ADDENDUM NO.1

South Putnam Middle School/High School Fieldhouse Addition

South Putnam Community School Corporation Greencastle, Indiana

Project No. 222152.03

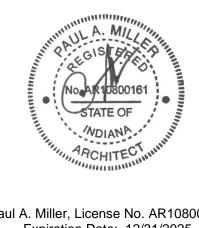
Index of Contents

Addendum No. 1, 10 items, 5 pages New Project Manual Sections 21 41 00 - Fire Suppression Underground Tank Storage and 22 13 29 -Sanitary Sewerage Pumps. New Drawing Sheet E-502 - Electrical Details Revised Drawing Sheets: C0.0, C0.1, C1.0, C2.0, C3.0, C3.1, C4.0, C5.0, C6.0, C7.0, C7.1, C8.0, C8.1, S-101, S-103, S-305, A-11A, A-301, A-303, A-306, A-401, A-410, A-601, A-602, AI11A, AI11B, AI201, AI601, AQ11A, AQ11B, AQ601, PF101, PP101, PR101, P-501, P-601, MH101, ES102, EL101, EL102, EP101, EP102, E-601, and E-602

Date: June 13, 2024

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

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



Paul A. Miller, License No. AR10800161 Expiration Date: 12/31/2025

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated May 23, 2024, for South Putnam Community School Corporation, 3999 South US Highway 231, Greencastle, Indiana 46135; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.

This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

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

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

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

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, TABLE OF CONTENTS

- A. Book 3, Page 00 01 10-1, DIVISION 21: Add Section 21 41 00 Fire Suppression Underground Tank Storage.
- B. Book 3, Page 00 01 10-1, DIVISION 22: Add Section 22 13 29 Sanitary Sewerage Pumps.

ITEM NO. 2. NEW PROJECT MANUAL SECTION(S)

A. New Project Manual Sections 21 41 00 – Fire Suppression Underground Tank Storage and 22 13 29 – Sanitary Sewerage Pumps are included with and hereby made a part of this Addendum.

ITEM NO. 3. PROJECT MANUAL, SECTION 08 71 00 – DOOR HARDWARE

A. Article 3.5, D.: Replace Hardware Sets No. 04, 05, 08 and 10 as follows:

Hardware Group No. 04

For use on Door #(s):

A108 A109

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	L9040 03A L583-363 OS-OCC	626	SCH
1	EA	SURFACE CLOSER	4040XP REG	689	LCN
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	BLK	IVE
1	EA	KICK PLATE	8400 8" X 1 1/2" LDW B-CS (VERIFY/MATCH HEIGHT AND MATERIAL WITH EXISTING)	BLK	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
<u>1</u>	<u>EA</u>	GASKETING	<u>488SBK PSA</u>	<u>BK</u>	<u>ZER</u>
3	EA	SILENCER	SR64	GRY	IVE

Addendum No. 1 South Putnam Middle School/High School Fieldhouse Addition South Putnam Community School Corporation Hardware Group No. 05

For use on Door #(s): A111

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	EU MORTISE LOCK	L9092BDCEU 03A 12/24 VDC	626	SCH
1	EA	PERMANENT CORE	1C7*2	626	BES
1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 8" X 1 1/2" LDW B-CS (VERIFY/MATCH HEIGHT AND MATERIAL WITH EXISTING)	BLK	IVE
1	<u>EA</u>	GASKETING	<u>488SBK PSA</u>	<u>BK</u>	<u>ZER</u>
3	EA	SILENCER	SR64	GRY	IVE
1	EA	POWER SUPPLY	BY ACCESS CONTROL INTEGRATOR		B/O
1	EA	CREDENTIAL READER	BY ACCESS CONTROL INTEGRATOR		B/O

DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER WILL UNLOCK OUTSIDE LEVER, ALLOWING ACCESS. DOOR REMAINS LOCKED WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.

Hardware Group No. 08

For use on Door #(s):

A110 A110A

Provide each OPENING with the following:

	• • • • • •	g.			
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	CONT. HINGE	224XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
<u>1</u>	<u>EA</u>	AUTO FLUSH BOLT	FB31P/FB41P (AS REQ'D)	<u>630</u>	IVE
4	EA	AUTO FLUSH BOLT	FB31T/FB41T (AS REQ'D)	630	IVE
<u>1</u>	<u>EA</u>	DUST PROOF STRIKE	DP2	<u>626</u>	IVE
1	EA	EU MORTISE LOCK	L9092BDCEU 03A 12/24 VDC	626	SCH
1	EA	PERMANENT CORE	1C7*2	626	BES
1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
<u>2</u>	<u>EA</u>	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	<u>689</u>	<u>LCN</u>
2	EA	SURFACE CLOSER (W/ DEAD STOP & HO)	4040XP HCUSH	689	LCN
2	EA	ARMOR PLATE	8400 35" X 1" LDW B-CS	630	IVE
<u>2</u>	<u>EA</u>	ARMOR PLATE (UL)	8402 35" X 1" LDW B-CS	<u>630</u>	IVE
1	EA	GASKETING	488SBK PSA	<u>BK</u>	ZER
1	<u>EA</u>	GASKETING, MEETING STILE	<u>5070</u>	<u>CL</u>	NGP
2	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	BY ACCESS CONTROL INTEGRATOR		B/O

Addendum No. 1 South Putnam Middle School/High School Fieldhouse Addition South Putnam Community School Corporation

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	POWER SUPPLY	BY ACCESS CONTROL		B/O
			INTEGRATOR		
DOOF	NORM	ALLY CLOSED AND LOCKED.	PRESENTING VALID CREDENTIAL T	O READE	R WILL
UNLO	CK OUT	SIDE LEVER, ALLOWING ACCES	SS. DOOR REMAINS LOCKED WITH L	OSS OF F	OWER.
FREE EGRESS AT ALL TIMES.					

Hardware Group No. 10

For use on Door #(s): A112A

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 (NRP AS REQ'D)	652	IVE
1	EA	FIRE EXIT HARDWARE (PANIC HARDWARE)	<u>99-L-NL-F-03</u> - (LD-99-L-NL-03)	626	VON
1	EA	PERMANENT CORE	1C7*2	626	BES
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
1	EA	SURFACE CLOSER (W/ DEAD STOP)	4040XP CUSH	689	LCN
1	EA	KICK PLATE	8400 8" X 1 1/2" LDW B-CS (VERIFY/MATCH HEIGHT AND MATERIAL WITH EXISTING)	BLK	IVE
<u>1</u>	<u>EA</u>	GASKETING	<u>488SBK PSA</u>	<u>BK</u>	<u>ZER</u>
3	EA	SILENCER	SR64	GRY	IVE

ITEM NO. 4. PROJECT MANUAL, SECTION 09 65 66.01 – WEIGHT ROOM FLOORING

A. Article 2.4, A., 1.: Delete paragraph "c" in its entirety.

ITEM NO. 5. PROJECT MANUAL, SECTION 09 67 66 – FLUID-APPLIED ATHLETIC FLOORING

- A. Article 1.5, C., 1.: Change "20%" to "<u>28%</u>".
- B. Article 1.5. C., 2.: Change "1.0mm" to "<u>1.4mm</u>".
- C. Add 1.5., E., as follows:

"E. Floor system shall be approved according to EN 14904 Standard, in Category P1."

- D. Article 2.1, A., 1., a.: Change "Classic 90" to "<u>Classic 110</u>" within paragraph.
- E. Article 2.1, A., 2.: Delete paragraph "e" in its entirety.
- F. Article 2.2, A., 5., a.: Add "<u>Standard and Designer Series</u>" to end of paragraph.
- G. Add 2.3, C., as follows:
 - "C. Metal Edge Strips: Angle or L-shape, height to match flooring thickness, metallic designed specifically for flooring applications, white zinc alloy or stainless steel; ASTM A 666, 300 Series exposed-edge material."

Η. Add 3.3, C., as follows:

"С. Metal Edge Strips: Install at locations indicated or where exposed edge of flooring meets slab on grade concrete floor that finishes below top of flooring."

ITEM NO. 6. PROJECT MANUAL, SECTION 09 96 00 - HIGH-PERFORMANCE COATINGS

- Α. Add 3.7, A., 2., as follows:
 - "2. High-Build Coating System: (Code #5.225)
 - Preparation: SSPC-SP3 Power Tool Cleaning 1. 2.
 - Prime Coat: Modified Polyamidoamine Epoxy applied to 4.0 to 6.0 mils DFT.
 - Tnemec Series 135 a.
 - PPG: Amerlock 2 b.
 - Sherwin Williams: Macropoxy c.
 - Intermediate Coat: Semi-Gloss, Hydrophobic Acrylic; 3.0 to 4.0 mils DFT. 3.
 - **Tnemec Series 115** a.
 - PPG; Pitt-Tech Plus EP, 90-1710 Series b.
 - Sherwin Williams; Pro Industrial Multi-Surface Acrylic C.
 - Top Coat: Semi-Gloss, Hydrophobic Acrylic; 3.0 to 4.0 mils DFT. 4.
 - **Tnemec Series 115** a.
 - PPG; Pitt-Tech Plus EP, 90-1710 Series b.
 - Sherwin Williams; Pro Industrial Multi-Surface Acrylic C.
 - 5. Application includes, but is not limited to:
 - Miscellaneous steel framing members, columns, beams, plates, lintels exposed a. and concealed within the existing pool environment.

ITEM NO. 7. PROJECT MANUAL, SECTION 21 11 22.01 - FIRE PUMP HOUSE

- Α. Add 2.1, A., 16., as follows:
 - "16. The following devices and equipment shall be pre-wired:
 - Light fixture. a.
 - b. Two receptacles
 - Lighting Panel c.
 - d. Transformer secondary to breaker"

ITEM NO. 8. ACCEPTABLE MANUFACTURERS

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

Section 07 42 13.23 - Metal Composite Material Wall Panels

- TFC Canopy, Garrett, Indiana

Section 09 65 66.01 - Weight Room Flooring - Regupol America, Lebanon, Pennsylvania (Aktivpro for MLRSAF-1, Strength series colors, MLRSAF-2, Intense Series colors, MLRSAF-3 custom color required) -RFS Sports, Kemah, Texas (Indoor Turf, Impact 55)

Section 10 14 19 – Dimensional Letter Signage - Signworks, Indianapolis, Indiana

Section 10 14 33 – Exterior Illuminated Panel Signage - Signworks, Indianapolis, Indiana

ITEM NO. 9. <u>NEW DRAWING SHEET</u>

A. Drawing Sheet No. E-502 – Electrical Details, dated 6/12/24, is included with and hereby made a part of this Addendum.

