLOOR - UNIT C - MECHANICAL

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

NORTH

KEY PLAN

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D&A #22054

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Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:
FIRST FLOOR PLAN - UNIT C - MECHANICAL

CERTIFIED BY:
DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
M201C

PROJECT NUMBER
22054

RENOVATION LEGEND:

WORK TO BE INSTALLED

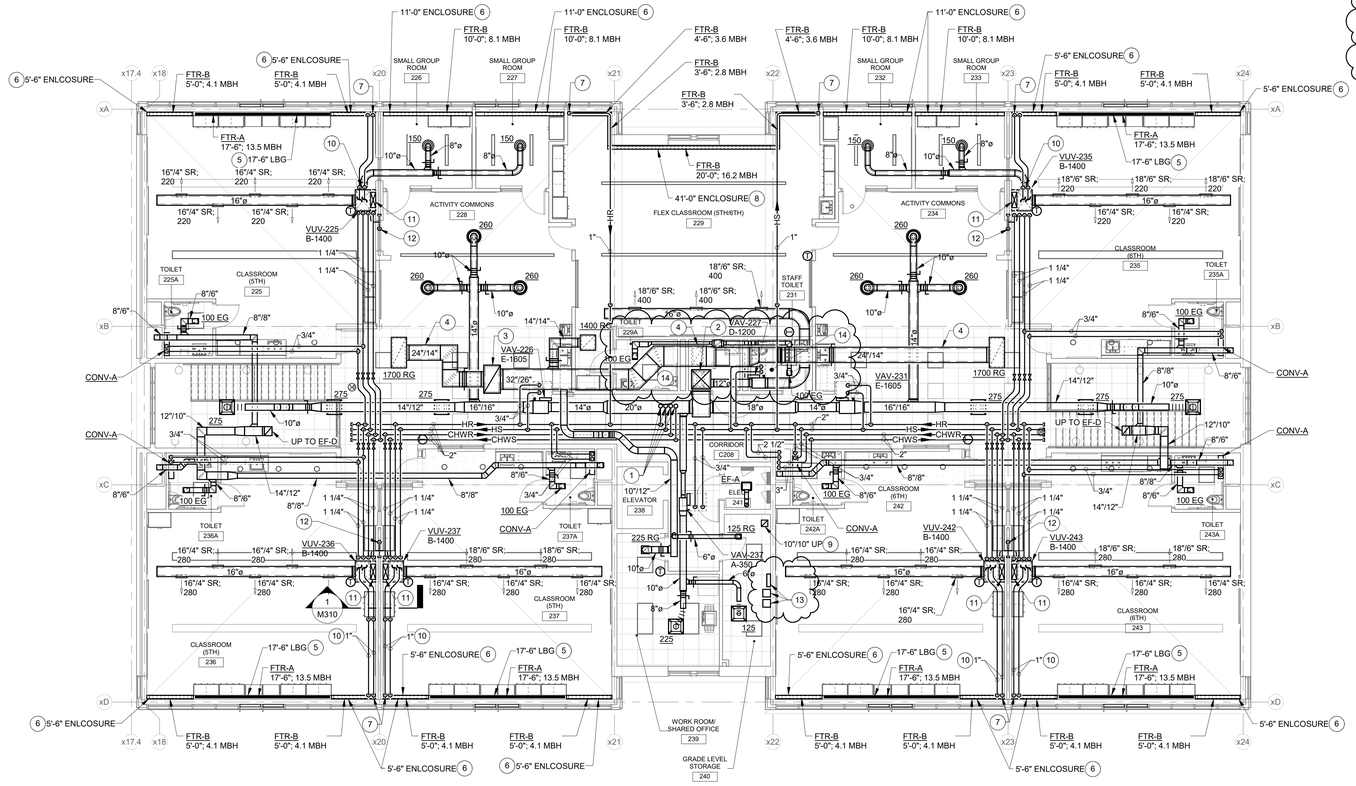
WORK TO REMAIN

GENERAL NOTES - MECHANICAL

1. SEE SHEET M200 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

1. 2-1/2" CHWS / CHWR & 1-1/4" HS / HR PIPING UP TO AHU-4 PIPE CABINET ON ROOF. SEE M220.
2. 30"/30" SUPPLY DUCT UP TO AHU-4 ON ROOF.
3. 26"/44" RETURN DUCT UP TO AHU-4 ON ROOF.
4. INTERNALLY LINE ALL RETURN AIR DUCTWORK WITH 1" ACOUSTICAL DUCT LINER DOWN THRU SECOND FLOOR PENETRATION.
5. 3" WIDE HEAVY DUTY LINEAR BAR GRILLE MOUNTED IN TOP OF FURRED WALL BEHIND CASEWORK. SEE SECTION 'A' / M304 FOR DETAILS. LINEAR BAR GRILLE TO BE LIKE PRICE MODEL LBPH, 3" WIDE, 1/4" BAR SPACING, 0° DEFLECTION, 3/4" FLANGE WIDTH AND SPRING CLIP MOUNTING. LENGTH AS NOTED ON PLANS. FINISH TO BE CUSTOM COLOR SELECTED BY ARCHITECT.
6. PROVIDE FTR-B WITH ENCLOSURE. VERIFY DIMENSIONS IN FIELD.
7. ROUTE HYDRONIC PIPING IN CONTRACTOR PROVIDED SHEET METAL ENCLOSURE.
8. PROVIDE FTR-B WITH ENCLOSURE. DIMENSION NOTED IS TOTAL ENCLOSURE LINEAR LENGTH. VERIFY DIMENSIONS IN FIELD.
9. PROVIDE FIRE DAMPER AT EACH FLOOR PENETRATION.
10. OFFSET HYDRONIC PIPING BELOW STRUCTURE. INSTALL PIPING TIGHT TO STRUCTURE.
11. OUTSIDE AIR DUCT UP TO RIV ON ROOF. ROUTE OA DUCT TO BACK OF VUV FOR OA CONNECTION. SEE "1" / M310.
12. 1-1/4" CONDENSATE DRAIN DOWN IN WALL CAVITY TO FLOOR DRAIN ON FIRST FLOOR. ROUTE CONDENSATE DRAIN FROM VUV DRIP PAN TO CONDENSATE DOWN WALL CAVITY. SEE 'P' SERIES FOR FLOOR DRAIN LOCATION ON FIRST FLOOR.
13. AHU-4 TCP, SUPPLY FAN VFD, AND RETURN FAN VFD.
14. ROUTE 3/4" HS / HR TO EACH CONV-A IN EACH TOILET ROOM.

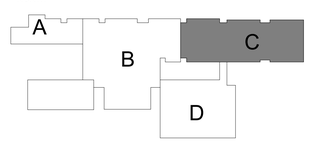


SECOND FLOOR - UNIT C - MECHANICAL

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

NORTH

KEY PLAN



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R.E. Dimond and Associates, Inc. Consulting Engineers

732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction and materials required for the work.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the Contractor shall provide all labor and materials required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:

SECOND FLOOR PLAN - UNIT C - MECHANICAL

CERTIFIED BY:

DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

M202C

PROJECT NUMBER

22054

RENOVATION LEGEND:

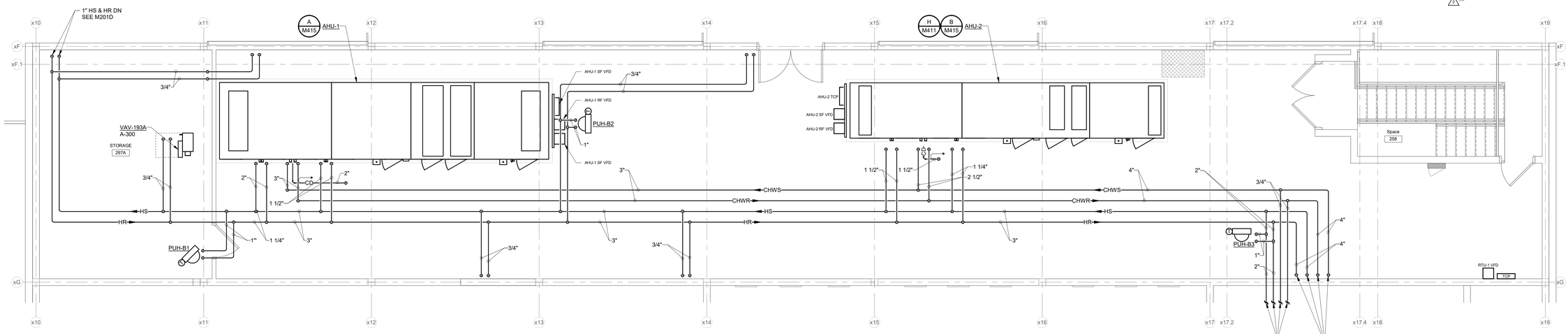
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. ALSO SEE M200 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

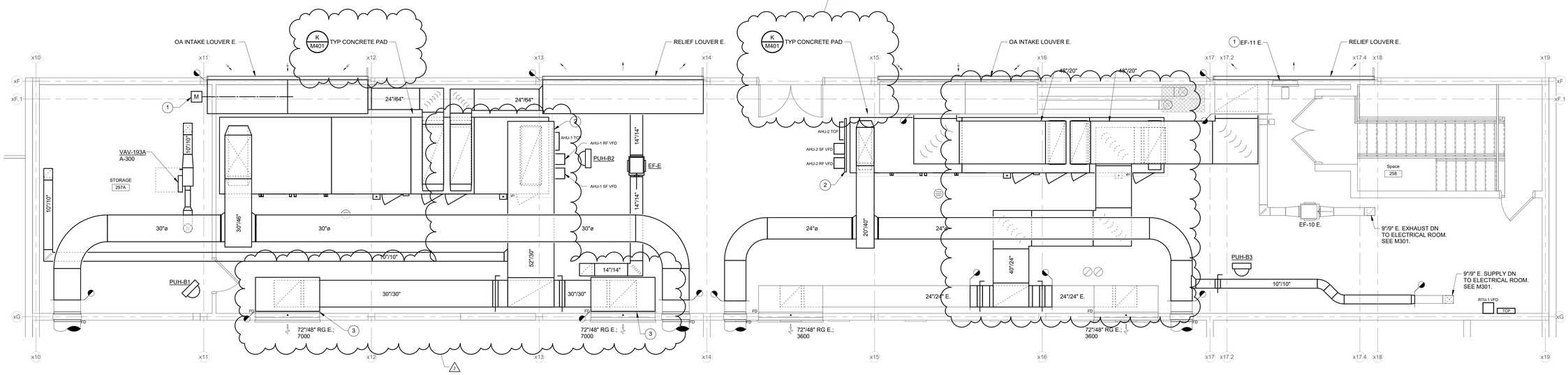
1. INTERLOCK MOTORIZED DAMPER OPERATION WITH EF-11 E. OPERATION FOR MECHANICAL MEZZANINE VENTILATION. CONTRACTOR TO CONFIRM FAN OPERATION.
2. MOUNT VFDs AND TCPs TO CONTRACTOR PROVIDED UNISTRUT.
3. ROUTE RETURN AIR DUCTWORK / PLENUM FROM EXISTING FIRE DAMPER BACK TO INSTALLED AHU. RETURN GRILLE AND FIRE DAMPER ARE BOTH EXISTING TO REMAIN.



MEZZANINE LEVEL PLAN - HYDRONICS

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

NORTH



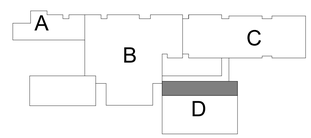
MEZZANINE LEVEL PLAN - AIR DISTRIBUTION

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

NORTH

KEY PLAN

NORTH



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PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

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The drawings do not necessarily indicate or describe all work required for the complete performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:

ENLARGED MEZZANINE LEVEL PLAN - MECHANICAL

CERTIFIED BY:

DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER

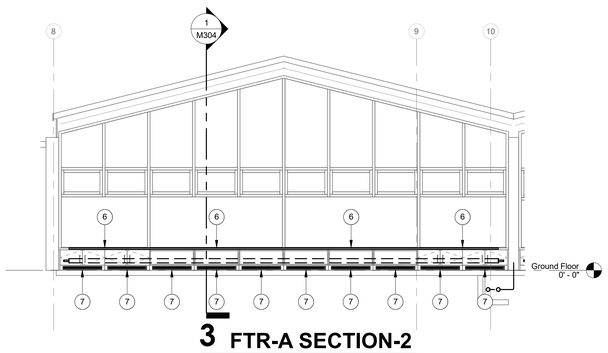
02/16/2024

DRAWING NUMBER

M302

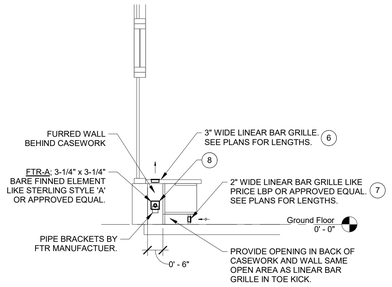
PROJECT NUMBER

22054



3 FTR-A SECTION-2

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



A FTR-A SECTION-1

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

RENOVATION LEGEND:

WORK TO BE INSTALLED

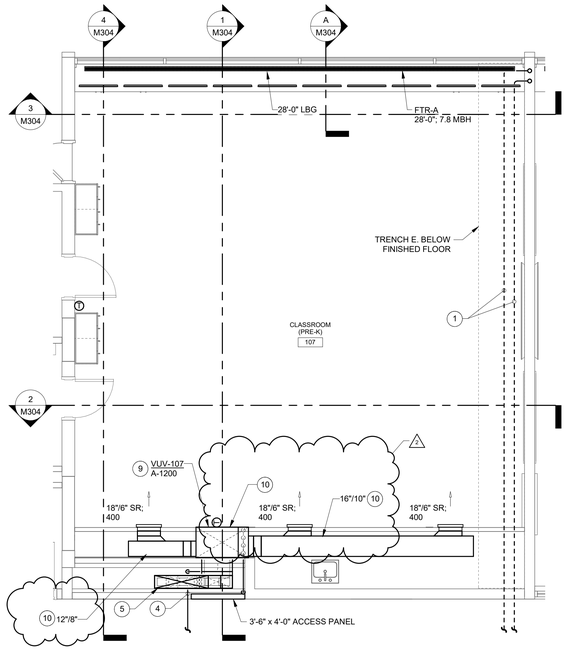
WORK TO REMAIN

GENERAL NOTES:

1. ALSO SEE M200 FOR ADDITIONAL GENERAL NOTES.

PLAN NOTES:

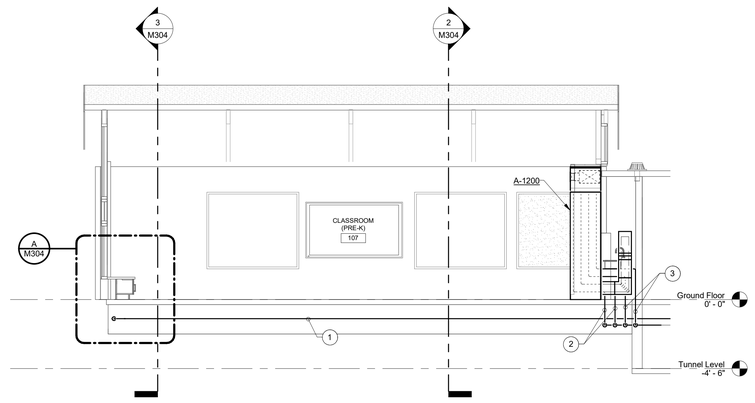
1. 3/4" HS / HR BELOW FINISHED FLOOR IN EXISTING TRENCH.
2. 1-1/4" CHWS / CHWR FROM TUNNEL TO VUV ON GROUND LEVEL.
3. 1" HS / HR FROM TUNNEL TO VUV ON GROUND LEVEL.
4. 1" CONDENSATE DRAIN FROM VUV TO TUNNEL.
5. 42"/10" INSULATED OUTSIDE AIR DUCT FROM GOOSENECK ON ROOF TO BACK OF VUV.
6. 3" WIDE HEAVY DUTY LINEAR BAR GRILLE MOUNTED IN TOP OF FURRED WALL BEHIND CASEWORK. SEE SECTION 'A' / M303 FOR DETAILS. LINEAR BAR GRILLE TO BE LIKE PRICE MODEL LBPH, 3" WIDE, 1/4" BAR SPACING, 0° DEFLECTION, 3/4" FLANGE WIDTH AND SPRING CLIP MOUNTING. LENGTH AS NOTED ON PLANS. FINISH TO BE CUSTOM COLOR SELECTED BY ARCHITECT.
7. 30" LONG X 2" WIDE HEAVY DUTY LINEAR BAR GRILLE MOUNTED IN TOE KICK OF CASEWORK. SEE SECTION 'A' /M303 AND ELEVATION THIS DRAWING FOR DETAILS. LINEAR BAR GRILLE TO BE LIKE PRICE MODEL LBPH, 3" WIDE, 1/4" BAR SPACING, 0° DEFLECTION, 3/4" FLANGE WIDTH AND SPRING CLIP MOUNTING. FINISH TO BE CUSTOM COLOR SELECTED BY ARCHITECT.
8. BARE FINNED-TUBE ELEMENT (FTR) INSTALLED IN WALL BEHIND CASEWORK. LENGTH AS NOTED ON PLANS.
9. VUV AND PIPE CHASE HAVE BEEN PRE-PURCHASED BY OWNER AND ARE TO BE INSTALLED ON THIS PROJECT. CONTRACTOR TO PROVIDE TOP PLENUM EXTENSION, DUCTWORK, INSULATION, AND SUPPLY REGISTERS FOR THESE TYPICAL ROOMS.
10. INTERNALLY LINE SUPPLY AIR DUCTWORK AND TOP SUPPLY PLENUM EXTENSION WITH 1" ACOUSTICAL DUCT LINER.



TYPICAL CLASSROOM LAYOUT - AREA A - MECHANICAL

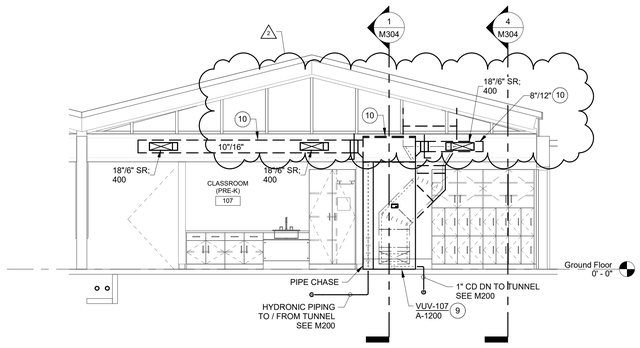
SCALE: 1/4" = 1'-0"

NORTH



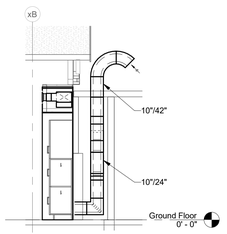
1 DUCTWORK - SECTION

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



2 UNIT LOCATION - SECTION

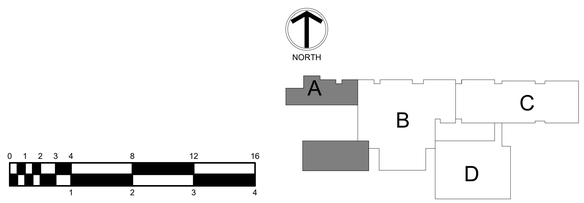
SCALE: 1/4" = 1'-0"



4 OA INTAKE - SECTION

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

KEY PLAN



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PROJECT:
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SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
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SCOPE DRAWINGS:
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The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
Where the following general scope indicated or described, the trade contractor shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:
ENLARGED
PLANS
-MECHANICAL

CERTIFIED BY:
DANIEL E. DIMOND
REGISTERED
No.
PE60910351
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
M304

PROJECT NUMBER
22054

RENOVATION LEGEND:

WORK TO BE INSTALLED

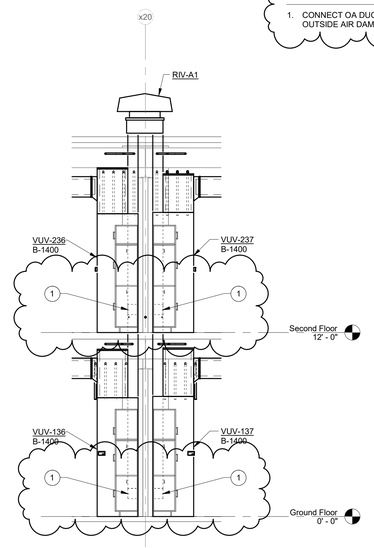
WORK TO REMAIN

GENERAL NOTES:

1. ALSO SEE M200 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. CONNECT OA DUCT FROM VERTICAL RISER TO VUVs MOTORIZED OUTSIDE AIR DAMPER.



1 OA INTAKE CHASE

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

0 1 2 3 4 8 12 16

1 2 3 4

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Consulting Engineers
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Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for the satisfactory and complete execution of the requirements of the Contract.
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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:

SECTIONS - MECHANICAL

CERTIFIED BY:

DANIEL E. DIMOND
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PE60910351
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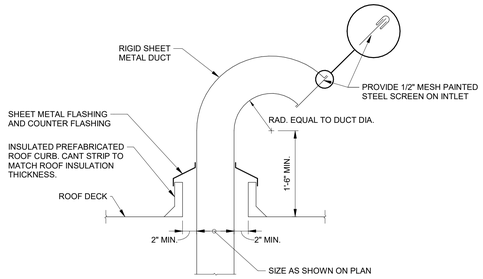
02/16/2024

DRAWING NUMBER

M310

PROJECT NUMBER

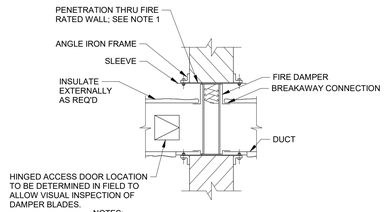
22054



NOTE:
PAINT ALL EXPOSED SHEET METAL.
COLOR TO BE SELECTED BY ARCHITECT.

G TYPICAL OA INTAKE THRU ROOF

SCALE: NONE

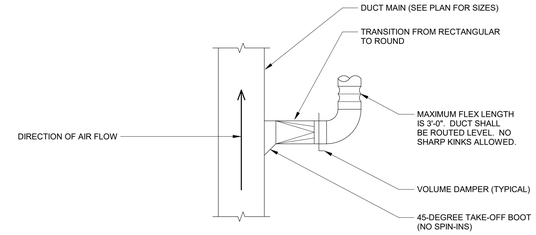


NOTES:

1. MAKE OPENING LARGER THAN DAMPER DIMENSIONS AS DETAILED BY MANUFACTURER.
2. FOR SLEEVE GAUGE SEE SPECS.
3. DAMPER CONSTRUCTED AND TESTED PER UL 555, UL LABELED, DYNAMIC RATED, AND 1-1/2 HOUR FIRE RATING W/ 165° FUSIBLE LINK.
4. SEAL BETWEEN WALL AND SLEEVE WITH APPROVED FIRE STOP MATERIAL
5. PROVIDE MARKERS ON CEILING TO INDICATE FIRE DAMPER LOCATIONS.

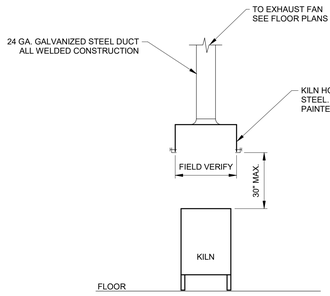
D CURTAIN FIRE DAMPER

SCALE: NONE



A BRANCH DUCT TAKE-OFF FROM MAIN DUCT

SCALE: NONE



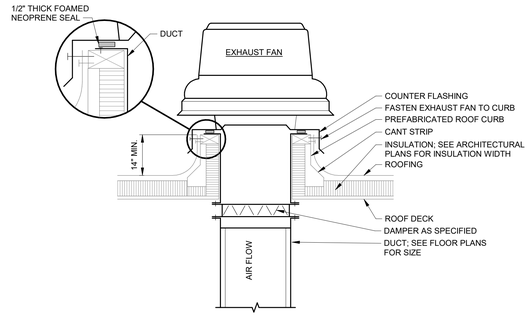
NOTES:

1. KILN OOD SHALL HAVE FACE OPENING AREA 6" WIDER THEN TOP OF KILN ON ALL SIDES. FIELD MEASURE EXACT SIZE REQUIRED.
2. EXHAUST FAN TO TIE-IN WITH KILN POWER WITH DELAYED TIMED SHUT-OFF. CONTROLS AND RELAYS BY DIVISION 26. SEE DETAIL.
3. HOOD MOUNTING HEIGHT MAY REQUIRE ADJUSTMENT TO ALLOW FOR OPEING IN LID. COORDINATE WITH ARCHITECT/ENGINEER.

KILN HOOD DETAIL

H KILN HOOD DETAIL

SCALE: NONE



NOTES:

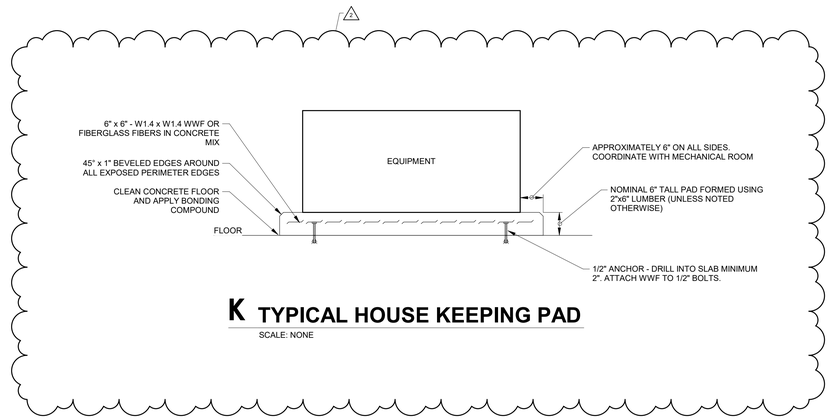
1. ROOF CURB TO BE ANCHORED TO ROOF STRUCTURE.
2. USE CANT STRIP FOR BUILT UP ROOF.
3. CURB TO ACCOMMODATE SLOPED ROOF.
4. INSTALL INTERNALLY LINED DUCTWORK TO A POINT 10-FOOT FROM FAN INLET.

E CENTRIFUGAL ROOF EXHAUST FAN - FLAT ROOF

SCALE: NONE

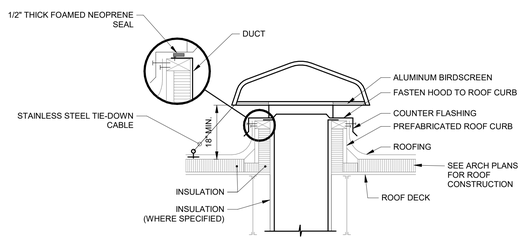
B DUCT THROUGH ROOF

SCALE: NONE



K TYPICAL HOUSE KEEPING PAD

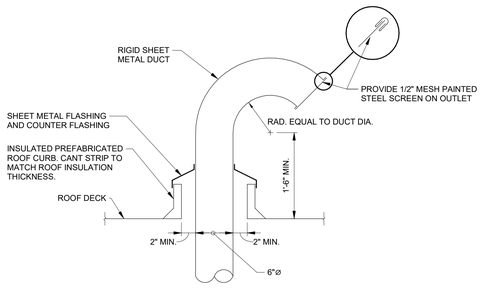
SCALE: NONE



NOTE:
ROOF CURBS TO BE ANCHORED TO ROOF STRUCTURE

F ROOF INTAKE/RELIEF VENTILATOR

SCALE: NONE



NOTE:
PAINT ALL EXPOSED SHEET METAL.
COLOR TO BE SELECTED BY ARCHITECT.

