ADDENDUM



ADDENDUM NO: 1

PROJECT: BCSC Columbus East High School – C4 Addition

PROJECT NO: 2025022 DATE: 11/03/2025 BY: Josh Cannaday

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 – ADD1-3

Attached Documents: Specification section 00 42 01 – Bid Form

Specification section 01 23 00 – Alternates Specification section 08 71 00 – Door Hardware

Attached Drawing Sheets: C000, C400, C410, C800, C900, C901



PART 0 - GENERAL INFORMATION

0.1 N/A

PART 1 - BIDDING REQUIREMENTS

- 1.1 00 42 01 BID FORM
 - A. Add mandatory alternate #5 regarding PVC roofing membrane.
- 1.2 <u>01 10 00 SUMMARY</u>
 - A. Modify 1.09 Miscellaneous Provisions as follows:

1.09.A.3. Start of Construction: Materials, schedule, staging and scope will need to be presented to the Owner and approved prior to start of construction. Demolition may start once the current school year is completed after the last student day on May 23, 2023, pending no changes to the current school calendar due to inclement weather. Staging can begin a couple weeks before the end of the current school year. Staging and construction may begin after the end of the current semester. The last student day is December 19, 2025.

- 1.3 01 23 00 ALTERNATES
 - A. Add mandatory alternate #5 regarding PVC roofing membrane.



PART 2 - SPECIFICATIONS

2.1 <u>07 54 19 – POLYVINYL CHLORIDE (PVC) ROOFING</u>

A. Modify 2.01 PVC Membrane Roofing as follows:

2.01.A.1.d. Elevate.

2.01.A.1.e. **Duro-Last**

2.2 <u>08 71 00 – DOOR HARDWARE</u>

A. Delete original specification section in its entirety and replace with new door hardware specification.

2.3 10 28 00 – TOILET, BATH, AND LAUNDRY ACCESSORIES

- A. Modify 2.04 Childcare Accessories as follows:
- A. Manufacturers: Subject to compliance with requirements, provide the basis of design product Koala Kare KB110-SSWM KB300-SS or products by one of the following:
 - 1. American Specialties, Inc.
 - 2. Bradley Corporation.
 - 3. Koala Kare Products; a division of Bobrick Washroom Equipment, Inc.
 - 4. SSC, Inc.
 - 5. World Dryer Corp.
 - 6. Saniflow.

2.4 <u>10 51 00 – METAL LOCKERS</u>

A. Add manufacturer to 2.03 as follows:

2.03.A.7. Lockers MFG.

PART 3 - DRAWINGS

3.1 <u>C000 – TITLE SHEET</u>

A. Modified Drawing Index to identify the revised sheets & dates under this Addendum.

3.2 <u>C400 – DRAINAGE PLAN</u>

- A. Modified Pipe 203 invert from 618.28' to 618.30'.
- B. Added Existing water notes calling for contractor to pothole existing water crossing for proposed pipe 202.
- C. Added detail reference to Str 203.

Addendum No. 1 ADD1-2



D. Adjusted Structure and Pipe Tables.

3.3 C401 – STORMWATER PROFILES

- A. Modified Invert for Pipe 203, adjusting hatching accordingly.
- B. Added assumed existing water location.

3.4 C800 – SITE DETAILS

- A. Added top of weir elevation to detail 413.
- 3.5 <u>C900 STORMWATER POLLUTION PREVENTION PLAN</u>
 - A. Added temporary soil stockpile location if required.
- 3.6 C901 STORMWATER POLLUTION PREVENTION NOTES
 - A. Adjusted narrative of A9, A29, B2, B3, B4, B5, B6, B7, and B10.

PART 4 - OTHER ITEMS

4.1 NOT USED

PART 5 - QUESTIONS AND ANSWERS

- 5.1 Question: Specification Section 07 27 26 Fluid Applied Membrane Air Barriers, Paragraph 07 27 26,

 Paragraph 1.6.1 requires installer to be ABAA licensed. Many of the local contractors do not have this

 licensing and will preclude them from bidding this project. In lieu of licensing, would it be acceptable for the contractor to be an approved applicator by the respective specified manufacturers?
 - A. This is an acceptable solution. Contractor must have written documentation as an approved applicator for review prior to commencement of construction.
- 5.2 Question: Can EJOT Crossfix Cladding Attachment System be an approved product for 07 42 43.2.02.C?
 - A. This is an acceptable product for the attachment assembly component. The project was not originally detailed with this system and additional coordination might be required to meet the envelop requirements. All components of the wall system must be engineered to meet the loading requirements presented in the project manual and accompanying documents.

END ADDENDUM #1

Addendum No. 1 ADD1-3

SECTION 00 42 01 SUPPLEMENTARY BID FORM

SECTION 00 42 01 - SUPPLEMENTARY BID FORM

FOR (F	PROJECTS):	Columbus East High School – C ⁴ Addition 230 South Marr Road Columbus, Indiana 47201
TO (O\	WNER):	Bartholomew Consolidated School Corporation Administration Building 1200 Central Avenue Columbus, Indiana 47201
BY (CO	ONTRACTOR):	
	COMPANY NA	AME
	ADDRESS	
	CONTACT PE	RSON
	MOBILE PHON	NE
	EMAIL	
BID SU	JBMISSION CH	ECKLIST:
Each E	id shall contain	the following documents for consideration as a complete bid:
	00 41 00	Completed Form 96 (1 Copy)
	00 42 01	Completed Bid Form(s) (2 Copies)
	00 43 00	Bid Bond (1 Copy)
	00 45 13	Financial statements (1 Copy)
	g Documents pre	en, the undersigned proposes to complete the Work of the Project according to epared by CSO Architects, Inc., 8831 Keystone Crossing, Indianapolis, Indiana, for
BASE	BID:	nt in words)
	(amou	nt in words)
ADDE	NDA:	
	dersigned acknows s mentioned in	owledges receipt of the following Addenda and agrees that this proposal includes such Addenda:
No		
ALLOV	VANCES:	
The un	dersigned ackno	owledges that the base bid amount includes the following allowances:
Allowa	nce (Owner's Co	ontingency): \$

SECTION 00 42 01 SUPPLEMENTARY BID FORM

ALTERNATE BIDS:

The undersigned also proposes to furnish or to omit all labor and	materials necessary to complete work
as required by the "Alternate Bids", as provided for in the drawing	s and specifications as follows:
Alternate No. 1 – Building Controls	
	Add/Deduct \$
Alternate No. 2 – PVC Roof Replacement	
	Add/Deduct \$
Alternate No. 3 – Generator Replacement	
	Add/Deduct \$
Alternate No. 4A – Extend Fire Protection to Existing Building	
	Add/Deduct \$
Alternate No. 5 – PVC Roofing Manufacturer	
	Add/Deduct \$
COMPLETION OF WORK:	
The undersigned guarantees, if awarded the contract, to complete established in Section 01 10 00 SUMMARY OF WORK. Please in the line below.	
Proposed Date of Completion:	

BIDDER'S SIGNATURE:

IN TESTIMONY W	HEREOF, the Bidder	(an individual) has h	nereunto set his hand this	
	_day of	, 202		
(Individual)				
			nto set their hands this	
	_day of	, 202		
Firm Name:				
Ву				
Ву				
President and Secr	HEREOF, the Bidder retary and affixed its o	corporate seal this	caused this proposal to be	signed by its
Name of Corporation	on:			
President				
Secretary				
OATH AND AFFIR	MATION:			
I affirm under the pobest of my knowled		t the foregoing facts	and information are true ar	nd correct to the
Subscribed and sw	orn to before me by _			
this	_day of	, 202		
My Commission ex	pires	·		
Notary Public				-

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SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.03 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.04 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 SCHEDULE OF ALTERNATES

- A. Alternate No. 01 (Mandatory): Building Controls
 - 1. Base Bid: Provide building controls from Manufacturer of choice.
 - 2. Alternate Bid: Amount to add to contract sum for all Trane Controls Local Branch Office temperature controls provided with requirements specified in 23 09 00 Instrumentation and Controls for HVAC as shown on Drawings. Amount represents cost of systems, equipment and labor.
- B. Alternate No. 02: PVC Roof Replacement
 - Base Bid: Existing roof to south of new addition (approximately 6900 square feet) to be existing to remain except for work as required to install expansion joint to new addition, included but not limited to removal of metal panel and coping rework.
 - 2. Alternate Bid: Demolish existing blocking and EPDM roof membrane down to insulation. Install new coverboard and PVC roof membrane to meet requirements as described in Specification 07 54 19.
 - 3. Reference Sheet(s): A121
- C. Alternate No. 03: Generator Replacement
 - 1. Base Bid: Existing generator to remain in existing location.
 - 2. Alternate Bid: Remove existing standby generator, concrete pad, natural gas connection, exhaust/ventilation system, automatic transfer switch, emergency panels, transformer, related wiring, etc. Provide a new outdoor generator, concrete pad, fence, natural gas connection, automatic transfer switch, emergency panels, transformer, related wiring, etc. Add three sides of chain link fencing to match adjacent existing equipment enclosure. Add bollards for site safety.
- D. Alternate No. 04: Extend Fire Protection to Existing Building
 - 1. Base Bid: No work on Fire Protection System in existing building.
 - 2. Alternate Bid: Extend existing wet sprinkler system into kitchen area and provide sprinkler coverage as required by NFPA 13. Confirm existing location and pipe sizes in field. Recalculate sprinkler zone as required by NFPA 13. Provide concealed style sprinkler heads in existing ceiling grid. Coordinate sprinkler head location with all existing ceiling mounted devices. Provide dry pendent sprinkler heads in walk-in coolers and walk-in freezers. Coordinate ceiling grid removal and replacement with general contractor.
 - 3. Reference Sheet(s): FP203
- E. Alternate No. 05 (Mandatory): PVC Roofing
 - 1. Base Bid: Provide PVC membrane from approved Manufacturer of choice.
 - 2. Alternate Bid: Amount to add to contract sum for all Sika Sarnafil PVC membrane to comply requirements specified in 07 54 19 Polyvinyl-Chloride Roofing. Amount represents cost of systems, equipment, and labor.

END OF SECTION

SECTION 08 71 00 - DOOR HARDWARE

PART 1 - GENERAL

1.01 **SUMMARY**

Section Includes: A.

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

B. Section excludes:

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

C. Related Sections:

- 1. Division 01 "General Requirements" sections for Allowances, Alternates, Owner Furnished Contractor Installed, Project Management and Coordination.
- 2. Division 06 Section "Rough Carpentry"
- 3.
- Division 06 Section "Finish Carpentry"

 Division 07 Section "Joint Sealants" for sealant requirements applicable to thresh-4. old installation specified in this section.
- Division 08 Sections: 5.
 - a. "Metal Doors and Frames"
 - b. "Flush Wood Doors"
 - "Aluminum-Framed Entrances and Storefronts" C.
- 6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
- 7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 **REFERENCES**

A. **UL LLC**

- UL 10B Fire Test of Door Assemblies 1.
- UL 10C Positive Pressure Test of Fire Door Assemblies 2.
- UL 1784 Air Leakage Tests of Door Assemblies 3.
- UL 305 Panic Hardware 4.

B. DHI - Door and Hardware Institute

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

C. NFPA – National Fire Protection Association

- 1. NFPA 70 National Electric Code
- 2. NFPA 80 2016 Edition Standard for Fire Doors and Other Opening Protectives
- 3. NFPA 101 Life Safety Code
- 4. NFPA 105 Smoke and Draft Control Door Assemblies
- 5. NFPA 252 Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

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

1.03 SUBMITTALS

A. General:

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

B. Action Submittals:

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

a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule:

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

5. Key Schedule:

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

C. Informational Submittals:

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

D. Closeout Submittals:

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

E. Inspection and Testing:

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

1.04 QUALITY ASSURANCE

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

- d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
- Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

- Fire-Rated Door Openings:
 - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
 - b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of firerated door and door frame labels.
- 2. Smoke and Draft Control Door Assemblies:
 - a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
 - b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
- 3. Electrified Door Hardware
 - a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- 4. Accessibility Requirements:
 - a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.

C. Pre-Installation Meetings

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

- a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
- b. Inspect and discuss preparatory work performed by other trades.
- c. Inspect and discuss electrical roughing-in for electrified door hardware.
- d. Review sequence of operation for each type of electrified door hardware.
- e. Review required testing, inspecting, and certifying procedures.
- Review questions or concerns related to proper installation and adjustment of door hardware.
- Electrified Hardware Coordination Conference:
 - a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.07 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
 - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
 - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
 - a. Mechanical Warranty

1) Locks: 10 Years

2) Exit Devices: 10 Years

3) Closers: 30 Years

b. Electrical Warranty

1) Locks: 3 Years

2) Exit Devices: 3 Years

3) Automatic Operators: 2 Years

1.08 MAINTENANCE

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
 - 1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.