ITEM NO. 10. REVISED DRAWING SHEETS

A. Drawing Sheets: C0.0, C0.1, C1.0, C2.0, C3.0, C3.1, C4.0, C5.0, C6.0, C7.0, C7.1, C8.0, C8.1, S-101, S-103, S-305, A-11A, A-301, A-303, A-306, A-401, A-410, A-601, A-602, Al11A, Al11B, Al201, Al601, AQ11A, AQ11B, AQ601, PF101, PP101, PR101, P-501, P-601, MH101, ES102, EL101, EL102, EP101, EP102, E-601, and E-602 have been revised, dated 06/13/24 and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

PART 1 - GENERAL

The contractor shall exhibit an expertise with a reference of three or more similar fiberglass underground tank installations. Key tank installation steps and backfill materials, as noted in the Manufacturers Installation Guide Checklist, shall be confirmed and documented. Final documents shall be provided with As-Built documentation as part of project closeout procedures.

Single wall tanks and the TankAnchor anti-flotation system shall be manufactured or supplied by Fiberglass Tank Solutions, LLC. Or Xerxes

A. References

- 1. ASTM D4097 Standard Specification for Contact-Molded Glass-Fiber-Reinforced Thermoset Resin Corrosion Resistant Tanks
 - 1.A.1. Tanks and Materials conforming to ANSI / AWWA D120
 - 1.A.2. NFPA 22 Standard for Water Tanks for Private Fire Protection
 - 1.A.3. NFPA 1142 Standard for Water Supplies for Rural Fire Fighting
 - 1.A.4. Building code requirements for structural concrete, American Concrete Institute ACI 318 Submittals

B. Submittals

- 1.B.1. Provide Tank Product Data Sheets with general tank application and lay-out.
- 1.B.2. Provide Anti-Flotation Product Data Sheets showing material properties.
- 1.B.3. Provide Tank resin type showing material properties.
- 1.B.4. Provide Finite Element Analysis for the tank structure and design features with P.E. Stamp for State tank is installed.
- 1.B.5. Provide buoyancy calculations with P.E. Stamp for State tank is installed.
- 1.B.6. Provide Manufacturers' Installation Guide including shipping, handling and installation instructions.
- 1.B.7. Provide bedding and back fill sieve analysis.
- 1.B.8. Detailed shop drawings, to scale, in a DWG format, for the specific site plan, including all tank manufacturer accessories.

C. Design Criteria

- 1.C.1. Tank Size
 - 1.C.1.1. The underground single wall tank shall have a diameter of twelve (12) ft. with a length of one hundred fourty-six (146) ft.
 - 1.C.1.2. Total storage volume shall be thirty-seven thousand (37,000) gallons.

1.C.2. Loading Conditions

- 1.C.2.1. The tank shall be installed with a total backfill over the tank of five (5) ft.
- 1.C.2.2. The tank shall be design to handle pedestrian or H-20 axle loads (32,000 lbs. / axle), depending on finish cap at grade.
- 1.C.2.3. Tank risers and lids shall be designed for a maximum of 2500 # wheel load limits in common areas to accommodate mowing and maintenance equipment.
- 1.C.2.4. All tank penetrations shall be 100% water tight and installed by the manufacturer, no field inlet assembly allowed.

1.C.3. Product Storage

- 1.C.3.1. Tanks shall be designed for atmospheric pressure only.
- 1.C.3.2. Tanks shall be designed to store Fire Protection Water with a specific gravity up to 1.1.
- 1.C.3.3. Tanks shall be designed to operate at ambient temperatures.

1.C.4. Testing

1.C.4.1. The tank shall be designed to be water tight and testable to 5 psi for 6', 8', and 10' diameter tanks, 3 psi for 12' diameter tanks, with a 5:1 safety factor.

1.C.5. Accessories

222152.03

1.C.5.1. PVC Pipe Stubs

- 1.C.5.1.1. PVC Pipe Stubs shall be Sch. 40 designed for drain, waste, or vent (DWV)
- 1.C.5.1.2. PVC Pipe Stubs shall be utilized for inlets up to 10", locations at tank top dead center or inlet hubs < 1/3 of tanks sidewall height.

1.C.5.2. FRP Pipe Stubs

- 1.C.5.2.1. FRP Pipe Stubs shall be a minimum of ¹/₄" wall thickness, 4" thru 48".
- 1.C.5.2.2. FRP Pipe Stubs may be located at any location on the tank shell.

1.C.5.3. FRP Flanged Nozzles

- 1.C.5.3.1. Flanged nozzles shall be 2" thru 24" in size.
- 1.C.5.3.2. Cone or plate gussets shall be utilized on flanges over 4" for structural strength.
- 1.C.5.3.3. FRP Flanges shall be flat faced utilizing ANSI B 165, 150# bolt patterns.
- 1.C.5.3.4. Flanges shall be designed for atmospheric pressure only.

1.C.5.4. FRP Threaded Fittings

1.C.5.4.1. Threaded fittings shall be located on the tanks top dead center or on manway covers only.

1.C.5.5. Flexible Connectors

- 1.C.5.5.1. Flexible connectors should be utilized for all inlet or outlet connections that penetrate the tank on a horizontal plane. Top dead center fittings extended vertically to finish grade are not required to provide flexible connectors.
- 1.C.5.5.2. Flexible connectors should be designed to provide vertical movement to accommodate settlement.
- 1.C.5.5.3. Flexible connectors shall be designed for withstand needed soil burial depths.

1.C.5.6. FRP Riser Lids

- 1.C.5.6.1. FRP lids 24", 30", 36", 42", or 48" shall be of an FRP composite material with 316 S.S. bolts and latches.
- 1.C.5.6.2. FRP lids shall have a gasket connection that fits either a flat face flange or the riser pipe plain end connection.
- 1.C.5.6.3. FRP lids shall utilize a textured finish with UV inhibitors at finish grade.
- 1.C.5.6.4. FRP lids shall be rated for 300 # pedestrian rating for use in common areas where needed.
- 1.C.5.6.5. FRP lids shall be rated for 2500 # occasional wheel load for use in common areas where light wheel traffic will be required.
- 1.C.5.6.6. When utilizing FRP riser lids with C.I. manhole ring and lids, construction techniques should be utilized to isolate the wheel load from the FRP riser.

1.C.5.7. Hinged & Lockable Covers

1.C.5.7.1. Hinged and lockable covers shall be 100% FRP laminate in construction. Covers shall be hinged for easy inspection, and sealed with a water tight gasket to keep out dirt, groundwater, or insects.

1.C.5.8. FRP Risers

- 1.C.5.8.1. FRP risers 24", 30", 36", 42" or 48" may be either a flanged connection or plain end to fit tank access openings or FRP riser lids.
- 1.C.5.8.2. FRP risers will be a minimum of 1/4" wall thickness with a gelcoat finish when projected above finish grade.
- 1.C.5.8.3. FRP risers will utilize a structural adhesive or an FRP bonding kit, when bonding to a FRP tank access collar.
- 1.C.5.8.4. FRP riser to tank joints shall be tested for a water tight connection utilizing a water test by filling the tank full, up to and 24" above the tank to riser connection. Mark water level and let stand for 24 hours, with < 1" of change in water level.

1.C.5.9. PVC Risers

- 1.C.5.9.1. PVC risers 24" or 30" shall be made of a PVC profile construction, cut to length and bonded to tank access opening collars with a structural adhesive.
- 1.C.5.9.2. PVC riser to tank joints shall be tested for a water tight connection utilizing a water test by filling the tank full, up to and 24" above the tank to riser connection. Mark water level and let stand for 24 hours, with < 1" of change in water level.
- 1.C.5.9.3. For riser lengths over 3' tall, a grade ring insert (GRI) shall be utilized to insure a proper deal is obtained at the tank access opening to riser connection.

1.C.5.10. Tank Access Openings

- 1.C.5.10.1. Tank access openings shall be 36" in size.
- 1.C.5.10.2. Tank access openings shall utilize an FRP collar that is $\frac{1}{2}$ " less than the riser I.D.
- 1.C.5.10.3. Tank access collars shall be a minimum of 3" tall.

1.C.5.11. FRP Manways

- 1.C.5.11.1. FRP Manways shall provide a 30" I.D. opening and come complete with 304 S.S. bolts, nuts, and neoprene flat face gaskets.
- 1.C.5.11.2. When utilizing FRP manways with C.I. manhole ring and lids, construction techniques should be utilized to isolate the wheel load from the FRP riser.

1.C.5.12. Manway Extensions

- 1.C.5.12.1. FRP Manways shall provide a 30" I.D. opening and come complete with 304 S.S. bolts, nuts, and neoprene flat face gaskets. Manways shall provide lengths needed to extend 12" above grade for easy assembly of covers to top manway connection.
- 1.C.5.12.2. Manway extensions shall be gel-coated 12" at finish grade.

1.C.5.13. Manhole Rings & Covers

1.C.5.13.1. Manhole ring and cover shall be a composite type. Manhole ring & cover shall be rated for H25 loads and shall include a 10" bury skirt to protect the manway access cover. Manholes shall have a minimum of a 39" diameter for manhole access, and 12" for fittings plumbed to near grade.

1.C.5.14. Tank Anchor Geocomposite Deadman System

1.C.5.15. **Precast Deadman System**

- 1.C.5.15.1. Precast deadmen shall be provided by the tank manufacturer and shall meet the following design criteria.
 - 1.C.5.15.1.1. Manufactured with a reinforced concrete design with a minimum of a 4000 psi concrete.
 - 1.C.5.15.1.2. Provide adjustable anchor points for hold down straps.
 - 1.C.5.15.1.3. Provide multiple lengths to provide a full length anchor to any sized tank, 6', 8', 10, or 12' in diameter.

1.C.5.16. Deadman Anchor Straps

- 1.C.5.16.1. Anchor straps shall be supplied by the tank manufacturer, and be composed of a pultruded fiberglass strap with engineered D-Rings for connection to turnbuckles.
- 1.C.5.16.2. Each anchor strap shall be rated for a maximum load of 25,000 lbs.
- 1.C.5.16.3. The qty. and location of the straps shall be noted by the tank manufacturer on the tank drawing.

1.C.5.17. Turnbuckles

- 1.C.5.17.1. Turnbuckles shall be provided by the tank manufacturer.
- 1.C.5.17.2. Turnbuckles shall be a Class 7 forged type, meeting performance requirements of Federal Specification F1145 Type 1, Form1 and ASTM FF-T-791B.
- 1.C.5.17.3. Design loads for turnbuckles shall be based on a design factor of 5:1

1.C.6. Execution

- 1.C.6.1. Single wall fiberglass tanks shall be installed and tested in the methods established in the manufacturer's installation guide and checklist.
- 1.C.6.2. Tanks shall only store the products listed in the appropriate warranty and for which the tank is specified.
- 1.C.6.3. Failure to follow the installation guide will terminate the manufacturer's warranty.