C TYPICAL EXHAUST DUCT TERMINATION THRU ROOF

SCALE: NONE

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	ACB	WCE

DRAWING TITLE:
DETAILS - AIR DISTRIBUTION

CERTIFIED BY:
DANIEL E. DIMOND REGISTERED No. PE60910351 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
M401

PROJECT NUMBER
22054

DEMOLITION LEGEND:

WORK TO BE REMOVED

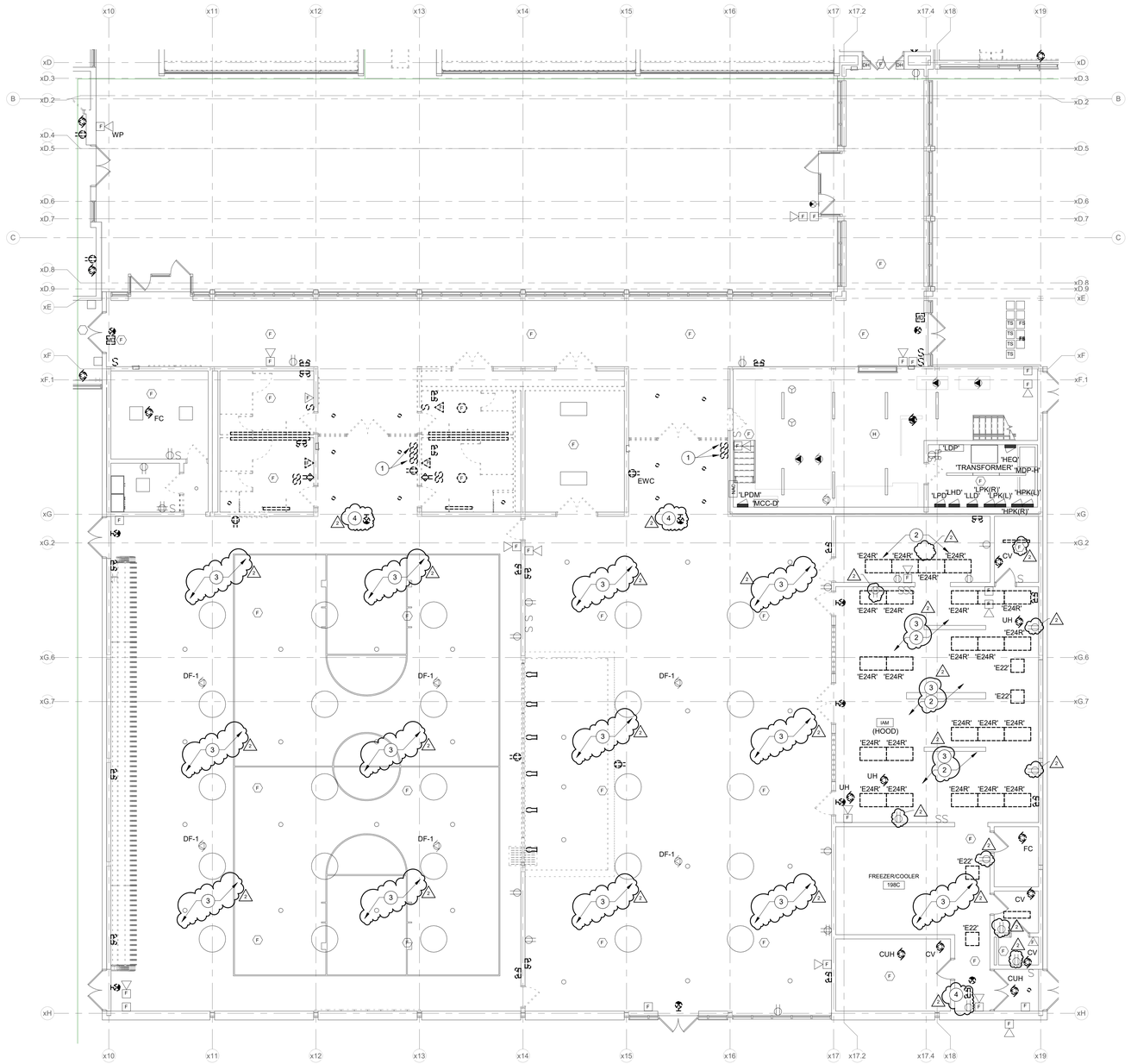
WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

PLAN NOTES:

1. LIGHTING CONTROLS TO BE RELOCATED. SEE E200 SERIES FOR RELOCATION.
2. LIGHT FIXTURE/FIXTURES TO BE REMOVED BUT KEPT FOR USE IN NEW CONSTRUCTION. SEE E200 SERIES FOR RELOCATION.
3. REMOVE EXIT SIGN AND EMERGENCY LIGHTS. CIRCUITS TO REMAIN IN THIS AREA FOR USE IN NEW CONSTRUCTION. PREPARE FOR NEW DEVICE IN EXISTING LOCATION.
4. FIXTURE TO BE REPLACED AND RELOCATED IN NEW CONSTRUCTION.



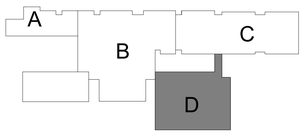
FIRST FLOOR - UNIT D - ELECTRICAL DEMOLITION

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

NORTH

KEY PLAN

NORTH



0 2 4 6 8 16 24 32

1 2 3 4

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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT D - ELECTRICAL DEMOLITION

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

ED201D

PROJECT NUMBER

22054

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT; ARMORED CABLE
ADJ	ADJUSTABLE
AF	AMPERE FUSE; AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALCR	AUTOMATIC LOAD CONTROL RELAY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASYM	ASYMMETRICAL
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AVG	AVERAGE
AWG	AMERICAN WIRE GUAGE
BATT	BATTERY
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT; CENTRIGRADE
C/C	CENTER TO CENTER
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CD	CANDELA
CF	CUBIC FEET
CFL	COMPACT FLUORESCENT
CIRC	CIRCUIT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
COND	CONDUCTOR
CONT	CONTINUOUS; CONTINUED
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER; CUBIC
CU FT	CUBIC FOOT
CY	CUBIC YARD
CYL	CYLINDER
D	DEEP; DEPTH
DB	DECIBEL; DIRECT BURIED
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DF	DUAL FACE
DIA	DIAMETER
DIAG	DIAGONAL
DISC	DISCONNECT
DISTR	DISTRIBUTION
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DWG	DRAWING
DX	DIRECT EXPANSION
E	EAST; EXISTING
EA	EACH
EBBR	ELECTRIC BASEBOARD RADIATION
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
ELEV	ELEVATOR; ELEVATION
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENG	ENGINE
EQUIP	EQUIPMENT
EST	ESTIMATED
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXP	EXPOSED
EXT	EXTERIOR
F	FUSED; FAHRENHEIT
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT-CANDLE
FD	FUSED DISCONNECT
FDR	FEEDER
FIN	FINISHED
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FM	FREQUENCY MODULATION; FACTORY MUTUAL
FT	FOOT; FEET
FURN	FURNISHED
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND
GA	GUAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
GRS, GRC	GALVANIZED RIGID STEEL CONDUIT
H	HIGH
HD	HEAVY DUTY; HIGH DEFINITION
HG	MERCURY
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HRS/DAY	HOURS PER DAY
HT	HEIGHT
HV	HIGH VOLTAGE
HZ	HERTZ
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IMP	IMPEDANCE
IN	INCH
INCAN	INCANDESCENT
INSUL	INSULATION; INSULATED
INT	INTERIOR; INTERNAL
INV EL	INVERTED ELEVATION
J	JOULE; JUNCTION
JB	JUNCTION BOX
K	THOUSAND
KCMIL	THOUSAND CIRCULAR MILS
KHZ	KILOHERTZ
KK	KIRK KEY
KP	KEYPAD
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	LENGTH; LONG; LUMEN
LB	POUND; ELL CONDUIT BODY
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LLD	LAMP LUMEN DEPRECIATION
LO	LOCK OUT
LRA	LOCKED ROTOR AMPS
LT	LIGHT; LIQUID-TIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MA	MILLIAMPERE
MAG STR	MAGNETIC STARTER
MAN	MANUAL
MAT	MATERIAL
MATV	MASTER ANTENNA TELEVISION
MAX	MAXIMUM
MC	METAL CLAD CABLE; MOTOR CONTROLLER
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MCS	MOTOR CIRCUIT SWITCH
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANELBOARD
MED	MEDIUM
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE; METAL HALIDE; MAN-HOUR
MHZ	MEGAHERTZ
MI	MINERAL INSULATED
MIC	MICROPHONE
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOG	MOGUL
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEGAVOLT; MEDIUM VOLTAGE
MVA	MEGAVOLT AMPERES
MVAR	MEGAVOLT AMPERES REACTIVE
MW	MEGAWATT
N	NEUTRAL
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCATION
NF	NON-FUSED
NFS	NON-FUSED DISCONNECT
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON-METALLIC SHEATHED CABLE
NO	NUMBER; NORMALLY OPEN
NTS	NOT TO SCALE
O&P	OVERHEAD AND PROFIT
OC	ON CENTER; OVERCURRENT
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OL	OVERLOAD
OS&Y	OUTSIDE SCREW AND YOKE
OZ	OUNCE
P	POLE; PULL
PA	PUBLIC ADDRESS
PB	PUSH BUTTON; PULL BOX
PC	PHOTOCELL
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PL	PILOT LIGHT
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GUAGE
PT	POTENTIAL TRANSFORMER
PU	PER UNIT
PVC	POLYVINYL CHLORIDE
PWR	POWER
QUAN; QTY	QUANTITY
R	RESISTANCE; RELOCATED
RECEPT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RM	ROOM
RMC	RIGID METALLIC CONDUIT
RMS	ROOT MEAN SQUARE
RNC	RIGID NON-METALLIC CONDUIT
RT	RAINTIGHT
SCCR	SHORT-CIRCUIT CURRENT-RATING
SCHED	SCHEDULE
SCR	SHORT CIRCUIT RATING
SE	SERVICE ENTRACE; SERVICE EQUIPMENT
SEC	SECONDARY
SN	SOLID NEUTRAL
SP	SINGLE POLE
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPKR	SPEAKER
SPST	SINGLE POLE, SINGLE THROW
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCH
SS	STAINLESS STEEL; SAFETY SWITCH
S/S	START STOP
ST	SHUNT TRIP;
STD	STANDARD
SURF	SURFACE
SW	SWITCH
SWD	SWITCHING DUTY
SWBD	SWITCHBOARD
SQ YD	SQUARE YARD
SYM	SYMMETRICAL
T	TEMPERATURE; TRANFORMER
TB	TERMINAL BLOCK
TC	TIME CLOCK
TCC	TEMPERATURE CONTROLS CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TD	TIME DELAY
TELE	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
THD	TOTAL HARMONIC DISTORTION; THREAD
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TR	TAMPER RESISTANT
TTB	TELEPHONE TERMAINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UC	UNDER (CABINET OR COUNTER)
UF	UNDERGROUND FEEDER
UG	UNDERGROUND
UHF	ULTRA HIGH FREQUENCY
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT AMPERES
VAR	VOLT AMPERES REACTIVE
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VHF	VERY HIGH FREQUENCY
VOL	VOLUME
W	WIRE; WATT; WIDE
W/	WITH
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WM	"WIREMOLD" (SURFACE RACEWAY)
WP	WEATHERPROOF
WT	WEIGHT; WATERTIGHT
XFMR	TRANSFORMER
XFER	TRANSFER
Y	WYE
°	DEGREE
∆	DELTA
Ø	PHASE; DIAMETER
#	POUND; NUMBER
%	PERCENT
@	AT
~	APPROXIMATELY
'	FEET
"	INCHES

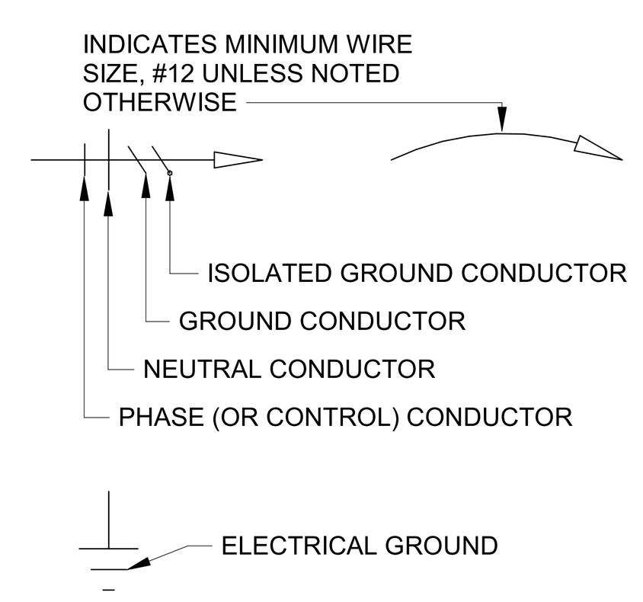
NOT ALL SYMBOLS ON THIS SHEET ARE USED IN THESE DOCUMENTS.

BRANCH CIRCUIT WIRING CHART

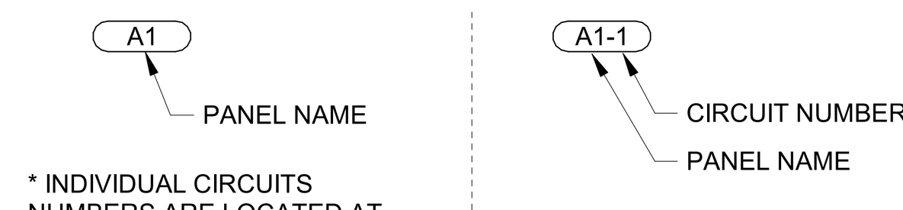
FEEDER CONDUCTOR SIZES SHOWN ON THESE BID DOCUMENTS HAVE BEEN SELECTED TO MAINTAIN LESS THAN 2% VOLTAGE DROP AT POTENTIAL FULL LOAD CONDITION (80% OF CIRCUIT SIZE) PER ANTICIPATED ROUTING AND CONDUCTOR LENGTH. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED TO MAINTAIN LESS THAN 3% VOLTAGE DROP FROM PANELBOARD TO LOAD BASED UPON 60% OF CIRCUIT SIZE LOAD CONDITIONS. THE FOLLOWING CHART REPRESENTS WIRE SIZES FOR A 20 AMP CIRCUIT BASED UPON CIRCUIT LENGTH IN ORDER TO MAINTAIN LESS THAN 3% VOLTAGE DROP FOR A 12 AMP LOAD. CONTRACTOR SHALL USE THIS CHART FOR BIDDING AND INSTALLATION GUIDELINES. FOR KNOWN CIRCUITS WITH LARGER LOAD CONDITIONS, CONTRACTOR SHALL ADJUST ACCORDINGLY. GROUND CONDUCTOR SIZES SHALL BE INCREASED SAME AS CIRCUIT CONDUCTORS, PER NEC. ADJUST RACEWAY SIZES ACCORDINGLY.

	BRANCH CIRCUIT CONDUCTOR LENGTH FOR 20 AMP CIRCUIT TO MAINTAIN LESS THAN 3% VOLTAGE DROP AT 12 AMP LOAD. ADJUST AS KNOWN CONDITIONS REQUIRE.					
WIRE SIZE	120V-1P	208V-1P	208V-3P	277V-1P	480V-3P	CONDUCTOR LENGTHS INDICATED ARE TO THE FIRST DEVICE (BUT MAINTAIN MAXIMUM 5% VOLTAGE DROP TO THE LAST DEVICE FOR KNOWN LOADS).
#12	0'-80'	0'-140'	0'-160'	0'-185'	0'-375'	
#10	81'-135'	141'-230'	161'-270'	186'-310'	376'-620'	
#8	136'-200'	231'-350'	271'-410'	311'-470'	621'-940'	
#6	201'-315'	351'-550'	411'-635'	471'-735'	941'-1475'	

TYPICAL WIRING DESIGNATIONS



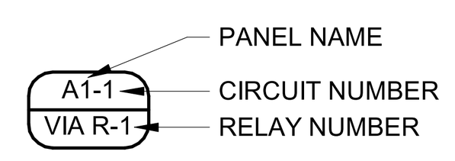
ROOM CIRCUIT DESIGNATIONS



* INDIVIDUAL CIRCUITS NUMBERS ARE LOCATED AT EACH DEVICE

ROOM CIRCUIT DESIGNATION SHOWN ABOVE APPLY TO EVERY DEVICE IN THE ROOM UNLESS NOTED OTHERWISE

ROOM CIRCUIT DESIGNATIONS WITH RELAY NUMBER



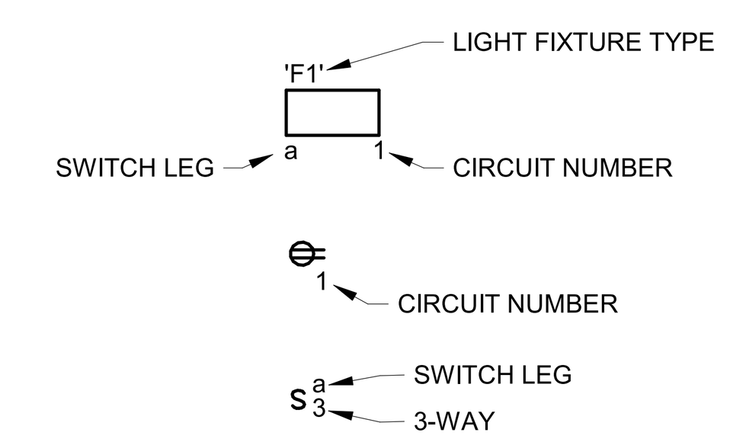
RACEWAYS

- CONDUIT, IN WALL OR CEILING
- CONDUIT, BELOW FLOOR
- CONDUIT, EXPOSED
- W — SURFACE RACEWAY ("WIREMOLD")
- CONDUIT, TURNING UP
- CONDUIT, TURNING DOWN
- CONDUIT, CAPPED
- UNDERFLOOR DUCT & JUNCTION BOX, SINGLE SYSTEM
- UNDERFLOOR DUCT & JUNCTION BOX, DUAL SYSTEM
- UNDERFLOOR DUCT & JUNCTION BOX, TRIPLE SYSTEM
- J — JUNCTION BOX
- P — PULL BOX

MISCELLANEOUS

- CLOCK (WALL)
- CLOCK (CEILING)
- BELL
- BUZZER
- THERMOSTAT
- ELECTRICAL GROUND

TYPICAL DEVICE DESIGNATIONS



CIRCUIT DESCRIPTIONS

CIRCUIT NUMBER:
PANEL-CIRCUIT NUMBER
(I.E. A1-1)

MULTIPLE INDIVIDUAL CIRCUIT NUMBERS:
PANEL-CIRCUIT NUMBER,CIRCUIT NUMBER,CIRCUIT NUMBER
(I.E. A1-1, A1-3)

2-POLE CIRCUIT NUMBER:
PANEL-CIRCUIT NUMBER/CIRCUIT NUMBER
(I.E. A1-1,3)

3-POLE CIRCUIT NUMBER:
PANEL-CIRCUIT NUMBER/CIRCUIT NUMBER/CIRCUIT NUMBER
(I.E. A1-1,3,5)

PANELS

- PANEL, FLUSH
- PANEL, SURFACE
- CONTROL PANEL (AS NOTED), FLUSH
- CONTROL PANEL (AS NOTED), SURFACE

POWER EQUIPMENT

- 1-PHASE MOTOR
- 3-PHASE MOTOR
- SF — FUSIBLE BOX COVER SWITCH
- ENCLOSED SWITCH, NON-FUSIBLE
- F — ENCLOSED SWITCH, FUSIBLE
- CB — ENCLOSED CIRCUIT BREAKER
- MANUAL MOTOR STARTER
- P — MANUAL MOTOR STARTER WITH PILOT LIGHT
- MAGNETIC MOTOR STARTER
- COMBINATION DISCONNECT & MAGNETIC MOTOR STARTER
- T — SMALL TRANSFORMER
- VFD — VARIABLE FREQUENCY DRIVE
- PUSHBUTTON
- UP/DOWN PUSHBUTTON
- UP/DOWN/STOP PUSHBUTTON

RECEPTACLES AND OUTLETS

- DUPLEX RECEPTACLE
- HORIZONTAL DUPLEX RECEPTACLE
- DOUBLE DUPLEX (QUAD) RECEPTACLE
- DUPLEX RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
- DOUBLE DUPLEX (QUAD) RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE
- HORIZONTAL GFCI DUPLEX RECEPTACLE
- DOUBLE DUPLEX (QUAD) GFCI RECEPTACLE
- GFCI DUPLEX RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
- DOUBLE DUPLEX (QUAD) GFCI RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
- WP — GFCI/ WEATHERPROOF DUPLEX RECEPTACLE
- SINGLE RECEPTACLE
- FLUSH FLOOR OUTLET, ONE DUPLEX RECEPTACLE UNLESS NOTED OTHERWISE
- PT — FIRE-RATED POKE-THRU, DUAL-SERVICE WITH ONE QUADRAPLEX RECEPTACLE & FOUR DATA JACKS UNLESS NOTED OTHERWISE
- PED — PEDESTAL-TYPE FLOOR OUTLET, ONE DUPLEX RECEPTACLE UNLESS NOTED OTHERWISE
- CEILING DROP CORD. 3#12 TYPE SO CORD WITH 2 DUPLEX RECEPTACLES AND KELLUMS GRIPS UNLESS NOTED OTHERWISE
- SPECIAL OUTLET OR EQUIPMENT CONNECTION (AS NOTED)
- FLUSH FLOOR BOX, DUAL-SERVICE WITH 4-GANGS AND TWO DUPLEX RECEPTACLES UNLESS NOTED OTHERWISE
- MULTIOUTLET ASSEMBLY, LENGTH INDICATED, 16" AFF UNLESS NOTED OTHERWISE
  - INDICATES VERTICAL RUN
- LAB TOP PEDESTAL OUTLET, GFCI-TYPE DUPLEX RECEPTACLE
- LAB TOP PEDESTAL OUTLET, GFCI-TYPE QUADRIPLEX RECEPTACLE
- LAB TOP PEDESTAL OUTLET,TWO GFCI-TYPE DUPLEX RECEPTACLES
- LAB TOP PEDESTAL OUTLET, TWO GFCI-TYPE QUADRIPLEX RECEPTACLES

LIGHT FIXTURES

- LIGHT, CEILING
- LIGHT, CEILING
- LIGHT, WALL
- EXIT SIGN, CEILING
- EXIT SIGN, WALL
- EXIT SIGN WITH DIRECTIONAL ARROW, CEILING
- EXIT SIGN WITH DIRECTIONAL ARROW, WALL
- EMERGENCY LIGHTING UNIT
- TRACK LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- › — LIGHT FIXTURE DIRECTIONAL AIMING INDICATOR
- NL — NIGHT LIGHT

SWITCHES

- S — SWITCH, SINGLE POLE
- S_2 — SWITCH, DOUBLE POLE
- S_3 — SWITCH, THREE WAY
- S_4 — SWITCH, FOUR WAY
- S_K — SWITCH, KEY OPERATED
- S_P — SWITCH, WITH PILOT LIGHT
- S_{WP} — SWITCH, WEATHERPROOF
- S_X — SWITCH, EXPLOSIONPROOF
- S_D — SWITCH, DIMMER
- S_{TS} — SWITCH, SPRING WOUND, INTERVAL TIME SWITCH
- S_{DT} — SWITCH, DIGITAL INTERVAL TIME SWITCH
- S_{LV} — SWITCH, LOW VOLTAGE
- LV — LOW-VOLTAGE TOUCHSCREEN LIGHTING CONTROL
- MT — MULTI-TECHNOLOGY CEILING OCCUPANCY SENSOR
- US — ULTRASONIC CEILING OCCUPANCY SENSOR
- PI — PASSIVE INFRARED CEILING OCCUPANCY SENSOR
- S1 — SINGLE POLE WALL OCCUPANCY SENSOR
- S2 — TWO POLE WALL OCCUPANCY SENSOR
- SD — COMBINATION WALL OCCUPANCY SENSOR AND DIMMER
- DL — DAYLIGHT SENSOR
- TC — TIMECLOCK
- PC — PHOTOCELL
- R — RELAY PANEL
- LC — LIGHTING CONTACTOR
- LRM — LIGHTING RELAY MODULE
- ALCR — AUTOMATIC LOAD CONTROL RELAY (LIGHTING)

FIRE ALARM SYSTEMS

- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR
- F — MANUAL PULL STATION
- FIRE ALARM WALL HORN-STROBE
- FIRE ALARM WALL STROBE
- FIRE ALARM CEILING STROBE
- FIRE ALARM CEILING HORN-STROBE
- FIRE ALARM CEILING SPEAKER
- FIRE ALARM BELL
- DH — ELECTRO-MAGNETIC DOOR HOLDER
- R — FIRE ALARM ADDRESSIBLE INTERFACE DEVICE.
- F — PHOTOELECTRIC SMOKE DETECTOR
- D — DUCT TYPE SMOKE DETECTOR
- D — DUCT TYPE SMOKE DETECTOR (SAMPLING TUBES SHOWN)
- H — HEAT DETECTOR
- FS — SPRINKLER FLOW SWITCH
- TS — SPRINKLER TAMPERSWITCH
- IAM — INDIVIDUAL ADDRESSABLE MODULE

TYPICAL MOUNTING HEIGHTS

DEVICE TYPE	HEIGHT
RECEPTACLE OUTLETS (GENERAL), TELEPHONE & DATA OUTLETS	16"
RECEPTACLE OUTLETS ABOVE 30" HIGH COUNTERTOPS, TELEPHONE AND DATA OUTLETS ABOVE 30" COUNTERTOPS	36"
RECEPTACLE OUTLETS ABOVE 36" HIGH COUNTERTOPS, TELEPHONE AND DATA OUTLETS ABOVE 36" COUNTERTOPS	42"
ELEVATOR AND HOISTWAY CONTROL BUTTONS	42" TO CENTER OF DEVICE BOX
CARD READERS, FIRE ALARM STATIONS, PUSH BUTTONS, THERMOSTATS, TOGGLE SWITCHES, WALL INTERCOM STATIONS, WALL TELEPHONE OUTLETS	48" TO TOP OF DEVICE BOX
SPECIAL PURPOSE OUTLETS	WITHIN 72" OF INTENDED USE.
FIRE ALARMS (GONGS, BELLS, HORNS, LIGHTS)	80", OR 6" BELOW CEILING, WHICHEVER IS LOWEST.
WALL LIGHTING OUTLETS	84" TO CENTER OF DEVICE BOX
CLOCKS	97" TO CENTER OF CLOCK, BUT AT LEAST 6" BETWEEN TOP OF CLOCK AND CEILING. ABOVE DOORS CENTER CLOCK BETWEEN TOP OF DOOR FRAME AND CEILING
BELLS, BUZZERS, CHIMES	96" TO CENTER OF DEVICE BOX,BUT AT LEAST 6" BELOW CEILING

NOTES:
1. MOUNTING HEIGHTS ARE TO BOTTOM OF DEVICE BOX UNLESS NOTED OTHERWISE.
2. COMPLY WITH ACCESSIBILITY CODE.