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

2.02 MATERIALS

A. Fabrication

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

C. Cable and Connectors:

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

2.03 HINGES

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Ives 5BB series
 - 2. Acceptable Manufacturers and Products:
 - a. Hager BB series
 - b. McKinney TB series
 - c. Stanley (Best/Dormakaba) FBB series
- B. Requirements:
 - 1. Provide hinges conforming to ANSI/BHMA A156.1.
 - 2. Provide five knuckle, ball bearing hinges.

3. Hinge Height:

- a. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide: 4-1/2 inches (114 mm) high
- b. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide: 5 inches (127 mm) high
- c. 2 inches or thicker doors: 5 inches (127 mm) high, regardless of door width
- 4. Hinge Width: 4-1/2 inches (114 mm) wide typical. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
- 5. Hinge quantity: Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
- 6. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
- 7. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Select
 - b. Pemko
- B. Requirements:
 - Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
 - 2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
 - 3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
 - 4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
 - 5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.

- 6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
- 7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.
- 8. Adjust hinge model/width as required for door thickness or construction.

2.05 ELECTRIC POWER TRANSFER

- A. Manufacturers:
 - Scheduled Manufacturer and Product:
 - a. Von Duprin EPT-10
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
 - 1. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
 - 2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.06 FLUSH BOLTS

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

2.07 SURFACE BOLTS

A. Manufacturers:

- 1. Scheduled Manufacturer:
 - a. Ives
- 2. Acceptable Manufacturers:
 - a. Rockwood
 - b. Trimco

B. Requirements:

1. Surface bolt s to have 1" throw for maximum security with concealed mounting that prevents vandalism. Units to be constructed of heavy-duty steel and UL listed up to three (3) hours when used on the inactive door of a pair up to 8' in height.

2.08 COORDINATORS

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Trimco
 - b. Rockwood
- B. Requirements:
 - 1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
 - 2. Provide filler bar of correct length for unit to span entire width of opening, and appropriate brackets for parallel arm door closers, surface vertical rod exit device strikes, or other stop mounted hardware. Factory-prepared coordinators for vertical rod devices as specified.

2.09 MORTISE LOCKS

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Schlage L9000 series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
 - Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.

- 2. Indicators: Where specified, provide indicator window measuring a minimum 2-inch x 1/2 inch with 180-degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.
- 3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
- 4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to "KEYING" article, herein.
- 5. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1-inch (25 mm) throw, constructed of stainless steel.
- 6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
- 7. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches. Provide motor based electrified and motor based latch retraction locksets that comply with the following requirements:
 - a. Universal input voltage single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
 - b. Fail Safe/Fail Secure changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case
 - c. Low maximum current draw maximum 0.4 amps (Lever control) and maximum 2.0 amps (Latch retraction) to allow for multiple locks on a single power supply.
 - d. Low holding current (Lever control or latch retraction) maximum 0.01 amps to produce minimal heat, eliminate "hot levers" in electrically locked applications and motorized latch retraction applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
 - e. Connections provide quick-connect Molex system standard.
- 8. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.
 - a. Lever Design: Schlage 17B.

2.10 EXIT DEVICES

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Von Duprin 99/33A series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
 - 1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
 - 2. Cylinders: Refer to "KEYING" article, herein.

- 3. Provide grooved touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- 4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
- 5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
- 6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
- 7. Provide flush end caps for exit devices.
- 8. Provide exit devices with manufacturer's approved strikes.
- 9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
- Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
- 11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
- 12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
- 13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
- 14. Provide electrified options as scheduled.
- 15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors
- 16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

2.11 EXIT DEVICES, WEATHERIZED

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Von Duprin 98/99 Series Outdoor Defense
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 1. Exit device must be designed to perform in outdoor conditions, and engineered to safeguard against moisture, temperature variations, and corrosion.
- 2. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
- 3. Provide Outdoor Defense exit devices for use in full exterior application, highly corrosive areas, and where noted in hardware sets.
- 4. Provide Outdoor Defense exit devices in Rim or Surface Vertical Rod configuration.

- 5. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware[LE1] .
- 6. Cylinders: Refer to "KEYING" article, herein.
- 7. Provide smooth or touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- 8. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
- 9. Provide exit devices with dead-latching feature for security and for future addition of alarm kits and/or other electrified requirements.
- 10. Provide flush end caps for exit devices.
- 11. Provide exit devices with manufacturer's approved strikes.
- 12. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
- 13. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
- 14. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
- 15. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
- 16. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
- 17. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

C. Outdoor Defense Features:

- 1. Designed to perform in a variety of outdoor conditions, and utilize a series of tests to ensure performance as intended in outdoor applications.
 - a. Temperature range: -31 degrees Fahrenheit (-35 degrees Celsius) to 151 degrees Fahrenheit (66 degrees Celsius).
 - 1) Evaluated per UL294 Section 81 Variable Ambient Test
 - 2) Evaluated per UL1034 Section 34.2 Variable Ambient Test
 - b. Moisture Resistance: Rain tested at 4.8 gallons per minute
 - 1) Per UL294 Section 79
 - 2) Per UL1034 Section 53
 - c. Corrosion Resistance: Salt Fog Tested per
 - 1) UL294 Section 83.2 Salt Spray (5% salt concentration)
 - 2) UL1034 Section 52 Salt Spray Corrosion Test (20% salt concentration)
 - d. Dust Resistance: Dust Tested per
 - 1) UL294 Section 80 Dust Test
 - 2) UL1034 Section 54 Dust Test

D. Warranty: Outdoor defense exit devices are warranties for 10 years for mechanical and 3 years for electro-mechanical from the date of shipment from the factory.

2.12 POWER SUPPLIES

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Schlage/Von Duprin PS900 Series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
 - Provide power supplies approved by manufacturer of supplied electrified hardware.
 - Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
 - 3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
 - 4. Provide power supplies with the following features:
 - a. 12/24 VDC Output, field selectable.
 - b. Class 2 Rated power limited output.
 - c. Universal 120-240 VAC input.
 - d. Low voltage DC, regulated and filtered.
 - e. Polarized connector for distribution boards.
 - f. Fused primary input.
 - g. AC input and DC output monitoring circuit w/LED indicators.
 - h. Cover mounted AC Input indication.
 - i. Tested and certified to meet UL294.
 - j. NEMA 1 enclosure.
 - k. Hinged cover w/lock down screws.
 - I. High voltage protective cover.

2.13 CYLINDER HOUSINGS

- A. Manufacturers:
 - 1. Scheduled Manufacturer and Product:
 - a. Schlage
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:

- 1. Provide cylinder housings from same manufacturer of locksets, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
- 2. Provide cylinder housings in the below-listed configuration(s), distributed throughout the Project as indicated.
 - a. Cylinder/Core Type: Small Format Interchangeable Core (SFIC)
- 3. Replaceable Construction Cores.
 - a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - 1) 3 construction control keys
 - 12 construction change (day) keys.

2.14 PERMANENT CORES, KEYING, KEYS

- A. Manufacturers:
 - Scheduled Manufacturer: Best PROVIDED BY OWNER
- B. Acceptable Manufacturers:
 - 1. No Substitute

2.15 DOOR CLOSERS

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. LCN 4040XP series
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
 - 1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
 - 2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
 - 3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
 - 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
 - 5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.

- 6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
- 7. Provide closers with solid forged steel main arms and factory assembled heavyduty forged forearms for parallel arm closers.
- 8. Pressure Relief Valve (PRV) Technology: Not permitted.
- 9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
- 10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.
- Closers shall be capable of being upgraded by adding modular mechanical or electronic components in the field.

2.16 DOOR TRIM

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Trimco
 - b. Rockwood
- B. Requirements:
 - 1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.17 PROTECTION PLATES

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Trimco
 - b. Rockwood
- B. Requirements:
 - 1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.

- 2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
- 3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.18 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

- A. Manufacturers:
 - Scheduled Manufacturers:
 - a. Glynn-Johnson
 - 2. Acceptable Manufacturers:
 - a. No Substitute
- B. Requirements:
 - 1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

2.19 DOOR STOPS AND HOLDERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Trimco
 - b. Rockwood
- B. Provide door stops at each door leaf:
 - 1. Provide wall stops wherever possible. Provide concave type where lockset has a push button of thumbturn.
 - 2. Where a wall stop cannot be used, provide universal floor stops.
 - 3. Where wall or floor stop cannot be used, provide overhead stop.
 - 4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.20 SILENCERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:

- a. Rockwood
- b. Trimco
- B. Requirements:
 - 1. Provide "push-in" type silencers for hollow metal or wood frames.
 - 2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
 - 3. Omit where gasketing is specified.
- 2.21 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING
 - A. Manufacturers:
 - B. Scheduled Manufacturer:
 - 1. Zero International
 - C. Acceptable Manufacturers:
 - National Guard
 - 2. Reese
 - 3. Pemko
 - D. Seals and Gasketing: Provide continuous gasketing on exterior openings, to the head and jambs, forming a continuous seal between the door and the frame. Provide smoke, light, or sound gasketing on interior doors where indicated.
 - 1. Provide self-tapping fasteners for aluminum extruded gasketing being applied to hollow metal frames.
 - a. Provide non-corrosive fasteners for all exterior applications.
 - b. Provide security fasteners where indicated.
 - 2. Provide neoprene, EPDM, silicone, or nylon brush inserts as specified in hardware sets. Provide non brush inserts of solid or sponge cell, as specified in hardware sets. Vinyl inserts are not allowed except where specified in hardware sets.
 - E. Smoke Labeled Gasketing: At all smoke labeled openings, provide smoke listed perimeter gasketing assemblies complying with NFPA 105 listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for smoke control ratings indicated based on testing according to UL 1784.
 - F. Fire Listed Gasketing: Assemblies complying with NFPA 80 that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction for fire ratings indicated based on testing according to UL-10C.
 - 1. Where frame-applied intumescent seals are required by the manufacturer, provide gaskets that comply with UL10C Standard for Positive Pressure Fire Tests of Door Assemblies and UBC 7-2, Fire Tests of Door Assemblies.
 - G. Sound-Rated Gasketing: Provide acoustic gasketing to meet Sound Transmission Class (STC) rating required.

- H. Meeting-Stile Gasketing: Provide meeting-stile gasketing that fastens to the meeting stiles forming a continuous seal when doors are closed.
- I. Door Sweeps or Shoes: Apply to the bottom of the door to close the gap between the door bottom and finished floor or saddle threshold.
 - Provide solid neoprene, EPDM, silicone, or nylon brush type of seal as specified in hardware sets. Vinyl inserts are not allowed except where specified in hardware sets.

J. Automatic Door Bottoms:

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

K. Rain Drips:

- 1. Provide overhead rain drips for out-swinging hollow metal doors that are not covered against 45 degree blowing rain. Aluminum extrusion to be a minimum of .088 inches thick and extend 2.50 inches from the face of the frame, in anodized finish to match door.
- 2. Door sweeps or shoes with integral rain drip must meet ADA requirements
- L. Thresholds: Provide threshold units not less than 4 inches wide, formed to accommodate change in floor elevation where indicated, and fabricated to accommodate door hardware and fit door frames.
 - 1. Threshold extrusion to be a minimum thickness as specified in hardware sets.

2.22 DOOR POSITION SWITCHES

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Schlage
 - 2. Acceptable Manufacturers:
 - a. George Risk
- B. Requirements:
 - 1. Provide recessed or surface mounted type door position switches as specified.
 - 2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

2.23 FINISHES

A. Provide finish for each item as indicated in the sets.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
 - 4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
 - 1. Install construction cores to secure building and areas during construction period.
 - 2. Replace construction cores with permanent cores as indicated in keying section.
 - 3. Furnish permanent cores to Owner for installation.