1.C.7. Warranty 1.C.7.1. W

1.C.7.1. Warranty shall be the limited 1 year warranty in effect at the time of delivery, as provided by Fiberglass Tank Solutions, LLC. Or Xerxes.

END OF SECTION 21 41 00

PART 1 - GENERAL

- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Submersible sewage grinder pumps.
 - 2. Sewage-pump basins and basin covers.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings:
 - 1. Include plans, elevations, sections, and attachment details.
 - 2. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 3. Vibration Isolation Base Details: Detail fabrication including anchorages and attachments to structure and to supported equipment. Include adjustable motor bases, rails, and frames for equipment mounting.
 - 4. Include diagrams for power, signal, and control wiring.
- 1.3 CLOSEOUT SUBMITTALS
 - A. Operation and maintenance data.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. UL Compliance: Comply with UL 778 for motor-operated water pumps.
- C. Submersible, Quick-Disconnect, Single-Seal Sewage Grinder Pumps :
 - 1. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:
 - a. <u>Pentair Aurora; Pentair Pump Group</u>.
 - b. <u>Weil Pump; a Wilo Company</u>.
 - c. <u>Zoeller Company</u>.
 - 2. Description: Factory-assembled and -tested sewage-pump unit with guide-rail supports.
 - 3. Pump Type: Submersible, end-suction, single-stage, close-coupled, overhung-impeller, centrifugal sewage pump as defined in HI 1.1-1.2 and HI 1.3.
 - 4. Pump Casing: Cast iron, with open inlet, and discharge fittings for connection to guide-rail support.
 - 5. Impeller: Statically and dynamically balanced, nonclog, open, or semi open design for solids handling, and keyed and secured to shaft.

- 6. Pump and Motor Shaft: Stainless steel, with factory-sealed, grease-lubricated ball bearings.
- 7. Seal: Mechanical.
- 8. Motor: Hermetically sealed, capacitor-start type; with built-in overload protection; lifting eye or lug; and three-conductor, waterproof power cable of length required and with grounding plug and cable-sealing assembly for connection at pump.
- 9. Controls, Float- and Pressure-Switch Type:
 - a. Enclosure: NEMA 250, 3R; wall mounted.
 - b. Switch Type: Mercury-float type, in NEMA 250, Type 6 enclosures with mounting rod and electric cables.
 - c. Automatic Alternator: Start pumps on successive cycles and start multiple pumps if one cannot handle load.
 - d. High-Water Alarm: Rod-mounted, NEMA 250, Type 6 enclosure with mercury-float switch matching control and electric bell; 120 V ac, with transformer and contacts for remote alarm bell.
- 10. Control-Interface Features:
 - a. Remote Alarm Contacts: For remote alarm interface.
 - b. Building Automation System Interface: Auxiliary contacts in pump controls for interface to building automation system and capable of providing the following:
 - 1) On-off status of pump.
 - 2) Alarm status.
- 11. Guide-Rail Supports:
 - a. Standard: SWPA's "Submersible Sewage Pumping Systems (SWPA) Handbook."
 - b. Guide Rails: Vertical pipes or structural members, made of galvanized steel or other corrosion-resistant metal, attached to baseplate and basin sidewall or cover.
 - c. Baseplate: Corrosion-resistant metal plate, attached to basin floor, supporting guide rails and stationary elbow.
 - d. Pump Yoke: Motor- or casing-mounted yokes or other attachments for aligning pump during connection of flanges.
 - e. Movable Elbow: Pump discharge-elbow fitting with flange, seal, and positioning device.
 - f. Stationary Elbow: Fixed discharge-elbow fitting with flange that mates to movableelbow flange and support attached to baseplate.
 - g. Lifting Cable: Stainless steel; attached to pump and cover at manhole.

2.2 SEWAGE-PUMP BASINS AND BASIN COVERS

- A. Basins: Factory-fabricated, watertight, cylindrical, basin sump with top flange and sidewall openings for pipe connections.
 - 1. Material: Fiberglass.
 - 2. Reinforcement: Mounting plates for pumps, fittings, guide-rail supports if used, and accessories.
 - 3. Anchor Flange: Same material as or compatible with basin sump, cast in or attached to sump, in location and of size required to anchor basin in concrete slab.
- B. Basin Covers: Fabricate metal cover with openings having gaskets, seals, and bushings; for access to pumps, pump shafts, control rods, discharge piping, vent connections, and power cables.
 - 1. Reinforcement: Steel or cast iron, capable of supporting foot traffic for basins installed in foot-traffic areas.

2.3 MOTORS

- A. Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors specified in Section 22 05 00 "Common Work Results for Plumbing."
 - 1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
- B. Motors for submersible grinder pumps shall be hermetically sealed.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Wiring Method: Comply with requirements in Section 26 05 19 "Low-Voltage Electrical Power Conductors and Cables."
- B. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools.

3.2 CONNECTIONS

- A. Comply with requirements for piping specified in Section 22 13 16 "Sanitary Waste and Vent Piping." Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Where installing piping adjacent to equipment, allow space for service and maintenance.

3.3 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
 - 1. Perform each visual and mechanical inspection.
 - 2. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - 3. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- B. Pumps and controls will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports.

END OF SECTION 22 13 29

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

YD

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS,			
@	AT		
AC	AIR CONDITIONING		
ACT	ACOUSTICAL CEILING TILE		
AD	AREA DRAIN		
ADJ	ADJUSTABLE		
AFF	ABOVE FINISHED FLOOR		
AFP	ACCORDION FOLDING PARTITION		
AGG	AGGREGATE		
AGG ALT AL	ALTERNATIVE ALUMINUM		
AP	ACCESS PANEL		
APROX	APPROXIMATE		
AR	ACID RESISTANT		
ARCH	ARCHITECT(URAL)		
ASPH	ASPHALT		
AV	AUDIO-VISUAL		
AWG	AMERICAN WIRE GUAGE		
AWT	ACCOUSTICAL WALL TREATMENT		
L	ANGLE		
&	AND		
BIT	BITUMINOUS		
BLDG	BUILDING		
BLKG	BLOCKING		
BM	BENCH MARK / BEAM		
B.O.	BOTTOM OF		
BOS	BOTTOM OF STEEL		
BOT	BOTTOM		
BRG	BEARING		
BRK	BRICK		
BUR	BUILT-UP ROOF		
CAB	CABINET		
CAR	CARPET		
CAT	CATALOG		
CB	CHALKBOARD / CATCH BASIN		
CFM	CUBIC FEET PER MINUTE		
CH	CABINET HEATER		
CI	CAST IRON		
CJ	CONTROL JOINT		
CL	CENTERLINE		
CLR	CLEAR		
CLG	CEILING		
CMP	CORRUGATED METAL PIPE		
CMT	CERAMIC MOSAIC TILE		
CMU	CONCRETE MASONRY UNIT		
CO	CLEANOUT		
COL	COLUMN		
COMP	COMPACTED		
CONC	CONCRETE		
CONSTR	CONSTRUCTION		
CONT	CONTINUOUS/CONTINUE		
CONTR	CONTRACTOR		
CORR	CORRUGATED		
CT	CERAMIC TILE		
C TO C	CENTER TO CENTER		
CSK	COUNTER SINK		
CU FT/CF	CUBIC FEET		
CU IN/CI	CUBIC INCH		
CU YD/CY	CUBIC YARD		
CUSP	CUSPIDOR		
CW	COLD WATER		
CWF	CEMENTITIOUS WOOD FIBER		
d	PENNY (NAILS, ETC.)		
D	DEPTH/DEEP		
。	DEGREE		
DC	DISPLAY CASE		
DEPT DET	DEPT DETAIL DRINKING FOUNTAIN		
DF	DRINKING FOUNTAIN		
DIA/ Ø	DIAMETER		
DIM	DIMENSION		
DIV	DIVISION		
DL	DEAD LOAD		
DWG	DRAWING		
DS	DOWNSPOUT		
DWC	DRINKING WATER COOLER		
E	EAST		
EA	EACH		
EF	EACH FACE		
EJ	EXPANSION JOINT		
EL	ELEVATION		
ELEC	ELECTRIC(AL)		
ELEV	ELEVATOR		
ENGR	ENGINEER ELECTRICAL PANELBOARD		
EQ	EQUAL		
EQUIP	EQUIPMENT		
	EACH WAY DIRECT APPLIED EXTERIOR FINISH SYSTEM		
EIFS	EXTERIOR INSULATION FINISH SYSTEM		
EXH	EXHAUST		
EXIST	EXISTING		
EXP	EXPANSION		
EXT	EXTERIOR		
EXTN	EXTENSION		
FD	FLOOR DRAIN		
FHC	FIRE HOSE CABINET		
FIN	FINISH		
FIN FL	FINISH FLOOR		
FLR FDN			
FSR	FLEXIBLE SHEET ROOFING		
FSSK	FLOOR SERVICE SINK		
FT	FEET		
FTG	FOOTING		
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET		
GA	GAUGE		
GALV	GALVANIZED(D)		
GB	GRAB BAR		
GFCMU	GROUND FACE CONCRETE MASONRY UNIT		
GFRGU	GLASS FIBER REINFORCED GYPSUM UNIT		
GL	GLASS		
GWB	GYPSUM WALLBOARD		
Н	HEIGHT/HIGH		
HB	HOSE BIB		
HDWE	HARDWARE		
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		
HPT	HIGH POINT		
HS	HIGH STRENGTH		
HTG	HEATING		
HVAC	HEATING/VENTILATING/AIR CONDITIONING		
HW	HOT WATER		
HWY	HIGHWAY		
ID	INSIDE DIAMETER		
IN	INCH		
INCL	INCLUDE(D), (ING)		
INFO	INFORMATION		
INSUL	INSULATION		
INTR	INTERIOR		
INV	INVERT		
JS	JOIST SUBSTITUTE		
JST	JOIST		
JT	JOINT		
KIT	KITCHEN		
L	LENGTH		
LAM	LAMINATE(D)		
LAV	LAVATORY		
LB/#	POUND		
LB/# LKR LL	LOCKER LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LVR LW	LOUVER		
	LONG WAY		