GENERAL NOTES:

1. COORDINATE LOCATIONS OF DEVICES TO BE INSTALLED IN CEILINGS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
2. 120 VOLT CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRALS.
3. CONTRACTOR SHALL COORDINATE WITH ALL TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS' WORK, DUE TO A LACK OF COORDINATION.
4. DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS).
5. COORDINATE AND VERIFY LOCATIONS OF DEVICES WITH BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.
6. WIRING TO ALL RECEPTACLES ON DEDICATED CIRCUITS SHALL BE A MINIMUM #10 AWG UNLESS OTHERWISE NOTED.
7. RECEPTACLES CONNECTED TO EMERGENCY CIRCUITS SHALL BE RED COLOR.
8. WIRING SHALL BE MINIMUM #12 AWG IN 3/4" EMT CONDUIT UNLESS OTHERWISE NOTED OR REQUIRED.
9. COORDINATE LOCATION OF RECEPTACLES AT ELECTRIC WATER COOLERS (EWC) WITH EWC MANUFACTURER. PROVIDE DUPLEX RECEPTACLE SO THAT IT IS CONCEALED BY EWC HOUSING.
10. LOW VOLTAGE PLENUM-RATED CABLING (FIRE ALARM, LIGHTING CONTROL, ETC.) SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS. FOR CABLES BEING ROUTED THROUGH AREAS WITH EXPOSED STRUCTURE OR INACCESSIBLE CEILINGS, INSTALL CABLES IN MINIMUM 1-INCH CONDUITS.
11. REPLACE EXISTING BLANK COVERPLATES WITH NEW. FINISH/MATERIAL TO MATCH THOSE USED FOR NEW DEVICES.
12. DEVICE BOXES SHALL BE FLUSH MOUNTED AND ALL RACEWAYS SHALL BE CONCEALED AS MUCH AS FEASIBLE. "FISH" EXISTING WALLS WHERE POSSIBLE. USE SURFACE RACEWAYS ONLY AS NECESSARY.
13. WHERE SURFACE DEVICE BOXES ARE PERMITTED, DO NOT USE PLASTER RINGS. USE EXPOSED WORK COVERS INTENDED FOR THE PURPOSE.
14. WHERE SURFACE CONDUIT OR EMT IS PERMITTED, DO NOT USE CONDUIT HANGERS LESS THAN 8-FEET AFF. USE ONE- OR TWO-HOLE STRAPS SO THAT NO SHARP EDGES PROTRUDE FROM THE WALL.
15. EXISTING CONCEALED RACEWAYS AND DEVICE BOXES MAY BE REUSED IN PLACE IF DEEMED CODE COMPLIANT AND IN GOOD CONDITION. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION.
16. PROVIDE 120V POWER CONNECTION TO MOTORIZED DAMPERS AT EXHAUST FANS.
17. PROVIDE FLUSH BACK BOXES AND CONCEALED RACEWAYS FOR THERMOSTATS. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
18. A MAXIMUM OF THREE SINGLE-PHASE CIRCUITS SHALL BE INSTALLED IN A SINGLE CONDUIT.
19. LOCATION OF LIGHT FIXTURES IN MECHANICAL AND EQUIPMENT ROOMS SHALL BE COORDINATED IN FIELD AND LOCATED TO PROVIDE THE BEST ILLUMINATION OF THE SPACE AND EQUIPMENT. COORDINATE WITH ENGINEER.
20. COORDINATE EXACT LOCATION OF FLOOR OUTLETS AND OUTLETS AT TV LOCATIONS AND SIMILAR LOCATIONS PRIOR TO ROUGH-IN. OUTLETS AT TV LOCATIONS SHALL BE INSTALLED IN A RECESSED WALL BOX. SEE T-SERIES DRAWINGS.
21. COORDINATE WORK WITH TELECOMMUNICATIONS DRAWINGS AND SPECIFICATIONS. SEE T-SERIES DRAWINGS FOR PATHWAYS AND ELECTRICAL WORK.
22. PROVIDE FIRESTOPPING AT PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
23. WARRANTIES REFERED TO ON THE DRAWINGS AND SPECIFICATIONS SHALL BEGIN AT THE DATE OF SUBSTANTIAL COMPLETION AT THE END OF THE PROJECT.
24. COORDINATE CORE DRILLING WITH STRUCTURAL ENGINEER.
25. CONTRACTOR SHALL COORDINATE OCCUPANCY SENSOR LOCATIONS AND ARRANGE FOR BEST OPERATION. PROVIDE HIGH-BAY OCCUPANCY SENSORS WHEN MOUNTED ABOVE 10'-0" AFF. COMMISSION AND COORDINATE OCCUPANCY SENSOR OPERATIONAL SETTINGS WITH OWNER DURING INSTALLATION. AT COMPLETION OF PROJECT AND AFTER OWNER OCCUPANCY, CONTRACTOR SHALL MAKE ONE READJUSTMENT PER SENSOR AS DIRECTED BY THE OWNER.
26. DEVICES ON WALLS SHALL BE INDIVIDUALLY FED FROM ABOVE (I.E. DO NOT INSTALL RACEWAYS HORIZONTALLY IN WALL UNLESS APPROVED).
27. INSTALL ABOVE-CEILING RACEWAYS AT LEAST 7-INCHES ABOVE CEILING, OR AS HIGH AS POSSIBLE, TO ALLOW FOR REMOVAL OF CEILING TILES AND LIGHTS. DO NOT INSTALL RACEWAYS OR CABLES IN FLUTES OF METAL ROOF DECK (TO AVOID MECHANICAL FASTENERS THAT ARE PENETRATING THE ROOF DECK).
28. DO NOT INSTALL RACEWAYS IN FLOOR SLABS. INSTALL RACEWAYS BELOW SLAB ON GRADE AT LEAST 6-INCHES BELOW BOTTOM OF SLAB. FEEDER CONDUITS SHALL BE AT LEAST 24-INCHES BELOW BOTTOM OF SLAB.
29. UNLESS NOTED OTHERWISE, JUNCTION BOXES AND PULL BOXES SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
30. PROVIDE A DEDICATED 120V CIRCUIT FROM NEAREST PANEL FOR EACH TEMPERATURE CONTROL PANEL (TCP). REFER TO MECHANICAL OR TEMPERATURE CONTROL DRAWINGS FOR LOCATIONS (LIKELY IN EACH MECHANICAL ROOM).
31. **DO NOT INSTALL RACEWAYS, BOXES, ETC. IN FLUTES OF METAL DECK, TO AVOID POTENTIAL DAMAGE FROM MECHANICAL FROM MECHANICAL FASTENERS OR NAIL PENETRATIONS.**
32. WHERE BRANCH CIRCUIT CHANGES ARE MADE TO EXISTING PANELBOARDS THAT REMAIN, PROVIDE AN UPDATED TYPE WRITTEN DIRECTORY WITH ALL CHANGES MADE DURING THIS PROJECT. (2)

GENERAL NOTES - DEMOLITION:

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. THESE DRAWINGS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. SOME CONDITIONS MAY HAVE BEEN CONCEALED DURING FIELD SURVEYS.
2. DEVICES AND EQUIPMENT SHOWN DASHED AND WITH HEAVY LINE WEIGHT ON DEMOLITION DRAWINGS SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL WIRING TO SOURCE, UNLESS OTHERWISE NOTED.
3. DISPOSAL OF DEMOLISHED MATERIALS SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
4. CONTRACTOR SHALL PROTECT EXISTING OWNER FACILITIES THAT ARE TO REMAIN DURING CONSTRUCTION. ANY FACILITIES DAMAGED OR DISCONNECTED BY CONTRACTOR SHALL BE IMMEDIATELY RESTORED TO PREVIOUS CONDITION.
5. OWNER SHALL HAVE "RIGHT OF FIRST REFUSAL" FOR DEMOLISHED ITEMS. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO BEGINNING WORK TO DETERMINE WHATE ITEMS THE OWNER MAY BE INTERESTED IN KEEPING. CONTRACTOR SHALL CAREFULLY REMOVE SUCH ITEMS AND DELIVER TO OWNER'S DESIGNATED STORAGE AREA. FOR ITEMS DEEMED OBSOLETE BY THE OWNER, CONTRACTOR SHALL IMMEDIATELY REMOVE SUCH ITEMS FROM THE PREMISES, UNLESS OTHERWISE NOTED.
6. FOR MECHANICAL EQUIPMENT BEING REMOVED, REMOVE ASSOCIATED DISCONNECTS, CONTROLLERS, WIRING, ETC. COMPLETE. VERIFY WITH MECHANICAL CONTRACTOR.
7. FOR EQUIPMENT OR DEVICES BEING REMOVED FROM WALLS THAT WILL REMAIN, REMOVE EXISTING DEVICE BOX AND PATCH WALL, UNLESS OTHERWISE REQUIRED OR INSTRUCTED. FINISH CONDITION SHALL SHOW NO INDICATION OF PREVIOUS INSTALLATION.
8. PROVIDE ADEQUATE SUPPORT FOR EXISTING CABLING/RACEWAYS ABOVE CEILING AS REQUIRED. REMOVE OBSOLETE CABLING, WIRING, RACEWAYS, ETC.
9. REMOVE ASSOCIATED ELECTRICAL FOR ANY EXISTING EQUIPMENT BEING REMOVED BY ANY TRADE. REFER TO ALL DRAWINGS.
10. CONTRACTOR SHALL REMOVE EXISTING DEVICES ON WALLS BEING REMOVED, WHETHER DEVICES ARE SHOWN OR NOT, UNLESS OTHERWISE INSTRUCTED.
11. COORDINATE SCHEDULING OF DEMOLITION WORK WITH OWNER AND TRADES.
12. PATCH EXISTING HOLES THROUGH WALLS AND FLOORS WHERE EXISTING RACEWAYS OR CABLES ARE REMOVED.
13. FOR DEMOLITION OF RECESSED PANELS AND SIMILAR EQUIPMENT, COORDINATE WALL PATCH WITH GENERAL CONTRACTOR PRIOR TO BEGINNING WORK.

GENERAL NOTES - "CLOUD" AND EXPOSED CEILINGS:

1. REVIEW REFLECTED CEILING PLANS AND BID DOCUMENTS TO UNDERSTAND CEILING CONSTRUCTION IN AREAS PRIOR TO BID.
2. IT IS THE INTENT THAT THE VISIBILITY OF EXPOSED ELECTRICAL WORK IN EXPOSED AREAS AROUND "CLOUD" CEILINGS IS KEPT TO A MINIMUM AND SHALL BE AS NEAT AND FINISHED AS POSSIBLE.
3. INSTALL RACEWAYS IN EXPOSED AREAS AS HIGH AS POSSIBLE. COORDINATE WITH TRADES.
4. EXTEND RACEWAYS EXITING WALLS TO ABOVE ACCESSIBLE CEILING (BEYOND THE EXPOSED AREA). WALL PENETRATIONS SHALL BE COORDINATED WITH GENERAL TRADES TO PROVIDE A FINISHED APPEARANCE. REFER TO ROUGH-IN DETAILS.
5. J-HOOKS SHALL BE CONCEALED ABOVE SUSPENDED CEILINGS. DO NOT USE WALL MOUNTED J-HOOKS WITH EXPOSED CABLES IN EXPOSED AREAS AROUND "CLOUD" CEILINGS. INSTEAD, UTILIZE PENDANT MOUNTED J-HOOKS WITH THREADED ROD ABOVE ACCESSIBLE CEILING AREA OR OTHER APPROVED METHOD. COORDINATE IN FIELD.
6. INSTALL CONDUITS, JUNCTION BOXES, AND COVER PLATES PRIOR TO PAINTING OF EXPOSED AREAS.
7. ELECTRICAL ITEMS SHALL BE PAINTED.
8. CABLE TRAYS SHALL HAVE PAINTABLE SOLID COVER ON BOTTOM.

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #2 03/15/2024

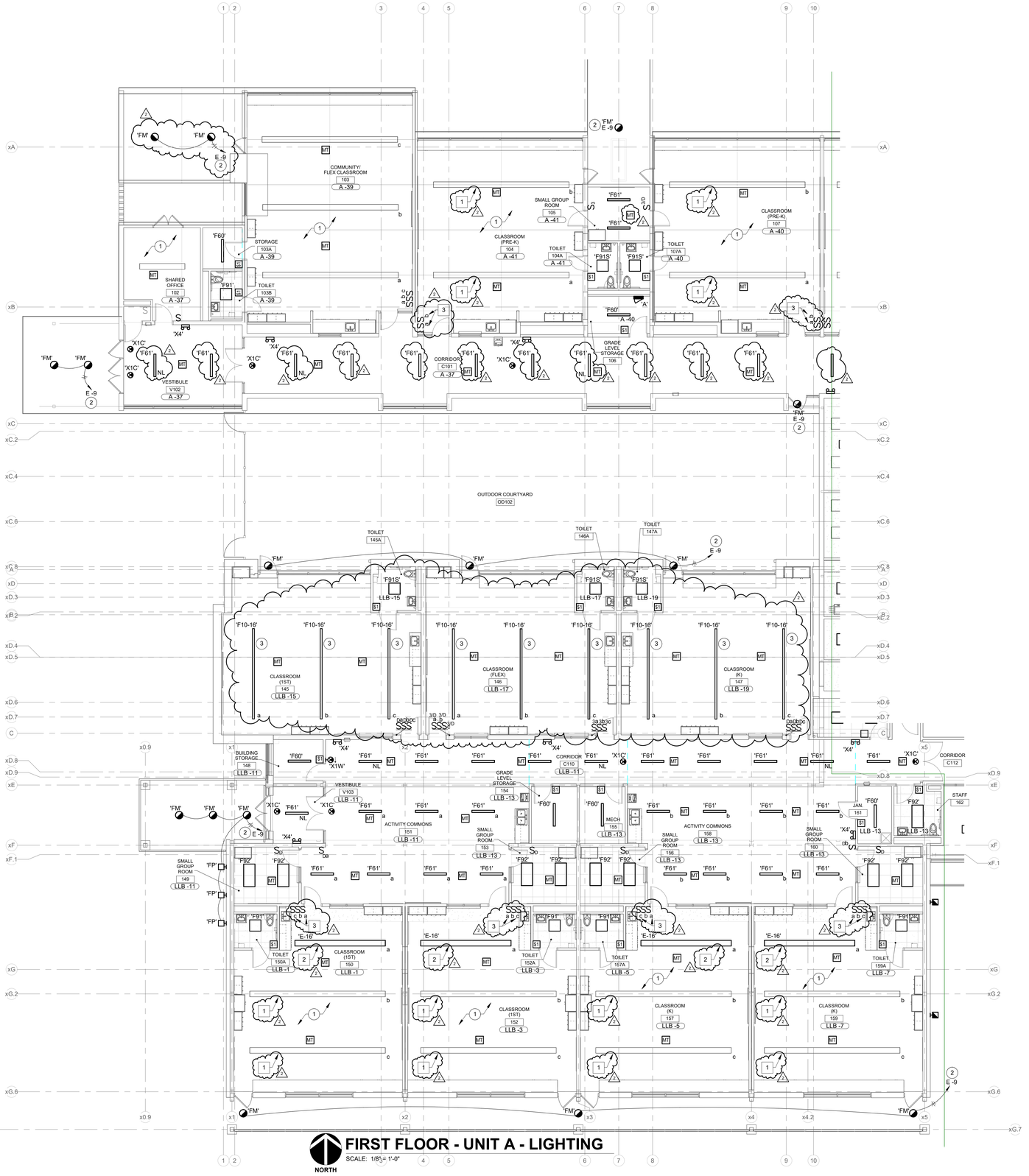
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
SYMBOLS, ABBREVIATIONS, & GENERAL NOTES - ELECTRICAL

CERTIFIED BY:
TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER
Timothy E. Hill
02/16/2024

DRAWING NUMBER
E001

PROJECT NUMBER
22054



RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. LIGHT FIXTURES CONTAINING PREFIX 'E' ARE RELOCATED FIXTURES. SEE E601 SHEET FOR SALVAGED LIGHT FIXTURE COUNT.
3. PLAN NOTES ANNOTATED INSIDE SQUARE SYMBOLS ARE PART OF ALTERNATE BID PACKAGE FOR LIGHTING.

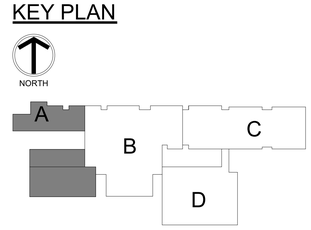
PLAN NOTES:

1. EXISTING CLASSROOM LIGHTING TO REMAIN. REWORK AS REQUIRED TO ADD OCCUPANCY SENSORS, MANUAL CONTROLS, MODIFICATIONS REQUIRED BY NEW CONSTRUCTION. REWIRE TO CIRCUIT INDICATED.
2. CONNECT TO CIRCUIT INDICATED THROUGH LIGHTING RELAY PANEL IN ELECTRICAL ROOM 118; SEE DRAWING E201C. SEE DRAWING E-403 FOR RELAY PANEL AND CONTROL DETAILS. COORDINATE LOCATION WITH ARCHITECT AND BLOCK COURSING.
3. FIXTURES TO BE INSTALLED 9'-0" AFF.

PLAN NOTES (ALTERNATE LIGHTING BID):

1. REMOVE LIGHT FIXTURE AND REPLACE WITH FIXTURE TYPE 'F10-24'. REPLACEMENT FIXTURE TO BE MOUNTED AT SAME HEIGHT AS FIXTURE REMOVED.
2. REMOVE LIGHT FIXTURE AND REPLACE WITH FIXTURE TYPE 'F10-16'. REPLACEMENT FIXTURE TO BE MOUNTED AT SAME HEIGHT AS FIXTURE REMOVED.
3. PROVIDE DIMMER SWITCHES INSTEAD OF TOGGLE SWITCHES.

KEY PLAN



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1 2 3 4

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REVISIONS:

2	ADDENDUM #2	03/15/2024

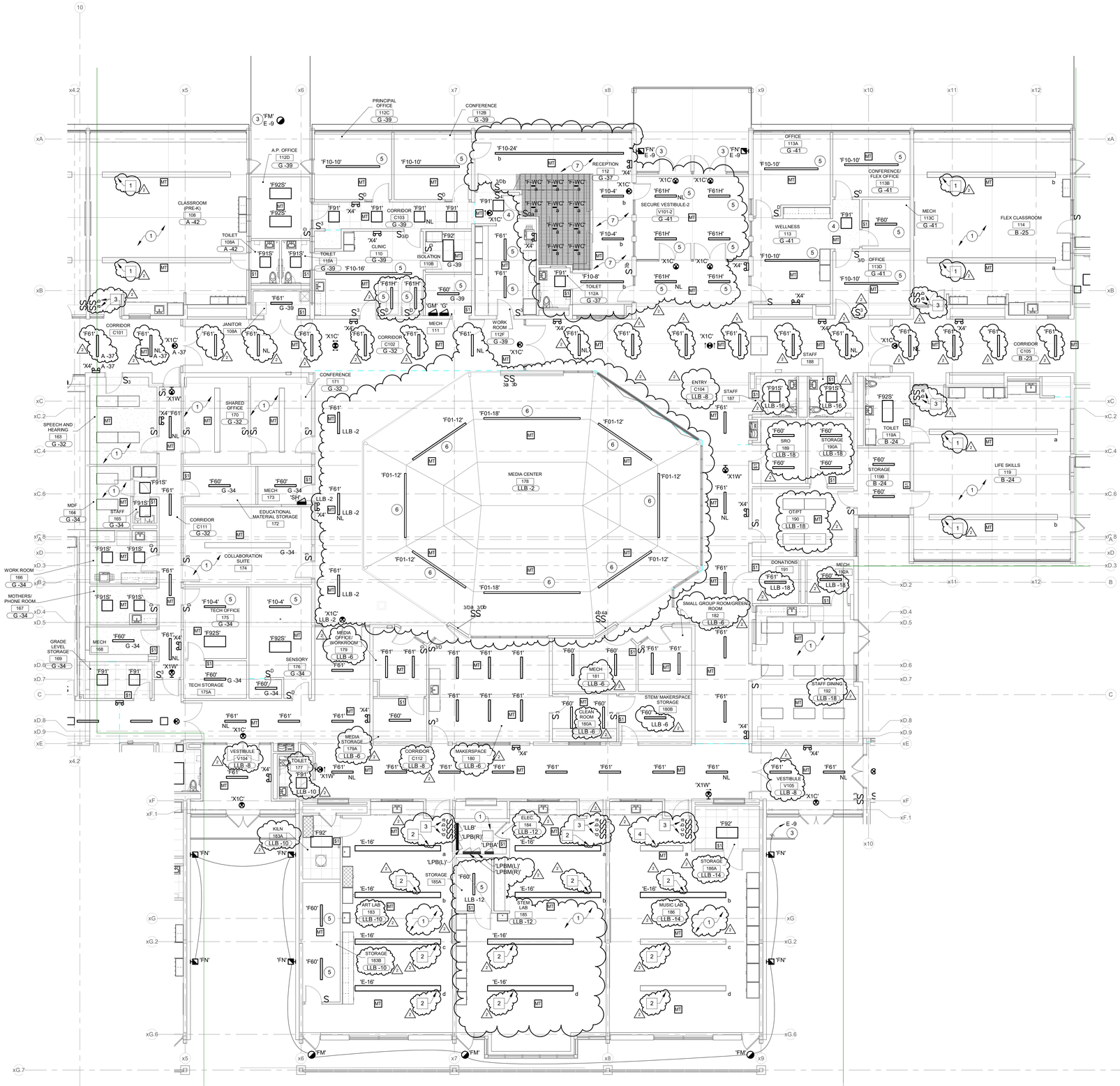
ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
FIRST FLOOR PLAN - UNIT A - LIGHTING

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E201A

PROJECT NUMBER
22054



RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. LIGHT FIXTURES CONTAINING PREFIX 'E' ARE RELOCATED FIXTURES. SEE E601 SHEET FOR SALVAGED LIGHT FIXTURE SCHEDULE.
3. PLAN NOTES ANNOTATED INSIDE SQUARE SYMBOLS ARE PART OF ALTERNATE BID PACKAGE FOR LIGHTING.

PLAN NOTES:

1. EXISTING LIGHTING TO REMAIN. REWORK AS REQUIRED TO ADD OCCUPANCY SENSORS, MANUAL CONTROLS, MODIFICATIONS REQUIRED BY NEW CONSTRUCTION. REWIRE TO CIRCUIT INDICATED.
2. CONNECT TO EXISTING CIRCUIT IN THIS AREA. PROVIDE NECESSARY WIRING.
3. CONNECT TO CIRCUIT INDICATED THROUGH LIGHTING RELAY PANEL IN ELECTRICAL ROOM 118; SEE DRAWING E201C. SEE DRAWING E-403 FOR RELAY PANEL AND CONTROL DETAILS. COORDINATE LOCATION WITH ARCHITECT AND BLOCK COURSING.
4. PROVIDE APPROPRIATE FIXTURE MOUNTING FOR CEILING TYPE.
5. MOUNT FIXTURE 8'-0" AFF.
6. MOUNT FIXTURE ON OUTSIDE OF WOODEN BEAM. BOTTOM OF LIGHT FIXTURE TO BE ALIGNED WITH BOTTOM OF WOODEN BEAM. ANY ASSOCIATED EXPOSED CONDUIT AND PULL BOXES MUST BE PAINTED TO MATCH SURROUNDING FINISHES.
7. BOTTOM OF ALL LIGHT FIXTURES IN THIS AREA TO BE ALIGNED WITH BOTTOM OF WOODEN CEILING (WOODWORKS GRILLE - FORTE) OVER RECEPTION DESK.

PLAN NOTES (ALTERNATE LIGHTING BID):

1. REMOVE LIGHT FIXTURE AND REPLACE WITH FIXTURE TYPE 'F10-24'. REPLACEMENT FIXTURE TO BE MOUNTED AT SAME HEIGHT AS FIXTURE REMOVED.
2. REMOVE LIGHT FIXTURE AND REPLACE WITH FIXTURE TYPE 'F10-16'. REPLACEMENT FIXTURE TO BE MOUNTED AT SAME HEIGHT AS FIXTURE REMOVED.
3. PROVIDE DIMMER SWITCHES INSTEAD OF TOGGLE SWITCHES.
4. REMOVE LIGHT FIXTURE AND REPLACE WITH FIXTURE TYPE 'F10-8'. REPLACEMENT FIXTURE TO BE MOUNTED AT SAME HEIGHT AS FIXTURE REMOVED.

FIRST FLOOR - UNIT B - LIGHTING

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

NORTH

KEY PLAN

NORTH

A | B | C | D

0 2 4 6 8 16 24 32

1 2 3 4

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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
FIRST FLOOR PLAN - UNIT B - LIGHTING

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E201B

PROJECT NUMBER
22054

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

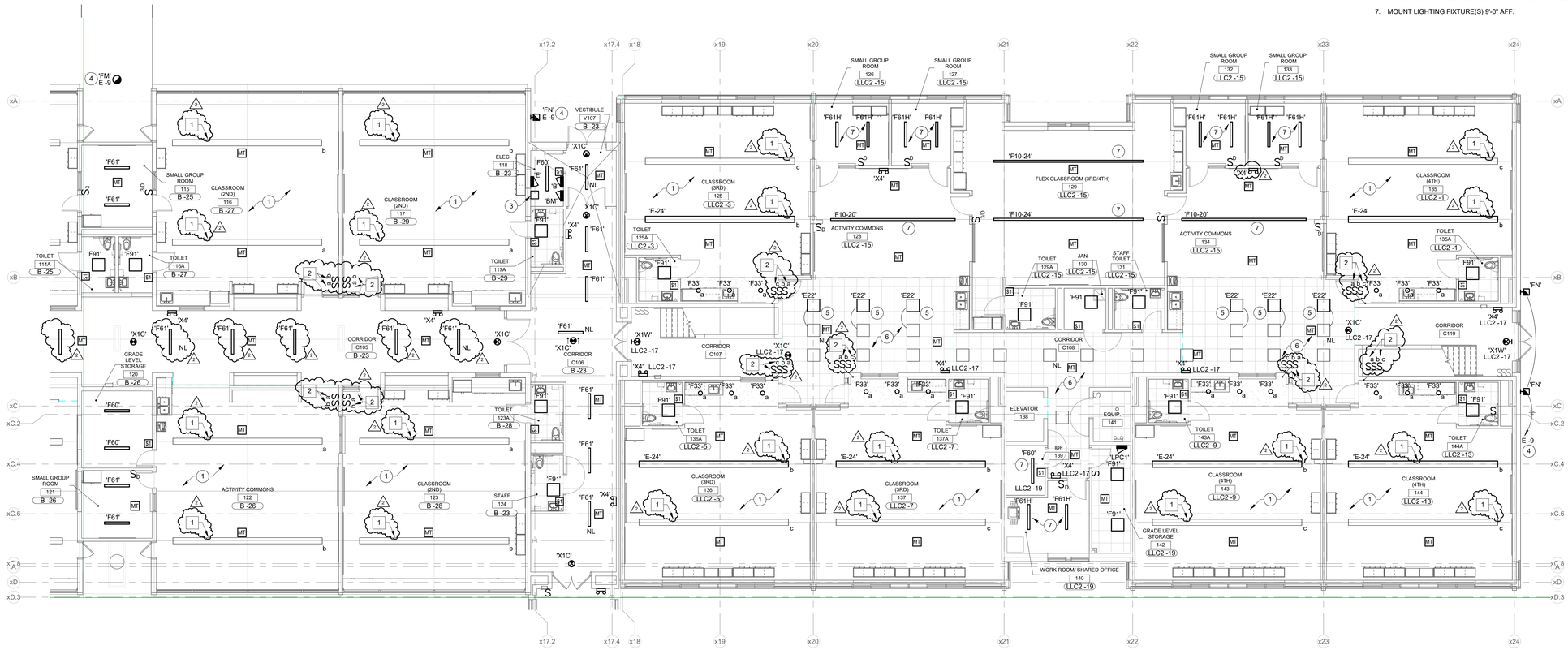
1. SEE E001 FOR GENERAL NOTES.
2. LIGHT FIXTURES CONTAINING PREFIX 'E' ARE RELOCATED FIXTURES. SEE E601 SHEET FOR SALVAGED LIGHT FIXTURE SCHEDULE.
3. PLAN NOTES ANNOTATED INSIDE SQUARE SYMBOLS ARE PART OF ALTERNATE BID PACKAGE FOR LIGHTING. (1)

(#) PLAN NOTES:

1. EXISTING CLASSROOM LIGHTING TO REMAIN. REWORK AS REQUIRED TO ADD OCCUPANCY SENSORS, MANUAL CONTROLS, MODIFICATIONS REQUIRED BY NEW CONSTRUCTION. REWIRE TO CIRCUIT INDICATED.
2. CONNECT TO EXISTING CIRCUIT IN THIS AREA. PROVIDE NECESSARY WIRING.
3. RELAY PANEL TO CONTROL EXTERIOR LIGHT FIXTURES. SEE DRAWING E-403 FOR RELAY PANEL AND CONTROL DETAILS.
4. CONNECT TO CIRCUIT INDICATED THROUGH LIGHTING RELAY PANEL IN ELECTRICAL ROOM 118; THIS DRAWING. SEE DRAWING E-403 FOR RELAY PANEL AND CONTROL DETAILS. COORDINATE LOCATION WITH ARCHITECT AND BLOCK COURSING.
5. CONNECT LIGHT FIXTURE TO EXISTING CIRCUIT IN THIS AREA.
6. EXISTING CORRIDOR LIGHTING TO REMAIN. REWORK AS REQUIRED TO ADD OCCUPANCY SENSORS, MODIFICATIONS REQUIRED BY NEW CONSTRUCTION. REWIRE TO EXISTING CIRCUIT IN THE AREA.
7. MOUNT LIGHTING FIXTURE(S) 9'-0" AFF.