- J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Connections to panel interface modules, controllers, and gateways.
 - 6. Testing and labeling wires with Architect's opening number.
- K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- L. Continuous Hinges: Re-locate the door and frame fire rating labels where they will remain visible so that the hinge does not cover the label once installed.
- M. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- N. Overhead Stops/Holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- O. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

P. Thresholds:

- Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- 2. Aluminum thresholds to be cut-in, and scribed around mullions, frame members, and stops. Do not butt to thresholds. Provide a continuous surface across full width of opening from jamb to jamb.
- 3. Where aluminum panic-type (rabbeted) thresholds with neoprene inserts are specified, undercut doors as required to properly mate with seal in threshold.
- Q. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

R. Perimeter Gasketing:

- 1. Apply to head and jamb, forming seal between door and frame.
- 2. Install gasketing in a manner eliminating need to cut any seal to install surface mounted hardware. Install compatible mounting bracket for surface mounted hardware unless minimum 1/4 inch thick solid aluminum seals are provided for mounting of surface applied hardware.
- Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- T. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items per manufacturer's instructions to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.
- D. Hardware Sets:

2025022 Columbus East High School – C⁴ Addition Bartholomew Consolidated School Corporation

HARDWARE GROUP NO. 01

For use on Door #(s):

I-150.3

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	SURFACE BOLT	SB1630 T @ TOP	652	IVE
1	EA	EXIT LOCK	L9025 17B HVAC ROOM SIDE	626	SCH
2	EA	OH STOP	410S	652	GLY
1	EA	SAFETY CHAIN & SIGN			
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 02

For use on Door #(s):

I-056

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	DEADLOCK, CYL X C/R TT	L463BDC XB11-720	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	PUSH PLATE	8200 4" X 16" (CFC/CFTT AS REQ'D)	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16" (CFC/CFTT AS REQ'D)	630	IVE
1	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 03

For use on Door #(s):							
I-052		I-053	I-060	I-062	I-063		
Provide	e each C	PENING with the fo	llowing:				
QTY		DESCRIPTION	-	CATALOG NUME	BER	FINISH	MFR
3	EA	HINGE		5BB1HW SIZE, (REQ'D (SEE SPE	•	652	IVE
1	EA	PRIVACY LOCK \ OUTSIDE INDICA		L9040 17B L583-	-363 OS-OCC	626	SCH
1	EA	SURFACE CLOS	ER	4040XP REG		689	LCN
1	EA	KICK PLATE		8400 10"H X WIE CS	OTH AS REQ'D B-	630	IVE
1	EA	MOP PLATE		8400 4"H X WID	TH AS REQ'D B-CS	630	IVE
1	EA	WALL STOP		WS406/407CVX		630	IVE
3	EA	SILENCER		SR64		GRY	IVE
HARDWARE GROUP NO. 04							
For use I-071	on Doo	or #(s):					

Provide each OPENING with the following:

•						
	QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
	1	EA	OFFICE/ENTRY LOCK	L9050BDC 17B L583-363	626	SCH
	1	EA	PERMANENT CORE	BY OWNER	626	BES
	1	EA	WALL STOP	WS406/407CVX	630	IVE
	3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 05

For use on Door #(s): I-050.2

Provide	each O	PENING with the following:			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	DBL CYL STORE W/DB	L9466BDC 17B	626	SCH
2	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 06

For use on Door #(s):

I-152A.2

Provide each OPENING with the following: QTY DESCRIPTION CATALOG NUMBER FINISH MFI					
1 EA CONT. HINGE 224XY	628 IVE				
1 EA DBL CYL STORE W/DB L9466HD 17B	626 SCH				
2 EA PERMANENT CORE BY OWNER	626 BES				
1 EA SURFACE CLOSER (W/ 4040XP SHCUSH SPRING STOP & HO)	689 LCN				
1 EA KICK PLATE 8400 10"H X WIDTH AS REQ'D I CS	B- 630 IVE				
1 EA RAIN DRIP 142AA	AA ZER				
1 EA WEATHERSTRIPPING 429AA-S (4 SIDES)	AA ZER				
1 EA DOOR CONTACT 679 SERIES	BLK SCE				
HARDWARE GROUP NO. 07					
For use on Door #(s): I-068					
Provide each OPENING with the following:					
QTY DESCRIPTION CATALOG NUMBER	FINISH MFR				
3 EA HINGE 5BB1 SIZE, QTY, NRP AS REQ'I (SEE SPECS)	D 652 IVE				
1 EA CLASSROOM LOCK L9070BDC 17B	626 SCH				
1 EA PERMANENT CORE BY OWNER	626 BES				
1 EA WALL STOP WS406/407CVX	630 IVE				
3 EA SILENCER SR64	GRY IVE				
HARDWARE GROUP NO. 08					
For use on Door #(s):					
I-050.1 I-058.4 I-061 I-064.1 I-064.2 I-152	I-151.1				
Provide each OPENING with the following:					
QTY DESCRIPTION CATALOG NUMBER	FINISH MFR				
3 EA HINGE 5BB1 SIZE, QTY, NRP AS REQ'I (SEE SPECS)	O 652 IVE				
1 EA CLASSROOM SECURITY W/ L9071BDC 17B IS-LOC INSIDE INDICATOR	626 SCH				
2 EA PERMANENT CORE BY OWNER	626 BES				
1 EA WALL STOP WS406/407CVX	630 IVE				
3 EA SILENCER SR64	GRY IVE				

2025022 Columbus East High School – C⁴ Addition Bartholomew Consolidated School Corporation

HARDWARE GROUP NO. 09

For use on Door #(s):

I-066

Provide each	OPENING with	n the following:
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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 17B	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	OH STOP	410S	652	GLY
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 10

For use on Door #(s):

I-054A.2

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 17B	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	FLOOR STOP	FS439	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 11

For use on Door #(s):

I-065 I-152A.1

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 17B	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

For use on Door #(s):

I-150.1

Provide each OPENING with the following:

-						
	QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
	1	EA	STOREROOM LOCK	L9080BDC 17B	626	SCH
	1	EA	PERMANENT CORE	BY OWNER	626	BES
	1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
	1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
	1	EA	MEETING STILE	328AA-S	AA	ZER
	1	EA	AUTO DOOR BOTTOM	364AA	AA	ZER
	1	EA	SOUND SEAL MTG BRACKET	328SPB		ZER

HARDWARE GROUP NO. 13

For use on Door #(s):

I-057

٠	TOVIGO	ouon on	Ertific With the following.			
	QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
	1	EA	STOREROOM LOCK	L9080BDC 17B	626	SCH
	1	EA	PERMANENT CORE	BY OWNER	626	BES
	1	EA	SURFACE CLOSER	4040XP REG	689	LCN
	1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
	1	EA	WALL STOP	WS406/407CVX	630	IVE
	3	EA	SILENCER	SR64	GRY	IVE

For use on D)oor #(s):
I-057A	I-057B

Provide each OPENING with the following:	Provide each	OPENING with	the fo	llowing:
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	545	. =:g.			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	STOREROOM LOCK	L9080BDC 17B	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

HARDWARE GROUP NO. 15

For use on Door #(s):

I-050A

Provide each C	OPENING with	the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	CONST LATCHING BOLT	FB51T/FB61T (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	L9080BDC 17B	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
2	EA	WALL STOP	WS406/407CVX	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 16

For use on Door #(s):

I-055A.1 I-055A.2

•						
	QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	6	EA	HINGE	5BB1 SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
	1	EA	AUTO FLUSH BOLT	FB31T/FB41T (AS REQ'D)	630	IVE
	1	EA	STOREROOM LOCK	L9080BDC 17B	626	SCH
	1	EA	PERMANENT CORE	BY OWNER	626	BES
	1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
	2	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
	2	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
	2	EA	SILENCER	SR64	GRY	IVE

For use on Door #(s): I-058.2

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	626	VON
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	MT SERIES - BY ACCESS CONTROL INTEGRATOR	BLK	SCE
1	EA	PUSH BUTTON RELEASE	BY ACCESS CONTROL INTEGRATOR		B/O
1	EA	DOOR CONTACT	679 SERIES	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

DOOR(S) NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER, OR REMOTE PUSH BUTTON, RETRACTS EXIT DEVICE LATCH ALLOWING ACCESS. EXIT DEVICE(S) CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE(S) LATCH AND LOCK WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

For use on Door #(s): I-058.1

Provide each OPENING with the following:

IIOVIG	c caon c	TENNING WITH THE TOHOWING.			
QTY	•	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	626	VON
1	EA	RIM CYL HOUSING (SFIC)	80-159 (W/ KEYED CONST CORE)	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
1	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	Α	ZER
1	EA	CREDENTIAL READER	MT SERIES - BY ACCESS CONTROL INTEGRATOR	BLK	SCE
1	EA	PUSH BUTTON RELEASE	BY ACCESS CONTROL INTEGRATOR		B/O
1	EA	DOOR CONTACT	679 SERIES	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

DOOR(S) NORMALLY CLOSED AND LOCKED AND EXTERIOR ACTUATOR DISABLED. PRESENTING VALID CREDENTIAL TO READER, OR REMOTE PUSH BUTTON, RETRACTS EXIT DEVICE LATCH AND ENABLES EXTERIOR ACTUATOR. PUSHING ENABLED EXTERIOR ACTUATOR SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. INTERIOR ACTUATOR ENABLED AT ALL TIMES. PUSHING INTERIOR ACTUATOR RETRACTS LATCH AND SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. EXIT DEVICE LATCH ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE LATCHES AND LOCKS WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

For use on Door #(s):

I-051.3 I-055.1

Provide each	OPENING with	h the following:

TTOVIGO	Cacil Oi	LIVING WITH THE TOHOWING.			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	626	VON
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	SURFACE CLOSER (W/ SPRING STOP)	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	WEATHERSTRIPPING	429AA-S	AA	ZER
1	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	Α	ZER
1	EA	CREDENTIAL READER	MT SERIES - BY ACCESS CONTROL INTEGRATOR	BLK	SCE
1	EA	DOOR CONTACT	679 SERIES	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

DOOR(S) NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER RETRACTS EXIT DEVICE LATCH ALLOWING ACCESS. EXIT DEVICE(S) CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE(S) LATCH AND LOCK WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 20

For use on Door #(s):

I-051.1 I-054.2 I-099C

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	PANIC HARDWARE	CDSI-99-L-NL-17	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 XQ11-948 (W/ DISP CONST CORE)	626	SCH
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
2	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

For use on Door #(s):

I-070

Provide each OPENING with the following:
--

DESCRIPTION	CATALOG NUMBER	FINISH	MFR
HINGE 5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)		652	IVE
PANIC HARDWARE	CDSI-99-L-NL-17	626	VON
MORTISE CYL HOUSING (SFIC)	80-110 XQ11-948 (W/ DISP CONST CORE)	626	SCH
RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
PERMANENT CORE	BY OWNER	626	BES
SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
SILENCER	SR64	GRY	IVE
DOOR CONTACT	679 SERIES	BLK	SCE
	HINGE PANIC HARDWARE MORTISE CYL HOUSING (SFIC) RIM CYL HOUSING (SFIC) PERMANENT CORE SURFACE CLOSER (W/ DEAD STOP & HO) KICK PLATE SILENCER	HINGE 5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS) PANIC HARDWARE CDSI-99-L-NL-17 MORTISE CYL HOUSING (SFIC) RIM CYL HOUSING (SFIC) PERMANENT CORE SURFACE CLOSER (W/DEAD STOP & HO) KICK PLATE SILENCER 5BB1HW SIZE, QTY, NRP AS REQ'D B-CS 80-110 XQ11-948 (W/DISP CONST CORE) 80-116 (W/DISP CONST CORE) 8400 10"H X WIDTH AS REQ'D B-CS SR64	HINGE 5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS) PANIC HARDWARE CDSI-99-L-NL-17 626 MORTISE CYL HOUSING (SFIC) RIM CYL HOUSING (SFIC) RIM CYL HOUSING (SFIC) REMANENT CORE BY OWNER 626 SURFACE CLOSER (W/ DEAD STOP & HO) KICK PLATE 8400 10"H X WIDTH AS REQ'D B- CS SILENCER 672 682 683 684 685 687

HARDWARE GROUP NO. 22

For use on Door #(s):

I-067

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW SIZE, QTY, NRP AS REQ'D (SEE SPECS)	652	IVE
1	EA	PANIC HARDWARE	CDSI-99-L-NL-17	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 XQ11-948 (W/ DISP CONST CORE)	626	SCH
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
2	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10"H X WIDTH AS REQ'D B- CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

2025022 Columbus East High School – C⁴ Addition Bartholomew Consolidated School Corporation

HARDWARE GROUP NO. 23

For use on Door #(s):

EX-001 I-099A.2 I-099B.2

-						
	QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	1	EA	CONT. HINGE	112XY	628	IVE
	1	EA	PANIC HARDWARE, WEATHERIZED	CD-OUT-99-NL	626	VON
	1	EA	MORTISE CYL HOUSING (SFIC)	80-110 XQ11-948 (W/ DISP CONST CORE)	626	SCH
	1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
	2	EA	PERMANENT CORE	BY OWNER	626	BES
	1	EA	OH STOP	100S	630	GLY
	1	EA	SURFACE CLOSER	4040XP REG ST-1630	689	LCN
	1	EA	MOUNTING PLATE	4040XP-18TJ	689	LCN
	1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
	1	EA	DOOR BOTTOM, INSWING ALD	111AA	AA	ZER
	1	EA	THRESHOLD, 1/2"	655A	Α	ZER
	1	EA	DOOR CONTACT	679 SERIES	BLK	SCE

For use on Door #(s): I-099A.1

Provide each OPENING with the following:

1 10 VIGC	ouon o	i Litiito mai alo lonoming.			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	689	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-DT 24 VDC	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL 24 VDC	626	VON
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
1	EA	RIM CYL HOUSING (SFIC)	80-159 (W/ KEYED CONST CORE)	626	SCH
2	EA	PERMANENT CORE	BY OWNER	626	BES
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
2	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	Α	ZER
1	EA	CREDENTIAL READER	MT SERIES - BY ACCESS CONTROL INTEGRATOR	BLK	SCE
2	EA	DOOR CONTACT	679 SERIES	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE

DOOR(S) NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER RETRACTS EXIT DEVICE LATCH ALLOWING ACCESS. EXIT DEVICE(S) CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE(S) LATCH AND LOCK WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

2025022 Columbus East High School – C⁴ Addition Bartholomew Consolidated School Corporation

HARDWARE GROUP NO. 25

For use on Door #(s):

I-099B.1

I TOVIDE EACH OF LINING WILL LIE TOHOWING.	Provide each	OPENING with	the	following:
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QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY	628	IVE
1	EA	PANIC HARDWARE	LD-9949-DT-LBL	626	VON
1	EA	PANIC HARDWARE	LD-9949-NL-LBL	626	VON
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES
1	EA	ELEC OVERHEAD HOLDER	SEH 24V/120V AC/DC AS REQ PULL SIDE, TEMPLATE @ 90 DEGREES	689	LCN
1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH @ SEH LEAF, TEMPLATE @ 90 DEGREES	689	LCN
1	EA	SURFACE CLOSER	4040XP EDA @ SEM LEAF	689	LCN
2	EA	MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	ELEC WALL MAG HOLDER	SEM7840 AS REQ (2 5/8" PROJECTION, 12/24/120V AC/DC TRI-VOLT, 2 5/8" PROJECTION)	689	LCN

DOORS NORMALLY HELD OPEN BY ELEC HOLDERS. DOORS CLOSE AND LOCK WITH ACTIVATION OF SECURITY SYSTEM OR LOSS OF POWER. DOORS CAN ALSO BE MANUALLY RELEASED FROM ELEC HOLDERS. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 26

For use on Door #(s):

I-051.2 I-051.4 I-055.2

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYL HOUSING (SFIC)	80-110 (W/ DISP CONST CORE)	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	BES

VERIFY EXACT CYLINDER TYPE REQUIRED. BALANCE OF HARDWARE BY DOOR MANUFACTURER.

DOOR#	HWSET#	INFORMATION
EX-001	23	DPS ONLY
I-050.1	08	
I-050.2	05	
I-050A	15	
I-051.1	20	
I-051.2	26	
I-051.3	19	CR
I-051.4	26	
I-052	03	
I-053	03	
I-054.1	20	
I-054.2	20	
I-054A.2	10	
I-055.1	19	CR
I-055.2	26	
I-055A.1	16	
I-055A.2	16	
I-056	02	
I-057	13	
I-057A	14	
I-057B	14	
I-058.1	18	CR, PBR
I-058.2	17	CR, PBR
I-058.4	08	
I-060	03	
I-061	08	
I-062	03	
I-063	03	
I-064.1	80	
I-064.2	80	
I-065	11	
I-066	09	
I-067	22	
I-068	07	
I-070	21	DPS ONLY
I-071	04	
I-099A.1	24	CR
I-099A.2	23	DPS ONLY
I-099B.1	25	ELEC HOLD OPENS
I-099B.2	23	DPS ONLY
I-099C	20	
I-150.1	12	
I-150.3	01	
I-151.1	08	
I-152	08	

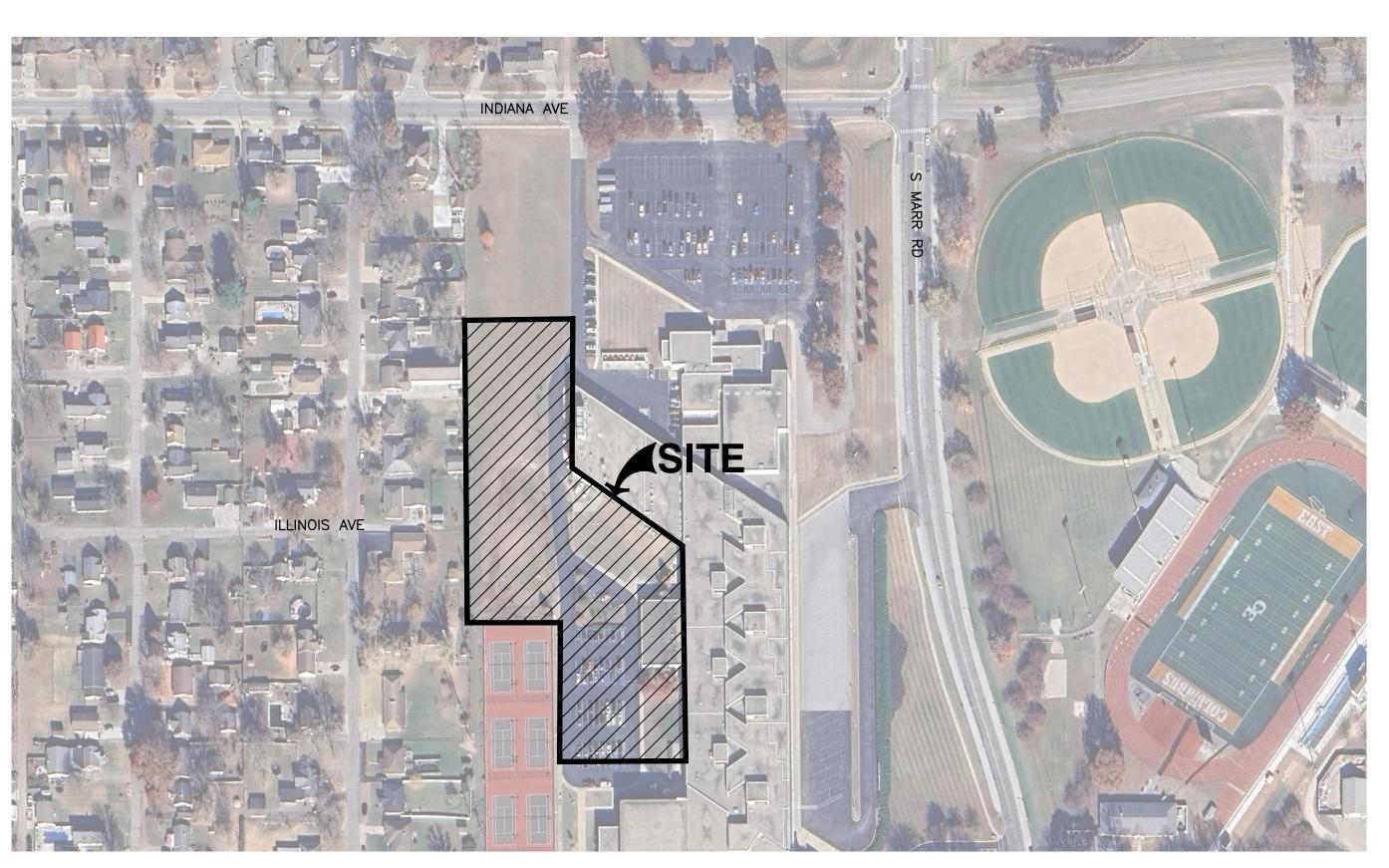
DOOR#	HWSET#	INFORMATION
I-152A.1	11	
I-152A.2	06	DPS ONLY

END OF SECTION

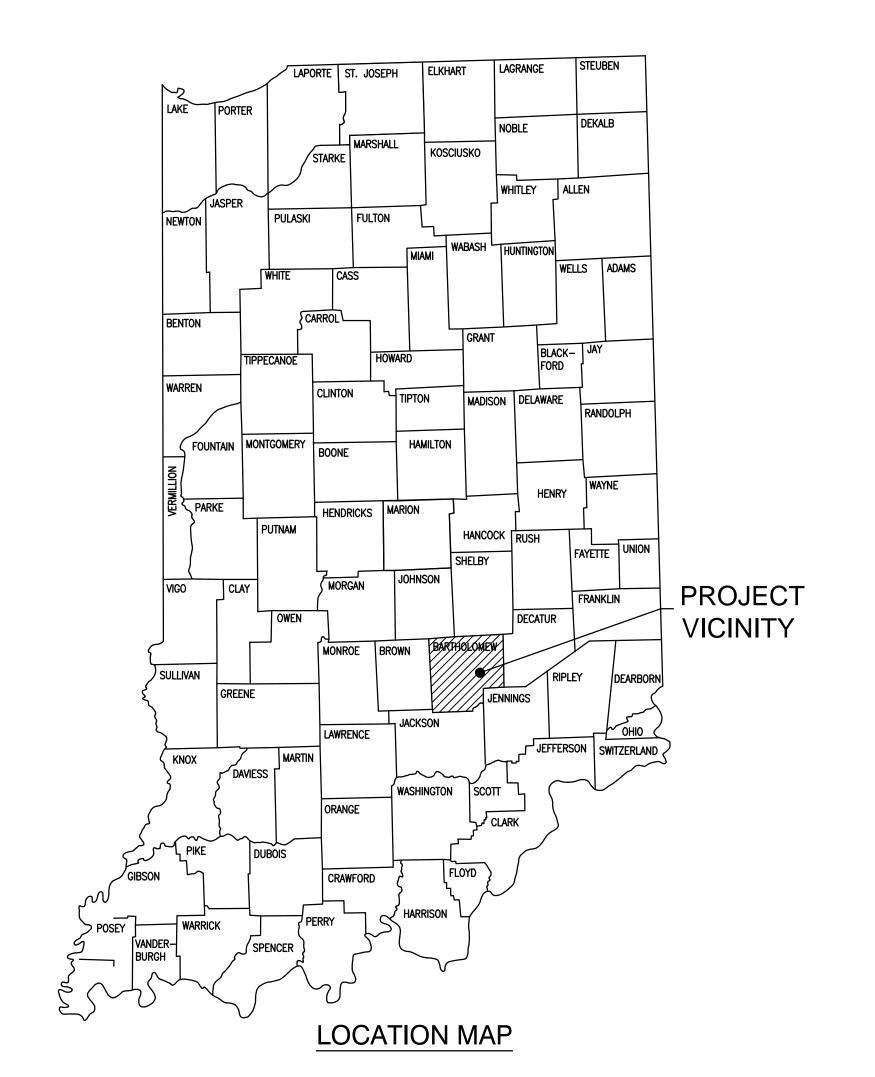
C4 BUILDING EXPANSION COLUMBUS EAST HIGH SCHOOL

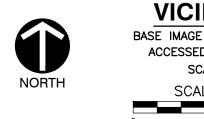
230 S MARR RD COLUMBUS, INDIANA 47201 **CIVIL PLANS** OCTOBER 24, 2025

ADDENDUM #01 - NOVEMBER 3, 2025



	DRAWING INDEX						
Sheet No	Sheet Title	Drawing No.					
1	TITLE SHEET	C000					
2-3	BOUNDARY RETRACEMENT SURVEY	BDNRY					
4-9	TOPOGRAPHIC SURVEY	TOPO					
10	EXISTING CONDITIONS OVERALL SITE	C001					
11	DEMOLITION PLAN	C100					
12	GRADING PLAN	C300					
13	EMERGENCY FLOOD ROUTING	C310					
14	DRAINAGE PLAN	C400					
15	STORMWATER PROFILES	C410					
) 16) 16	UTILITY PLAN	C500					
17	SITE DETAILS	C800					
18	STORMWATER POLLUTION PREVENTION PLAN	C900					
19	STORMWATER POLLUTION PREVENTION NOTES C9						
20	STORMWATER POLLUTION PREVENTION DETAILS	C902					
	CITY OF COLUMBUS TYPICAL DETAILS						





VICINITY MAP BASE IMAGE FROM GOOGLE EARTH ACCESSED SEPTEMBER. 2025 SCALE: 1"=150'

PROJECT TEAM:

CONTEXT DESIGN CIVIL & ENVIRONMENTAL 5825 LAWTON LOOP E DR CONSULTANTS, INC. INDIANAPOLIS, IN 46216 530 E. OHIO ST., STE. G PH: (317) 485-6900 INDIANAPOLIS, IN 46204 CONTACT: LIZ MOONEY PH: (317) 655-7777 EMAIL: LMOONEY@context-design.com CONTACT: TYLER THOMPSON tthompson@cecinc.com

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 530 E. OHIO ST., STE. G INDIANAPOLIS, IN 46204 PH: (317) 655-7777 CONTACT: JONATHAN PASYK

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ÀTTN: LISA CHRISTIE

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GAS CENTERPOINT ENERGY 4324 MIDDLE RD COLUMBUS, IN 47203 ATTN: JON EASTHAM (765) 287-2119 publicproject@centerpointenergy.com STORM SEWER

ELECTRIC DUKE ENERGY 2727 CENTRAL AVE 800.774.0246 INServiceInstallation@duke-energy.com

COLUMBUS CITY UTILITIES

agetz@columbusutilities.org

1111 MCCLURE RD

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COLUMBUS, IN 47201 (812)372-8861 ATTN: ASHLEY GETZ agetz@columbusutilities.org FIRE DEPARTMENT COLUMBUS FIRE DEPARTMENT 1101 JACKSON ST. COLUMBUS, IN 47201 (812)376-2583

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ÀTTN: TROY TODD ttodd@columbus.in.gov

PLANNING DEPARTMENT COLUMBUS PLANNING DEPARTMENT 123 WASHINGTON ST. COLUMBUS, IN 47201 (812)376-2550 ATTN: JEFF BERGMAN jbergman@columbus.in.gov

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

ON THE WEST SIDE OF MARR RD., 710'± SOUTH OF INDIANA AVE.