	BREVIATIONS
M	METER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MOP HOLDER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MO	MASONRY OPENING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO/#	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
O.H.	OPPOSITE HAND
O TO O	OUT TO OUT
OW	OPERABLE WALL
OZ	OUNCE
P	PAINT
PA	PUBLIC ADDRESS
PERF	PERFORATED
PLAS	PLASTIC
PL	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PS	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSS	PENCIL SHARPENER SUPPORT
PT	PORCELAIN TILA
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RAD/R	RADIUS
RB	RESILIENT BASE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISION(S)
RM	ROOM
R.O.	ROUGH OPENING
ROW	RIGHT-OF-WAY
S SA SAN SCHED SD SECT SEW SGFT SHT SIM SP SPEC(S) SPKR SQ SQ FT/SF SQ IN/SI SQ YD/SY SS ST STD STL STD STL STRUCT SUSP SW SYMM SYNTH	SOUTH SUPPLY AIR SANITARY SCHEDULE STORM DRAIN / SMOKE DETECTOR SECTION SEWER STRUCTURAL GLAZED FACING TILE SHEET SIMILAR SPACE SPECIFICATION(S) SPEAKER SQUARE SQUARE FEET SQUARE INCHES SQUARE INCHES SQUARE YARDS STAINLESS STEEL STORM/STREET STANDARD STEEL STRUCTURAL SUSPENDED SHORT WAY / SIDEWALK SYMMETRY(ICAL) SYNTHETIC
T T&B T&G TA TB TC TEL TERR T.O. TOC TOF TOM TOS TV TYP TWS	TREAD TOP AND BOTTOM TONGUE AND GROOVE TOILET ACCESSORY(IES) TACKBOARD TOP OF CURB TELEPHONE TERRAZZO TOP OF TOP OF CONCRETE TOP OF FOOTING TOP OF FOOTING TOP OF MASONRY TOP OF STEEL TELEVISION TYPICAL TACKABLE WALL SURFACE
UNO UV UR VCT VCGWB VERT VFWC VIF VIF VIT VOL VR VRB VS	UNLESS NOTED OTHERWISE UNIT VENTILATOR URINAL VINYL COMPOSITE TILE VINYL COVERED GYPSUM WALLBOARD VERTICAL VINYL FABRIC WALLCOVERING VERIFY IN FIELD VITREOUS VOLUME VAPOR RETARDER VENTED RESILIENT BASE VENT STACK
VT W W/O WA WB WC WD WH WP WSSK WWF	VINYL STACK WEST / WIDE / WIDTH WITH WITHOUT WARDROBE ACCESSORIES WOOD BASE WATER CLOSET / WIND COLUMN WOOD WATER HEATER WORKING POINT WALL SERVICE SINK WELDED WIRE FABRIC

YARD / YARD DRAIN

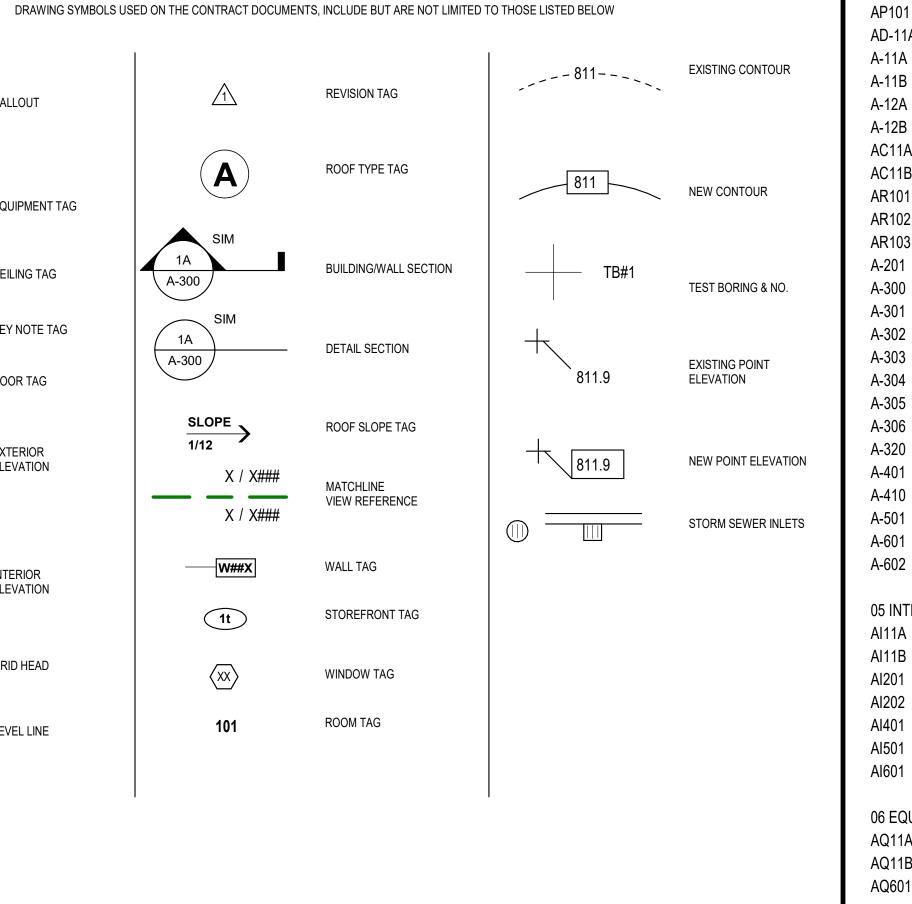
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MATERIAL SYMBOLS LEGEND MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

ASPHALT		
EARTH	—X—X—	WIRE FENCE OR PARTITION
GRAVEL, STONE, OR DRAINAGE FILL		METAL ROOF DECK
SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK		LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
CONCRETE		BATT INSULATION
TERRAZZO		RIGID INSULATION
CUT STONE		ROUGH WOOD
MARBLE		FINISH WOOD
SLATE		WOOD OTHER THAN NOMINAL
FACE BRICK (PLAN)		PLYWOOD
GLAZED BRICK	<u></u>	GYPSUM WALLBOARD (LARGE SCALE)
CONCRETE MASONRY UNIT (PLAN)		STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
CONCRETE MASONRY UNIT (SECTION)		SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
		FABRIC ACCORDION FOLDING PARTITION
CONCRETE MASONRY UNIT (SOLID, IN SECTION)	L	ACOUSTICAL TILE CEILING
		EXTERIROR INSULATION FINISH SYSTEM

DRAWING SYMBOLS LEGEND

SPRAY-ON INSULATION OR FIRE PROTECTION



<u>SHEET INDEX</u>			
VOLUME A	VOLUME B		
VOLUME A COVER SHEET COVER SHEET COVERSUMER FRAM COVER SHEET COVERSUMER FRAM COVER SHEET READING BERNOLTRON PLAN COVER SHEET RAW REPORTED COVER SHEET RAW REPORTED <td< th=""><th></th></td<>			
 A-306 WALL SECTIONS A-320 SECTION DETAILS A-401 ENLARGED TOILET ROOM PLANS A-410 PLAN DETAILS A-501 TYPICAL DETAILS A-601 DOOR AND FRAME SCHEDULE 			

<u>SHEET INDEX</u>			
VOLUME A	VOLUME B		
VOLUME A COVER ABBREVIATIONS AND INDEX 01 CIVIL C0.0 COVER SHEET C0.1 GENERAL NOTES C1.0 EXISTING CONDITIONS & DEMOLITION PLAN C2.0 SITE IMPROVEMENTS PLAN C3.0 PRE CONSTRUCTION EROSION CONTROL PLAN C3.1 POST CONSTRUCTION EROSION CONTROL PLAN C3.0 UTLITY PLAN C6.0 STORM SEWER PLAN & PROFILE C7.0 STORMWATER POLLUTION PREVENTION NOTES C7.1 STORMWATER POLLUTION PREVENTION NOTES C7.1 STORMWATER POLLUTION PREVENTION NOTES C7.1 STORMWATER POLLUTION PREVENTION DETAILS C8.1 CONSTRUCTION DETAILS C4.1 CONSTRUCTION DETAILS C4.1 CONSTRUCTION DETAILS C4.1 CONSTRUCTION PLAN - UNIT A S-101 FOUNDATION PLAN - UNIT A S-102 FOUNDATION PLAN - UNIT A S-103 SLAB AND MASONRY PLAN - UNIT A S-104 SLAB AND MASONRY PLAN - UNIT A S-105 FOUNDATION PLAN - UNIT A S-104 SLAB AND MASONRY PLAN - UNIT A <t< td=""><td></td></t<>			
S-301FOUNDATION DETAILSS-302FOUNDATION DETAILSS-303FOUNDATION AND SLAB DETAILSS-304SLAB DETAILSS-305SECTIONS AND DETAILSS-306SECTIONS AND DETAILSS-401MASONRY DETAILSS-402MASONRY DETAILSS-403MASONRY LINTELSS-501FRAMING DETAILSS-502FRAMING DETAILSS-503SECTIONS AND DETAILSS-602FRAMING DETAILSS-503SECTIONS AND DETAILSS-504FICST FLOOR CODE PLANAD-11ADEMOLITION PLANSA-11AFIRST FLOOR ARCHITECTURE PLAN - UNIT AA-11BFIRST FLOOR ARCHITECTURE PLAN - UNIT AA-12BUPPER LEVEL ARCHITECTURE PLAN - UNIT AA-12BUPPER LEVEL ARCHITECTURE PLAN - UNIT AA-11AFIRST FLOOR REFLECTED CEILING PLAN - UNIT AAC11BFIRST FLOOR REFLECTED CEILING PLAN - UNIT AAC11BFIRST FLOOR REFLECTED CEILING PLAN - UNIT AAC11BROOF PLANAR101ROOF PLANAR102ROOF DETAILSAC113FIRST FLOOR REFLECTED CEILING PLAN - UNIT BAR103ROOF DETAILSAC201BUILDING ELEVATIONS	M-702 TEMPERATURE CONTROLS SCHEMATICS 09 ELECTRICAL E-001 ELECTRICAL SYMBOLS AND ABBREVIATIONS ES101 ELECTRICAL DEMOLITION SITE PLAN ES102 ELECTRICAL SITE PLAN E101 PARTIAL ELECTRICAL FIRST FLOOR PLAN E101 PARTIAL ELECTRICAL SITE PLAN E101 PARTIAL ELECTRICAL FIRST FLOOR PLAN E101 LIGHTING FIRST FLOOR PLAN - UNIT A E102 LIGHTING FIRST FLOOR PLAN - UNIT B EP101 POWER AND SYSTEMS FIRST FLOOR PLAN - UNIT A EP102 POWER AND SYSTEMS FIRST FLOOR PLAN - UNIT A E901 ELECTRICAL DETAILS E-502 ELECTRICAL DETAILS E-601 SCHEDULES AND SCHEMATICS E-602 RISER DIAGRAM AND PANELBOARD SCHEDULES 10 TECHNOLOGY T-000 T-000 SYMBOLS AND ABBREVIATIONS TD-11A FIRST FLOOR DEMOLITION PLAN T-11A FIRST FLOOR TECHNOLOGY PLAN - UNIT A T-11A FIRST FLOOR TECHNOLOGY PLAN - UNIT A T-11B FIRST FLOOR TECHNOLOGY PLAN - UNIT A T-11B FIRST FLOOR TECHNOLOGY PLAN - UNIT A T-401 ENLARGED TECHNOLOGY PLAN - UNIT A		
A 300 WALL TYPES AND DETAILS A 301 BUILDING SECTIONS A 302 WALL SECTIONS A 303 WALL SECTIONS A 304 WALL SECTIONS A 305 WALL SECTIONS A 306 WALL SECTIONS A 306 WALL SECTIONS A 300 EXTRACTIONS A 300 SECTION DETAILS A 401 ENLARGED TOILET ROOM PLANS A 401 ENLARGED TOILET ROOM PLANS A 401 PLAN DETAILS A 401 DOOR AND FRAME SCHEDULE A 602 FRAME DETAILS A 601 DOOR AND FRAME SCHEDULE A 602 FRAME DETAILS O5 INTERIORS A 111A UNIT A - FIRST FLOOR FINISH PLAN A 111B UNIT B - FIRST FLOOR FINISH PLAN A 1201 INTERIOR ELEVATIONS A 1202 INTERIOR ELEVATIONS A 1202 INTERIOR ELEVATIONS A 1201 INTERIOR ELEVATIONS A 1201 COURT LINES & GRAPHIC DETAILS O6 EQUIPMENT A 011A UNIT A - FIRST FLOOR EQUIPMENT PLAN A 11B UNIT B - FIRST FLOOR EQUIPMENT PLAN A 1201 LIST OF FINISHES & BASE DETAILS O6 EQUIPMENT A 011A UNIT A - FIRST FLOOR EQUIPMENT PLAN A 11B UNIT B - FIRST FLOOR EQUIPMENT PLAN A 201 EQUIPMENT LIST OF FINISHES & EQUIPMENT DETAILS	T-503 TECHNOLOGY DETAILS		