(#) PLAN NOTES (ALTERNATE LIGHTING BID):

1. REMOVE LIGHT FIXTURE AND REPLACE WITH FIXTURE TYPE 'F10-24'. REPLACEMENT FIXTURE TO BE MOUNTED AT SAME HEIGHT AS FIXTURE REMOVED.
2. PROVIDE DIMMER SWITCHES INSTEAD OF TOGGLE SWITCHES.

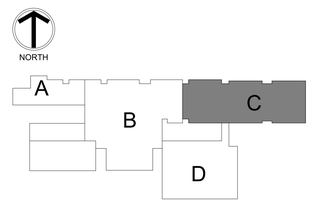


FIRST FLOOR - UNIT C - LIGHTING

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

NORTH

KEY PLAN



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D&A #22054

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Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project. They are not intended to describe the complete construction of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction required.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
FIRST FLOOR PLAN - UNIT C - LIGHTING

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E201C

PROJECT NUMBER
22054

RENOVATION LEGEND:

WORK TO BE INSTALLED

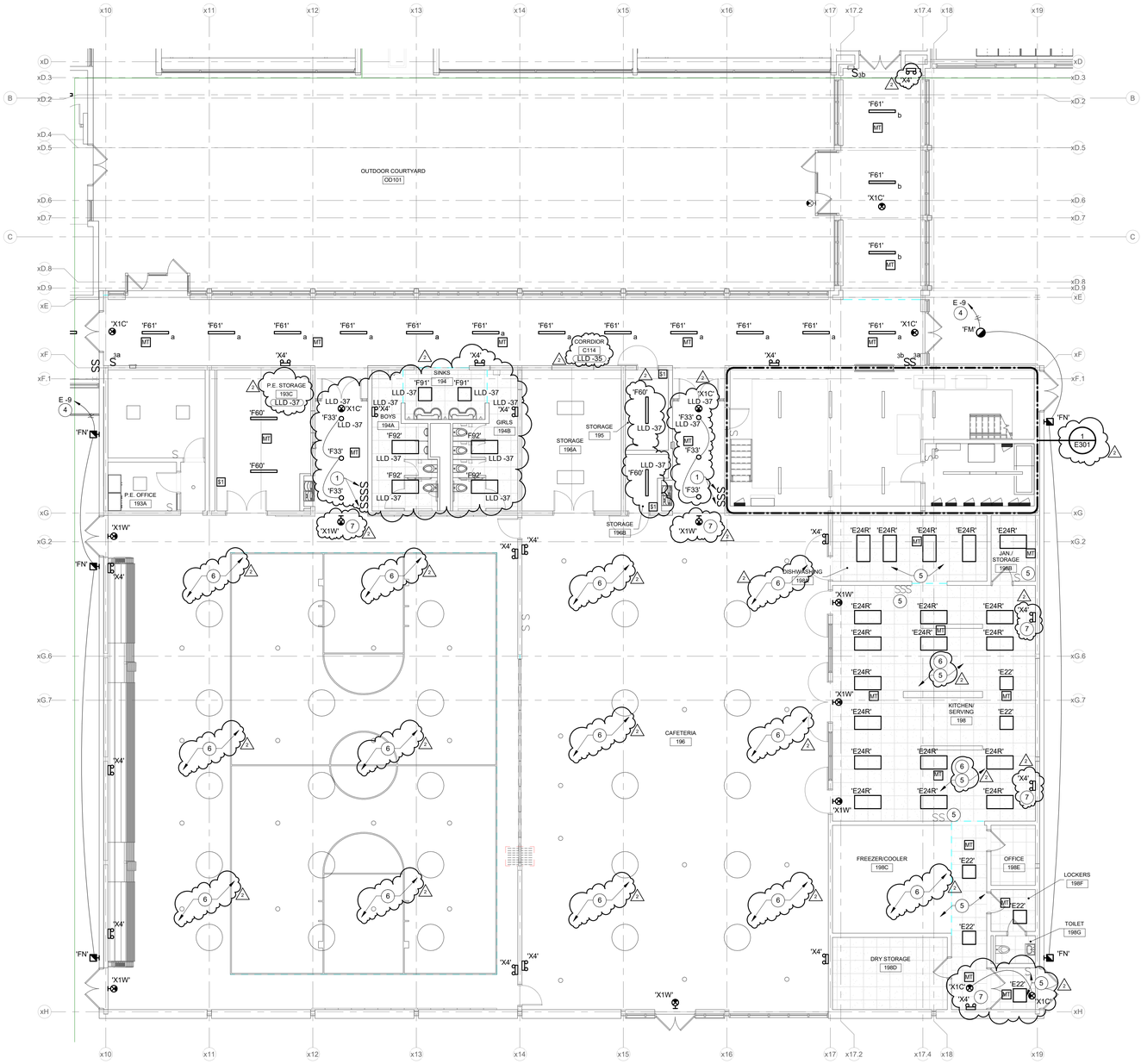
WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. LIGHT FIXTURES CONTAINING PREFIX 'E' ARE RELOCATED FIXTURES. SEE E601 SHEET FOR SALVAGED LIGHT FIXTURE SCHEDULE.

(#) PLAN NOTES:

1. RELOCATED COURT LIGHTING CONTROLS. RECONNECT TO DESIGNATED LIGHTS AND CIRCUITS. PROVIDE NEW DEVICES AND NECESSARY WIRING.
2. NEW LIGHTING CONTROLS IN THIS AREA. CONNECT TO EXISTING CIRCUITS AND PROVIDE NECESSARY WIRING.
3. CONNECT TO EXISTING CIRCUIT IN THIS AREA. PROVIDE NECESSARY WIRING.
4. CONNECT TO CIRCUIT INDICATED THROUGH LIGHTING RELAY PANEL IN ELECTRICAL ROOM 118; SEE DRAWING E201C. SEE DRAWING E-403 FOR RELAY PANEL AND CONTROL DETAILS. COORDINATE LOCATION WITH ARCHITECT AND BLOCK COURSING.
5. REWORK AS REQUIRED TO ADD OCCUPANCY SENSORS AND MODIFICATIONS REQUIRED BY NEW CONSTRUCTION. REWIRE TO EXISTING CIRCUIT IN THE AREA. PROVIDE NEW LIGHT SWITCHES.
6. ALL NEW EMERGENCY LIGHTS AND EXIT SIGNS IN THIS ARE TO BE CONNECTED TO EXISTING CIRCUITS.
7. RELOCATED EXIT SIGN OR EMERGENCY LIGHT. REPLACE EXISTING FIXTURE WITH FIXTURE SPECIFIED.

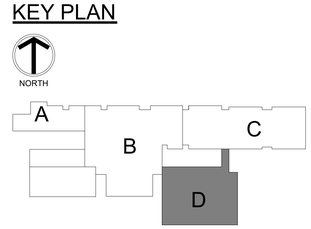


FIRST FLOOR - UNIT D - LIGHTING

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

NORTH

KEY PLAN



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PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, and the general requirements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for the satisfactory performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT D - LIGHTING

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

E201D

PROJECT NUMBER

22054

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

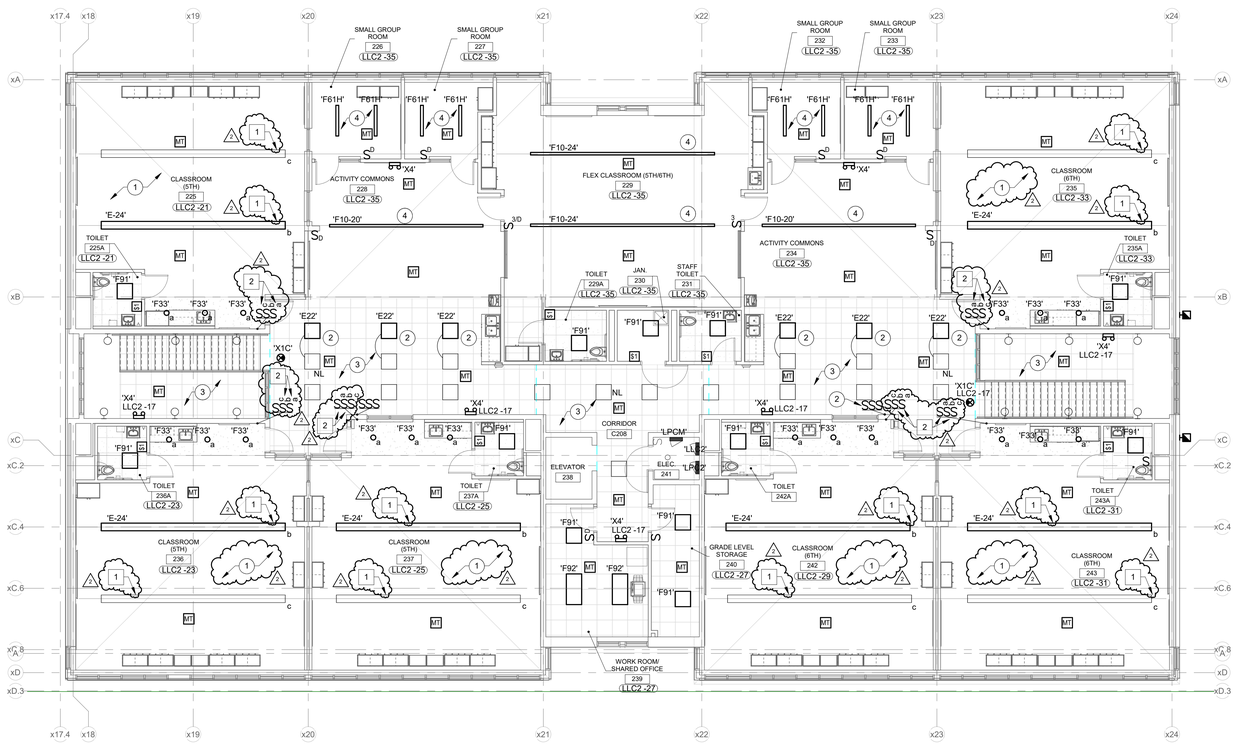
1. SEE E001 FOR GENERAL NOTES.
2. LIGHT FIXTURES CONTAINING PREFIX 'E' ARE RELOCATED FIXTURES. SEE E601 SHEET FOR SALVAGED LIGHT FIXTURE SCHEDULE.
3. PLAN NOTES ANNOTATED INSIDE SQUARE SYMBOLS ARE PART OF ALTERNATE BID PACKAGE FOR LIGHTING.

PLAN NOTES:

1. EXISTING CLASSROOM LIGHTING TO REMAIN. REWORK AS REQUIRED TO ADD OCCUPANCY SENSORS, MANUAL CONTROLS, MODIFICATIONS REQUIRED BY NEW CONSTRUCTION. REWIRE TO CIRCUIT INDICATED.
2. CONNECT LIGHT FIXTURE TO EXISTING CIRCUIT IN THIS AREA.
3. EXISTING CORRIDOR LIGHTING TO REMAIN. REWORK AS REQUIRED TO ADD OCCUPANCY SENSORS, MODIFICATIONS REQUIRED BY NEW CONSTRUCTION. REWIRE TO EXISTING CIRCUIT IN THE AREA.
4. MOUNT LIGHTING FIXTURE(S) 9'-0" AFF.

PLAN NOTES (ALTERNATE LIGHTING BID):

1. REMOVE LIGHT FIXTURE AND REPLACE WITH FIXTURE TYPE 'F10-24'. REPLACEMENT FIXTURE TO BE MOUNTED AT SAME HEIGHT AS FIXTURE REMOVED.
2. PROVIDE DIMMER SWITCHES INSTEAD OF TOGGLE SWITCHES.



SECOND FLOOR - UNIT C - LIGHTING

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

NORTH

KEY PLAN

NORTH

A B C D

0 2 4 6 8 16 24 32

1 2 3 4

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PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION RENOVATIONS TO L. C. SCHMITT ELEMENTARY

2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction required for the project's completion.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction work for the project.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:

SECOND FLOOR PLAN - UNIT C - LIGHTING

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

E202C

PROJECT NUMBER

22054

RENOVATION LEGEND:

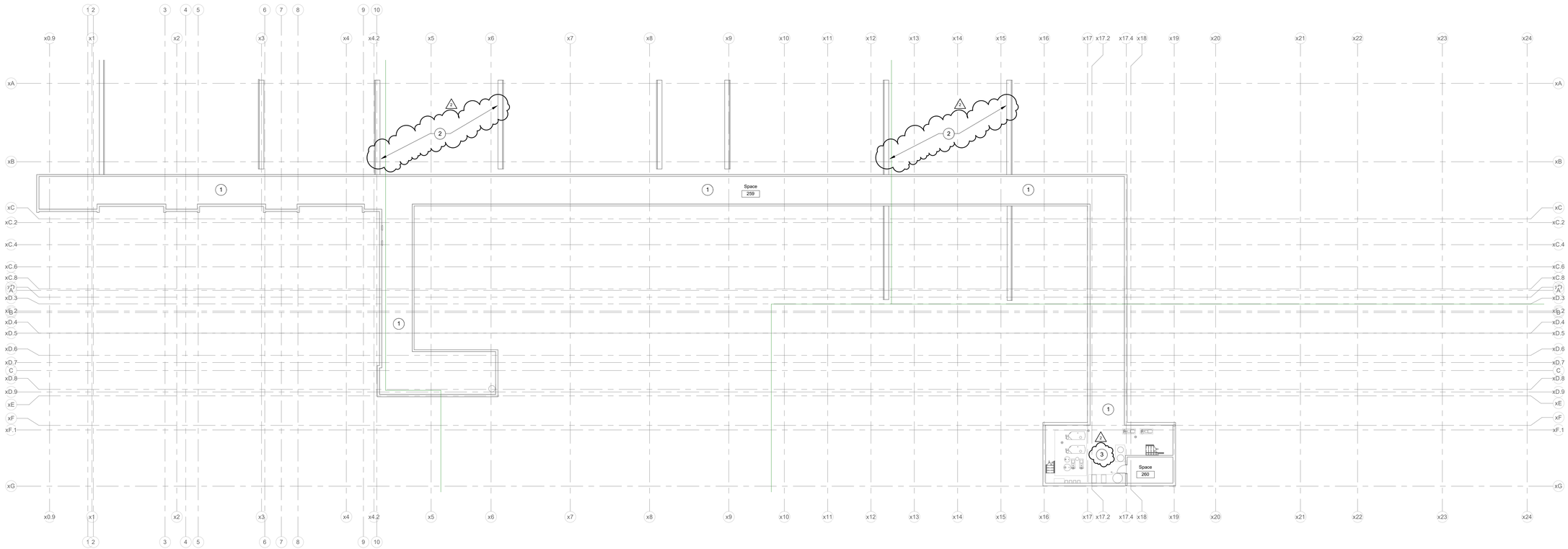
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. UTILITY TUNNEL. EXISTING ELECTRICAL DEVICES, WIRING, FEEDERS SHALL REMAIN UNLESS OTHERWISE NOTED.
2. TYPICAL EXISTING PIPE AND CONDUIT TRENCH IN FIRST FLOOR SLAB TO REMAIN. REWORK UTILITIES AS REQUIRED.
3. BOILER ROOM. SEE E301.

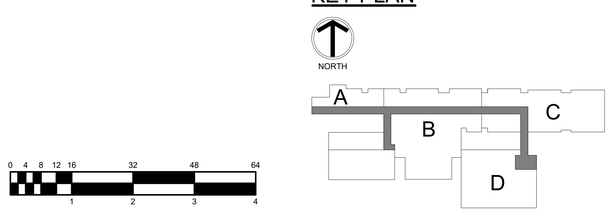


TUNNEL LEVEL - POWER

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

NORTH

KEY PLAN



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Indianapolis, IN 46204
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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings are not intended to completely describe all work required for full performance and completion of the requirements of the Contract.
The Contractor shall furnish all general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
TUNNEL PLAN - POWER

CERTIFIED BY:
TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E210

PROJECT NUMBER
22054

RENOVATION LEGEND:

WORK TO BE INSTALLED

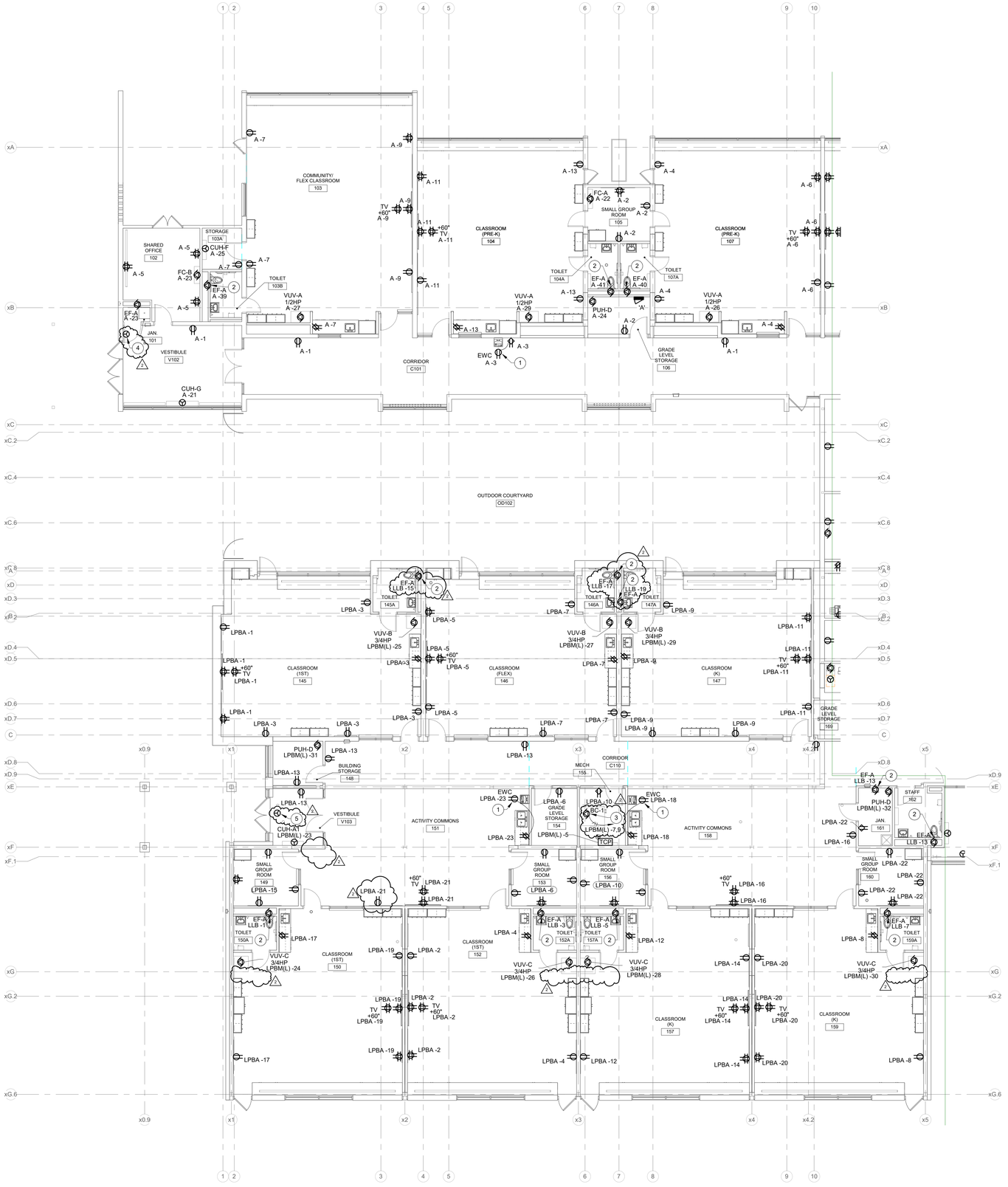
WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. FEED FROM LOAD SIDE OF NEAREST GFCI RECEPTACLE.
2. EXHAUST FAN TO BE CONNECTED TO LIGHTING CIRCUIT AND CONTROLS IN THIS AREA. SEE E200 SERIES.
3. ELECTRICAL CONTRACTOR TO PROVIDE COMBINATION MOTOR STARTER AND DISCONNECT FOR BLOWER COIL.
4. EXISTING DOOR ACCESS CONTROLS TO REMAIN. REPLACE EXISTING 120V CIRCUIT FROM NEW PANEL 'A'.
5. PROVIDE A DEDICATED 120V CIRCUIT FOR DOOR ACCESS CONTROLS FROM PANEL 'LPBA'.



FIRST FLOOR - UNIT A - POWER

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

NORTH

0 2 4 6 8 16 24 32

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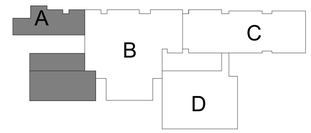
KEY PLAN

NORTH



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PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, and the approximate location and size of the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

In addition to the architectural scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT A - POWER

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

E211A

PROJECT NUMBER

22054

RENOVATION LEGEND:

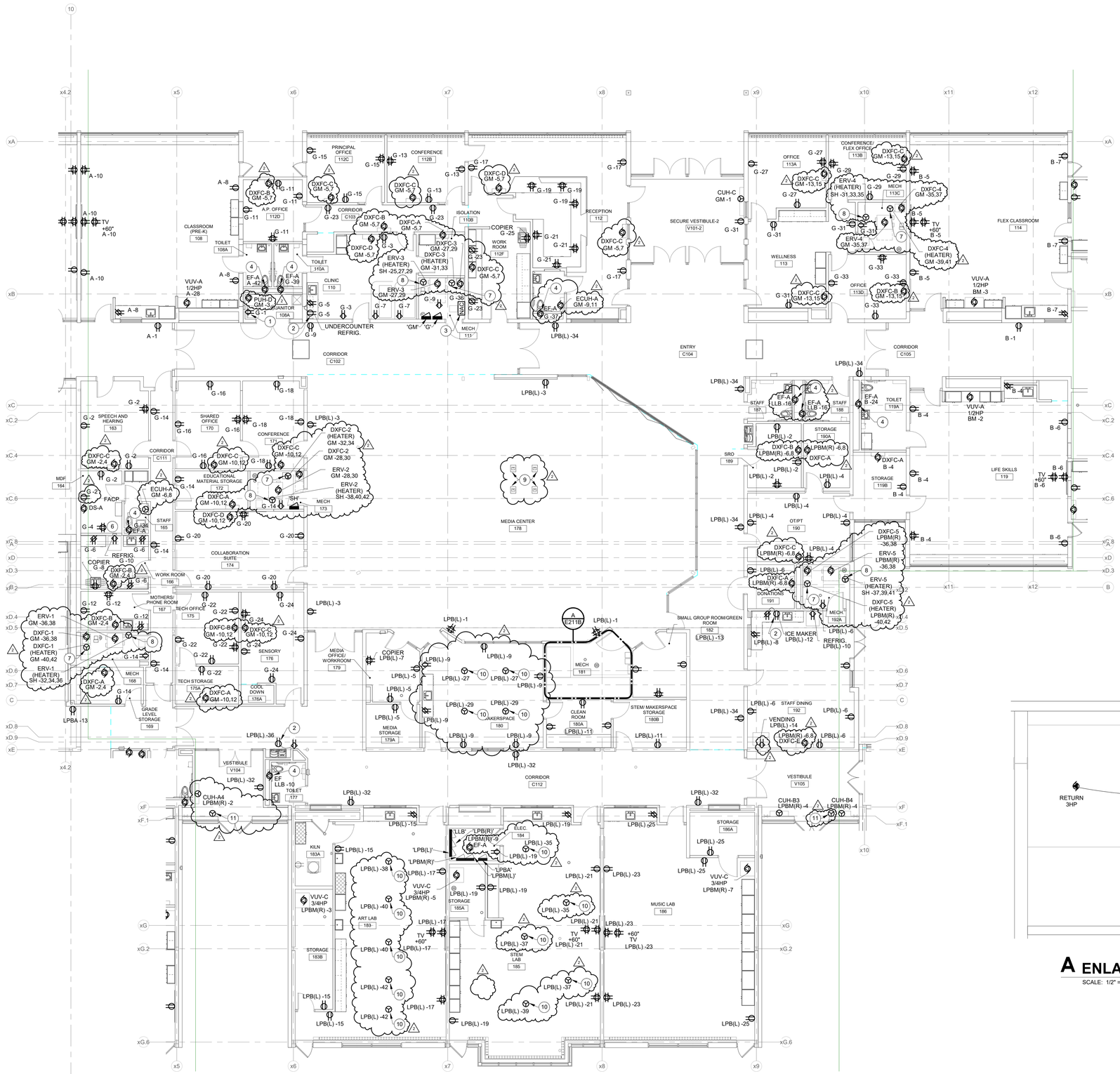
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.
2. PROVIDE A LOCAL ON/OFF SWITCH AT EACH DXFC, ERV, AND BSB MECHANICAL UNIT.