ELEVATION OF THE PROJECT BENCHMARK DOES NOT EXCEED 0.10 FOOT. TBM#1: CUT "X" ON THE WEST BONNET BOLT OF A FIRE HYDRANT LOCATED AT THE NORTHEAST QUADRANT OF INTERSECTION OF SALZBURG BLVD. AND TBM#2: CUT SQUARE ON TOP OF THE NORTH SIDE OF A CONCRETE STADIUM LIGHT BASE LOCATED AT THE SOUTHEAST CORNER OF THE FOOTBALL FIELD.

TBM#3: CUT SQUARE ON THE INSIDE CORNER OF THE SIDEWALK LOCATED ON THE NORTH SIDE OF HOLLOWELL ST., 375'± EAST OF MARR RD. TBM#4: MAG SPIKE ON THE SOUTH SIDE OF UTILITY POLE #211620 LOCATED ON THE NORTH SIDE OF INDIANA AVE., 220'± EAST OF INDIANA CT. TBM#5: CUT "X" ON THE WEST BONNET BOLT OF A FIRE HYDRANT LOCATED

ELEV. = 622.06TBM#6: CUT "X" ON THE NORTH BOLT OF A TRAFFIC POLE LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF MARR RD. AND S.R. 46. TBM#7: MAG SPIKE ON THE EAST FACE OF SIREN POLE LOCATED 110'±

SOUTHWEST OF THE SOUTHWEST CORNER OF THE TENNIS COURTS. TBMS 1-3 WERE ESTABLISHED AS PART OF CEC PROJECT NUMBER 315-436

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 NUMBERS 25061106972 AND 25061107023 WERE ISSUED FOR THIS SITE. MASON PRIVATE LOCATING. 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

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.

FLOOD NOTE:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONES "X" (UN-SHADED) AND "X" (SHADED) AS SAID PARCEL PLOTS ON MAP NUMBER 18005C0134F (DATED FEBRUARY 23, 2023) 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.



WBCSC TOGETHER WE LEARN

11/03/2025 - ADDENDUM #01

| ISSUE DATE | DRAWN BY | CHECKED BY

DRAWING TITLE:

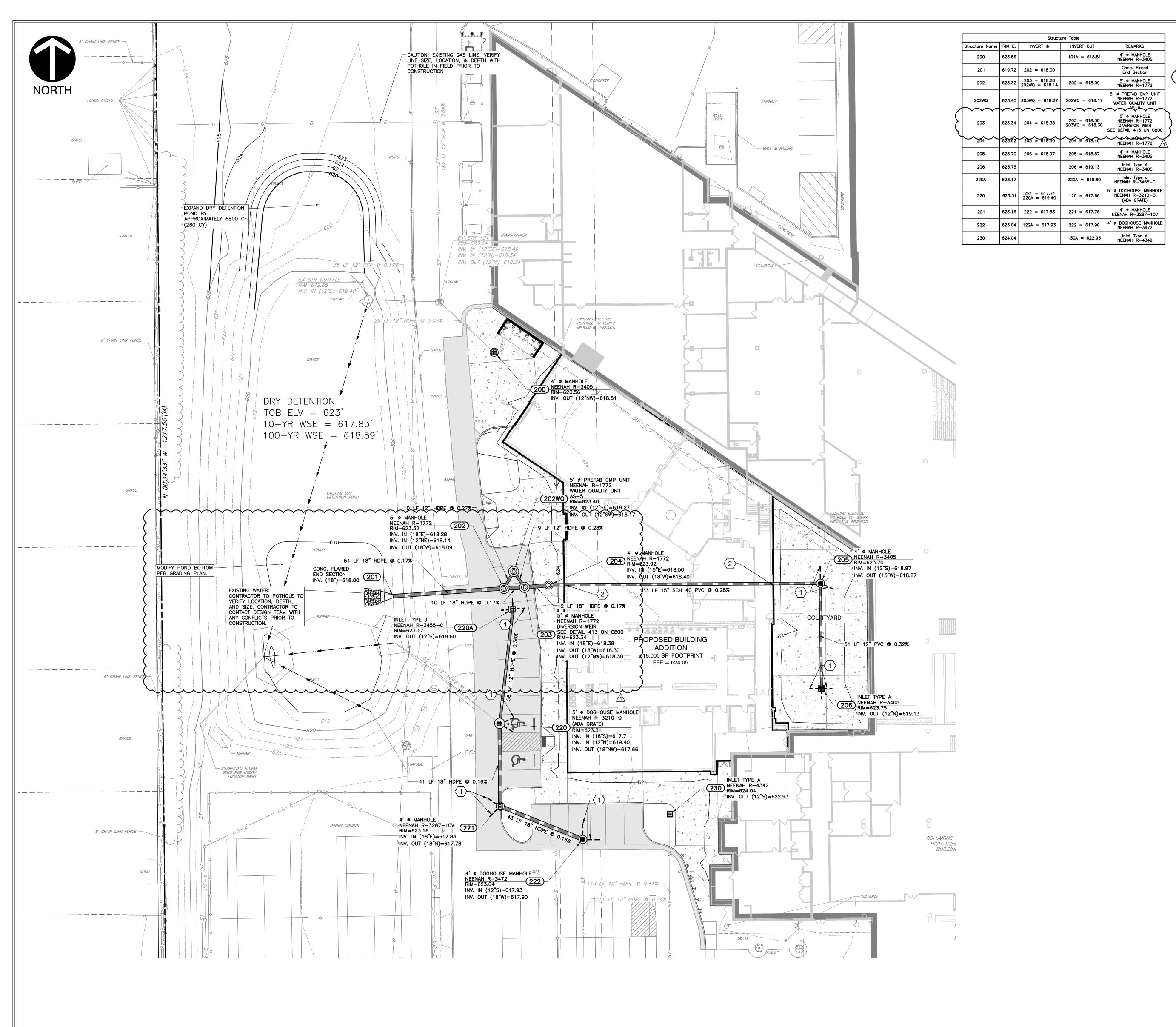
TITLE SHEET

CERTIFIED BY: MAN M. 34 REGISTERES AS No. PE12100829 STATE OF MOIANA ... Jede 20/24/2025

DRAWING NUMBER

PROJECT NUMBER

REFERENCE 1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CEC, INC.; DATED JULY 17, 2025.



GENERAL DRAINAGE NOTES: Pipe Table DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS

| Pipe Name | Size (in) | Length (ft) | Slope | MATERIAL 202 | 18 | 54.4 | 0.17% | HDPE 202WQ 12 9.6 0.27% HDPE 203 | 18 | 10.1 | 0.17% | HDPE 203WQ 12 9.5 0.26% HDPE 204 | 18 | 12.0 | 0.17% | HDPE 205 | 15 | 132.9 | 0.28% | SCH 40 PVC 206 | 12 | 51.5 | 0.32% | PVC 12 56.2 0.36% HDPE

221 | 18 | 40.6 | 0.16% | HDPE

222 | 18 | 43.5 | 0.16% | HDPE

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.

. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND

. 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

5. STORM PIPE MATERIAL SHALL BE RCP OR HDPE DUAL WALL OR PVC UNLESS NOTED OTHERWISE ON PLANS.

6. CONTRACTOR SHALL REMOVE SWPPP CSGP GUIDELINES PRIOR TO TURNOVER TO THE OWNER. CONTRACTOR SHALL HYDROVAC STORM STRUCTURES TO CLEAN & REMOVE DEBRIS AFTER CONSTRUCTION COMPLETION.

DRAINAGE LEGEND:

PROPOSED DRAINAGE SWALE ---- PROPOSED GRADE BREAK PROPOSED STORM SEWER LINE ---- PROPOSED UNDERDRAIN PROPOSED YARD DRAIN PROPOSED CURB INLET

KEY NOTES:

TYPICAL 4" PARKING LOT PAVEMENT UNDERDRAIN. EXTEND 20 LF BEYOND STRUCTURE. CAP ENDS. SEE DETAIL 406 ON SHEET C800. PIPE TO BE SLEEVED THROUGH STEP DOWN FOUNDATION. REFER TO "S" SERIES PLANS.

PROPOSED STORM MANHOLE

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: CUT "X" ON THE WEST BONNET BOLT OF A FIRE HYDRANT LOCATED AT THE NORTHEAST QUADRANT OF INTERSECTION OF SALZBURG BLVD. AND INDIANA AVE.

TBM#2: CUT SQUARE ON TOP OF THE NORTH SIDE OF A CONCRETE STADIUM LIGHT BASE LOCATED AT THE SOUTHEAST CORNER OF THE FOOTBALL FIELD. ELEV. = 622.86TBM#3: CUT SQUARE ON THE INSIDE CORNER OF THE SIDEWALK LOCATED ON

ELEV. = 622.94

THE NORTH SIDE OF HOLLOWELL ST., 375'± EAST OF MARR RD. TBM#4: MAG SPIKE ON THE SOUTH SIDE OF UTILITY POLE #211620 LOCATED ON THE NORTH SIDE OF INDIANA AVE., 220'± EAST OF INDIANA CT.

TBM#5: CUT "X" ON THE WEST BONNET BOLT OF A FIRE HYDRANT LOCATED ON THE WEST SIDE OF MARR RD., 710'± SOUTH OF INDIANA AVE. ELEV. = 622.06

TBM#6: CUT "X" ON THE NORTH BOLT OF A TRAFFIC POLE LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF MARR RD. AND S.R. 46.

TBM#7: MAG SPIKE ON THE EAST FACE OF SIREN POLE LOCATED 110' \pm SOUTHWEST OF THE SOUTHWEST CORNER OF THE TENNIS COURTS.

TBMS 1-3 WERE ESTABLISHED AS PART OF CEC PROJECT NUMBER 315-436

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 NUMBERS 25061106972 AND 25061107023 WERE ISSUED FOR THIS SITE. MASON PRIVATE LOCATING, 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.

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.

PRIOR TO ANY EXCAVATION FOR UNDERGROUND UTILITIES, THE CONTRACTOR

FLOOD NOTE:

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Civil & Environmental Consultants, Inc. 433 N. CAPITOL AVENUE, SUITE 200 **INDIANAPOLIS, IN 46204** www.cecinc.com

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SCOPE DRAWINGS: These drawings indicate the general scope of the projec n terms of architectural design concept, the dimensions of he building, the major architectural elements and the type of structural mechanical and architectural elements. of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all ork required for full performance and completion of the On the basis of the general scope indicated or desc the trade contractors shall furnish all items required for the proper execution and completion of the work.

11/03/2025 - ADDENDUM #01

REVISIONS:

SSUE DATE | DRAWN BY | CHECKED BY 10/24/25

DRAWING TITLE:

DRAINAGE PLAN

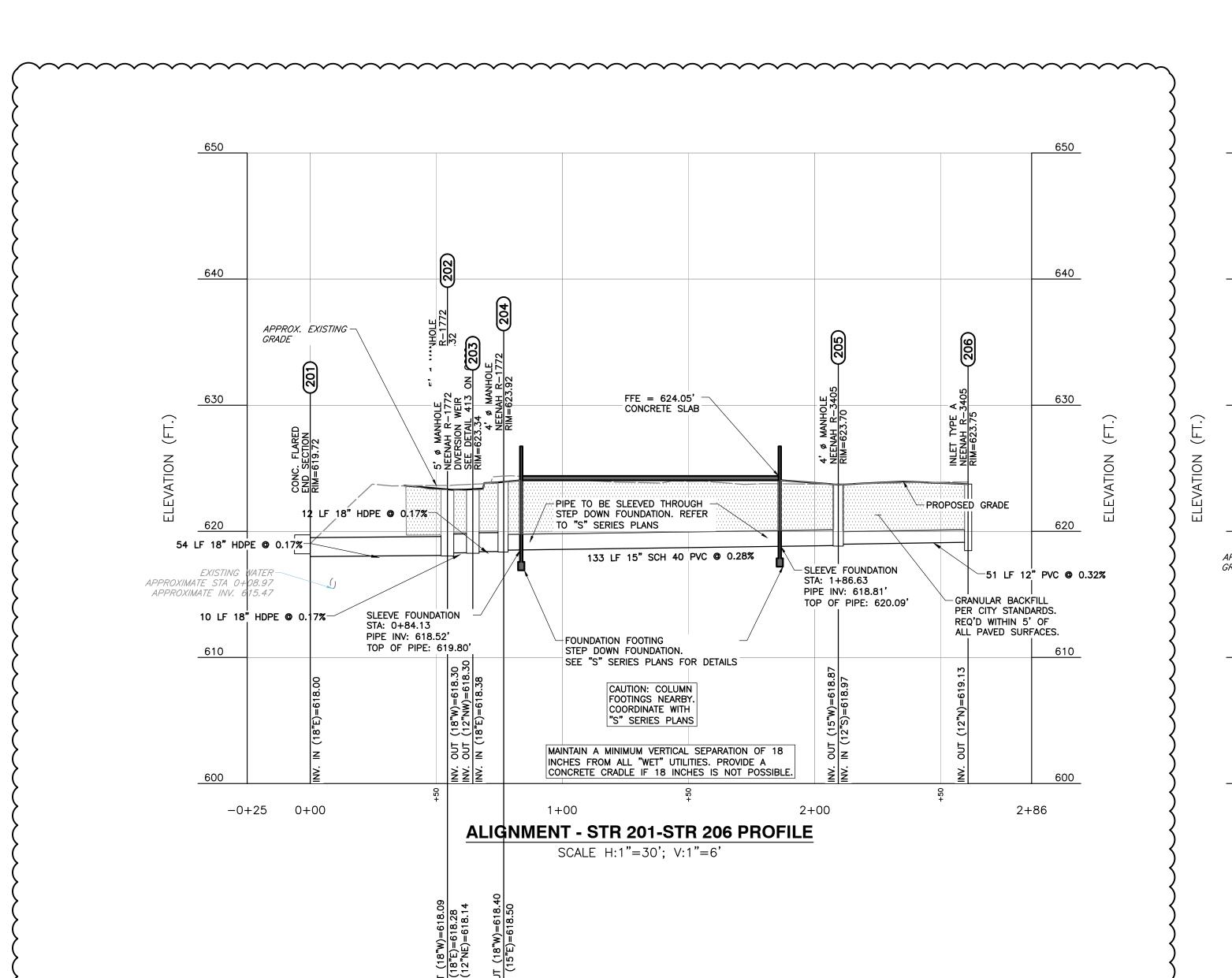


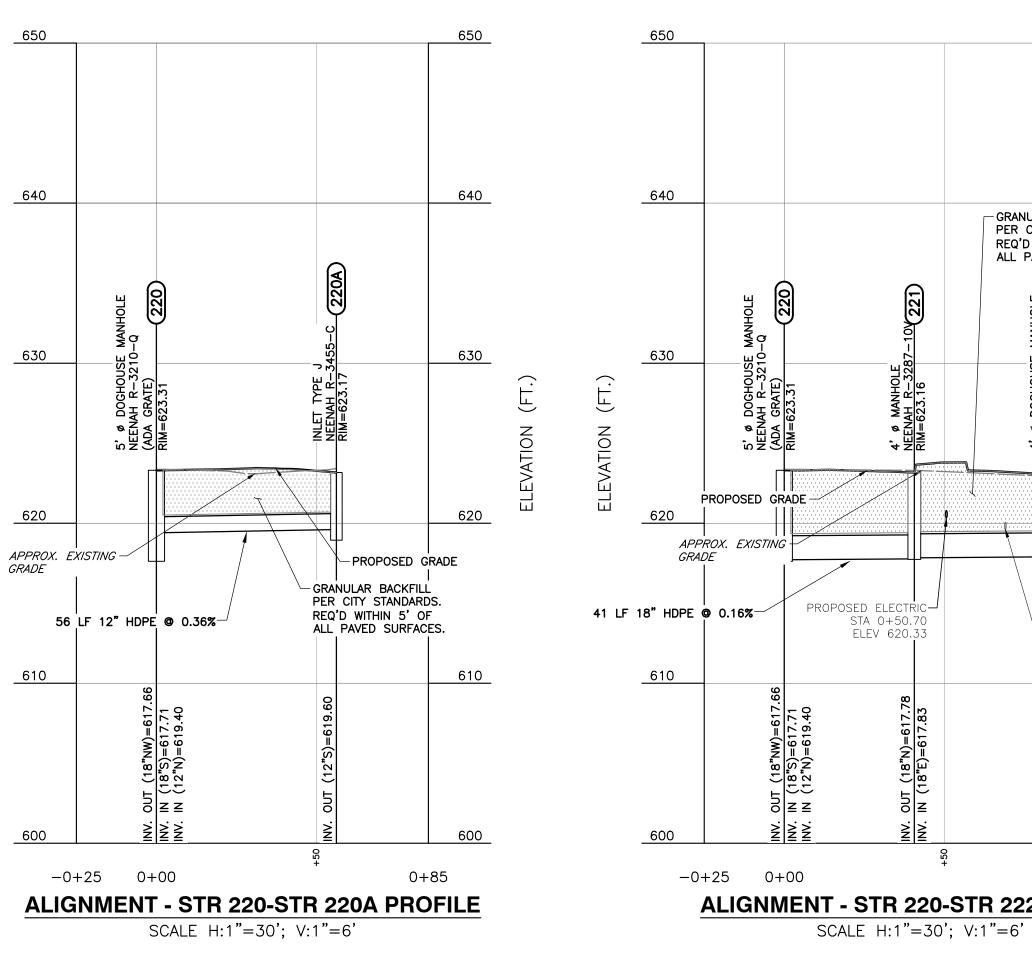
DRAWING NUMBER

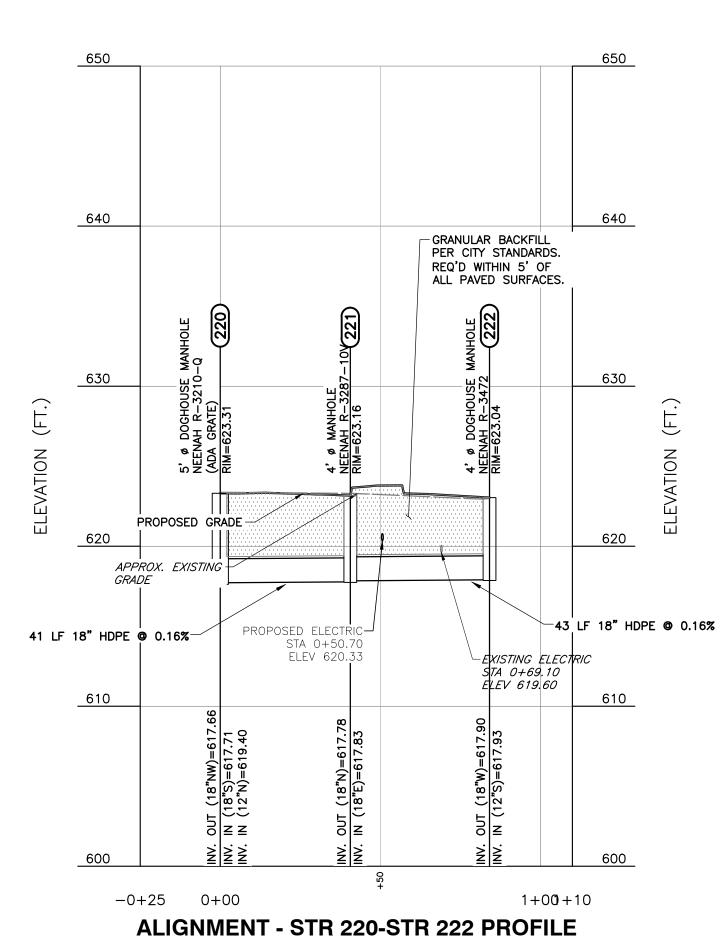
PROJECT NUMBER 2025022



SCALE IN FEET







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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.

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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: 11/03/2025 - ADDENDUM #01

ISSUE DATE | DRAWN BY | CHECKED BY 10/24/25

DRAWING TITLE:

STORMWATER **PROFILES**

CERTIFIED BY: HAN M. AUGUSTERS OF No. PE12100829 STATE OF NOIANA ... Jarle Jay 10/24/2025

DRAWING NUMBER

PROJECT NUMBER 2025022

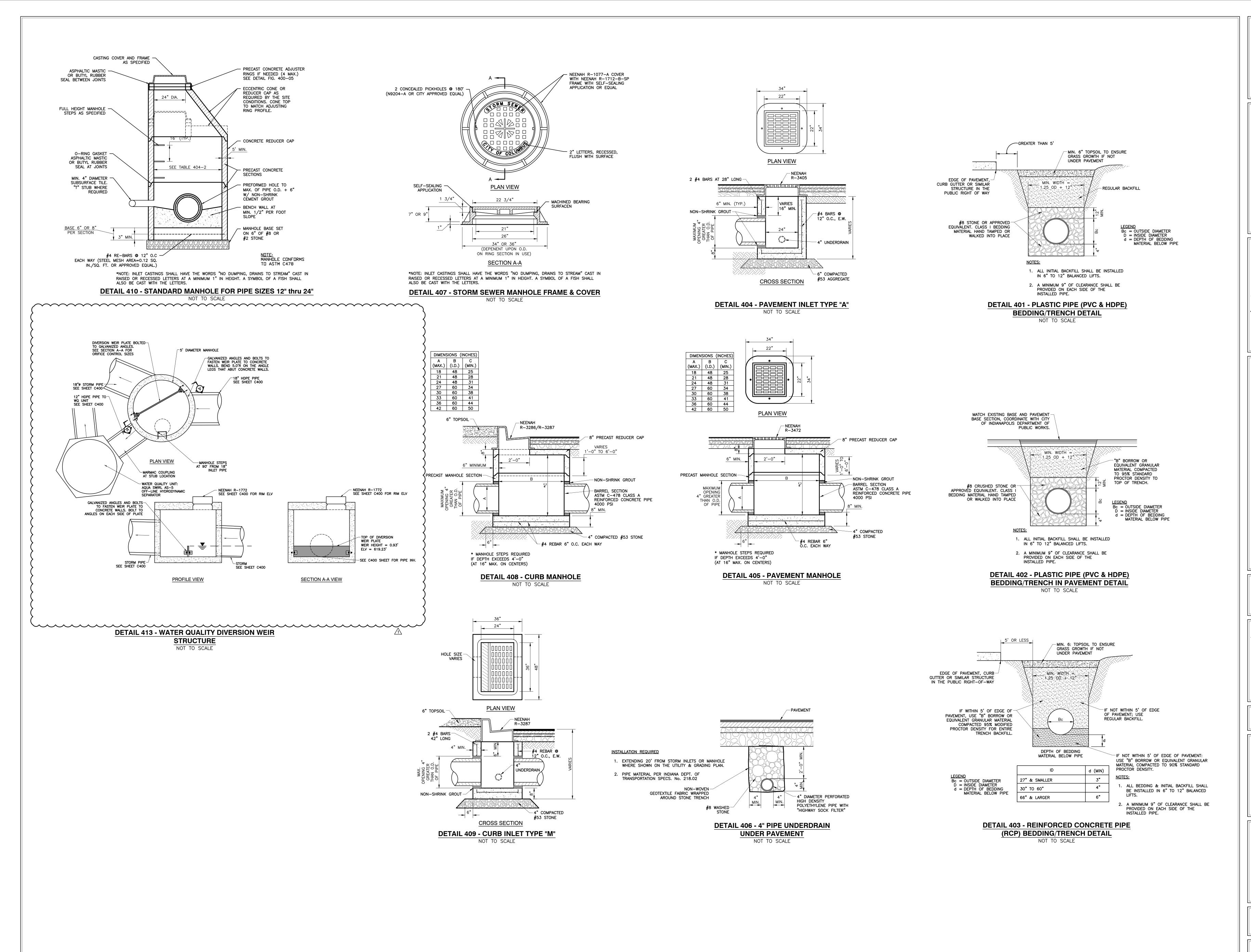
Know what's **below. Call** before you dig.

SCALE IN FEET (HORIZONTAL)

SCALE IN FEET (VERTICAL)



- 1. TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CEC,
- INC.; DATED JULY 17, 2025. 2. CONTRACTOR TO REFER TO C400 FOR MORE INFORMATION.
- CONTRACTOR TO POTHOLE EXISTING UTILITIES TO VERIFY DEPTH, LOCATION, AND SIZE. SHOULD AN ISSUE ARISE, THE CONTRACTOR SHOULD CONTACT THE DESIGN TEAM.