SHEET INDEX



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YD

ABBREV	IATIONS USED ON THE CONTRACT DOCUMENTS,
@	AT
AC	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFP	ACCORDION FOLDING PARTITION
AGG	AGGREGATE
AGG ALT AL	ALTERNATIVE ALUMINUM
AP	ACCESS PANEL
APROX	APPROXIMATE
AR	ACID RESISTANT
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AV	AUDIO-VISUAL
AWG	AMERICAN WIRE GUAGE
AWT	ACCOUSTICAL WALL TREATMENT
L	ANGLE
&	AND
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCH MARK / BEAM
B.O.	BOTTOM OF
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BUR	BUILT-UP ROOF
CAB	CABINET
CAR	CARPET
CAT	CATALOG
CB	CHALKBOARD / CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CLG	CEILING
CMP	CORRUGATED METAL PIPE
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPACTED
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS/CONTINUE
CONTR	CONTRACTOR
CORR	CORRUGATED
CT	CERAMIC TILE
C TO C	CENTER TO CENTER
CSK	COUNTER SINK
CU FT/CF	CUBIC FEET
CU IN/CI	CUBIC INCH
CU YD/CY	CUBIC YARD
CUSP	CUSPIDOR
CW	COLD WATER
CWF	CEMENTITIOUS WOOD FIBER
d	PENNY (NAILS, ETC.)
D	DEPTH/DEEP
。	DEGREE
DC	DISPLAY CASE
DEPT DET	DEPT DETAIL DRINKING FOUNTAIN
DF	DRINKING FOUNTAIN
DIA/ Ø	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DWG	DRAWING
DS	DOWNSPOUT
DWC	DRINKING WATER COOLER
E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENGR	ENGINEER ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
	EACH WAY DIRECT APPLIED EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTN	EXTENSION
FD	FLOOR DRAIN
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN FL	FINISH FLOOR
FLR FDN	
FSR	FLEXIBLE SHEET ROOFING
FSSK	FLOOR SERVICE SINK
FT	FEET
FTG	FOOTING
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
GA	GAUGE
GALV	GALVANIZED(D)
GB	GRAB BAR
GFCMU	GROUND FACE CONCRETE MASONRY UNIT
GFRGU	GLASS FIBER REINFORCED GYPSUM UNIT
GL	GLASS
GWB	GYPSUM WALLBOARD
Н	HEIGHT/HIGH
HB	HOSE BIB
HDWE	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HS	HIGH STRENGTH
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HW	HOT WATER
HWY	HIGHWAY
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE(D), (ING)
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
JS	JOIST SUBSTITUTE
JST	JOIST
JT	JOINT
KIT	KITCHEN
L	LENGTH
LAM	LAMINATE(D)
LAV	LAVATORY
LB/#	POUND
LB/# LKR LL	LOCKER LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVR LW	LOUVER
	LONG WAY

	REVIATIONS NOT LIMITED TO THOSE LISTED BELOW
M	METER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MOP HOLDER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MO	MASONRY OPENING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO/#	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
O.H.	OPPOSITE HAND
O TO O	OUT TO OUT
OW	OPERABLE WALL
OZ	OUNCE
P	PAINT
PA	PUBLIC ADDRESS
PERF	PERFORATED
PLAS	PLASTIC
PL	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PS	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSS	PENCIL SHARPENER SUPPORT
PT	PORCELAIN TILA
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RAD/R	RADIUS
RB	RESILIENT BASE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISION(S)
RM	ROOM
R.O.	ROUGH OPENING
ROW	RIGHT-OF-WAY
S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SCHED	SCHEDULE
SD	STORM DRAIN / SMOKE DETECTOR
SECT	SECTION
SEW	SEWER
SGFT	STRUCTURAL GLAZED FACING TILE
SHT	SHEET
SIM	SIMILAR
SP	SPACE
SPEC(S)	SPECIFICATION(S)
SPKR	SPEAKER
SQ	SQUARE
SQ FT/SF	SQUARE
SQ IN/SI	SQUARE FEET
SQ YD/SY	SQUARE FEET
SS	SQUARE INCHES
ST	SQUARE YARDS
STD	STAINLESS STEEL
STL	STORM/STREET
STL	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SW	SHORT WAY / SIDEWALK
SYMM	SYMMETRY(ICAL)
SYNTH	SYNTHETIC
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TA	TOILET ACCESSORY(IES)
TB	TACKBOARD
TC	TOP OF CURB
TEL	TELEPHONE
TERR	TERRAZZO
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
TWS	TACKABLE WALL SURFACE
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
UR	URINAL
VCT	VINYL COMPOSITE TILE
VCGWB	VINYL COVERED GYPSUM WALLBOARD
VERT	VERTICAL
VFWC	VINYL FABRIC WALLCOVERING
VFWC VIF VIT VOL VR VRB VS VT	VERIFY IN FIELD VITREOUS VOLUME VAPOR RETARDER VENTED RESILIENT BASE VENT STACK VINYL STACK
W W/O WA WB WC WD WH WP WSSK WWF	WEST / WIDE / WIDTH WITH WITHOUT WARDROBE ACCESSORIES WOOD BASE WATER CLOSET / WIND COLUMN WOOD WATER HEATER WORKING POINT WALL SERVICE SINK WELDED WIRE FABRIC

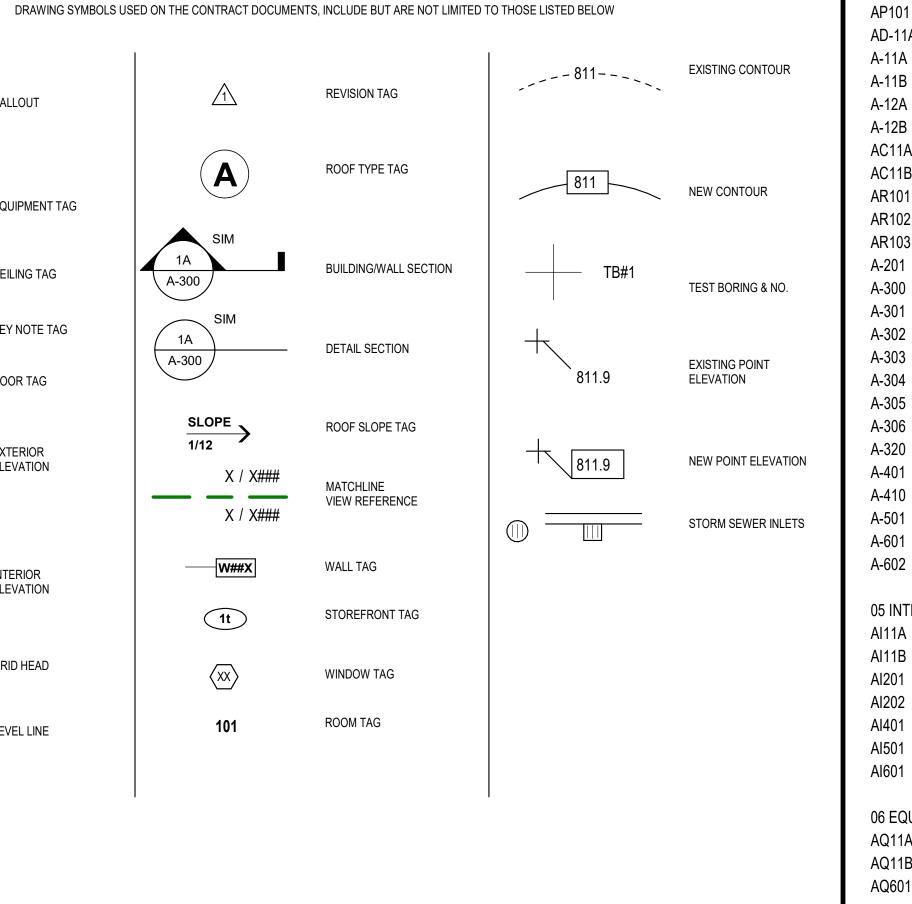
YARD / YARD DRAIN

		ASPHALT	
		EARTH	
	0.300.300.20 00.000000000000000000000000	GRAVEL, STONE, OR	R DRAINAGE FILL
		SAND, GROUT, PLAS OF SIDEWALK	TER, GWB, OR PLAN VIEW
		CONCRETE	
		TERRAZZO	
		CUT STONE	
	547	MARBLE	
		SLATE	
		FACE BRICK (PLAN)	
		GLAZED BRICK	
		CONCRETE MASONF	RY UNIT (PLAN)
		CONCRETE MASONF	RY UNIT (SECTION)
		CONCRETE MASONF (SOLID, IN SECTION)	
		SPRAY-ON INSULATI	ON OR FIRE PROTECTION
1	DF		DRAWING S ED ON THE CONTRACT DOC
1A A-400	CALLO	JT	
	EQUIPI	MENT TAG	
X1	CEILIN		1A SIM
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			(1A) (A-300)
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X	GRID H	EAD	
<u>Name</u> Name EL XXX'-XX"		LINE	101