PLAN NOTES:

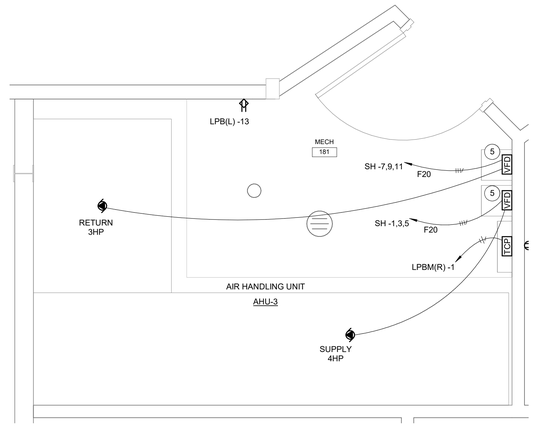
1. INSTALL DEVICE 36 INCH ABOVE FINISH FOR WASHER. COORDINATE WITH PLUMBING.
2. FEED FROM LOAD SIDE OF NEAREST GFCI RECEPTACLE.
3. RELOCATED EXISTING NOTIFICATION APPLIANCE CIRCUIT PANEL. PANEL TO BE RECONNECTED TO ALL PREVIOUSLY SERVED FIRE ALARM DEVICES. CONNECT TO SPECIFIED PANELBOARD AND CIRCUIT.
4. EXHAUST FAN TO BE CONNECTED TO LIGHTING CIRCUIT AND CONTROLS IN THIS AREA. SEE E200 SERIES.
5. VFD's PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. E.C. TO PROVIDE SUPPORT RACKS IF NECESSARY. E.C. TO DO ALL WIRING.
6. PROVIDE A DEDICATED 120V/1P RECEPTACLE INSIDE TELECOMMUNICATIONS RACK.
7. PROVIDE A DEDICATED 20A, 208V-1Φ CIRCUIT TO DXFC ELECTRIC DUCT HEATER. PROVIDE LOCAL ON/OFF SWITCH AT HEATER.
8. PROVIDE A DEDICATED 20A, 480V-3Φ CIRCUIT TO ERV ELECTRIC DUCT HEATER. HEATER HAS DOOR INTERLOCK DISCONNECT.
9. ALL EXISTING FLOOR BOXES IN THIS AREA TO REMAIN.
10. PROVIDE A HUBBELL #HDL25123GF220M1 CORD REEL. ALIGN WITH PROPOSED STUDENT DESK LAYOUT. ADJUST CORD LENGTH AS DIRECTED. PROVIDE RECEPTACLE ON CEILING FOR FOR CORD REEL PLUG IN.
11. EXISTING DOOR ACCESS CONTROLS TO REMAIN. REPLACE EXISTING 120V CIRCUIT FROM PANEL 'A'.



FIRST FLOOR - UNIT B - POWER

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

NORTH

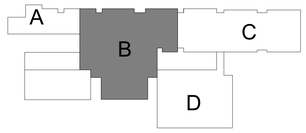


A ENLARGED MECH 181 - POWER

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

KEY PLAN

NORTH



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PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project. They are intended to describe the architectural features of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
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DRAWING TITLE:

FIRST FLOOR PLAN - UNIT B - POWER

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

E211B

PROJECT NUMBER

22054

RENOVATION LEGEND:

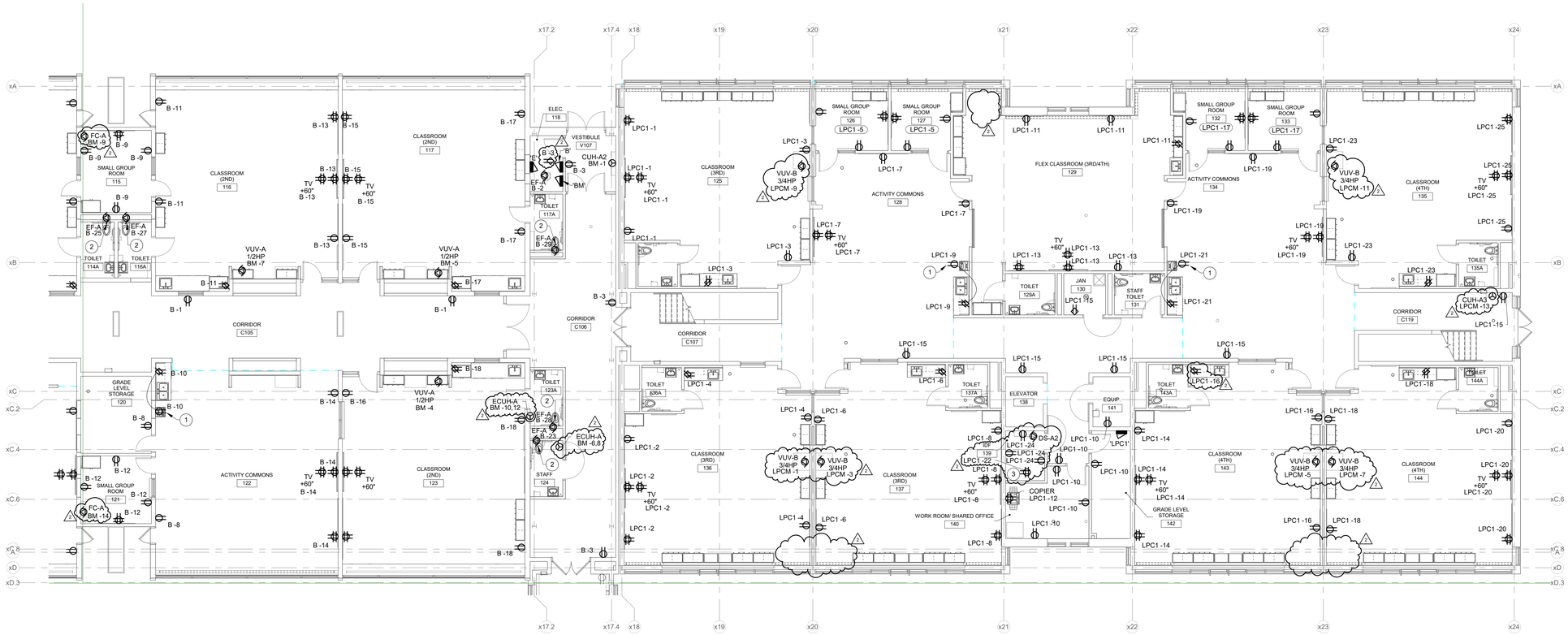
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. FEED FROM LOAD SIDE OF NEAREST GFCI RECEPTACLE.
2. EXHAUST FAN TO BE CONNECTED TO LIGHTING CIRCUIT AND CONTROLS IN THIS AREA. SEE E200 SERIES.
3. PROVIDE A DEDICATED 120V/1P RECEPTACLE INSIDE TELECOMMUNICATIONS RACK.

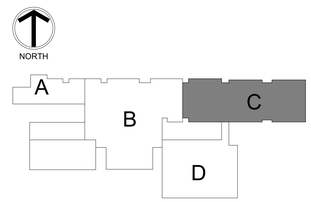


FIRST FLOOR - UNIT C - POWER

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

NORTH

KEY PLAN



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D&A #22054

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Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction and materials to be employed.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction work of the project.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT C - POWER

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

E211C

PROJECT NUMBER

22054

RENOVATION LEGEND:

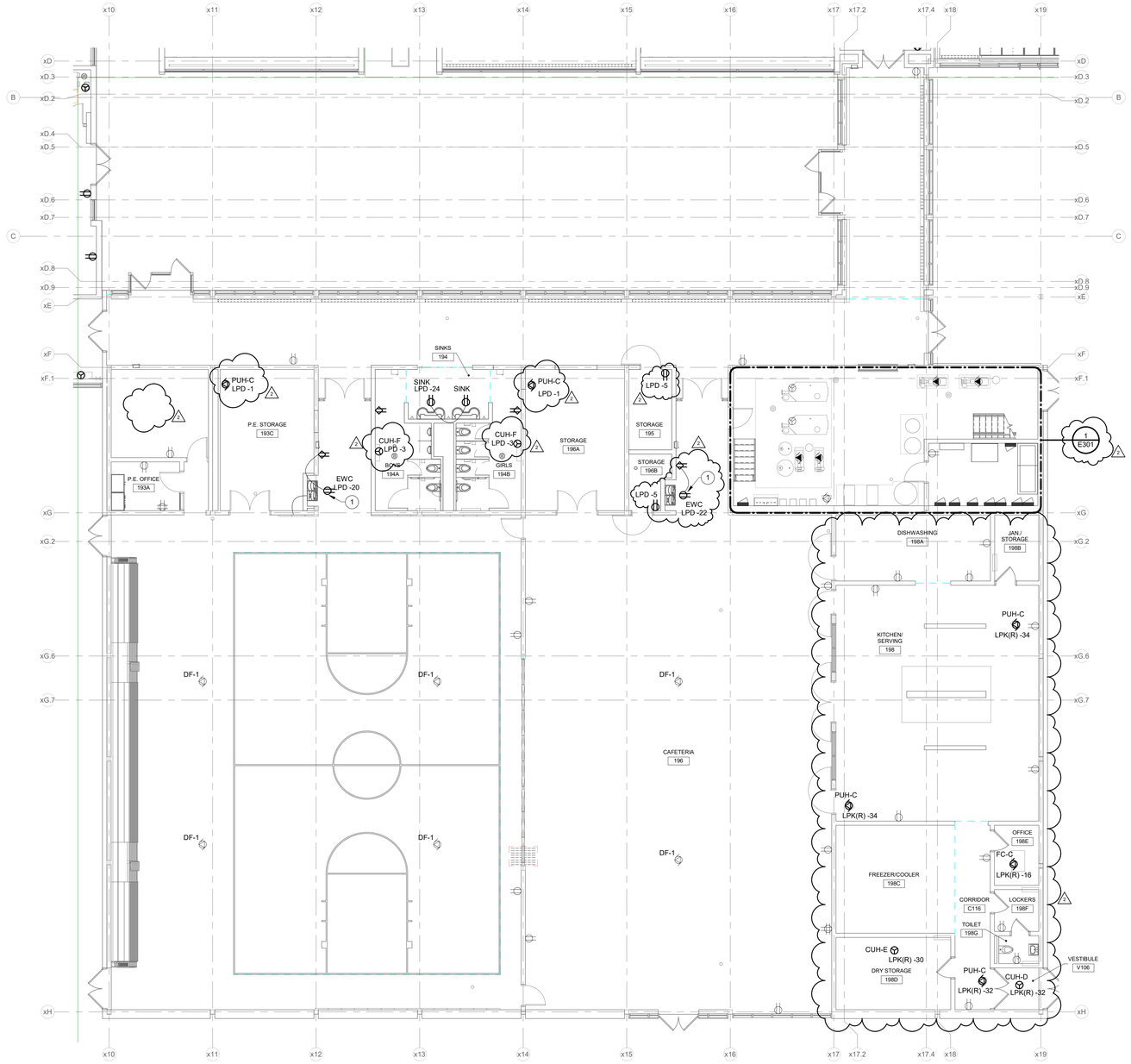
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. FEED FROM LOAD SIDE OF NEAREST GFCI RECEPTACLE.



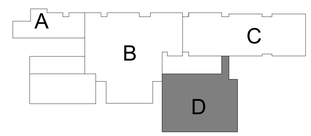
FIRST FLOOR - UNIT D - POWER

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

NORTH

KEY PLAN

NORTH



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Fax: (317) 638-8725

PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The Contract Documents are complementary and describe all work required for full performance and completion of the requirements of the Contract.
The Trade Contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT D - POWER

CERTIFIED BY:

TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

E211D

PROJECT NUMBER

22054

RENOVATION LEGEND:

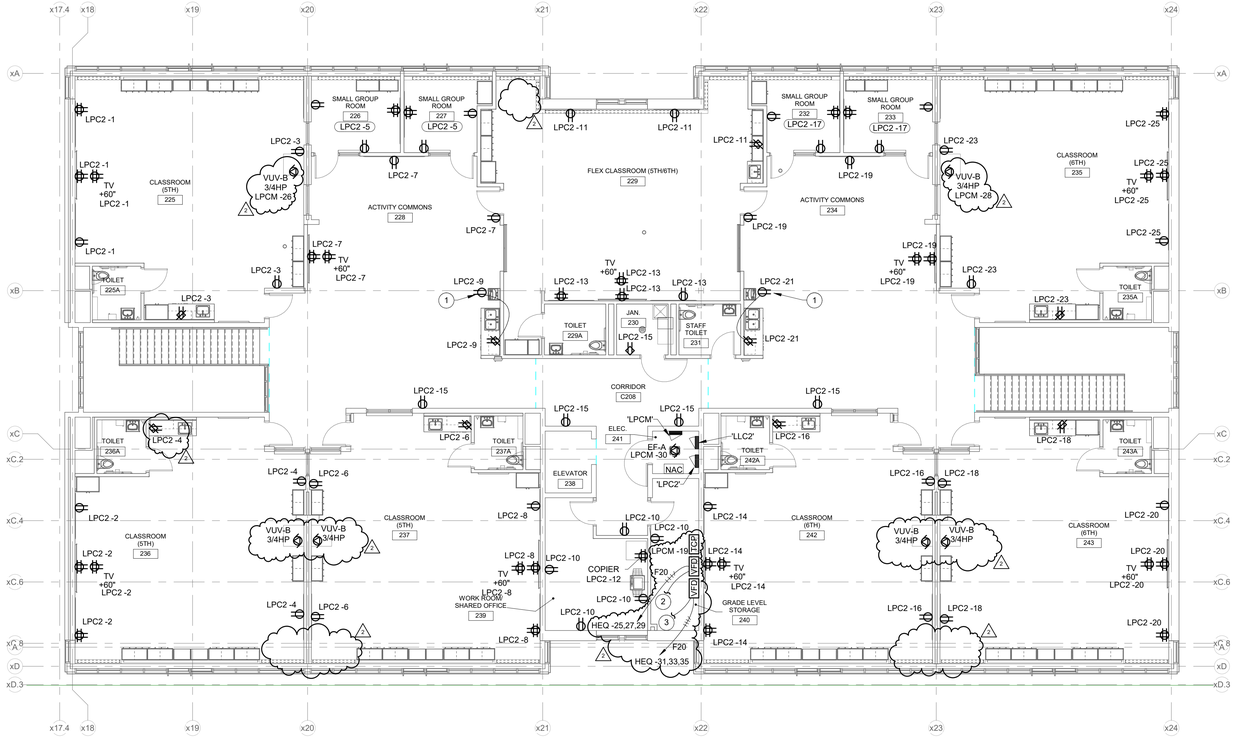
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. FEED FROM LOAD SIDE OF NEAREST GFCI RECEPTACLE.
2. CONTROL WIRING TO AIR HANDLING UNIT (AHU-4) SUPPLY FAN ON UNIT C ROOF. 3#12, 1#12 GND, 3/4" C.
3. CONTROL WIRING TO AIR HANDLING UNIT (AHU-4) RETURN FAN ON UNIT C ROOF. 3#12, 1#12 GND, 3/4" C.

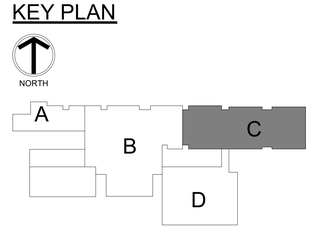


SECOND FLOOR - UNIT C - POWER

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

NORTH

KEY PLAN



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D&A #22054

R.E. Dimond and Associates, Inc. Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, and the major components and the type of structural, mechanical and electrical systems.
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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
SECOND FLOOR PLAN - UNIT C - POWER

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E212C

PROJECT NUMBER
22054

RENOVATION LEGEND:

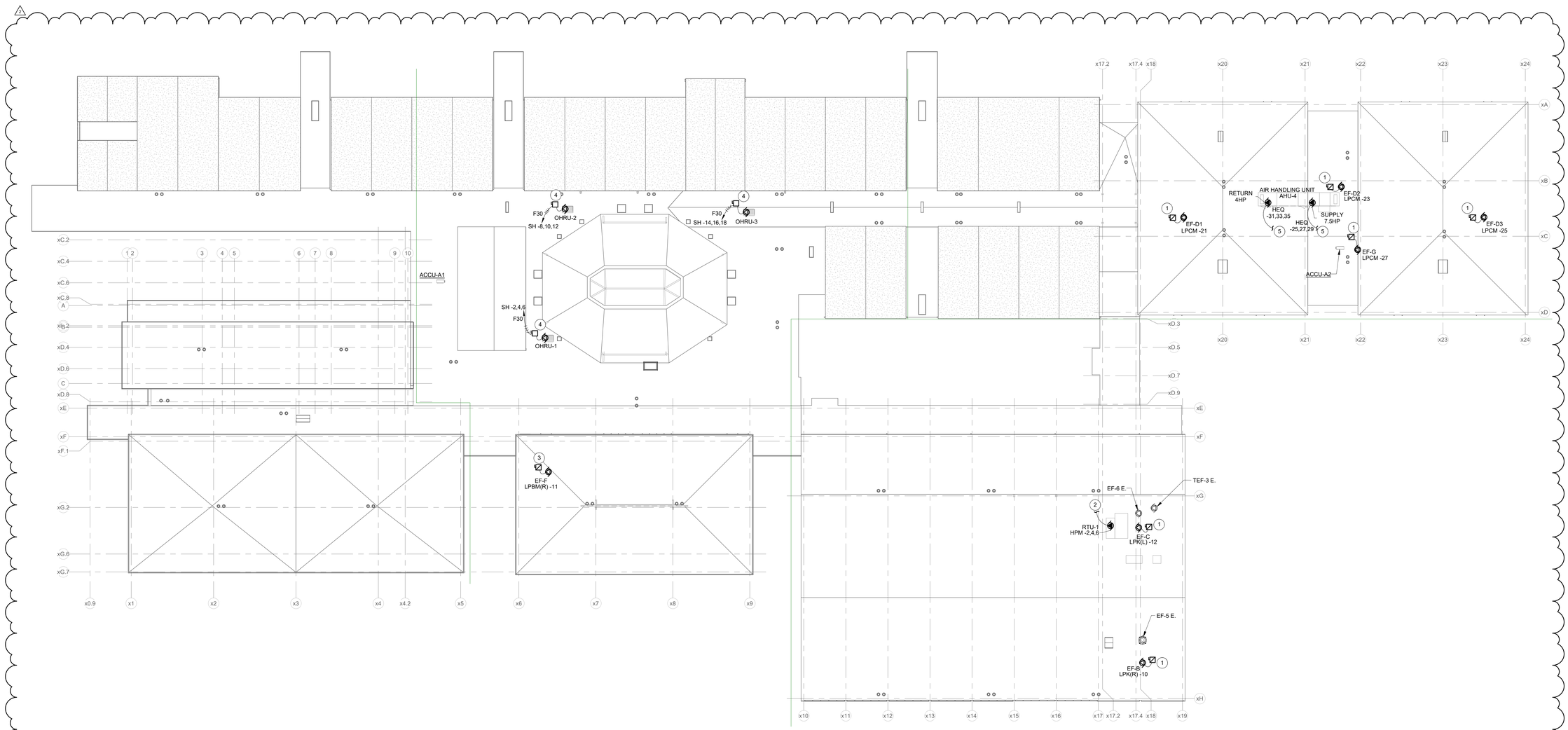
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. PROVIDE MANUAL MOTOR STARTER WITH A PILOT LIGHT FOR EXHAUST FAN NEXT TO SERVING PANEL. PROVIDE APPROPRIATE LABEL.
2. CONTROL WIRING FROM VFD LOCATED IN MECH. MEZZANINE 297. 3#10, 1#10 GND, 3/4" C.
3. EXHAUST IS FOR KILN HOOD. PROVIDE MANUAL MOTOR STARTER WITH A PILOT LIGHT FOR EXHAUST FAN IN KILN ROOM. PROVIDE APPROPRIATE LABEL.
4. PROVIDE 30A-3P, NF, NEMA 3R DISCONNECT SWITCH AT MECHANICAL EQUIPMENT (OHRU). WIRE WITH 3#10, 1#10 GND, 3/4" C.
5. CONTROL WIRING FROM VFD LOCATED IN GRADE LEVEL STORAGE 240. 3#12, 1#12 GND, 3/4" C.

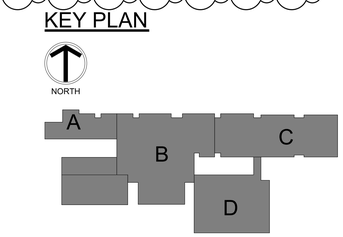


ROOF PLAN - ELECTRICAL

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

NORTH

KEY PLAN



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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
ROOF PLAN - ELECTRICAL

CERTIFIED BY:
TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E220

PROJECT NUMBER
22054

RENOVATION LEGEND:

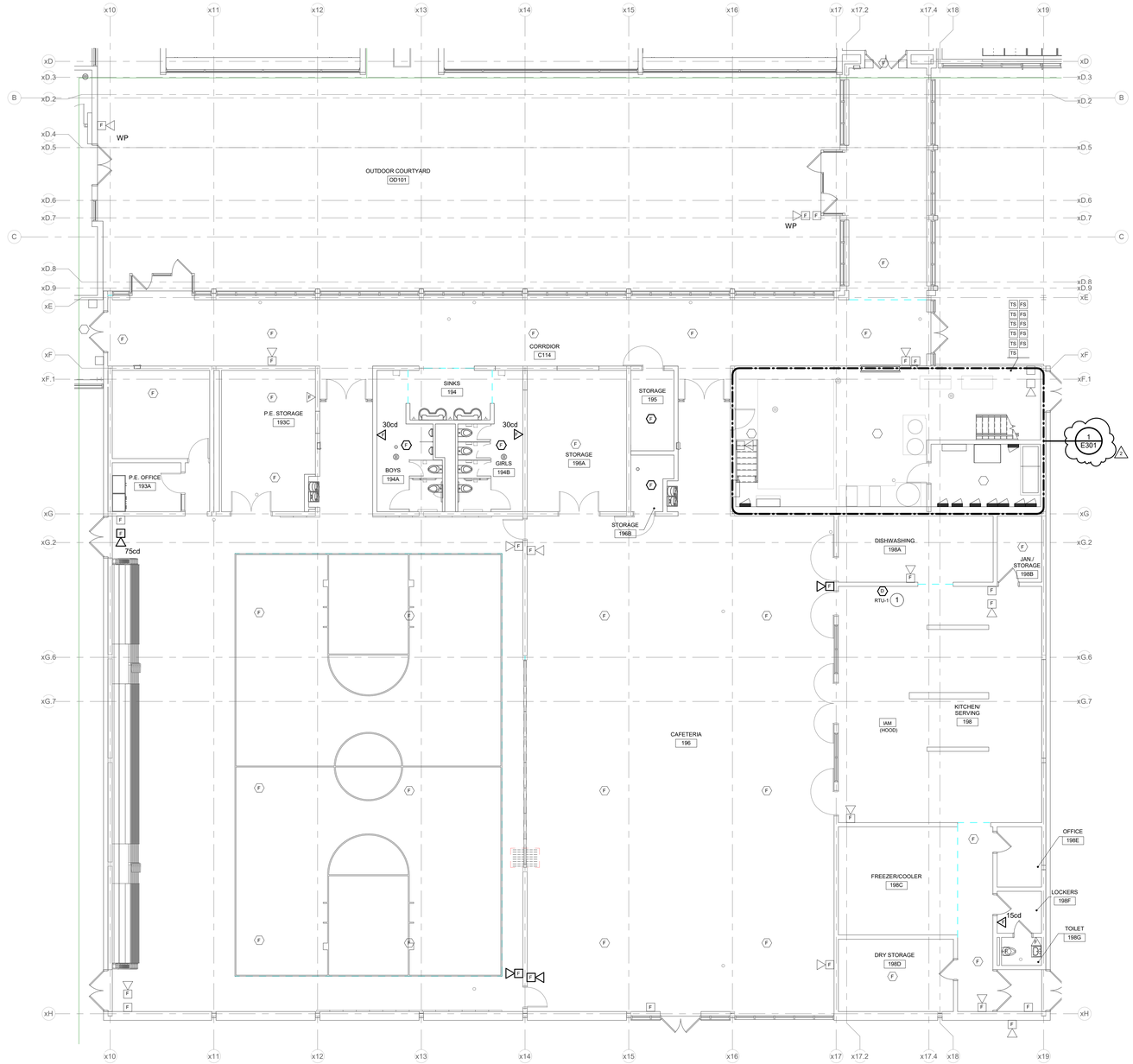
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET E001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. INSTALL DUCT MOUNTED SMOKE DETECTOR IN RTU RETURN DUCT AND WIRE TO SHUT DOWN.



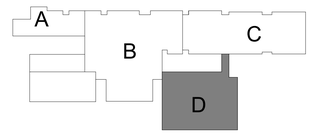
FIRST FLOOR - UNIT D - FIRE ALARM

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

NORTH

KEY PLAN

NORTH



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PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:

FIRST FLOOR PLAN - UNIT D - FIRE ALARM

CERTIFIED BY:

TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER

02/16/2024

DRAWING NUMBER

E231D

PROJECT NUMBER

22054

RENOVATION LEGEND:

WORK TO BE INSTALLED

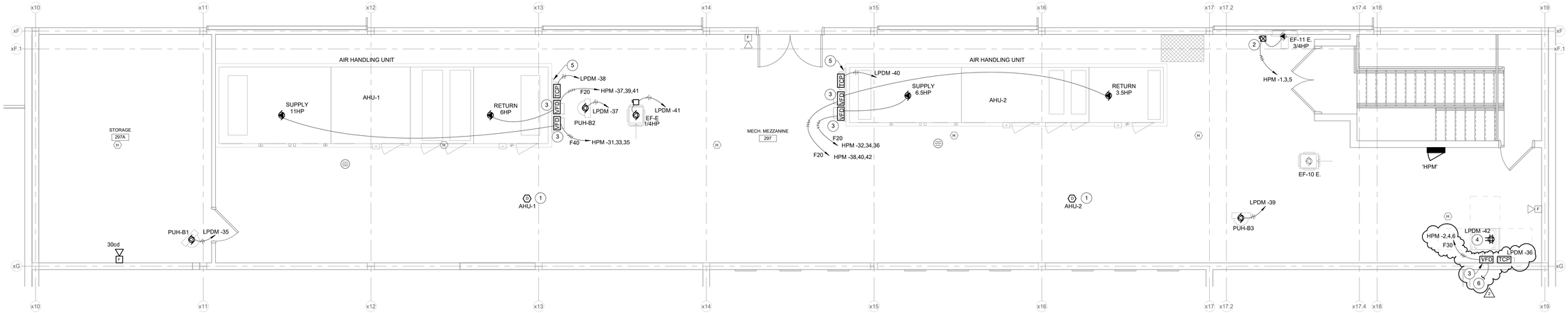
WORK TO REMAIN

GENERAL NOTES:

1. SEE E001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. INSTALL DUCT MOUNTED SMOKE DETECTOR IN AHU RETURN DUCT AND WIRE TO SHUT DOWN AHU.
2. PROVIDE NEW MOTOR STARTER FOR EXISTING MECHANICAL EQUIPMENT. RECONNECT MECHANICAL EQUIPMENT TO SPECIFIED CIRCUIT. PROVIDE NECESSARY WIRING.
3. VFD's PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. E.C. TO PROVIDE SUPPORT RACKS IF NECESSARY. E.C. TO DO ALL WIRING.
4. PROVIDE A DEDICATED 120V/1P RECEPTACLE INSIDE TELECOMMUNICATIONS RACK.
5. MOUNT VFDs AND TCPs TO CONTRACTOR PROVIDED UNISTRUT.
6. CONTROL WIRING TO ROOFTOP UNIT RTU-1 LOCATED ON ROOF. 3#10, 1#10 GND, 3/4" C.