Civil & Environmental Consultants, Inc. 433 N. CAPITOL AVENUE, SUITE 200 **INDIANAPOLIS, IN 46204** www.cecinc.com

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REVISIONS: 11/03/2025 - ADDENDUM #01

ISSUE DATE | DRAWN BY | CHECKED BY

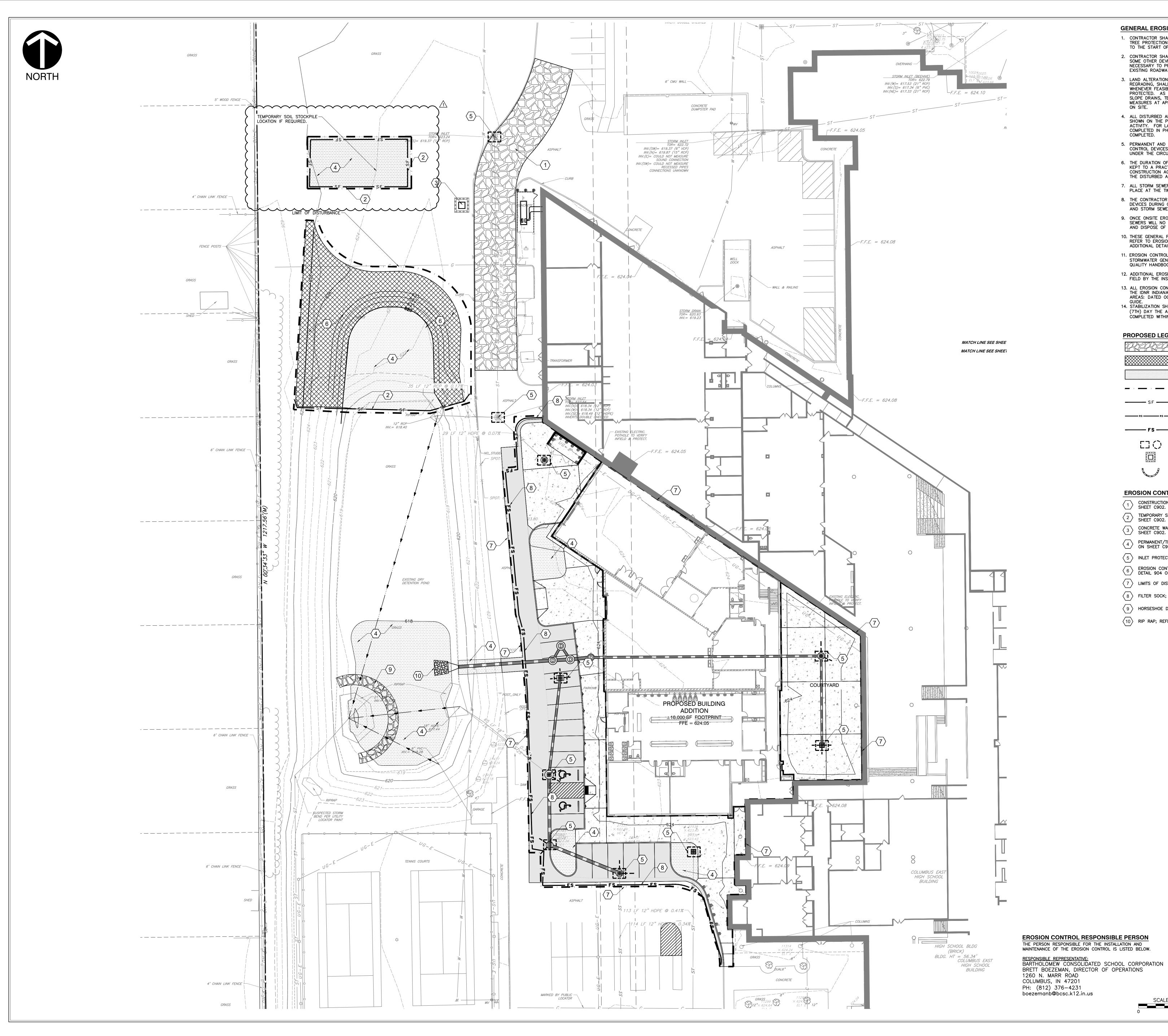
10/24/25 SGJ DRAWING TITLE:

SITE DETAILS

CERTIFIED BY: THAN M. A. BEGISTERED SOLL No. PE12100829 STATE OF Jarle Jark 10/24/2025

DRAWING NUMBER C800

PROJECT NUMBER 2025022



GENERAL EROSION CONTROL NOTES:

- 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
- 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
- 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 TWO WEEKS,
- 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
- 11. EROSION CONTROL TO COMPLY WITH THE INDIANA CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP), AND INDIANA STORMWATER
- QUALITY HANDBOOK. 12. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE
- 13. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE IDNR INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS: DATED OCTOBER 1992 AND THE SCS FIELD OFFICE TECHNICAL
- 14. STABILIZATION SHALL BE INITIATED BY THE END OF THE SEVENTH (7TH) DAY THE AREA WAS LEFT IDLE. STABILIZATION MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION.

PROPOSED LEGEND:

ADDITIONAL DETAILS

FIELD BY THE INSPECTOR.

PROPOSED CONSTRUCTION ENTRANCE EROSION CONTROL BLANKET PERMANENT/ TEMPORARY SEEDING AREAS

PROPOSED LIMITS OF DISTURBANCE

PROPOSED TREE PROTECTION FENCE

PROPOSED FILTER SOCK

PROPOSED SILT FENCE

PROPOSED INLET PROTECTION PROPOSED CONCRETE WASHOUT

ROCK DOUGHNUT INLET PROTECTION

EROSION CONTROL ITEMS:

- CONSTRUCTION ENTRANCE; REFER TO DETAIL 901 ON SHEET C902.
- TEMPORARY SILT FENCE; REFER TO DETAIL903 ON SHEET C902.
- CONCRETE WASHOUT STATION; REFER TO DETAIL 902 ON SHEET C902.
- PERMANENT/TEMPORARY SEEDING AREAS; REFER TO DETAIL ON SHEET C902.
- (5) INLET PROTECTION; REFER TO DETAIL 905 ON SHEET C902. 6 EROSION CONTROL BLANKET AND SEEDING; REFER TO DETAIL 904 ON SHEET C902.
- $\langle 7 \rangle$ LIMITS OF DISTURBANCE.
- (8) FILTER SOCK; REFER TO DETAIL 911 ON SHEET C902
- \langle 9 \rangle HORSESHOE DAM; REFER TO DETAIL 906 ON SHEET C902.

(10) RIP RAP; REFER TO DETAIL 910 ON SHEET C902

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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.

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REVISIONS: 11/03/2025 - ADDENDUM #01

SSUE DATE | DRAWN BY | CHECKED BY

10/24/25 SGJ

DRAWING TITLE: STORMWATER POLLUTION **PREVENTION** PLAN

> CERTIFIED BY: THAN M. P TA REGISTERS TO No. PE12100829 STATE OF MDIANA .. Jede 20/24/2025

DRAWING NUMBER

PROJECT NUMBER 2025022

Know what's **below. Call** before you dig.

SCALE IN FEET

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

(A2) VICINITY MAP

LONGITUDE: 85° 53' 10" W

THE VICINITY MAP SHOWING THE PROJECT LOCATION CAN BE SEEN ON THE COVER SHEET. (A3) PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A 18,000 SF BUILDING EXPANSION, DRY POND EXPANSION, AND PARKING LOT IMPROVEMENTS. THE PROJECT IS LOCATED AT THE SOUTHWESTERN QUADRANT OF THE OF S MARR RD AND INDIANA AVE INTERSECTION. THE PROJECT RESIDES WITHIN BARTHOLOMEW COUNTY, INDIANA.

ESTIMATED START DATE: NOVEMBER 2025 ESTIMATED COMPLETION DATE: DEC. 31, 2027 (A4) SITE LATITUDE AND LONGITUDE

TOWNSHIP: 9 N RANGE: 6 E SECTION 29

LATITUDE: 39° 11' 42" N (A5) LEGAL DESCRIPTION

A LEGAL DESCRIPTION IS SHOWN ON THE ALTA/NSPS LAND TITLE SURVEY BOUNDARY RETRACEMENT SURVEY (SHEET SV-2) INCLUDED WITH THIS PLAN SET.

(A6) PLAN/PLAT SHOWING BOUNDARIES AND LOT NAMES PLEASE REFER TO SHEET COO1 INCLUDED WITH THE SUBMITTAL

(A7) 100 YEAR FLOODPLAIN. FLOODWAYS AND FRINGES THE PROJECT DOES NOT LIE WITHIN A 100 YEAR FLOODPLAIN AND/ OR THE FLOODWAY AREA. (A8) ADJACENT LANDUSE

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

NORTH: RS2 - RESIDENTIAL WEST: AG - AGRICULTURE SOUTH: RS3 - RESIDENTIAL

(A9) IDENTIFICATION OF A U.S. EPA APPROVED TMDL OR ESTABLISHED TMDL

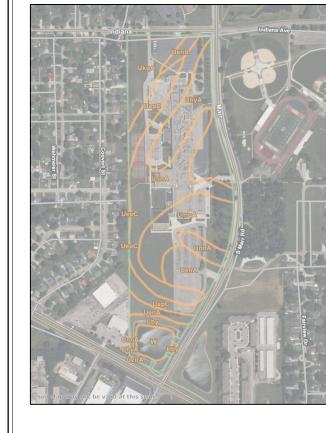
THE SITE DRAINS TO THE CLIFTY CREEK WATERSHED. THE SITE DOES NOT DISCHAREGE INTO A WATERBODY IN THE US EPA TMDL LIST

YAYOY RECEIVING WATERS DISCHARGES INTO PROPOSED STORM SEWER SYSTEM THEN INTO AN EXISTING WET POND THAT EXISTS ON THE SOUTHERN EDGE OF THE PROPERTY. THEN IT IS RELEASED TO

(A11) IDENTIFICATION OF IMPAIRED WATERS & POLLUTANTS ON 303(d) LIST

THE SITE DOES NOT DISCHARGE INTO ANY WATERS ON THE 303(d) LIST.

(A12) SOIL MAP



PLEASE REFER TO THE DRAINAGE REPORT AND GEOTECHNICAL REPORT BY PATRIOT ENGINEERING AND ENVIRONMENTAL, INC. (PROJECT NO: 25-1296-01G) DATED SEPTEMBER 24, 2025 FOR THE SOIL DESCRIPTIONS AND LIMITATIONS. (A13) SITE WETLANDS. LAKES AND WATER COURSES THERE ARE NO EXISTING WETLAND AREAS ON SITE.

(A14) REQUIRED STATE OR FEDERAL WATER **QUALITY PERMITS**

AN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) NOTICE OF INTENT (NOI) PERMIT WILL BE REQUIRED FOR THIS PROJECT. (A15) EXISTING VEGETATIVE COVER

THE EXISTING SITE IS A SCHOOL PARKING LOT AND GRASSY SURFACE ON THE

WESTERN EDGE OF THE PROPERTY. MINIMAL VEGETATIVE COVER EXISTS (A16) EXISITNG SITE TOPOGRAPHY

REFER TO EXISTING TOPOGRAPHY SHEET COO1.

(A17 & A18) LOCATION OF SITE RUN-OFF

REFER TO FLOOD ROUTING AND DRAINAGE PLANS ON SHEETS C310 AND C400 TO C410 FOR PROPOSED SITE RUNOFF. REFER TO SHEET COO1 FOR EXISTING SITE CONDITIONS (A19 & A20) EXISITNG SITE STRUCTURES AND

DRAINAGE FACILITIES REFER TO EXISTING CONDITIONS SHEET COOI & DEMOLITION SHEET C100.

(A21) POTENTIAL DISCHARGES TO GROUNDWATER THERE ARE NO SINKHOLES OR UNCAPPED ABANDONED WELLS LOCATED ON THE PROJECT

SITE OR DOWNSTREAM OF THE PROJECT SITE. (A22 & A23) SITE ACREAGE & DISTURBANCE AREA

THE OVERALL SITE ACREAGE AND DISTURBED AREA IS APPROXIMATELY ±4.72 ACRES. REFER TO SHEET C900.

(A24) PROPOSED FINAL TOPOGRAPHY

REFER TO THE GRADING PLAN SHEETS C300 TO C310 FOR THE FINAL TOPOGRAPHY. (A25) DISTURBANCE BOUNDARY

REFER TO THE STORMWATER POLLUTION PREVENTION PLAN SHEET C900.

(A26 & A27) DRAINAGE INFRASTRUCTURE LOCATION REFER TO THE DRAINAGE PLAN SHEET C400 TO C410 FOR THE LOCATION, SIZE

AND DIMENSIONS OF THE STORM SEWER INFRASTRUCTURE. REFER ALSO TO SHEET C900 FOR THE OUTLET/DISCHARGE LOCATIONS.

(A28) SITE IMPROVEMENTS PLAN

REFER TO THE SITE PLAN SHEETS C200.

(A29) SOIL STOCKPILE, BORROW AND/OR DISPOSAL NO PERMANENT SOIL STOCKPILES ARE PLANNED FOR THIS DEVELOPMENT. IF TEMPORARY STOCKPILE OR BORROW AREAS ARE UTILIZED DURING CONSTRUCTION THEN REFER TO THE

RECOMMENDED LOCATION PER SHEET C900. THE PERIMETER OF THE TEMPORARY STOCKPILE

AREA SHALL BE ENCOMPASSED WITH SILT FENCE. YA3O&A34X-CONSTRUCTION-SUPPORT-&-IN-STREAMACTIVITI CONSTRUCTION SUPPORT OR IN-STREAM CONSTRUCTION ACTIVITIES WOULD BE PLANNED FOR THIS PROJECT'S SOUTH EXISTING CHANNEL IF NEEDED.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN CONSTRUCTION

COMPONENT (SECTION B)

(B1) POTENTIAL CONSTRUCTION POLLUTANTS

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) CONSTRUCTION ENTRANCE INFORMATION

THE LOCATION OF THE CONSTRUCTION ENTRANCE IS ON SHEET C900.