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

ASPHALT		
EARTH	—X—X—	WIRE FENCE OR PARTITION
GRAVEL, STONE, OR DRAINAGE FILL		METAL ROOF DECK
SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK		LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
CONCRETE		BATT INSULATION
TERRAZZO		RIGID INSULATION
CUT STONE		ROUGH WOOD
MARBLE		FINISH WOOD
SLATE		WOOD OTHER THAN NOMINAL
FACE BRICK (PLAN)		PLYWOOD
GLAZED BRICK	<u></u>	GYPSUM WALLBOARD (LARGE SCALE)
CONCRETE MASONRY UNIT (PLAN)		STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
CONCRETE MASONRY UNIT (SECTION)		SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
		FABRIC ACCORDION FOLDING PARTITION
CONCRETE MASONRY UNIT (SOLID, IN SECTION)	L	ACOUSTICAL TILE CEILING
		EXTERIROR INSULATION FINISH SYSTEM

DRAWING SYMBOLS LEGEND

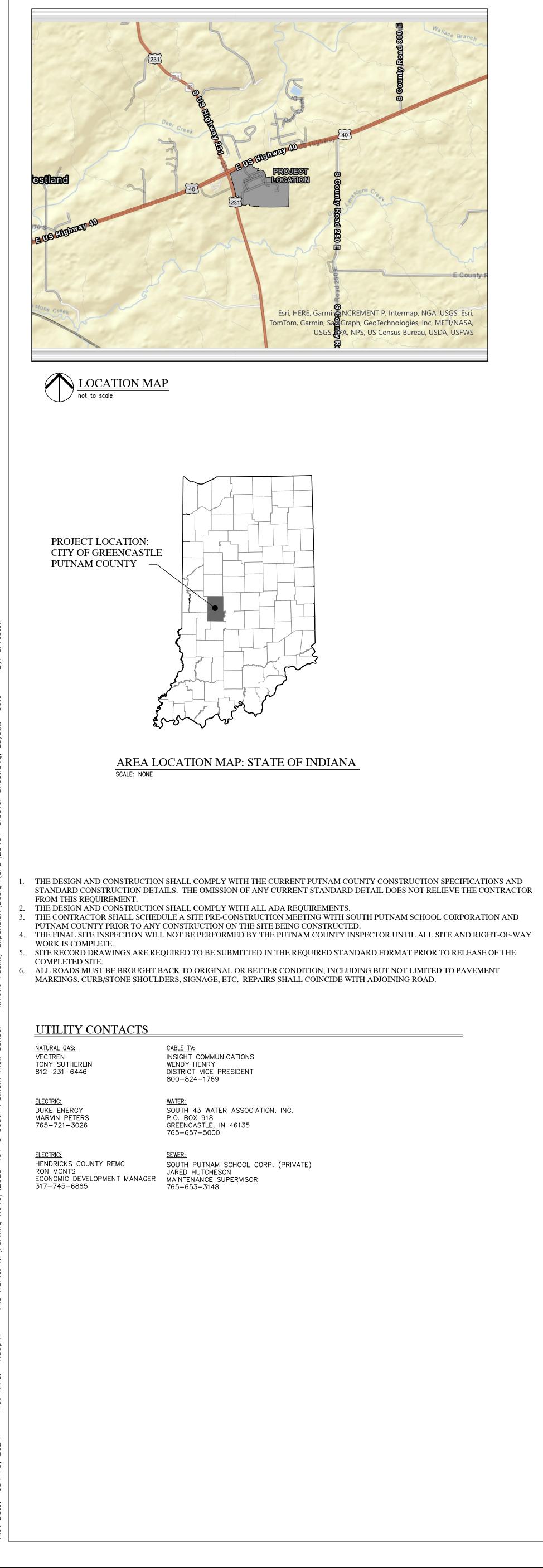


SHEET	INDEX
VOLUME A	VOLUME B
VOLUME A COVER ABBREVITIONS AND INDEX COVER COVER ABBREVITIONS AND INDEX COVER COVER ABBREVITIONS AND INDEX COVER COVER STELEPROVENTISTICS COVER SHEET COVER COVER SHEET COVER	VOLUME B OVER abbreviations submitted by the second state of the second state second state second state of the second state of the second state
 A-410 PLAN DETAILS A-501 TYPICAL DETAILS A-601 DOOR AND FRAME SCHEDULE A-602 FRAME DETAILS 	

	SHEET	INDEX	
	VOLUME A		VOLUME B
C0.1GENERC1.0EXISTINC2.0SITE IMC3.0PRE CCC3.1POST C	INDEX R SHEET RAL NOTES NG CONDITIONS & DEMOLITION PLAN MPROVEMENTS PLAN ONSTRUCTION EROSION CONTROL PLAN CONSTRUCTION EROSION CONTROL PLAN NG & DRAINAGE PLAN	COVER ABBREVIATIO 07 PLUMBING P-001 PS100 PD101 FP101 PF101 PF102 PP101	PLUMBING SYMBOLS AND ABBREVIATIONS PLUMBING SITE PLAN PLUMBING NEW AND DEMOLITION FIRST FLOOR PLANS - EXISTING BUILDING OVERALL FIRE PROTECTION PLAN PLUMBING FOUNDATION PLAN - UNIT A PLUMBING FOUNDATION PLAN - UNIT B PLUMBING FIRST FLOOR PLAN - UNIT A
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02 LANDSCAPE L1.00 SITE LA 03 STRUCTURAL S-001 GENER S-101 FOUND S-102 FOUND S-103 SLAB A S-201 ROOF F S-301 FOUND S-302 FOUND S-303 FOUND S-304 SLAB D S-305 SECTIC S-306 SECTIC S-307 MASON S-401 MASON S-402 MASON S-501 FRAMIN S-502 FRAMIN S-503 SECTIC O4 ARCHITECTURAL AP101 AP101 FIRST F AD-11A DEMOL A-11B FIRST F AC11B FIRST F <td< td=""><td>ANDSCAPING PLAN ANDSCAPING PLAN ANDSCAPING PLAN ANDSCAPING PLAN AND SCAPE AND LUNIT A AND MASONRY PLAN UNIT A AND NAD SLAB DETAILS ANTION PLAN AND ETAILS ANTION PLAN AND AND AND AND AND AND AND AND AND AND</td><td>08 MECHANIC M-001 MD101 MH101 MH102 MR101 M-301 M-501 M-601 M-701 M-702 09 ELECTRIC E-001 ES102 E101 ES102 E101 ES102 E01 E-001 ES102 E101 EV02 EN01 E-502 E-601 E-602 10 TECHNOLO T-000 TD-11A T-101 T-118 T-401 T-502 T-503</td><td>AL MECHANICAL SYMBOLS AND ABBREVIATIONS MECHANICAL DEMOLITION AND NEW FIRST FLOOR PLAN - EXISTING BUILDING MECHANICAL HVAC FIRST FLOOR PLAN - UNIT A MECHANICAL HVAC FIRST FLOOR PLAN - UNIT B MECHANICAL ROOF PLAN MECHANICAL SECTIONS MECHANICAL SECTIONS MECHANICAL SCHEDULES TEMPERATURE CONTROLS SCHEMATICS TEMPERATURE CONTROLS SCHEMATICS TEMPERATURE CONTROLS SCHEMATICS AL ELECTRICAL SYMBOLS AND ABBREVIATIONS ELECTRICAL DEMOLITION SITE PLAN ELECTRICAL DEMOLITION SITE PLAN ELECTRICAL SITE PLAN PARTIAL ELECTRICAL FIRST FLOOR PLAN - UNIT A LIGHTING FIRST FLOOR PLAN - UNIT A LIGHTING FIRST FLOOR PLAN - UNIT A ELECTRICAL ROOF PLAN - UNIT B POWER AND SYSTEMS FIRST FLOOR PLAN - UNIT A POWER AND SYSTEMS FIRST FLOOR PLAN - UNIT A ELECTRICAL DETAILS ELECTRICAL DETAILS SCHEDULES AND SCHEMATICS RISER DIAGRAM AND PANELBOARD SCHEDULES</td></td<>	ANDSCAPING PLAN ANDSCAPING PLAN ANDSCAPING PLAN ANDSCAPING PLAN AND SCAPE AND LUNIT A AND MASONRY PLAN UNIT A AND NAD SLAB DETAILS ANTION PLAN AND ETAILS ANTION PLAN AND	08 MECHANIC M-001 MD101 MH101 MH102 MR101 M-301 M-501 M-601 M-701 M-702 09 ELECTRIC E-001 ES102 E101 ES102 E101 ES102 E01 E-001 ES102 E101 EV02 EN01 E-502 E-601 E-602 10 TECHNOLO T-000 TD-11A T-101 T-118 T-401 T-502 T-503	AL MECHANICAL SYMBOLS AND ABBREVIATIONS MECHANICAL DEMOLITION AND NEW FIRST FLOOR PLAN - EXISTING BUILDING MECHANICAL HVAC FIRST FLOOR PLAN - UNIT A MECHANICAL HVAC FIRST FLOOR PLAN - UNIT B MECHANICAL ROOF PLAN MECHANICAL SECTIONS MECHANICAL SECTIONS MECHANICAL SCHEDULES TEMPERATURE CONTROLS SCHEMATICS TEMPERATURE CONTROLS SCHEMATICS TEMPERATURE CONTROLS SCHEMATICS AL ELECTRICAL SYMBOLS AND ABBREVIATIONS ELECTRICAL DEMOLITION SITE PLAN ELECTRICAL DEMOLITION SITE PLAN ELECTRICAL SITE PLAN PARTIAL ELECTRICAL FIRST FLOOR PLAN - UNIT A LIGHTING FIRST FLOOR PLAN - UNIT A LIGHTING FIRST FLOOR PLAN - UNIT A ELECTRICAL ROOF PLAN - UNIT B POWER AND SYSTEMS FIRST FLOOR PLAN - UNIT A POWER AND SYSTEMS FIRST FLOOR PLAN - UNIT A ELECTRICAL DETAILS ELECTRICAL DETAILS SCHEDULES AND SCHEMATICS RISER DIAGRAM AND PANELBOARD SCHEDULES
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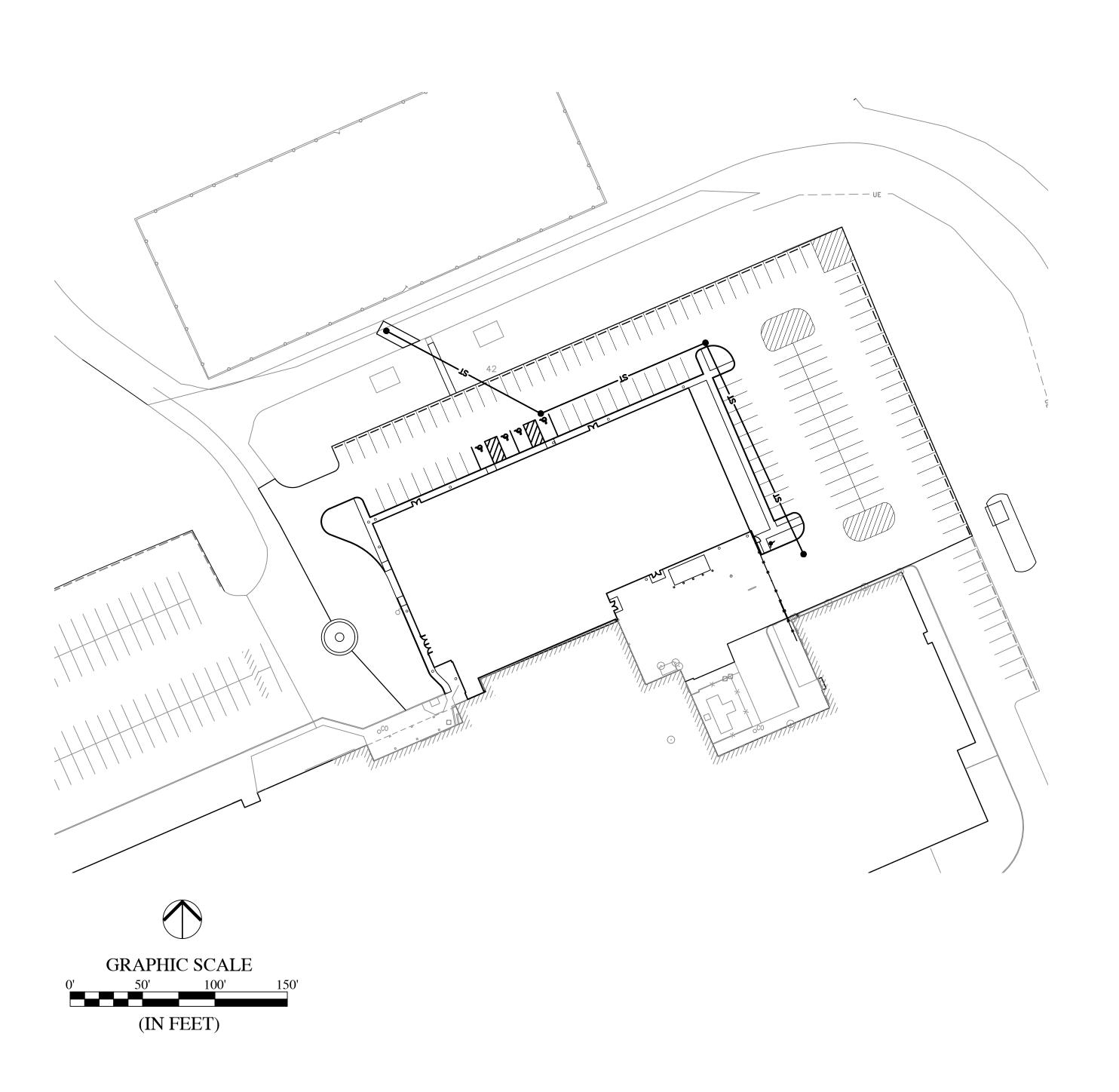
SHEET INDEX