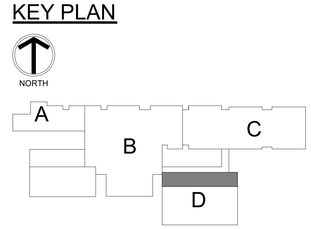


MEZZANINE LEVEL PLAN - POWER AND SIGNAL

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

NORTH

KEY PLAN



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PROJECT:

BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:

ENLARGED MEZZANINE LEVEL PLAN - ELECTRICAL

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

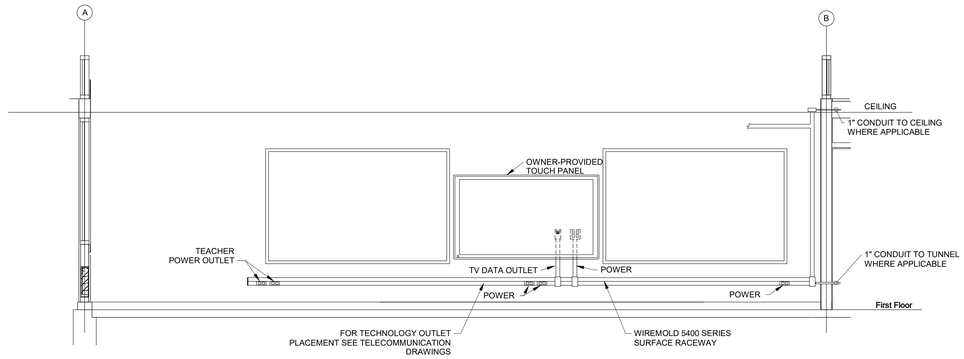
02/16/2024

DRAWING NUMBER

E302

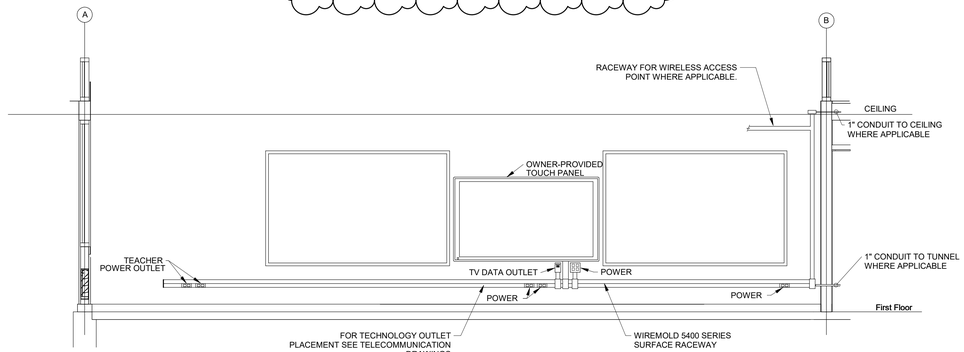
PROJECT NUMBER

22054



A **TYPICAL ACTIVITY COMMONS SECONDARY PATHWAY RACEWAY FOR ELECTRICAL WIRING**

SCALE: NONE



B **TYPICAL CLASSROOM SECONDARY PATHWAY RACEWAY FOR ELECTRICAL WIRING ALTERNATE**

SCALE: NONE

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PROJECT:
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L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
DETAILS - ELECTRICAL

CERTIFIED BY:
TIMOTHY E. HILL
REGISTERED
No. PE19800083
STATE OF INDIANA
PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E401

PROJECT NUMBER
22054

SALVAGED LIGHT FIXTURE SCHEDULE

MARK	COUNT	DESCRIPTION
E22	26	EXISTING 2 BY 2-FOOT FIXTURE. RECESSED.
E24	6	EXISTING 2 BY 4-FOOT FIXTURE. SURFACE MOUNTED.
E24R	24	SAME AS 'E24' EXCEPT RECESSED.
E-8	10	EXISTING 8 FOOT FLORESCENT FIXTURE.
E-16	26	SAME AS 'E-8' EXCEPT LENGTH. MADE UP OF 2 SECTIONS OF TYPE 'E-8' FIXTURES.
E-24	10	SAME AS 'E-8' EXCEPT LENGTH. MADE UP OF 3 SECTIONS OF TYPE 'E-8' FIXTURES.

NOTE:
1. VERIFY PROPER OPERATION AND REPLACE BALLASTS AND DRIVERS AS REQUIRED.
2. REPLACE ALL FLORESCENT TUBES WITH NEW. VERIFY COLOR TEMPERATURE WITH OWNER/ARCHITECT.
3. COUNT ONLY SHOWN FOR REFERENCE. VERIFY IN FIELD.
4. FIXTURES MAY BE TAKEN APART TO FORM DESIRED LENGTHS.
5. ALL RELOCATED FIXTURES MUST BE MOUNTED TO MATCH EXISTING (OR PREVOUSLY EXISTING) FIXTURES IN RELOCATION AREA.

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MOUNTING	TOTAL FIXTURE WATTS	CRI	WATTS	COLOR	LUMENS	VOLTS	MANUFACTURER(S)	MARK
F01-12	LINEAR DIREC 2.5-INCH WIDE BY LENGTH INDICATED, ALUMINUM HOUSING, ADJUSTABLE COLOR TEMPERATURE, WHITE LENS, 0-10V DIMMING.	SURFACE/ SURFACE WALL	90	80	7.5W/FT	3500K	1010/FT	120 V	FINELITE HP-4 R SERIES FOCAL POINT FSM4L SERIES MERCURY MLS4 SERIS PINNACLE EV4D SERIES	F01-12
F01-18	SAME AS 'F01-12' EXCEPT DIFFERENT LENGTH.	RECESSED	135	80	7.5W/FT	3500K	1010/FT	120 V	FINELITE HP-4 R SERIES FOCAL POINT FSM4L SERIES MERCURY MLS4 SERIS PINNACLE EV4D SERIES	F01-18
F10-4	LINEAR DIRECT/INDIRECT 2.5-INCH WIDE BY LENGTH INDICATED, AIRCRAFT CABLE, ALUMINUM HOUSING, ADJUSTABLE COLOR TEMPERATURE, WHITE LENS, 0-10V DIMMING.	SUSPENDED	40	80	10W/FT	3500K	1319/FT	120 V	JESCO LIN-DI SERIES	F10-4
F10-8	LINEAR DIRECT/INDIRECT 2.5-INCH WIDE BY LENGTH INDICATED, AIRCRAFT CABLE, WHITE LENS, 0-10V DIMMING.	SUSPENDED	80	80	10W/FT	3500K	1319/FT	120 V	JESCO LIN-DI SERIES	F10-8
F10-10	SAME AS 'F10-4' EXCEPT DIFFERENT LENGTH.	SUSPENDED	100	80	10W/FT	3500K	1319/FT	120 V	JESCO LIN-DI SERIES	F10-10
F10-16	SAME AS 'F10-4' EXCEPT DIFFERENT LENGTH.	SUSPENDED	160	80	10W/FT	3500K	1319/FT	120 V	JESCO LIN-DI SERIES	F10-16
F10-20	SAME AS 'F10-4' EXCEPT DIFFERENT LENGTH.	SUSPENDED	200	80	10W/FT	3500K	1319/FT	120 V	JESCO LIN-DI SERIES	F10-20
F10-24	SAME AS 'F10-4' EXCEPT DIFFERENT LENGTH.	SUSPENDED	240	80	10W/FT	3500K	1319/FT	120 V	JESCO LIN-DI SERIES	F10-24
F33	OPEN DOWNLIGHT, 8-INCH DIAMETER APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED.	RECESSED	14	80	14.4W	3500K	1100	120 V	HALO COMMERCIAL HC8 SERIES LITHONIA LDN8 SERIES PRESCOLITE LC8 SERIES	F33
F60	4-FOOT LENSED INDUSTRIAL, FORMED STEEL HOUSING, WHITE FINISH, SEMI-FROST ACRYLIC DIFFUSER.	SURFACE/ CHAIN HUNG	48	80	48W	3500K	5000	120 V	COLUMBIA MPS SERIES CREE LS4 SERIES LITHONIA ZL1D SERIES METALUX SNLED SERIES	F60
F61	4-FOOT LENSED INDUSTRIAL, FORMED STEEL HOUSING, WHITE FINISH, FROSTED ACRYLIC LENS, SELECTABLE LUMEN OUTPUT AND TEMPERATURE.	SURFACE	38	80	38W	VERIFY	5000	120 V	ILP QWIKLINK	F61
F61H	SAME AS 'F61' EXCEPT SUSPENDED	SUSPENDED	38	80	38W	VERIFY	5000	120 V		F61H
F91	2 BY 2-FOOT FLAT PANEL, ACRYLIC LENS, EDGE-LIT, 0-10V DIMMING TO 10-PERCENT	RECESSED	32	80	32W	3500K	3200	120 V	COLUMBIA CFP22 SERIES CREE C-TR-A-FP22 LITHONIA CPANL22 SERIES METALUX 22FP SERIES	F91
F91S	SAME AS 'F91' EXCEPT SURFACE MOUNTED.	SURFACE	32	80	32W	3500K	3200	120 V		F91S
F92	2 BY 4-FOOT FLAT PANEL, ACRYLIC LENS, EDGE-LIT, 0-10V DIMMING TO 10-PERCENT	RECESSED	40	80	40W	3500K	4000	120 V	COLUMBIA CFP24 SERIES CREE C-TR-A-FP24 SERIES LITHONIA CPANL24 SERIES METALUX 24FP SERIES	F92
F92S	SAME AS 'F92' EXCEPT SURFACE MOUNTED.	RECESSED	40	80	40W	3500K	4000	120 V		F92S
F-WC	LINEAR DOWNLIGHT WITH INTEGRAL DRIVER, SUITABLE FOR 'WOODWORKS GRILLE - FORTE' CEILING, 6 CELL, PLACED BETWEEN SLATS, ARCHITECT TO SELECT FINISH, 35 DEGREE BEAM, VERIFY CEILING MODEL WITH ARCHITECT BEFORE ORDERING, BOTTOM OF FIXTURE ALIGNED WITH BOTTOM OF CEILING.	(IN DESCRIPTION)	21	80	21W	3500K	60/W TO 72/W	120 V	USAI LIGHTING MICRO MULTI-CELL SERIES	F-WC
FM	17-INCH NOMINAL DIAMETER ROUND FIXTURE, CAST ALUMINUM HOUSING, FROSTED POLYCARBONATE LENS, WET LOCATION LISTED, GASKETED, INTEGRAL EMERGENCY BATTERY BACKUP, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD FINISHES.	SURFACE CEILING	20	70	20W	3000K	2000	120 V	KENALL MR17FD SERIES	FM
FN	ARCHITECTURAL WALL PACK, CAST ALUMINUM HOUSING, GASKETED, FULL CUTOFF, WET LOCATION LISTED, INTEGRAL EMERGENCY BATTERY BACKUP, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS.	SURFACE WALL	20	70	20W	3000K	2000	120 V	EXO SG SERIES LITHONIA WPX SERIES LUMARK AXCS SERIES	FN
FP	SAME AS FIXTURE 'FN,' EXCEPT NO INTEGRAL EMERGENCY BATTERY BACKUP.	SURFACE WALL	20	70	20W	3000K	2000	120 V	EXO SG SERIES LITHONIA WPX SERIES LUMARK AXCS SERIES	FP
X1C	THERMOPLASTIC EXIT SIGN, WHITE HOUSING, SELF POWERED, SELF DIAGNOSTIC.	SURFACE CEILING	5	80	5W	GREEN	N/A	120 V	DUAL-LITE SE SERIES SURE-LITES CX SERIES LITHONIA LE SERIES MULE MD SERIES	X1C
X1W	THERMOPLASTIC EXIT SIGN, WHITE HOUSING, SELF POWERED, SELF DIAGNOSTIC.	SURFACE WALL	5	80	5W	GREEN	N/A	120 V	DUAL-LITE SE SERIES SURE-LITES CX SERIES LITHONIA LE SERIES MULE MD SERIES	X1W
X4	EMERGENCY LIGHTING UNIT, 90-MINUTE EMERGENCY CAPACITY, DAMP LOCATION LISTED, SELF DIAGNOSTIC.	SURFACE WALL	5	80	5W	WHITE	N/A	120 V	DUAL-LITE EV SERIES SURE-LITES SEL25 SERIES LITHONIA ELM2 SERIES MULE SQ-80-LED SERIES	X4

SEE DRAWING E100 FOR "EXTERIOR LIGHTING SCHEDULE."

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

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REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
SCHEDULES - ELECTRICAL

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E601

PROJECT NUMBER
22054

DISTRIBUTION PANEL

PANEL ID: LDP — **LOCATION:** ELEC. 197A
CONFIGURATION: 208Y/120V 3Φ 4-Wire+Ground — **ENCLOSURE:** SQUARE D - E1 SERIES
MAIN: 1200 A MCB — **TRIM:**
SCCR (AMPS RMS SYMM.): — **MODIFICATIONS:**

NO.	Load Name	Rating	POLES	PHASE A	PHASE B	PHASE C
1	PANELBOARD 'E'	100 A	3	4 A	11 A	10 A
2	E. 100A BREAKER	100 A	3	--	--	--
3	E. PANELBOARD 'LPD'	100 A	3	--	--	--
4	E. PANELBOARD 'LPDM'	100 A	3	--	--	--
5	E. PANELBOARD 'LPBM'	100 A	3	--	--	--
6	E. PANELBOARD 'LPC2'	100 A	3	--	--	--
7	E. PANELBOARD 'LPBA'	100 A	3	--	--	--
8	E. PANELBOARD 'LPB'	100 A	3	--	--	--
9	E. PANELBOARD 'LLB'	125 A	3	--	--	--
10	E. PANELBOARD 'LLD'	125 A	3	--	--	--
11	E. PANELBOARD 'LLC2'	125 A	3	--	--	--
12	PANELBOARD 'LPC1'	150 A	3	93 A	44 A	53 A
13	E. PANELBOARD 'LPCM'	150 A	3	--	--	--
14	PANELBOARD 'A'	175 A	3	44 A	75 A	61 A
15	E. PANELBOARD 'LPK'	300 A	3	--	--	--
16	PANELBOARD 'B'	200 A	3	85 A	96 A	89 A
17	PANEL 'LDP' DISCONNECT	1200 A	3	--	--	--
18	PANELBOARD 'G'	200 A	3	161 A	164 A	140 A

TOTAL LOAD (VA): 133844 VA — **TOTAL LOAD (A):** 372 A
REMARKS: EXISTING SQUARE D HCWM I-LINE PANEL

SWITCHBOARD

PANEL ID: MDP-H — **LOCATION:** Space 260
CONFIGURATION: 480Y/277V 3Φ 4-Wire+Ground — **ENCLOSURE:** SQUARE D - TYPE 1
MAIN: 2000 A — **TRIM:**
SCCR (AMPS RMS SYMM.): — **MODIFICATIONS:**

NO.	Load Name	Rating	POLES	PHASE A	PHASE B	PHASE C
1	TRANSFORMER TO 'LDP'	800 A	3	--	--	--
2	CHILLER	500 A	3	--	--	--
3	PANEL 'HPM'	200 A	3	75 A	75 A	75 A
4	E. BREAKER ON	200 A	3	--	--	--
5	E. BREAKER OFF	50 A	3	--	--	--
6	PANEL 'LHD'	100 A	3	--	--	--
7	E. BREAKER OFF	100 A	3	--	--	--
8	ELEVATOR	100 A	3	--	--	--
9	PANELBOARD 'SH'	20 A	3	126 A	126 A	126 A
10	MCC-D	200 A	3	--	--	--
11	E. BREAKER ON	200 A	3	--	--	--

TOTAL LOAD (VA): 167003 VA — **TOTAL LOAD (A):** 201 A
REMARKS:

DISTRIBUTION

BM — PANELBOARD SCHEDULE

LOCATION : ELEC. 118 — **SCCR (AMPS RMS SYMM):** — **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground — **AMP :** 100 A — **MAIN :** MCB — **NEMA:** Type 1 — **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	CUH-A2 VESTIBULE V107		20 A	1	1000 / 1176			1	20 A		VUV-A 1/2HP LIFE SKILLS 119	2
3	VUV-A 1/2HP FLEX CLASSROOM 114		20 A	1		1176 / 1176		1	20 A		VUV-A 1/2HP CLASSROOM (2ND) 123	4
5	VUV-A 1/2HP CLASSROOM (2ND) 117		20 A	1			1176 / 750	2	20 A		ECUH-A STAFF 124	6
7	VUV-A 1/2HP CLASSROOM (2ND) 116		20 A	1	1176 / 750							8
9	FAN COIL FC-A SMALL GROUP ROOM 115		20 A	1		200 / 750		2	20 A		ECUH-A TOILET 123A	10
11	SPARE		20 A	1			0 / 750					12
13	SPARE		20 A	1	0 / 0			1	20 A		FAN COIL FC-A SMALL GROUP ROOM 121	14
15	SPARE		20 A	1		0 / 0		1	20 A		SPARE	16
17	SPARE		20 A	1			0 / 0	1	20 A		SPARE	18
19	SPARE		20 A	1	0 / 0			1	20 A		SPARE	20
21	SPARE		20 A	1		0 / 0		1	20 A		SPARE	22
23	SPARE		20 A	1			0 / 0	1	20 A		SPARE	24
25	SPARE		20 A	1	0 / 0			1	20 A		SPARE	26
27	SPARE		20 A	1		0 / 0		1	20 A		SPARE	28
29	SPARE		20 A	1			0 / 0	1	20 A		SPARE	30
31	SPARE		20 A	1	0 / 0			1	20 A		SPARE	32
33	SPARE		20 A	1		0 / 0		1	20 A		SPARE	34
35	SPARE		20 A	1			0 / 0	1	20 A		SPARE	36
37	SPARE		20 A	1	0 / 0			1	20 A		SPARE	38
39	SPARE		20 A	1		0 / 0		1	20 A		SPARE	40
41	SPARE		20 A	1			0 / 0	1	20 A		SPARE	42
					TOTALS :	4102 VA	3302 VA	2676 VA				

TOTAL CONNECTED LOAD (VA) : 10080 VA — **TOTAL CONNECTED LOAD (AMPS) :** 28 A
REMARKS: — **NOTES:**

B — PANELBOARD SCHEDULE

LOCATION : ELEC. 118 — **SCCR (AMPS RMS SYMM):** — **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground — **AMP :** 200 A — **MAIN :** MCB — **NEMA:** Type 1 — **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECEPT CORRIDOR C105		20 A	1	540 / 300			1	20 A		POWER ELEC. 118	2
3	RECEPT CORR. 106, VEST. 107		20 A	1		720 / 1380		1	20 A		RECEPT ROOM 119, 119B	4
5	RECEPT FLEX CLASSROOM 114		20 A	1			1260 / 1080	1	20 A		RECEPT LIFE SKILLS 119	6
7	RECEPT FLEX CLASSROOM 114		20 A	1	540 / 360			1	20 A		RECEPT ROOM 120, 122	8
9	RECEPT SMALL GROUP ROOM 115		20 A	1		900 / 680		1	20 A		RECEPT ACTIVITY COMMONS 122	10
11	RECEPT CLASSROOM (2ND) 116		20 A	1			540 / 900	1	20 A		RECEPT SMALL GROUP ROOM 121	12
13	RECEPT CLASSROOM (2ND) 116		20 A	1	1260 / 1260			1	20 A		RECEPT ACTIVITY COMMONS 122	14
15	RECEPT CLASSROOM (2ND) 117		20 A	1		1260 / 1260		1	20 A		RECEPT CLASSROOM (2ND) 123	16
17	RECEPT CLASSROOM (2ND) 117		20 A	1			540 / 540	1	20 A		RECEPT CLASSROOM (2ND) 123	18
19	SPARE		20 A	1	0 / 0			1	20 A		SPARE	20
21	SPARE		20 A	1		0 / 0		1	20 A		SPARE	22
23	LIGHTING CORRIDOR C105		20 A	1			1048 / 1076	1	20 A		LIGHTING AND EF-A ROOM 119	24
25	LIGHTING 114, 115, EF-A 114		20 A	1	1048 / 812			1	20 A		LIGHTING ROOM 120-122	26
27	LIGHTING AND EF-A 116		20 A	1		972 / 972		1	20 A		LIGHTING AND EF-A 123	28
29	LIGHTING AND EF-A 117		20 A	1			972 / 0	1	20 A		SPARE	30
31	SPARE		20 A	1	0 / 0			1	20 A		SPARE	32
33	SPARE		20 A	1		0 / 0		1	20 A		SPARE	34
35	SPARE		20 A	1			0 / 0	1	20 A		SPARE	36
37	SPARE		20 A	1	0 / 4102							38
39	SPARE		20 A	1		0 / 3302		3	100 A		PANELBOARD 'BM'	40
41	SPARE		20 A	1			0 / 2676					42
					TOTALS :	10222 VA	11446 VA	10632 VA				

TOTAL CONNECTED LOAD (VA) : 32300 VA — **TOTAL CONNECTED LOAD (AMPS) :** 90 A
REMARKS:
- PANEL TO REPLACE EXISTING PANELBOARD 'B' AND 'D'

NOTES:

A — PANELBOARD SCHEDULE

LOCATION : GRADE... — **SCCR (AMPS RMS SYMM):** — **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground — **AMP :** 175 A — **MAIN :** MCB — **NEMA:** Type 1 — **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECEPT VEST. V102, CORRIDOR A NORTH		20 A	1	720 / 900			1	20 A		RECEPT ROOM 105, 106	2
3	EWC CORRIDOR A NORTH		20 A	1		680 / 540		1	20 A		RECEPT CLASSROOM (PRE-K) 107	4
5	RECEPT SHARED OFFICE 102		20 A	1			1080 / 1260	1	20 A		RECEPT CLASSROOM (PRE-K) 107	6
7	RECEPT ROOM 103, 103A		20 A	1	720 / 540			1	20 A		RECEPT CLASSROOM (PRE-K) 108	8
9	RECEPT COMMUNITY/FLEX CLASSROOM 103		20 A	1		1260 / 1260		1	20 A		RECEPT CLASSROOM (PRE-K) 108	10
11	RECEPT CLASSROOM (PRE-K) 104		20 A	1			1260 / 0	1	20 A		SPARE	12
13	RECEPT CLASSROOM (PRE-K) 104		20 A	1	540 / 0			1	20 A		SPARE	14
15	SPARE		20 A	1		0 / 0		1	20 A		SPARE	16
17	SPARE		20 A	1			0 / 0	1	20 A		SPARE	18
19	SPARE		20 A	1	0 / 0			1	20 A		SPARE	20
21	CUH-G VESTIBULE V102		20 A	1		384 / 200		1	20 A		FC-A SMALL GROUP ROOM 105	22
23	EF-A ROOM 101, FC-A ROOM 102		20 A	1			500 / 96	1	20 A		PUH-D STORAGE 106	24
25	CUH-F STORAGE 103A		20 A	1	64 / 1176			1	20 A		VUV-A 1/2HP ROOM 107	26
27	VUV-A 1/2HP ROOM 103		20 A	1		1176 / 1176		1	20 A		VUV-A 1/2HP ROOM 108	28
29	VUV-A 1/2HP ROOM 104		20 A	1			1176 / 0	1	20 A		SPARE	30
31	SPARE		20 A	1	0 / 0			1	20 A		SPARE	32
33	SPARE		20 A	1		0 / 0		1	20 A		SPARE	34
35	SPARE		20 A	1			0 / 0	1	20 A		SPARE	36
37	LIGHTING VESTIBULE V102, CORR. C101		20 A	1	646 / 0			1	20 A		SPARE	38
39	LIGHTING AND EF-A ROOM 103		20 A	1		1340 / 720		1	20 A		LIGHTING 106, 107 AND EF-A 107	40
41	LIGHTING AND EF-A ROOM 104		20 A	1			748 / 972	1	20 A		LIGHTING AND EF-A ROOM 108	42
					TOTALS :	5306 VA	8736 VA	7092 VA				

TOTAL CONNECTED LOAD (VA) : 21134 VA — **TOTAL CONNECTED LOAD (AMPS) :** 59 A
REMARKS:
- PANEL TO REPLACE EXISTING PANELBOARD 'A'

NOTES:

GM — PANELBOARD SCHEDULE

LOCATION : MECH 111 — **SCCR (AMPS RMS SYMM):** — **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground — **AMP :** 100 A — **MAIN :** MLO — **NEMA:** Type 1 — **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	CUH-C SECURE VESTIBULE-2 V101-2		20 A	1	300 / 420			2	20 A		DXFC UNIT ROOM 163, 166-168	2
3	PUH-D JANITOR 108A		20 A	1		96 / 420						4
5	DXFC UNIT ROOM 110, 112, C103		20 A	2			945 / 750	2	20 A		ECUH-A STAFF 165	6
7					945 / 750							8
9	ECUH-A TOILET 112A		20 A	2		750 / 735		2	20 A		DXFC UNIT ROOM 170-172, 174-176	10
11							750 / 735					12
13	DXFC UNIT ROOM 113, 113A-B		20 A	2	420 / 0			1	20 A		SPARE	14
15						420 / 0		1	20 A		SPARE	16
17	SPARE		20 A	1			0 / 0	1	20 A		SPARE	18
19	SPARE		20 A	1	0 / 0			1	20 A		SPARE	20
21	SPARE		20 A	1		0 / 0		1	20 A		SPARE	22
23	SPARE		20 A	2			0 / 0	2	15 A		SPARE	24
25					0 / 0							26
27	ERV-3 AND DXFC-3 MECH 111		15 A	2		546 / 546		2	15 A		ERV-2 AND DXFC-2 MECH 173	28
29							546 / 546					30
31	DXFC-3 DUCT HEATER MECH 111		20 A	2	1500 / 1500			2	20 A		DXFC-2 DUCT HEATER MECH 173	32
33						1500 / 1500						34
35	ERV-4 AND DXFC-4 MECH 113C		15 A	2			546 / 546	2	15 A		ERV-1 AND DXFC-1 MECH 168	36
37					546 / 546							38
39	DXFC-4 DUCT HEATER MECH 113C		20 A	2		1500 / 1500		2	20 A		DXFC-1 DUCT HEATER MECH 168	40
41							1500 / 1500					42
					TOTALS :	6926 VA	9512 VA	8362 VA				

TOTAL CONNECTED LOAD (VA) : 24800 VA — **TOTAL CONNECTED LOAD (AMPS) :** 69 A
REMARKS: — **NOTES:**

G — PANELBOARD SCHEDULE

LOCATION : MECH 111 — **SCCR (AMPS RMS SYMM):** — **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground — **AMP :** 200 A — **MAIN :** MCB — **NEMA:** Type 1 — **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	WASHER JANITOR CLOSET M.C.		20 A	1	1920 / 1080			1	20 A		RECEPT ROOM 163, 164	2
3	RECEPT ROOM 110		20 A	1		360 / 180		1	20 A		RECEPT MDF 164	4
5	UNDER. REFRIG. CLINIC 110		20 A	1			680 / 540	1	20 A		RECEPT WORK ROOM 166	6
7	RECEPT CLINIC 110		20 A	1	360 / 1000			1	20 A		COPIER WORK ROOM 166	8
9	RECEPT MECH 111, CORRIDOR C102		20 A	1		360 / 1000		1	20 A		REFRIG. WORK ROOM 166	10
11	RECEPT A.P. OFFICE 112D		20 A	1			900 / 720	1	20 A		RECEPT MOTHERS/PHONE ROOM 167	12
13	RECEPT CONFERENCE 112B		20 A	1	720 / 1260			1	20 A		RECEPT ROOM 168, 169, 172, 173, C111	14
15	RECEPT PRINCIPAL OFFICE 112C		20 A	1		720 / 900		1	20 A		RECEPT SHARED OFFICE 170	16
17	RECEPT RECEPTION 112		20 A	1			540 / 900	1	20 A		RECEPT CONFERENCE 171	18
19	RECEPT RECEPTION 112		20 A	1	1080 / 1080			1	20 A		RECEPT COLLABORATION SUITE 174	20
21	RECEPT RECEPTION 112		20 A	1		1080 / 1260		1	20 A		RECEPT TECH OFFICE 175	22
23	RECEPT ROOM 112F, C103		20 A	1			720 / 1080	1	20 A		RECEPT SENSORY 176	24
25	COPIER WORK ROOM 112F		20 A	1	1000 / 0			1	20 A		SPARE	26
27	RECEPT OFFICE 113A		20 A	1		720 / 0		1	20 A		SPARE	28
29	RECEPT CONFERENCE/FLEX OFFICE 113B		20 A	1			720 / 0	1	20 A		SPARE	30
31	RECEPT ROOM 113, 113C		20 A	1	900 / 1007			1	20 A		LIGHTING C102, C111, 163, 170	32
33	RECEPT OFFICE 113D		20 A	1		1080 / 959		1	20 A		LIGHTING 164-169, 172-176	34
35	SPARE		20 A	1			0 / 1000	1	20 A		NAC PANEL MECH 111	36
37	LIGHTING RECEPTION 112		20 A	1	652 / 6926							38
39	LIGHTING 110-112		20 A	1		1230 / 9512		3	100 A		PANELBOARD 'GM'	40
41	LIGHTING ROOM 113, VEST. V101		20 A	1			647 / 8362					42
					TOTALS :	18985 VA	19361 VA	16809 VA				

TOTAL CONNECTED LOAD (VA) : 55155 VA — **TOTAL CONNECTED LOAD (AMPS) :** 153 A
REMARKS: — **NOTES:**

E — PANELBOARD SCHEDULE

LOCATION : ELEC 118 — **SCCR (AMPS RMS SYMM):** — **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground — **AMP :** 100 A — **MAIN :** MLO — **NEMA:** Type 1 — **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE		20 A	1	0 / 0			1	20 A		SPARE	2
3	SPARE		20 A	1		0 / 0		1	20 A		SPARE	4
5	SPARE		20 A	1			0 / 0	1	20 A		SPARE	6
7	EXTERIOR LIGHTS - FLAG & EXT. LIGHTING CTRL	1	20 A	1	98 / 0			1	20 A		SPARE	8
9	EXTERIOR LIGHTS - BUILDING MOUNTED	1	20 A	1		800 / 0		1	20 A		SPARE	10
11	EXTERIOR LIGHTS - NORTH LOT	1	20 A	1			1089 / 0	1	20 A		SPARE	12
13	EXTERIOR LIGHTS - NORTH SIDEWALK	1	20 A	1	352 / 0			1	20 A		SPARE	14
15	EXTERIOR LIGHTS - SOUTH DRIVE	1	20 A	1		396 / 0		1	20 A		SPARE	16
17	SPARE		20 A	1			0 / 0	1	20 A		SPARE	18
					TOTALS :	450 VA	1196 VA	1089 VA				

TOTAL CONNECTED LOAD (VA) : 2735 VA — **TOTAL CONNECTED LOAD (AMPS) :** 8 A
REMARKS:

NOTES:
1. CONNECT CIRCUIT THROUGH LIGHTING RELAY PANEL. SEE DRAWING E-403.