DAYS AFTER INITIATION. REFER TO SHEETS C900 FOR SEEDING AREAS.

(B3) TEMPORARY & PERMANENT SURFACE STABILIZATION TEMPORARY SEEDING 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 O PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON, STABILIZATION MUST BE INITIATED B'

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 CS FOR SEEDING AREAS. CONTRACTOR TO SEED ALL DISTURBED AREAS.

THE END OF THE SEVENTH (7TH) DAY. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (1

STRAW MULCH RATE 1.5-2 TONS PER ACRE. CO-APPLIED WITH POLYMER TACKIFIER AGENT AT A RATE OF 40 60 POUNDS PER ACRE OR CRIMP MULCH INTO SOIL WITH DOZER TRACKING OR DISK HARROWS SET STRAIGHT PREVENT STRAW FROM BLOWING.

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 EROSION CONTROL BLANKET.A RIP RAP APRON AND A ROCK CHECK DAM WILL BE USED AS EROSION CONTROL MEASURES FOR CONCENTRATED FLOWS. THE LOCATION, DETAILS, AND

SPECIFICATIONS FOR EACH STATED CONCENTRATED FLOW MEASURE IS ON SHEETS C900 TO (B5) SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS SILT FENCE. 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 SILT FENCE, TEMPORARY SEEDING AND EROSION CONTROL INLET PROTECTION WILL BE USED TO CONTROL RUN OFF. THE LOCATION, DETAILS, AND SPECIFICATIONS FOR EACH STATED SEDIMENT

CONTROL MEASURE IS ON SHEETS C900 TO C902. IF THE EXISTING DRY POND IS USED AS A SEDIMENT BASIN DURING CONSTRUCTION. TH CONTRACTOR SHALL ADEQUATELY STABILIZE THE OUTLET, REMOVE EXCESS SEDIMENT DURING CONSTRUCTION, RESTORE THE POND TO THE DESIGNED ELEVATIONS PRIOR TO FINAL SEEDING. (B7) STORMWATER OUTLET PROTECTION LOCATION AND SPECIFICATIONS

REFER TO PLANS FOR THE LOCATION, DETAILS, AND SPECIFICATIONS FOR OUTLET PROTECTION-SHEETS C900 TO C902.

(B8) GRADE STABILIZATION MEASURES

EROSION CONTROL BLANKETS WILL BE USED IN THIS PHASE ON GRADES GREATER THAN 6:1 AND/ OR EXPOSED TO CONCENTRATED FLOW. REFER TO CONSTRUCTION PLANS FOR

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 MEASURES

DEWATERING WILL BE USED TO CONSTRUCT THE PROPOSED DETENTION PONDS, AND TO CONNECT THE OUTLET OF THE EXISTING FLYING J POND TO THE PROPOSED STRUCTURE, AS SHOWN ON SHEET C405. THE EXISTING SOUTH SWALE WILL ALSO BE DEWATERED TO CONSTRUCT THE PROPOSED OUTLET.

SEDIMENT FROM DEWATERING PUMP WILL BE TRAPPED USING FILTER BAGS OR APPROVED ALTERNATE. BAGS WILL BE USED, REPLACED, AND DISPOSED OF IN ACCORDANCE WITH (B10) WORK WITHIN WATERBODIES

NO WORK	WILL BE	OCCURRING	WITHIN WA	TERBODIES.		
(B11)	MONI	ITORING	AND N	NAITEN	ANCE GL	JIDELINE

EROSION CONTROL MEASURE	* MAINTENANCE	INSTALLATION SEQUENCE	ACCEPT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE. INSPECT DUMPSTERS FOR LEAKS AND CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER TO KEEP RAIN
PERMANENT SEEDING EROSION CONTROL BLANKET SEED, SOD & LANDSCAPE AROUND		ALONG WITH ROUGH GRADING AFTER FINISH GRADING AFTER FINISH GRADING AFTER FINISHED GRADING	CONTAINERS AND MORE FREQUENT PICKUP DURING THE DEMOLITION PHASE OF CONSTRUCTION. THIS SOLID WASTE PROMPTLY SINCE EROSION AND SEDIMENT CONTROL DEVICES TEND TO COLLECT AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN THE CONSTRUCTION SITE. LEAVE DUMPSTER CLEANING TO THE TRASH HAULING CONTRACTOR. A IMMEDIATELY IF A CONTAINER DOES SPILL. MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT FROM DRAINAGE FACILITIES AND WATERCO
DUST CONTROL CONCRETE WASHOUT	AS NEEDED WEEKLY, AFTER STORM EVENTS AND AS NEEDED	ALONG WITH ALL EARTHWORK ACTIVITIES PRIOR TO START OF ANY CONCRETE WORK	INSPECT CONSTRUCTION WASTE AREA REGULARLY. ARRANGE FOR REGULAR WASTE COLLECTION. SPILL PREVENTION FOR CONCRETE WASHOUT SHALL CONFORM TO THE FOLLOWING PRACTICES: S MIXING EXCESS AMOUNTS OF FRESH CONCRETE. PERFORM WASHOUT OF CONCRETE TRUCKS OF
	N/A N/A N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED	STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. DO NOT ALLOW EXCESS CONCRETE TO 50 FT FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM LIQUID AND SOLID WASTE. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE BY DRAINING WATER TO A BERMED OR LEVEL AREA WHEN WASHING CONCRETE TO REMOVE FINE AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS

A STORM EVENT IS CONSIDERED AT LEAST ONE-HALF INCH OF RAINFALL. * - SEE CHART FOR MAINTENANCE REQUIREMENTS

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS

<u>SILT FENCE MAINTENANCE REQUIREMENTS:</u> INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE

AFFECTED PORTION IMMEDIATELY REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF HE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.

TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE,

NLET PROTECTION MAINTENANCE

<u> EQUIREMENTS</u> INSPECT EACH INLET PROTECTION MEASURE WEEKLY AND AFTER STORM EVENTS OR HEAVY USE. INSPECT STORM INLET BASKET OR GEOTEXTILE FABRIC

REMOVE ANY SEDIMENT, AVOID DAMAGING OR UNDERCUTTING FABRIC.

EMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL

AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY RESHAPE PAD AS NEEDED FOR DRAINAGE AND

RUNOFF CONTROL TOPDRESS WITH CLEAN STONE AS NEEDED. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR

MAINTENANCE REQUIREMENTS:

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

<u>CONCRETE WASHOUT MAINTENANCE</u> <u>EQUIREMENTS:</u> INSPECT EACH CONCRETE WASHOUT AREA DAILY AND AFTER STORM EVENTS OR

2. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE, CHECK FOR LEAKS, SPILLS, OR TRACKING OF SOIL BY EQUIPMENT. REMOVE EXCESS CONCRETE WHEN WASHOUT SYSTEMS REACHES 50% OF THE DESIGN CAPACITY. UPON REMOVAL, INSPECT

STRUCTURE. REPAIR AS NEEDED. 4. DISPOSAL OF ALL CONCRETE IN A LEGAL REPLACE PLASTIC LINER AFTER EVERY CLEANING. ENLARGE AS NECESSARY TO MAINTAIN CAPACITY.

(B12) STORMWATER QUALITY SEQUENCE

PRE-CONSTRUCTION ACTIVITIES:

SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY OF COLUMBUS ENGINEERING DEPARTMENT.

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.

ALL LAND DISTURBING ACTIVITIES HAVE BEEN COMPLETED

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.

TO FINAL THE CITY STORMWATER MANAGEMENT PERMIT AND TO TERMINATE THE STATE CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP):

CERTIFY THE SITE MEETS THE REQUIREMENTS THE FOLLOWING REQUIREMENTS:

FINAL STABILIZATION OF THE ENTIRE SITE HAS BEEN COMPLETED AND VEGETATED AREAS HAVE ACHIEVED 70% UNIFORM PERENNIAL VEGETATED COVER. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED ALL PERMANENT STORMWATER QUALITY MEASURES HAVE BEEN IMPLEMENTED AND ARE OPERATIONAL. PROVIDE DOCUMENTATION THAT THE STORMWATER BMPS HAVE BEEN ALL CONSTRUCTION MATERIALS, WASTE, WASTE HANDLING DEVICES, EQUIPMENT AND VEHICLES HAVE BEEN REMOVED.

NO FUTURE LAND DISTURBING ACTIVITIES WILL OCCUR AT THE PROJECT SITE CONTACT THE CITY STORMWATER COORDINATOR TO REQUEST A FINAL RELEASE INSPECTION

MORTAR, STUCCO, OTHER CEMENTITIOUS PRODUCTS. NO CLEANING OR WASHING OR MIXING ONTO GROUND.

RECEIVE AN ADEQUATE FINAL INSPECTION REPORT.

ANY STATIONARY ABOVE GROUND STORAGE TANKS.

COLUMBUS FIRE DEPARTMENT

COLLIMBUS POLICE DEPARTMENT

BARTHOLOMEW COUNTY SOIL & WATER CONSERVATION

CITY OF COLUMBUS ENGINEERING DEPARTMENT

FILE A NOTICE OF TERMINATION THROUGH THE IDEM'S REGULATORY EPORTAL. ATTACH THE ADEQUATE FINAL INSPECTION REPORT TO CLOSE OUT THE CSGP RECEIVE A NOTICE OF TERMINATION VERIFICATION FROM IDEM.

(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 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 WATER QUALITY MEASURES AND PERFORMING THE WEEKLY SELF-MONITORING INSPECTIONS.

PROMPTLY AND DISPOSE OF PROPERLY. AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING
TO FINAL THE CITY STORMWATER MANAGEMENT PERMIT AND TO TERMINATE THE STATE CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP): 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

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.

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 O 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

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 FO 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. SFGREGATE 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

BEEN ESTABLISHED IN AN AREA TO PREVENT SILT AND SOIL EROSION INTO THE STORM SEWER SYSTEM. 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 WIL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS

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 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 IDEM EMERGENCY SPILL REPORTING:

(317) 233-7745 OR (888) 233-7745

(812) 376-2679

(812) 376-2600

(812) 378-1280

(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 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.

JN-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. 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

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

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

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

(0.50) INCH OF RAINFALL WITHIN A 24-HOUR PERIOD. INSPECTIONS THAT WERE CONDUCTED TWENTY-FOUR (24) HOURS PRIOR TO A QUALIFYING PRECIPITATION

c.IF THERE ARE MULTIPLE QUALIFYING PRECIPITATION EVENTS OCCUR DURING THE WEEK NO MORE THAN THREE (3) INSPECTIONS ARE REQUIRED WITHIN THAT WEEK.

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 5.ENSURE THE SWP3 AND SUPPORTING DOCUMENTATION ASSOCIATED WITH THE SMP AND PROJECT MANAGEMENT LOG ARE ACCESSIBLE AT THE PROJECT SITE OFFICE OR

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.

IN THE POSSESSION OF ON-SITE INDIVIDUALS WITH RESPONSIBILITY FOR THE OVERALL PROJECT MANAGEMENT OR ASSOCIATED WITH THE MANAGEMENT AND OPERATIONS

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

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 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 POLLUTATINTS 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: 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.

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. A MECHANICAL BMP STRUCTURE IS 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 C400. C300. &

4. DRY DETENTION POND IS 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. DETAIL CAN BE FOUND ON SHEET C800.

(C3) PLAN DETAILS FOR EACH STORMWATER MEASURE

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 SHEET C400 FOR MECHANICAL BMP STRUCTURES, STORM SEWER AND DRY DETENTION POND. DETAILS CAN BE FOUND ON SHEET C800 AND IN THE O&M MANUAL. (C4) SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION

THE STORMWATER BMP STRUCTURE 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, I

INDIVIDUAL EROSION CONTROL MEASURES MAY BE REMOVED FROM INLET PROTECTION STATUS FOLLOWING SEEDING AND AFTER SUFFICIENT VEGETATION HAS

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

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

SCALE IN FEET

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 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

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

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

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SCOPE DRAWINGS: These drawings indicate the general scope of the proje terms of architectural design concept, the dimensions of e building, the major architectural elements and the type tructural, mechanical and electrical systems. The drawings do not necessarily indicate or describe al required for full performance and completion of the On the basis of the general scope indicated or des the trade contractors shall furnish all items required for th

REVISIONS:

11/03/2025 - ADDENDUM #01

ISSUE DATE | DRAWN BY | CHECKED BY 10/24/25 SGJ

DRAWING TITLE:



DRAWING NUMBER

PROJECT NUMBER 2025022