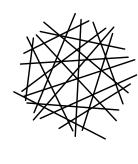




SOUTH PUTNAM HIGH SCHOOL **CONSTRUCTION DOCUMENTS**

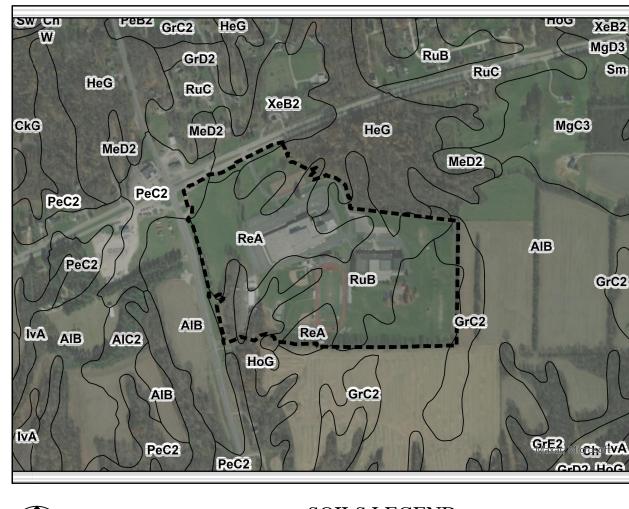
1780 EAST U.S. HIGHWAY 40, GREENCASTLE, IN 46135 JUNE 13, 2024 ADDENDUM#1





HWC





SOILS MAP

SOILS LEGEND

Parke silt loam, 6 to 12 percent slopes, eroded Russell silt loam, 2 to 6 percent slopes Alford silt loam, 2 to 6 percent slopes Grayford silt loam, 6 to 12 percent slopes, eroded Hennepin loam, 25 to 50 percent slopes Xenia silt loam, 2 to 6 percent slopes, eroded Hickory loam, 25 to 70 percent slopes

Reesville silt loam, 0 to 2 percent slopes

SHEET LIST TABLE

Sheet Title	Sheet Description
C0.0	COVER SHEET
C0.1	GENERAL NOTES
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN
C2.0	SITE IMPROVEMENTS PLAN
C3.0	PRE CONSTRUCTION EROSION CONTROL PLAN
C3.1	POST CONSTRUCTION EROSION CONTROL PLAN
C4.0	GRADING & DRAINAGE PLAN
C5.0	UTILITY PLAN
C6.0	STORM SEWER PLAN & PROFILE
C7.0	STORMWATER POLLUTION PREVENTION NOTES
C7.1	STORMWATER POLLUTION PREVENTION DETAILS
C8.0	CONSTRUCTION DETAILS

VERTICAL DATUM:

CGS C 62 RESET 1949 ELEVATION 732.79 (NAVD 88) A STANDARD DISK SET 1.4 MILES EAST ALONG U.S. HIGHWAY 40 FROM THE OST OFFICE AT PUTNAMVILLE, PUTNAM COUNTY, 1.2 MILES WEST JUNCTION OF STATE HIGHWAY 43, AT THE EAST END OF A WEIGHING STATION, AT A 2-FOOT BY 3-FOOT CONCRETE BOX CULVERT, IN THE TOP OF THE SOUTH HEADWALL, AND 75 FEET SOUTH OF THE CENTERLINE OF THE EAST-BOUND LANE OF THE HIGHWAY.

CSC TBM #1380 ELEVATION 804.12

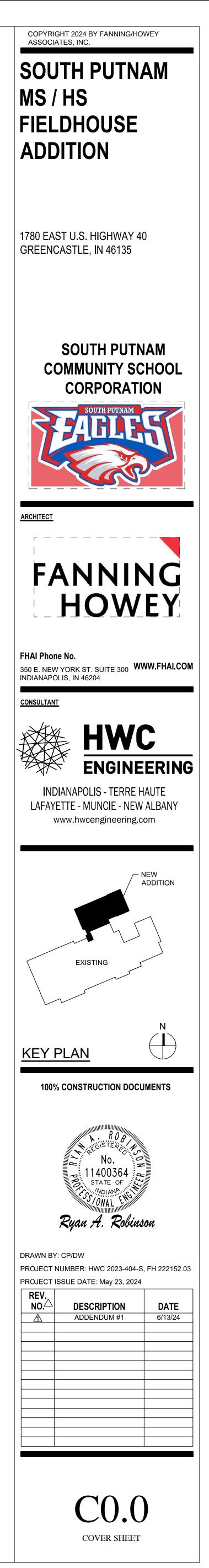
CUT "X" SET IN THE NORTHEAST MOST BOLT OF A FIRE HYDRANT LOCATED APPROXIMATELY 1,780.7 FEET SOUTH OF THE PHYSICAL CENTERLINE OF THE EAST BOUND LANE OF U.S. HIGHWAY 40 AND APPROXIMATELY 2,063.6 FEET EAST OF THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231.

ELEVATION 770.83 CSC TBM #2930 CUT "X" SET IN THE NORTHWEST MOST BOLT OF A FIRE HYDRANT LOCATED APPROXIMATELY 758.5 FEET SOUTH OF THE PHYSICAL CENTERLINE OF THE EAST BOUND LANE OF U.S. HIGHWAY 40 AND APPROXIMATELY 1,172.0 FEET EAST OF

THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231. ELEVATION 773.76 CSC TBM #4533

CUT "X" SET IN A CONCRETE RIGHT OF WAY MONUMENT LOCATED APPROXIMATELY 59.5 FEET SOUTH OF THE PHYSICAL CENTERLINE OF THE EAST BOUND LANE OF U.S. HIGHWAY 40 AND APPROXIMATELY 622.3 FEET EAST OF THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231.

THE DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL ADA REQUIREMENTS AND LOCAL JURISDICTION CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