SH — PANELBOARD SCHEDULE

LOCATION : MECH 173 — **SCCR (AMPS RMS SYMM):** — **SERVICE :** 480Y/277V 3Φ 4-Wire+Ground — **AMP :** 150 A — **MAIN :** MLO — **NEMA:** Type 1 — **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	AIR HANDLING UNIT (AHU-1) SUPPLY FAN 4HP MECH 181		20 A	3	2105 / 5900							2
3						2105 / 5900		3	30 A		OHRU-1 UNIT LOCATED AREA B ROOF	4
5							2105 / 5900					6
7	AIR HANDLING UNIT (AHU-1) RETURN FAN 3HP MECH 181		20 A	3	1333 / 4598							8
9						1333 / 4598		3	25 A		OHRU-2 UNIT LOCATED AREA B ROOF	10
11							1333 / 4598					12
13	SPARE		20 A	1	0 / 5900							14
15	SPARE		20 A	1		0 / 5900		3	30 A		OHRU-3 UNIT LOCATED AREA B ROOF	16
17	SPARE		20 A	1			0 / 5900					18
19	SPARE		20 A	3	0 / 0							20
21						0 / 0		3	30 A		SPARE	22
23							0 / 0					24
25	ERV-3 DUCT HEATER MECH 111		20 A	3	3000 / 0							26
27						3000 / 0		3	20 A		SPARE	28
29							3000 / 0					30
31	ERV-4 DUCT HEATER MECH 113C		20 A	3	3000 / 3000							32
33						3000 / 3000		3	20 A		ERV-1 DUCT HEATER MECH 168	34
35							3000 / 3000					36
37	ERV-5 DUCT HEATER MECH 192A		20 A	3	3000 / 3000							38
39						3000 / 3000		3	20 A		ERV-2 DUCT HEATER MECH 173	40
41							3000 / 3000					42
					TOTALS :	34837 VA	34837 VA	34837 VA				

TOTAL CONNECTED LOAD (VA) : 104511 VA — **TOTAL CONNECTED LOAD (AMPS) :** 126 A
REMARKS: — **NOTES:**

BCSC TOGETHER WE LEARN

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of construction materials and systems to be used.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the construction work for the project.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
SCHEDULES - PANELBOARDS

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
02/16/2024

DRAWING NUMBER
E611

PROJECT NUMBER
22054

LPB(L) — PANELBOARD SCHEDULE

LOCATION : ELEC. 184 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 100 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECEPT MEDIA CENTER 178	E	20 A	1	720 / 720			1	20 A	E	RECEPT SRO 189	2
3	RECEPT MEDIA CENTER 178	E	20 A	1		540 / 1080		1	20 A	E	RECEPT OT/PT 190	4
5	RECEPT WORKROOM 179	E	20 A	1			540 / 1080	1	20 A	E	RECEPT ROOM 191, 192	6
7	COPIER MEDIA OFFICE/WORKROOM 179	E	20 A	1	1000 / 180			1	20 A	E	RECEPT STAFF DINING 192	8
9	RECEPT MAKERSPACE 180	E	20 A	1		1080 / 1000		1	20 A	E	REFRIG. STAFF DINING 192	10
11	RECEPT ROOM 180A, 180B	E	20 A	1			720 / 680	1	20 A	E	ICE MAKER STAFF DINING 192	12
13	RECEPT ROOM 181, 182	E	20 A	1	900 / 1000			1	20 A	E	VENDING STAFF DINING 192	14
15	RECEPT ART LAB 183	E	20 A	1		720 / 0		1	20 A	E	SPARE	16
17	RECEPT ART LAB 183	E	20 A	1			1260 / 0	1	20 A	E	SPARE	18
19	RECEPT STEM LAB 185	E	20 A	1	900 / 0			1	20 A	E	SPARE	20
21	RECEPT STEM LAB 185	E	20 A	1		1260 / 0		1	20 A	ER	FIRE ALARM CONTROL PANEL MDF 164	22
23	RECEPT MUSIC LAB 186	E	20 A	1			1260 / 0	1	20 A	E	SPARE	24
25	RECEPT MUSIC LAB 186	E	20 A	1	720 / 0			1	20 A	E	SPARE	26
27	CORD REELS MAKERSPACE 180	E	20 A	1		720 / 0		1	20 A	E	SPARE	28
29	CORD REELS MAKERSPACE 180	E	20 A	1			720 / 0	1	20 A	E	SPARE	30
31	LIGHTS TUNNEL	ER	20 A	1	0 / 720			1	20 A	E	RECEPT CORRIDOR C112, VEST. V104	32
33	LIGHTS TUNNEL	ER	20 A	1		0 / 900		1	20 A	E	RECEPT CORRIDOR C104, C113	34
35	CORD REELS STEM LAB 185	E	20 A	1			720 / 680	1	20 A	E	EWC CORRIDOR C112	36
37	CORD REELS STEM LAB 185	E	20 A	1	720 / 360			1	20 A		CORD REELS ART LAB 183	38
39	CORD REELS STEM LAB 185		20 A	1		360 / 720		1	20 A		CORD REELS ART LAB 183	40
41	SPACE		--	1			0 / 720	1	20 A		CORD REELS ART LAB 183	42
				TOTALS :	7940 VA	8380 VA	8380 VA					

TOTAL CONNECTED LOAD (VA) : 24700 VA **TOTAL CONNECTED LOAD (AMPS) :** 69 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN.

LPB(R) — PANELBOARD SCHEDULE

LOCATION : ELEC. 184 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 100 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING		20 A	1	0 / 0			1	20 A		EXISTING	2
3	EXISTING		20 A	1		0 / 0		1	20 A		EXISTING	4
5	EXISTING		20 A	1			0 / 0	1	20 A		EXISTING	6
7	EXISTING		20 A	1	0 / 0			1	20 A		EXISTING	8
9	EXISTING		20 A	1		0 / 0		1	20 A		EXISTING	10
11	EXISTING		20 A	1			0 / 0	1	20 A		EXISTING	12
13	EXISTING		20 A	1	0 / 0			1	20 A		EXISTING	14
15	EXISTING		20 A	1		0 / 0		1	20 A		EXISTING	16
17	EXISTING		20 A	1			0 / 0	1	20 A		EXISTING	18
19	EXISTING		20 A	1	0 / 0			1	20 A		EXISTING	20
21	EXISTING		20 A	1		0 / 0		1	20 A		EXISTING	22
23	EXISTING		20 A	1			0 / 0	1	20 A		EXISTING	24
25	EXISTING		20 A	1	0 / 0			1	20 A		EXISTING	26
27	EXISTING		20 A	1		0 / 0		1	20 A		EXISTING	28
29	EXISTING		20 A	2			0 / 0	1	20 A		EXISTING	30
31					0 / 0			1	20 A		EXISTING	32
33	EXISTING		20 A	2		0 / 0		1	20 A		EXISTING	34
35							0 / 0	1	20 A		EXISTING	36
37	EXISTING		20 A	2	0 / 0			1	--		SPACE	38
39						0 / 0		1	--		SPACE	40
41	SPACE		--	1			0 / 0	1	--		SPACE	42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA **TOTAL CONNECTED LOAD (AMPS) :** 0 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'
PANELBOARD HAS WRONG CIRCUIT DIRECTORY. CONTRACTOR TO UPDATE.
BREAKER SIZES MAY NOT BE DISPLAYED CORRECTLY. VERIFY IN FIELD.

NOTES:

LPBA — PANELBOARD SCHEDULE

LOCATION : ELEC. 184 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 100 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECEPT CLASSROOM (1ST) 145	E	20 A	1	1260 / 1260			1	20 A	E	RECEPT CLASSROOM (1ST) 152	2
3	RECEPT CLASSROOM (1ST) 145	E	20 A	1		900 / 360		1	20 A	E	RECEPT CLASSROOM (1ST) 152	4
5	RECEPT CLASSROOM (FLEX) 146	E	20 A	1			1260 / 1080	1	20 A	E	RECEPT ROOM 153, 154	6
7	RECEPT CLASSROOM (FLEX) 146	E	20 A	1	720 / 360			1	20 A	E	RECEPT CLASSROOM (K) 159	8
9	RECEPT CLASSROOM (K) 147	E	20 A	1		900 / 1080		1	20 A	E	RECEPT ROOM 155, 156	10
11	RECEPT CLASSROOM (K) 147	E	20 A	1			1260 / 360	1	20 A	E	RECEPT CLASSROOM (K) 157	12
13	RECEPT ROOM 148, 169 & TGCORRIDOR C110	E	20 A	1	900 / 1260			1	20 A	E	RECEPT CLASSROOM (K) 157	14
15	RECEPT SMALL GROUP ROOM 149	E	20 A	1		900 / 900		1	20 A	E	RECEPT ACTIVITY COMMONS 158	16
17	RECEPT CLASSROOM (1ST) 150	E	20 A	1			360 / 680	1	20 A	E	EWC ACTIVITY COMMONS 158	18
19	RECEPT CLASSROOM (1ST) 150	E	20 A	1	1260 / 1260			1	20 A	E	RECEPT CLASSROOM (K) 159	20
21	RECEPT ACTIVITY COMMONS 151	E	20 A	1		900 / 1080		1	20 A	E	RECEPT ROOM 160, 161	22
23	EWC ACTIVITY COMMONS 151	E	20 A	1			680 / 0	1	20 A	E	SPARE	24
25	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	26
27	SPARE	E	20 A	1		0 / 0		2	20 A	E	SPARE	28
29	SPARE	E	60 A	2			0 / 0					30
31					0 / 0			2	20 A	E	SPARE	32
33	SPARE	E	60 A	2		0 / 0						34
35							0 / 0	2	20 A	E	SPARE	36
37	SPARE	E	20 A	1	0 / 0							38
39	SPARE	E	20 A	1		0 / 0		2	20 A	E	SPARE	40
41	SPARE	E	20 A	1			0 / 0					42
				TOTALS :	8280 VA	7020 VA	5680 VA					

TOTAL CONNECTED LOAD (VA) : 20980 VA **TOTAL CONNECTED LOAD (AMPS) :** 58 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.

LLB — PANELBOARD SCHEDULE

LOCATION : ELEC. 184 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 125 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	LIGHTING AND EF-A ROOM 150	E	20 A	1	1187 / 934			1	20 A	E	LIGHTING MEDIA CENTER 178	2
3	LIGHTING AND EF-A ROOM 152	E	20 A	1		1187 / 0		1	20 A	E	SPARE	4
5	LIGHTING AND EF-A ROOM 157	E	20 A	1			1187 / 668	1	20 A	E	LIGHTING ROOM 179 - 182	6
7	LIGHTING AND EF-A ROOM 159	E	20 A	1	1187 / 1154			1	20 A	E	LGT VEST. V104, V105 & CORR. C112, C104	8
9	NAC PANEL ELEC. 184	ER	20 A	1		0 / 1328		1	20 A	E	LIGHTING ART LAB 183	10
11	LIGHTING ROOM 148, 149, 151, V103, C110	E	20 A	1			857 / 958	1	20 A	E	LIGHTING STEM LAB 185	12
13	LIGHTING ROOM 153-156, 158, 160, 161	E	20 A	1	1333 / 792			1	20 A	E	LIGHTING MUSIC LAB 186	14
15	LIGHTING AND EF-A ROOM 145	E	20 A	1		812 / 664		1	20 A	E	LIGHTING AND EF-A STAFF, 187, 188	16
17	LIGHTING AND EF-A ROOM 146	E	20 A	1			812 / 1058	1	20 A	E	LIGHTING ROOM 189-192	18
19	LIGHTING AND EF-A ROOM 147	E	20 A	1	812 / 0			1	20 A	E	SPARE	20
21	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	22
23	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	24
25	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	26
27	SPACE		--	1		0 / 0		1	20 A	E	SPARE	28
29	SPACE		--	1			0 / 0	1	20 A	E	SPARE	30
31	SPACE		--	1	0 / 0			1	20 A	E	SPARE	32
33	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	34
35	SPACE		--	1			0 / 0	1	--		SPACE	36
37	SPACE		--	1	0 / 0			1	--		SPACE	38
39	SPACE		--	1		0 / 0		1	--		SPACE	40
41	SPACE		--	1			0 / 0	1	--		SPACE	42
				TOTALS :	7399 VA	3991 VA	5540 VA					

TOTAL CONNECTED LOAD (VA) : 16930 VA **TOTAL CONNECTED LOAD (AMPS) :** 47 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN.

LPBM(L) — PANELBOARD SCHEDULE

LOCATION : ELEC. 184 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 100 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	2
3	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	4
5	TCP MECH 155	E	20 A	1			0 / 0	1	20 A	E	SPARE	6
7	BLOWER COIL BC-1 MECH 155	E	20 A	2	500 / 0			1	20 A	E	SPARE	8
9						500 / 0		1	20 A	E	SPARE	10
11	SPARE	E	20 A	2			0 / 0	1	20 A	E	SPARE	12
13					0 / 0			1	20 A	E	SPARE	14
15	SPARE	E	20 A	2		0 / 0		1	20 A	E	SPARE	16
17							0 / 0	1	20 A	E	SPARE	18
19	SPARE	E	20 A	2	0 / 0			1	20 A	ER	LIBRARY FLOOR BOX	20
21						0 / 0		1	20 A	E	SPARE	22
23	CUH-A1 VESTIBULE V103	E	20 A	1			190 / 1656	1	20 A	E	VUV-C 3/4HP CLASSROOM (1ST) 150	24
25	VUV-B 3/4HP CLASSROOM (1ST) 145	E	20 A	1	1656 / 1656			1	20 A	E	VUV-C 3/4HP CLASSROOM (1ST) 152	26
27	VUV-B 3/4HP CLASSROOM (1ST) 146	E	20 A	1		1656 / 1656		1	20 A	E	VUV-C 3/4HP CLASSROOM (1ST) 157	28
29	VUV-B 3/4HP CLASSROOM (1ST) 147	E	20 A	1			1656 / 1656	1	20 A	E	VUV-C 3/4HP CLASSROOM (1ST) 159	30
31	PUH-D BUILDING STORAGE 148	E	20 A	1	96 / 96			1	20 A	E	PUH-D JAN. 161	32
33	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	34
35	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	36
37	SPARE	E	20 A	1	0 / 0			1	--		SPACE	38
39	SPACE		--	1		0 / 0		1	--		SPACE	40
41	SPACE		--	1			0 / 0	1	--		SPACE	42
				TOTALS :	4004 VA	3812 VA	5158 VA					

TOTAL CONNECTED LOAD (VA) : 12974 VA **TOTAL CONNECTED LOAD (AMPS) :** 36 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN. VERIFY IN FIELD. LEAVE AS SPARE IF UNUSED.

LPBM(R) — PANELBOARD SCHEDULE

LOCATION : ELEC. 184 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 100 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	TCP AHU-3 MECH 181	E	20 A	1	1000 / 190			1	20 A	E	CUH-A VESTIBULE V104	2
3	VUV-C 3/4HP STORAGE 183B	E	20 A	1		1656 / 200		1	20 A	E	CUH-B VESTIBULE V105	4
5	VUV-C 3/4HP STORAGE 185A	E	20 A	1			1656 / 525	2	20 A		DXFC UNIT ROOM 189-192	6
7	VUV-C 3/4HP MUSIC LAB 186	E	20 A	1	1656 / 525							8
9	EF-A ELEC. 184	E	20 A	1		300 / 0		1	20 A	E	SPARE	10
11	EXHAUST FAN EF-F AREA B ROOFTOP	E	20 A	1			300 / 0	1	20 A	E	SPARE	12
13	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	14
15	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	16
17	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	18
19	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	20
21	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	22
23	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	24
25	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	26
27	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	28
29	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	30
31	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	32
33	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	34
35	SPARE	E	20 A	1			0 / 546	2	15 A		ERV-5 AND DXFC-5 MECH. 192A	36
37	SPARE	E	20 A	1	0 / 546							38
39	SPACE		--	1		0 / 1500		2	20 A		DXFC-5 DUCT HEATER MECH. 192A	40
41	SPACE		--	1			0 / 1500					42
				TOTALS :	3917 VA	3656 VA	4527 VA					

TOTAL CONNECTED LOAD (VA) : 12099 VA **TOTAL CONNECTED LOAD (AMPS) :** 34 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.

LPCM — PANELBOARD SCHEDULE

LOCATION : Space 13 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 150 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	VUV-B 3/4HP CLASSROOM (3RD) 136	E	20 A	1	1656 / 0			2	20 A	E	SPARE	2
3	VUV-B 3/4HP CLASSROOM (3RD) 137	E	20 A	1		1656 / 0						4
5	VUV-B 3/4HP CLASSROOM (4TH) 143	E	20 A	1			1656 / 0	2	20 A	E	SPARE	6
7	VUV-B 3/4HP CLASSROOM (4TH) 144	E	20 A	1	1656 / 0							8
9	VUV-B 3/4HP CLASSROOM (3RD) 125	E	20 A	1		1656 / 1656		1	20 A	E	VUV-B 3/4HP CLASSROOM (5TH) 236	10
11	VUV-B 3/4HP CLASSROOM (4TH) 135	E	20 A	1			1656 / 1656	1	20 A	E	VUV-B 3/4HP CLASSROOM (5TH) 237	12
13	CUH-A3 CORRIDOR C119	E	20 A	1	190 / 0			2	20 A	E	SPARE	14
15	SPARE	E	20 A	1		0 / 0						16
17	SPARE	E	20 A	1			0 / 0	2	20 A	E	SPARE	18
19	TCP AHU-4 GRADE LEVEL STORAGE 240	E	20 A	1	1000 / 0							20
21	EXHAUST FAN EF-D1 AREA C ROOF	E	20 A	1		696 / 1656		1	20 A	E	VUV-B 3/4HP CLASSROOM (6TH) 242	22
23	EXHAUST FAN EF-D2 AREA C ROOF	E	20 A	1			696 / 1656	1	20 A	E	VUV-B 3/4HP CLASSROOM (6TH) 243	24
25	EXHAUST FAN EF-D2 AREA C ROOF	E	20 A	1	696 / 1656			1	20 A	E	VUV-B 3/4HP CLASSROOM (5TH) 225	26
27	EXHAUST FAN EF-G AREA C ROOF	E	20 A	1		300 / 1656		1	20 A	E	VUV-B 3/4HP CLASSROOM (6TH) 235	28
29	EXHAUST FAN - #7 - E&W	ER	20 A	1			0 / 300	1	20 A	E	EF-A ELEC. 241	30
31	FIRE ALARM - NAC PANEL	ER	20 A	1	0 / 0			1	20 A	ER	EXHAUST FAN - #1	32
33	AUXILLARY FANS - HALLS	ER	20 A	1		0 / 0		1	20 A	ER	EXHAUST FAN - #3	34
35	EXHAUST FAN - #12	ER	20 A	1			0 / 0	1	20 A	E	SPARE	36
37	EXHAUST FAN - #2	E	20 A	1	0 / 0			1	20 A	E	SPARE	38
39	EXHAUST FAN - #5	ER	20 A	1		0 / 0		1	20 A	E	SPARE	40
41	IRV - 1	ER	20 A	1			0 / 0	1	20 A	E	SPARE	42
				TOTALS :	6854 VA	9276 VA	7620 VA					

TOTAL CONNECTED LOAD (VA) : 23750 VA **TOTAL CONNECTED LOAD (AMPS) :** 66 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN.

LPC2 — PANELBOARD SCHEDULE

LOCATION : Space 13 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 100 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECEPT CLASSROOM (5TH) 225	E	20 A	1	1260 / 1260			1	20 A	E	RECEPT CLASSROOM (5TH) 236	2
3	RECEPT CLASSROOM (5TH) 225	E	20 A	1		540 / 540		1	20 A	E	RECEPT CLASSROOM (5TH) 236	4
5	RECEPT ROOM 226, 227	E	20 A	1			1440 / 540	1	20 A	E	RECEPT CLASSROOM (5TH) 237	6
7	RECEPT ACTIVITY COMMONS 228	E	20 A	1	1080 / 1260			1	20 A	E	RECEPT CLASSROOM (5TH) 237	8
9	EWC ACTIVITY COMMONS 228	E	20 A	1		680 / 900		1	20 A	E	RECEPT ROOM 239, 240, SOUTH C208	10
11	RECEPT FLEX CLASSROOM (5TH/6TH) 229	E	20 A	1			540 / 1000	1	20 A	E	COPIER WORK ROOM/ SHARED OFFICE 239	12
13	RECEPT FLEX CLASSROOM (5TH/6TH) 229	E	20 A	1	1260 / 1260			1	20 A	E	RECEPT CLASSROOM (6TH) 242	14
15	RECEPT ROOM 230, CORRIDOR C208	E	20 A	1		900 / 540		1	20 A	E	RECEPT CLASSROOM (6TH) 242	16
17	RECEPT ROOM 232, 233	E	20 A	1			1080 / 540	1	20 A	E	RECEPT CLASSROOM (6TH) 243	18
19	RECEPT ACTIVITY COMMONS 234	E	20 A	1	1080 / 1260			1	20 A	E	RECEPT CLASSROOM (6TH) 243	20
21	RECEPT ACTIVITY COMMONS 234	E	20 A	1		680 / 0		1	20 A	E	SPARE	22
23	RECEPT CLASSROOM (6TH) 235	E	20 A	1			540 / 0	1	20 A	E	SPARE	24
25	RECEPT CLASSROOM (6TH) 235	E	20 A	1	1260 / 0			1	20 A	E	SPARE	26
27	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	28
29	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	30
31	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	32
33	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	34
35	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	36
37	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	38
39	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	40
41	SPARE	E	20 A	1			0 / 0	1	20 A	ER	ELEVATOR CONTROL	42
				TOTALS :	10980 VA	4780 VA	5680 VA					

TOTAL CONNECTED LOAD (VA) : 21440 VA **TOTAL CONNECTED LOAD (AMPS) :** 60 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUITS TO REMAIN.

LPC1 — PANELBOARD SCHEDULE

LOCATION : GRADE LEVEL... | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 150 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECEPT CLASSROOM (3RD) 125		20 A	1	1260 / 1260			1	20 A		RECEPT CLASSROOM (3RD) 136	2
3	RECEPT CLASSROOM (3RD) 125		20 A	1		540 / 540		1	20 A		RECEPT CLASSROOM (3RD) 136	4
5	RECEPT ROOM 126, 127		20 A	1			1440 / 540	1	20 A		RECEPT CLASSROOM (3RD) 137	6
7	RECEPT ACTIVITY COMMONS 128		20 A	1	1080 / 1260			1	20 A		RECEPT CLASSROOM (3RD) 137	8
9	EWC ACTIVITY COMMONS 128		20 A	1		680 / 1080		1	20 A		RECEPT ROOM 140, 141, 142, SOUTH C108	10
11	RECEPT FLEX CLASSROOM (3RD/4TH) 129		20 A	1			540 / 1000	1	20 A		COPIER WORK ROOM/ SHARED OFFICE 140	12
13	RECEPT FLEX CLASSROOM (3RD/4TH) 129		20 A	1	1260 / 1260			1	20 A		RECEPT CLASSROOM (4TH) 143	14
15	RECEPT ROOM 130, CORRIDOR C108		20 A	1		1080 / 540		1	20 A		RECEPT CLASSROOM (4TH) 143	16
17	RECEPT ROOM 132, 133		20 A	1			1080 / 540	1	20 A		RECEPT CLASSROOM (4TH) 144	18
19	RECEPT ACTIVITY COMMONS 134		20 A	1	1080 / 1260			1	20 A		RECEPT CLASSROOM (4TH) 144	20
21	EWC ACTIVITY COMMONS 134		20 A	1		680 / 180		1	20 A		RECEPT IDF 139	22
23	RECEPT CLASSROOM (4TH) 135		20 A	1			540 / 540	1	20 A		RECEPT IDF139	24
25	RECEPT CLASSROOM (4TH) 135		20 A	1	1260 / 0			1	20 A		SPARE	26
27	SPARE		20 A	1		0 / 0		1	20 A		SPARE	28
29	SPARE		20 A	1			0 / 0	1	20 A		SPARE	30
31	SPARE		20 A	1	0 / 0			1	20 A		SPARE	32
33	SPARE		20 A	1		0 / 0		1	20 A		SPARE	34
35	SPARE		20 A	1			0 / 0	1	20 A		SPARE	36
37	SPARE		20 A	1	0 / 0			1	20 A		SPARE	38
39	SPARE		20 A	1		0 / 0		1	20 A		SPARE	40
41	SPARE		20 A	1			0 / 0	1	20 A		SPARE	42
				TOTALS :	10980 VA	5320 VA	6220 VA					

TOTAL CONNECTED LOAD (VA) : 22520 VA **TOTAL CONNECTED LOAD (AMPS) :** 63 A

REMARKS:

NOTES:

LLC2 — PANELBOARD SCHEDULE

LOCATION : Space 13 | **SCCR (AMPS RMS SYMM):** | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **AMP :** 125 A | **MAIN :** MLO | **NEMA:** Type 1 | **MOUNTING :** SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	LIGHTING CLASSROOM (3RD) 135	E	20 A	1	715 / 0			1	20 A	E	SPARE	2
3	LIGHTING CLASSROOM (3RD) 125	E	20 A	1		715 / 0		1	20 A	E	SPARE	4
5	LIGHTING CLASSROOM (3RD) 136	E	20 A	1			715 / 0	1	20 A	E	SPARE	6
7	LIGHTING CLASSROOM (3RD) 137	E	20 A	1	715 / 0			1	20 A	E	SPARE	8
9	LIGHTING CLASSROOM (4TH) 143	E	20 A	1		715 / 0		1	20 A	ER	LIGHTS 1ST FLOOR CORRIDOR	10
11	LIGHTS ELEVATOR ROOM	ER	20 A	1			0 / 0	1	20 A	ER	LIGHTS 1ST FLOOR CORRIDOR	12
13	LIGHTING CLASSROOM (4TH) 144	E	20 A	1	715 / 0			1	20 A	E	SPARE	14
15	LIGHTING ROOM 136-134	E	20 A	1		1290 / 0		1	20 A	ER	TIME CLOCK-C-W-OU-LGT	16
17	CORRIDOR EXIT, EM LGT 1ST & 2ND FLR	E	20 A	1			80 / 0	1	20 A	E	SPARE	18
19	LIGHTING ROOM 139, 140, 142	E	20 A	1	188 / 0			1	20 A	E	SPARE	20
21	LIGHTING CLASSROOM (5TH) 225	E	20 A	1		715 / 0		1	20 A	E	SPARE	22
23	LIGHTING CLASSROOM (5TH) 236	E	20 A	1			715 / 0	1	20 A	E	SPARE	24
25	LIGHTING CLASSROOM (5TH) 237	E	20 A	1	715 / 0			1	20 A	E	SPARE	26
27	LIGHTING ROOM 239, 240	E	20 A	1		176 / 0		1	20 A	E	SPARE	28
29	LIGHTING CLASSROOM (6TH) 242	E	20 A	1			715 / 0	1	20 A	E	SPARE	30
31	LIGHTING CLASSROOM (6TH) 243	E	20 A	1	715 / 0			1	20 A	ER	LIGHTS 2ND FLOOR CORRIDOR	32
33	LIGHTING CLASSROOM (6TH) 235	E	20 A	1		715 / 0		1	20 A	ER	LIGHTS 2ND FLOOR CORRIDOR	34
35	LIGHTING ROOM 226-234	E	20 A	1			1290 / 0	1	20 A	E	SPARE	36
37	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	38
39	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	40
41	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	42
				TOTALS :	3764 VA	4327 VA	3516 VA					

TOTAL CONNECTED LOAD (VA) : 11606 VA **TOTAL CONNECTED LOAD (AMPS) :** 32 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN.

2

BCSC
TOGETHER WE LEARN

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #2 03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
SCHEDULES - PANELBOARDS

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
Timothy E. Hill 02/16/2024

DRAWING NUMBER
E612

PROJECT NUMBER
22054

LLD — PANELBOARD SCHEDULE

LOCATION : ELEC. 197A | SCCR (AMPS RMS SYMM): | SERVICE : 208Y/120V 3Φ 4-Wire+Ground | AMP : 125 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	DIMMER-GYM-LIGHTING	ER	20 A	1	0 / 0			1	20 A	ER	DIMMER-GYM-LIGHT	2
3	DIMMER-GYM-LIGHTING	ER	20 A	1		0 / 0		1	20 A	ER	DIMMER-GYM-LIGHT	4
5	DIMMER-GYM-LIGHTING	ER	20 A	1			0 / 0	1	20 A	ER	DIMMER-GYM-LIGHT	6
7	DIMMER-GYM-LIGHTING	ER	20 A	1	0 / 0			1	20 A	ER	LIGHTS GYM & STAGE	8
9	DIMMER-CAFE-LIGHTS	ER	20 A	1		0 / 0		1	20 A	ER	DIMMER-CAFE-LIGHT	10
11	DIMMER-CAFE-LIGHTS	ER	20 A	1			0 / 0	1	20 A	ER	DIMMER-CAFE-LIGHT	12
13	DIMMER-CAFE-LIGHTS	ER	20 A	1	0 / 0			1	20 A	ER	DIM-SPARE-GYM PANEL	14
15	DIMMER-GYM-LIGHTING	ER	20 A	1		0 / 0		1	20 A	ER	DIM-SPARE-GYM PANEL	16
17	SPARE-DIM-GYM PANEL	ER	20 A	1			0 / 0	1	20 A	ER	SPARE-GYM-DIM-PANEL	18
19	LGTS-CORR & COURT YARD	ER	20 A	1	0 / 0			1	20 A	ER	LGTS-P.E. OFFICE-STORAGE	20
21	LGTS-CORR & COURT YARD	ER	20 A	1		0 / 0		1	20 A	E	SPARE	22
23	LGTS-MEZZ-DISPLAY CASE	ER	20 A	1			0 / 0	1	20 A	ER	LIGHTS-BOILER ROOM	24
25	LIGHTS - COURTYARD	ER	20 A	1	0 / 0			1	20 A	ER	EMERGENCY LIGHTS	26
27	SPARE	ER	20 A	1		0 / 0		1	20 A	ER	LGTS-GYM & CAFETERIA	28
29	TWO-POLE-LIGHTS-PILOT	ER	20 A	1			0 / 0	1	20 A	ER	LIGHTS-D-WING-ENTRANCE	30
31	?	ER	20 A	1	0 / 0			1	20 A	E	SPARE	32
33	?	ER	20 A	1		0 / 0		1	20 A	E	SPARE	34
35	LIGHTING CORRDIOR C114	E	20 A	1			605 / 0	1	20 A	E	SPARE	36
37	LGTN 193C, 194, 195, 196B. GYM & CAFE ENT	E	20 A	1	522 / 0			1	20 A	E	SPARE	38
39	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	40
41	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	42
				TOTALS :	522 VA	0 VA	605 VA					

TOTAL CONNECTED LOAD (VA) : 1127 VA | TOTAL CONNECTED LOAD (AMPS) : 3 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN.

LPDM — PANELBOARD SCHEDULE

LOCATION : MECHANICAL 197 | SCCR (AMPS RMS SYMM): | SERVICE : 208Y/120V 3Φ 4-Wire+Ground | AMP : 225 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	TAC - PANEL	ER	20 A	1	0 / 0			1	20 A	ER	RECEPTACLE - B.R.	2
3	TAC - PANEL	ER	20 A	1		0 / 0		1	20 A	ER	RECEPTACLE - B.R.	4
5	SPARE	ER	20 A	1			0 / 0	1	20 A	ER	CHILLER PIPE HEAT TAPE	6
7	SPARE	ER	20 A	1	0 / 0			1	20 A	ER	PUMP #5 FUEL	8
9	SPARE	ER	20 A	1		0 / 0		1	20 A	ER	PUMP #6 FUEL	10
11	UNIT HEATER - KITCHEN	ER	20 A	1			0 / 0	1	20 A	ER	EXHAUST FAN #10	12
13	SOUTH BOILER CONTROL	ER	20 A	1	0 / 0			1	20 A	ER	NORTH BOILER CONTROL	14
15	WATER HEATER #2	ER	20 A	1		0 / 0		1	20 A	ER	L. WATER CIRCULATING P.	16
17	WATER HEATER #1	ER	20 A	1			0 / 0	1	20 A	ER	R. WATER CIRCULATING P.	18
19	?	ER	20 A	1	0 / 0			1	20 A	ER	SPARE	20
21	SPARE	ER	20 A	1		0 / 0		1	20 A	ER	SPARE	22
23	SPARE	ER	20 A	1			0 / 0	1	20 A	ER	SPARE	24
25	SPARE	ER	20 A	1	0 / 0			1	20 A	ER	RECEPTACLE B.R.	26
27	SPARE	ER	20 A	1		0 / 0		1	20 A	ER	SPARE	28
29							0 / 0	1	20 A	ER	SPARE	30
31	SPARE	ER	20 A	3	0 / 0			1	20 A	ER	RECEPTACLE B.R.	32
33						0 / 0		1	--		SPACE	34
35	PUH-B1 STORAGE 297A		20 A	1			864 / 1000	1	20 A		TCP RTU-1 MECH. MEZZANINE 297	36
37	PUH-B2 MECH. MEZZANINE 297		20 A	1	864 / 1000			1	20 A		TCP AHU-1 MECH. MEZZANINE 297	38
39	PUH-B3 MECH. MEZZANINE 297		20 A	1		864 / 1000		1	20 A		TCP AHU-2 MECH. MEZZANINE 297	40
41	EF-E 1/4HP MECH. MEZZANINE 297		20 A	1			696 / 360	1	20 A		AV RACK RECEPT MECH. MEZZ. 297	42
				TOTALS :	1864 VA	1864 VA	2920 VA					

TOTAL CONNECTED LOAD (VA) : 6648 VA | TOTAL CONNECTED LOAD (AMPS) : 18 A

REMARKS:
EXISTING PANELBOARD

NOTES:
ER - EXISTING CIRCUIT TO REMAIN. VERIFY IN FIELD. LEAVE AS SPARE IF UNUSED.

LPD — PANELBOARD SCHEDULE

LOCATION : ELEC. 197A | SCCR (AMPS RMS SYMM): | SERVICE : 208Y/120V 3Φ 4-Wire+Ground | AMP : 100 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	PUH-C STORAGE 193C, 196A		20 A	1	400 / 0			1	20 A	E	SPARE	2
3	CUH-F RESTROOM 194A, 194B		20 A	1		400 / 0		1	20 A	E	SPARE	4
5	RECEPT STORAGE 195, 196B		20 A	1			360 / 0	1	20 A	E	SPARE	6
7	SPARE	ER	20 A	1	0 / 0			1	20 A	ER	SPARE	8
9	SPARE	ER	20 A	1		0 / 0		1	20 A	E	SPARE	10
11	SPARE	ER	20 A	1			0 / 0	1	20 A	E	SPARE	12
13	SPARE	E	20 A	1	0 / 0			1	20 A	ER	SPARE	14
15	SPARE	ER	20 A	1		0 / 0		1	20 A	E	SPARE	16
17	SPARE	ER	20 A	1			0 / 0	1	20 A	ER	SPARE	18
19	SPARE	ER	20 A	1	0 / 360			1	20 A	E	EWC GYM	20
21	SPARE	ER	20 A	1		0 / 360		1	20 A	E	EWC CAFETERIA 196	22
23	SPARE	E	20 A	1			0 / 360	1	20 A	E	SINKS RESTROOM 194	24
25	SPARE	E	20 A	2	0 / 360			1	20 A	E	RECEPT RESTROOM 194	26
27						0 / 0		1	20 A	ER	SPARE	28
29	SPARE	E	20 A	2			0 / 0	2	20 A	ER	SPARE	30
31					0 / 0							32
33	SPARE	E	20 A	2		0 / 0		1	20 A	ER	SPARE	34
35							0 / 0	2	20 A	ER	SPARE	36
37	SPARE	E	20 A	2	0 / 0							38
39						0 / 0		2	20 A	ER	SPARE	40
41	SPACE		--	1			0 / 0					42
				TOTALS :	1120 VA	760 VA	720 VA					

TOTAL CONNECTED LOAD (VA) : 2600 VA | TOTAL CONNECTED LOAD (AMPS) : 7 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN.

LPK(L) — PANELBOARD SCHEDULE

LOCATION : ELEC. 197A | SCCR (AMPS RMS SYMM): | SERVICE : 208Y/120V 3Φ 4-Wire+Ground | AMP : 400 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECEPT-FLOOR-SALAD BAR	ER	20 A	1	0 / 0			1	20 A	ER	REFRIGERATOR	2
3	SERV-TABL-CASH REG-W	ER	20 A	1		0 / 0		1	20 A	ER	SERV-TAB-CASH REGIS-E	4
5	SERV-TABL-COMPR-LGTS	ER	20 A	1			0 / 0	1	20 A	ER	SERVING-TABLE-COMP LGT	6
7	ANSEL-SYST-CONTRACTOR	ER	20 A	1	0 / 0			1	20 A	ER	EXHAUST FAN - 6	8
9	SPARE	E	20 A	1		0 / 0		1	20 A	ER	T. EXHAUST FAN - 3	10
11	SPARE	E	20 A	1			0 / 300	1	20 A	E	EXHAUST FAN EF-C KITCHEN ROOF	12
13	SPARE	E	20 A	1	0 / 0			1	20 A	ER	WORK-TABLE-RECEPT-E	14
15	SPARE	E	20 A	1		0 / 0		1	20 A	ER	RECEPT-WORK-TABLE-E	16
17	SPARE	E	20 A	1			0 / 0	1	20 A	ER	RECEPT-WORK-TABLE-E	18
19	MICROWAVE	ER	30 A	2	0 / 0			1	20 A	ER	KETLLE - CONTROL	20
21						0 / 0		1	20 A	ER	RECEPTACLE - WORK TABLE	22
23	REF-HALF&HALF-E-WAR	ER	20 A	2			0 / 0	1	20 A	ER	RECEPTACLE-WORK TABLE	24
25					0 / 0			1	--		SPACE	26
27	REFR-HALF&HALF-W-WAR	ER	20 A	2		0 / 0						28
29							0 / 0	3	90 A	ER	STOVE	30
31					0 / 0							32
33	QUART-MIXER	ER	20 A	3		0 / 0		1	20 A	ER	110 V-REFRIG-WARMER	34
35							0 / 0	1	20 A	ER	ICE MACHINE	36
37	RECEPT-KIT-EAST WALL	ER	20 A	1	0 / 0			1	20 A	ER	RECEPT-OFFICE-LOCKER	38
39	RECEPT-LOCKER-STORAGE	ER	20 A	1		0 / 0		1	20 A	E	SPARE	40
41	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	42
				TOTALS :	0 VA	0 VA	300 VA					

TOTAL CONNECTED LOAD (VA) : 300 VA | TOTAL CONNECTED LOAD (AMPS) : 1 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN.

LPK(R) — PANELBOARD SCHEDULE

LOCATION : ELEC. 197A | SCCR (AMPS RMS SYMM): | SERVICE : 208Y/120V 3Φ 4-Wire+Ground | AMP : 400 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	LIGHTS - HOOD	ER	20 A	1	0 / 0			1	20 A	ER	SP-CIR-KIT-JBOX-A-OFF	2
3	SP-IN-HOOD-FOR-CONTROL	ER	20 A	1		0 / 0		1	20 A	ER	SP-CIR-KIT-JBOX-A-OFF	4
5	SPARE	ER	20 A	1			0 / 0	1	20 A	ER	SP-CIR-KIT-JBOX-A-OFF	6
7	DISH-AREA-LIGHTS	ER	20 A	1	0 / 0			1	20 A	ER	?	8
9	LIGHTS - KITCHEN	ER	20 A	1		0 / 300		1	20 A		EXHAUST FAN EF-B KITCHEN ROOF	10
11	LIGHTS-KITCHEN	ER	20 A	1			0 / 0	1	20 A	ER	EXHAUST FAN - 5	12
13					0 / 0			1	20 A	ER	LIGHTS - FREEZER - COOLER	14
15	COMPRESSOR	ER	20 A	3		0 / 200		1	20 A	E	FAN COIL FC-A OFFICE 198E	16
17							0 / 0	2	30 A	ER	HOT-FD-SERVING-TAB-E	18
19					0 / 0							20
21	WALK-IN-COOLER-COM	ER	20 A	3		0 / 0		2	30 A	ER	HOT-FD-SERVING-TAB-W	22
23							0 / 0					24
25					0 / 0			2	20 A	E	SPARE	26
27	WALK-IN-FREEZR-COM	ER	30 A	3		0 / 0						28
29							0 / 600	1	20 A	P	CUH-E DRY STORAGE 198D	30
31					0 / 244			1	20 A	P	CUH-D VEST. V106, PUH-C CORR. C116	32
33	SPARE	E	20 A	3		0 / 288		1	20 A	P	HEATER PUH-C SERVING 198	34
35							0 / 0	1	20 A	P	SPARE	36
37					0 / 0							38
39	SPARE	E	20 A	3		0 / 0		3	20 A	E	SPARE	40
41							0 / 0					42
				TOTALS :	244 VA	788 VA	600 VA					

TOTAL CONNECTED LOAD (VA) : 1632 VA | TOTAL CONNECTED LOAD (AMPS) : 5 A

REMARKS:
EXISTING SQUARE D PANELBOARD TYPE 'NQOD'

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.
ER - EXISTING CIRCUIT TO REMAIN.
P - PROVIDE NEW BREAKER.

HPK(L) — PANELBOARD SCHEDULE

LOCATION : ELEC. 197A | SCCR (AMPS RMS SYMM): | SERVICE : None | AMP : 400 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1					0 / 0							2
3	EXISTING CIRCUIT		20 A	3		0 / 0		3	20 A		EXISTING CIRCUIT	4
5							0 / 0					6
7					0 / 0							8
9	EXISTING CIRCUIT		20 A	3		0 / 0		3	20 A		EXISTING CIRCUIT	10
11							0 / 0					12
13					0 / 0							14
15	EXISTING CIRCUIT		20 A	3		0 / 0		3	20 A		EXISTING CIRCUIT	16
17							0 / 0					18
19					0 / 0							20
21	EXISTING CIRCUIT		40 A	3		0 / 0		3	40 A		EXISTING CIRCUIT	22
23							0 / 0					24
25					0 / 0			1	--		SPACE	26
27	EXISTING CIRCUIT		30 A	3		0 / 0		1	--		SPACE	28
29							0 / 0	1	--		SPACE	30
31	SPACE		--	1	0 / 0			1	--		SPACE	32
33	SPACE		--	1		0 / 0		1	--		SPACE	34
35	SPACE		--	1			0 / 0	1	--		SPACE	36
37	SPACE		--	1	0 / 0			1	--		SPACE	38
39	SPACE		--	1		0 / 0		1	--		SPACE	40
41	SPACE		--	1			0 / 0	1	--		SPACE	42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA | TOTAL CONNECTED LOAD (AMPS) : Not Computed

REMARKS:
EXISTING SQUARE D PANELBOARD.

NOTES:
ALL CIRCUITS TO REMAIN.

HPK(R) — PANELBOARD SCHEDULE

LOCATION : ELEC. 197A | SCCR (AMPS RMS SYMM): | SERVICE : None | AMP : 400 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1					0 / 0							2
3	EXISTING CIRCUIT		20 A	3		0 / 0		3	20 A		EXISTING CIRCUIT	4
5							0 / 0					6
7					0 / 0							8
9	EXISTING CIRCUIT		20 A	3		0 / 0		3	20 A		EXISTING CIRCUIT	10
11							0 / 0					12
13					0 / 0							14
15	EXISTING CIRCUIT		20 A	3		0 / 0		3	20 A		EXISTING LOAD	16
17							0 / 0					18
19					0 / 0			1	--		SPACE	20
21	EXISTING CIRCUIT		40 A	3		0 / 0		1	--		SPACE	22
23							0 / 0	1	--		SPACE	24
25					0 / 0			1	--		SPACE	26
27	EXISTING CIRCUIT		90 A	3		0 / 0		1	--		DO NOT REMOVE THIS TWISTOUT	28
29							0 / 0	1	--		DO NOT REMOVE THIS TWISTOUT	30
31	SPACE		--	1	0 / 0			1	--		SPACE	32
33	SPACE		--	1		0 / 0		1	--		SPACE	34
35	SPACE		--	1			0 / 0	1	--		SPACE	36
37	SPACE		--	1	0 / 0			1	--		SPACE	38
39	SPACE		--	1		0 / 0		1	--		SPACE	40
41	SPACE		--	1			0 / 0	1	--		SPACE	42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA | TOTAL CONNECTED LOAD (AMPS) : Not Computed

REMARKS:
EXISTING SQUARE D PANELBOARD.

NOTES:
ALL CIRCUITS TO REMAIN.

HPM — PANELBOARD SCHEDULE

LOCATION : MECH. MEZZANINE 297 | SCCR (AMPS RMS SYMM): | SERVICE : 480Y/277V 3Φ 4-Wire+Ground | AMP : 200 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1					443 / 6371							2
3	E. EXHAUST FAN EF-11		20 A	3		443 / 6371		3	30 A		ROOFTOP UNIT (RTU-1) VFD MECH. MEZZANINE 297 UNIT LOCATED AREA D ROOFTOP	4
5							443 / 6371					6
7	SPARE		20 A	1	0 / 0							8
9	SPARE		20 A	1		0 / 0		3	30 A		SPARE	10
11	SPARE		20 A	1			0 / 0					12
13	SPARE		20 A	1	0 / 0			1	20 A		SPARE	14
15	SPARE		20 A	1		0 / 0		1	20 A		SPARE	16
17	SPARE		20 A	1			0 / 0	1	20 A		SPARE	18
19	SPARE		20 A	1	0 / 0							20
21	SPARE		20 A	1		0 / 0		3	20 A		SPARE	22
23	SPARE		20 A	1			0 / 0					24
25					0 / 0							26
27	SPARE		40 A	3		0 / 0		3	20 A		SPARE	28
29							0 / 0					30
31					5817 / 3047							32
33	AIR HANDLING UNIT (AHU-1) SUPPLY FAN 14HP MECH. MEZZANINE 297		40 A	3		5817 / 3047		3	20 A		AIR HANDLING UNIT (AHU-2) SUPPLY FAN 6.5HP MECH. MEZZANINE 297	34
35							5817 / 3047					36
37					3047 / 2105							38
39	AIR HANDLING UNIT (AHU-1) RETURN FAN 6HP MECH. MEZZANINE 297		20 A	3		3047 / 2105		3	20 A		AIR HANDLING UNIT (AHU-2) RETURN FAN 3.5HP MECH. MEZZANINE 297	40
41							3047 / 2105					42
				TOTALS :	20831 VA	20831 VA	20831 VA					

TOTAL CONNECTED LOAD (VA) : 62492 VA | TOTAL CONNECTED LOAD (AMPS) : 75 A

REMARKS:
PANELBOARD TO REPLACE MOTOR CONTROL CENTER 'MCC-DM'.

NOTES:

LHD — PANELBOARD SCHEDULE

LOCATION : ELEC. 197A | SCCR (AMPS RMS SYMM): | SERVICE : None | AMP : 100 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	EXISTING CIRCUIT		20 A	1	0 / 0			1	20 A		EXISTING CIRCUIT	2
3	EXISTING CIRCUIT		20 A	1		0 / 0		1	20 A		EXISTING CIRCUIT	4
5	EXISTING CIRCUIT		20 A	1			0 / 0	1	20 A		EXISTING CIRCUIT	6
7	EXISTING CIRCUIT		20 A	1	0 / 0			1	20 A		EXISTING CIRCUIT	8
9	EXISTING CIRCUIT		20 A	1		0 / 0		1	20 A		EXISTING CIRCUIT	10
11	EXISTING CIRCUIT		20 A	1			0 / 0	1	20 A		EXISTING CIRCUIT	12
13	EXISTING CIRCUIT		20 A	1	0 / 0			1	20 A		EXISTING CIRCUIT	14
15	EXISTING CIRCUIT		20 A	1		0 / 0		1	20 A		EXISTING CIRCUIT	16
17	EXISTING CIRCUIT		20 A	1			0 / 0	1	20 A		EXISTING CIRCUIT	18
19	EXISTING CIRCUIT		20 A	1	0 / 0			1	20 A		EXISTING CIRCUIT	20
21	SPACE		--	1		0 / 0						22
23	SPACE		--	1			0 / 0	3	20 A		EXISTING CIRCUIT	24
25	SPACE		--	1	0 / 0							26
27	SPACE		--	1		0 / 0						28
29	SPACE		--	1			0 / 0	3	20 A		EXISTING CIRCUIT	30
31	SPACE		--	1	0 / 0							32
33	SPACE		--	1		0 / 0						34
35	SPACE		--	1			0 / 0	3	20 A		EXISTING CIRCUIT	36
37	SPACE		--	1	0 / 0							38
39	SPACE		--	1		0 / 0		1	--		SPACE	40
41	SPACE		--	1			0 / 0	1	--		SPACE	42
				TOTALS :	0 VA	0 VA	0 VA					

TOTAL CONNECTED LOAD (VA) : 0 VA | TOTAL CONNECTED LOAD (AMPS) : Not Computed

REMARKS:
EXISTING SQUARE D PANELBOARD.

NOTES:
ALL CIRCUITS TO REMAIN.

HEQ — PANELBOARD SCHEDULE

LOCATION : ELEC. 197A | SCCR (AMPS RMS SYMM): | SERVICE : 480Y/277V 3Φ 4-Wire+Ground | AMP : 200 A | MAIN : MLO | NEMA: Type 1 | MOUNTING : SURFACE

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	SPARE	E	20 A	1	0 / 0			1	20 A	E	SPARE	2
3	SPARE	E	20 A	1		0 / 0		1	20 A	E	SPARE	4
5	SPARE	E	20 A	1			0 / 0	1	20 A	E	SPARE	6
7					0 / 0							8
9	SPARE	E	15 A	3		0 / 0		3	20 A		SPARE	10
11							0 / 0					12
13					0 / 0							14
15	SPARE	E	15 A	3		0 / 0		3	15 A	E	SPARE	16
17							0 / 0					18
19					0 / 0							20
21	SPARE	E	15 A	3		0 / 0		3	15 A	E	SPARE	22
23							0 / 0					24
25					3047 / 0							26
27	AIR HANDLING UNIT (AHU-1) SUPPLY FAN 7.5HP UNIT LOCATED ON AREA C ROOF	E	20 A	3		3047 / 0		3	15 A	E	SPARE	28
29							3047 / 0					30
31					2105 / 0							32
33	AIR HANDLING UNIT (AHU-1) RETURN FAN 4HP UNIT LOCATED ON AREA C ROOF	E	15 A	3		2105 / 0		3	15 A	E	SPARE	34
35							2105 / 0					36
37	SPACE		--	1	0 / 0			1	--		SPACE	38
39	SPACE		--	1		0 / 0		1	--		SPACE	40
41	SPACE		--	1			0 / 0	1	--		SPACE	42
				TOTALS :	5152 VA	5152 VA	5152 VA					

TOTAL CONNECTED LOAD (VA) : 15457 VA | TOTAL CONNECTED LOAD (AMPS) : 19 A

REMARKS:
EXISTING SQUARE D 'NF' PANELBOARD

NOTES:
E - CONNECT TO EXISTING BREAKER. LEAVE AS SPARE IF UNUSED.

2

BCSC
TOGETHER WE LEARN

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PROJECT:
BARTHOLOMEW CONSOLIDATED SCHOOL CORPORATION
RENOVATIONS TO
L. C. SCHMITT ELEMENTARY
2675 California St, Columbus, IN 47201

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #2 03/15/2024

ISSUE DATE	DRAWN BY	CHECKED BY
02/16/2024	GSR	DEW

DRAWING TITLE:
SCHEDULES - PANELBOARDS

CERTIFIED BY:
TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
Timothy E. Hill 02/16/2024

DRAWING NUMBER
E613

PROJECT NUMBER
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