OVERALL PROJECT GENERAL NOTES: 1. SURVEY PREPARED BY: HWC ENGINEERING	SITE IMPROVEMENTS NOTES 1. CONTRACTOR SHALL VERIFY ALL DIMENS SHALL BE RESPONSIBLE FOR ALL FIELD
HWC ENGINEERING 135 NORTH PENNSYLVANIA STREET, SUITE 200 INDIANAPOLIS, INDIANA 46204 317–347–3663	2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD ENSURE ACCURATE LAYOUT OF SITE IMP
2. CONTRACTOR SHALL PERFORM ALL MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH STATE AND LOCAL STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL, AT A MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S WORK FORCES AND THE WORK.	 UNLESS NOTED OTHERWISE, ALL DIMENS SIDEWALK, FACE OF CURB, OR OUTSIDE REFER TO BUILDING PLANS FOR ALL BU
3. CONTRACTOR SHALL COMPLY WITH ANY AND ALL SAFETY REGULATIONS AND REQUIREMENTS RELATED TO THE PROPOSED WORK. SAFETY PROVISIONS FOR THE WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ANY OTHER LOCAL, STATE OR FEDERAL AGENCY HAVING JURISDICTION. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY	 FOLLOWING THE COMPLETION OF ALL UN PLACED AND COMPACTED TO THE THICK WHEN THICKNESS OF COMPACTED AGGR LAYERS, WITH NO LAYER MORE THAN 6 COMPACT WITH A MEDIUM WEIGHT SMOC ALL LOCATIONS NOT ACCESSIBLE TO TH TAMPERS.
RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE OPTION OF THE OWNER AND/OR ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.	6. ASPHALT PAVEMENT SHALL BE CONSTRU GUIDELINES OF THE INDOT STANDARD S PAVEMENT DESIGN INFORMATION.
 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, FENCES, WARNING SIGNS, FLASHING LIGHTS, TEMPORARY WALKWAYS AND OTHER SAFETY MEASURES DURING CONSTRUCTION. ALL WORK SHALL CONFORM TO FEDERAL, STATE AND LOCAL REGULATIONS. 	7. THE CONNECTION OF NEW PAVEMENT TO MATCH EXISTING GRADES AND PROFILES AND PROPOSED ASPHALT PAVEMENTS. PAVEMENT SHALL BE PROPERLY SEALED
 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND PERMITS REQUIRED FOR WORK. PLANS AND SPECIFICATIONS REFERENCE ARCHITECT, ENGINEER AND LANDSCAPE ARCHITECT INTERCHANGEABLY THROUGHOUT. 	ASPHALT PAVEMENT IS INDICATED TO J 8. UNLESS NOTED OTHERWISE, ALL PAVEME PAINTED WITH WHITE LATEX, WATERBORI COMPLYING WITH FS TT-P-1952. APPLY PRODUCE CLEAN, STRAIGHT AND UNIFOR
 NO CHANGES SHALL BE MADE TO THE PROPOSED WORK WITHOUT WRITTEN APPROVAL OF ENGINEER. ANY DEVIATIONS OF THE EXISTING CONDITIONS FROM THOSE SHOWN ON THE PLANS THAT AFFECT THE IMPROVEMENTS SHALL BE REPORTED TO THE ENGINEER BEFORE CONSTRUCTION PROCEEDS AT THAT LOCATION. 	PRODUCE A MINIMUM 12 TO 15 MILS DF 9. PORTLAND CEMENT SHALL CONFORM TO MANUFACTURER OF APPROVED CEMENT COARSE AGGREGATES SHALL CONFORM POTABLE, CLEAN AND FREE FROM OILS,
 CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SURVEY MONUMENTS. ANY MONUMENT DISTURBED OR DESTROYED DURING CONSTRUCTION ACTIVITY SHALL BE REPLACED BY A LICENSED SURVEYOR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING BENCHMARKS. IF BENCHMARKS ARE TO BE DISTURBED OR REMOVED AS PART OF THE WORK, CONTRACTOR SHALL HAVE A LICENSED SURVEYOR 	MAY BE DELETERIOUS TO CONCRETE OR
ESTABLISH ANOTHER BENCHMARK AT A LOCATION OUT OF HARM'S WAY 12. EXCAVATION AND DISPOSAL OF MATERIAL SHALL BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS, CODES, AND ENVIRONMENTAL REGULATIONS. CONTRACTOR SHALL CEASE EXCAVATION ACTIVITIES AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY IF CONTAMINATED SOIL OR OTHER ENVIRONMENTAL MATERIAL SHALL BE ENVIRONMENTAL REGULATIONS.	11. ALL CONCRETE USED SHALL BE CLASS OF 4,000 PSI, 6–1/2 BAGS, 2 TO 4 IN SHALL BE PROPORTIONED IN ACCORDAN
ENVIRONMENTAL HAZARD IS ENCOUNTERED. 13. CONTRACTOR SHALL ADJUST ELEVATION OF ANY SURFACE FEATURE (RIM, GRATE, HYDRANTS, VALVES, HAND HOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS AFFECTED BY NEW CONSTRUCTION OR GRADING.	DELIVERED, AND PLACED IN ACCORDANC 12. FORMS SHALL BE CONSTRUCTED OF WO BE MORTAR TIGHT. THE FORMS AND AS AND SHALL BE CONSTRUCTED SO THAT CONTOURS SHOWN ON THE DRAWINGS
 CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING SITE AREAS OR IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO AT LEAST THE CONDITION THAT EXISTED BEFORE CONSTRUCTION. COORDINATE WORK ON CIVIL DRAWINGS WITH ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND STRUCTURAL WORK. 	CONTOURS SHOWN ON THE DRAWINGS. I SAGS, AND OTHER IRREGULARITIES. THE CONCRETE IS POURED. REMOVE FORMS 13. ALL CONCRETE SHALL BE PLACED IN AC UNIFORMLY CONSOLIDATED USING A MED
TILITY GENERAL NOTES:	306R FOR COLD WEATHER PLACEMENT PLACED CONCRETE FROM PREMATURE D CURING. 14. CONCRETE SAW CUTTING SHALL BE DON WEICHT PROVIDE A NEAT STRAIGHT OU
1. NOT ALL UTILITY LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ANY UNDERGROUND INFORMATION SHOWN ON THE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONTRACTOR'S BENEFIT. CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF EXISTING UNDERGROUND UTILITIES BEFORE EXCAVATION BEGINS.	WEIGHT. PROVIDE A NEAT, STRAIGHT CU FROM PROPOSED SIDEWALK OR CONCRE 15. ALL CONSTRUCTION JOINTS SHALL BE S WITH THE APPROPRIATE SEALANT ACCO
2. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES IN THE WORK AREA WHETHER SHOWN OR NOT, AND SHALL REALIZE THAT THE ACTUAL LOCATION OF THE UTILITIES MAY BE DIFFERENT FROM THAT SHOWN ON THE DRAWINGS. ALL EXISTING UTILITIES ENCOUNTERED, WHETHER IN PUBLIC RIGHTS OF WAY OR ON PRIVATE PROPERTY, SHALL BE THE CONTRACTORS RESPONSIBILITY TO	16. ALL SIDEWALKS SHALL COMPLY WITH AN SLOPE SHALL BE 1:50 AND MAXIMUM L
MAINTAIN IN SERVICE. 3. ANY UTILITIES WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION TO SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE UTILITY.	EARTHWORK NOTES: 1. CONTRACTOR SHALL REFER TO THE GEO ABOUT THE SOIL CONDITIONS. GEOTECH
4. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OR RESUMPTION OF WORK WHICH COULD DISRUPT THE RESPECTIVE UTILITY SERVICE. CONTRACTOR SHALL COORDINATE ANY DISRUPTION OF AN ACTIVE UTILITY SERVICE WITH ENGINEER, OWNER, AND UTILITY COMPANY.	CONTRACTOR. 2. EARTHWORK SHALL BE COMPLETED IN A SPECIFICATIONS. THE CONTRACTOR SHAI STARTING EARTHWORK OPERATIONS.
 CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY FOR DIRECTION SHOULD UNCHARTED, INCORRECTLY CHARTED OR OTHER UTILITIES BE ENCOUNTERED DURING CONSTRUCTION. ANY DEVIATIONS FROM THE UTILITY LOCATIONS OR ELEVATIONS FROM THOSE SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER BEFORE CONSTRUCTION PROCEEDS AT THAT LOCATION. CONTRACTOR SHALL UNCOVER ALL TIE-IN AND CROSSING LOCATIONS PRIOR TO ANY UNDERGROUND PIPE 	COMPACTED FILLS. ALL SUBGRADES ANI SPECIFIED BELOW. BASED UPON REPORT ARE BELOW SPECIFIED DENSITIES REQUIF
INSTALLATION. 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH THE IMPROVEMENTS SHOWN ON THE SITE PLANS. IF MINOR UTILITY CONFLICTS ARISE, CONTRACTOR MAY SHIFT THE LOCATION OF THE PROPOSED IMPROVEMENTS AFTER NOTIFYING ENGINEER.	EXPENSE TO THE OWNER. 4. TOPSOIL SHALL BE STRIPPED AND STOC STRIPPED TOPSOILS SHALL BE STOCKPIL TOPSOIL IS DEFINED AS FERTILE, FRIABL
 B. REFER TO BUILDING PLANS FOR ALL INFORMATION REGARDING UTILITY LAYOUT AND DETAILS WITHIN THE BUILDING AND EXTENDING OUT 5-FEET FROM EXTERIOR FACE OF BUILDING. ALL MECHANICAL, ELECTRICAL, AND PLUMBING DESIGN AND COORDINATION SHALL BE THE RESPONSIBILITY OF CONTRACTOR. B. ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY 	REMOVE TOPSOILS AND UNSUITABLE SU PAVEMENTS. IN ADDITION, ANY AREAS T
AGENCY HAVING JURISDICTION. 10. ALL EXCAVATED TRENCHES UNDER PROPOSED PAVED AREAS, INCLUDING SIDEWALKS, SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED IN LIFTS ACCORDING TO CONSTRUCTION DETAILS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVEMENT AT THE SURFACE WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.	BE STRIPPED OF TOPSOILS. IF THE AMO EXCESS SHALL BE SPREAD ON THE SITI 5. ALL COMPACTED FILL AND BACKFILL MA GEOTECHNICAL ENGINEER. ALL FILL MAT
11. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES AND CONDUITS TO AVOID CONFLICTS AND PROVIDE REQUIRED MINIMUM DEPTHS OF COVER. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL BENDS, FITTINGS OR STRUCTURES REQUIRED TO ASSURE PROPER INSTALLATION.	BY WEIGHT, LARGE ROCK GREATER THA OF THE FILL MATERIALS SHALL BE SUBI PLACEMENT. ALL FILL EMBANKMENTS AN BE COMPACTED TO 98% OF MAXIMUM D CONTENT IN ACCORDANCE WITH ASTM D BUILDING SHALL EXTEND AT LEAST 5-F
 ALL COORDINATES AND DIMENSIONS ARE TO THE CENTERLINE OF THE UTILITIES AND STRUCTURES. WHERE NECESSARY, UTILITY SERVICE CONDUITS SHALL BE INSTALLED UNDER PAVED AREAS AND BACKFILLED AS SPECIFIED ABOVE BEFORE PAVEMENT IS CONSTRUCTED. COORDINATE CONDUIT REQUIREMENTS WITH UTILITY COMPANIES AND MECHANICAL CONTRACTOR. 	PAVEMENT, SIDEWALK OR BUILDING SHA
DEMOLITION NOTES: 1. PRIOR TO THE START OF DEMOLITION WORK, CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY	LOCATION AND MATERIAL BEING PLACED MATERIAL COMPACTED BY HAND OPERA 6. IN-PLACE DENSITY TESTS SHALL BE PE COMPACTED FILL AND BACKFILL LIFT, O
 LOCAL, STATE AND FEDERAL AGENCIES HAVING JURISDICTION. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL DEMOLISH AND DISPOSE OF OFF-SITE ALL MATERIALS, STRUCTURES, FENCE, CONCRETE, PAVEMENTS, CURBS AND OTHER MISCELLANEOUS APPURTENANCES WITHIN DISTURBED LIMITS. GENERALLY, DEMOLITION AREAS AND FACILITIES ARE INDICATED WITH BOLD LINES AND/OR SHADED AREAS. DISPOSAL OF SITE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE 	FT OF FILL PLACED, BUT IN NO CASE F THE IN-PLACE DENSITY TESTS INDICATE REWORKED UNTIL COMPACTION CRITERIA CONTRACTOR'S SUBSEQUENT ACTIVITY C RECOMPACTED AS SPECIFIED ABOVE PR ENGINEER SHALL ISSUE A REPORT DOCU
LOCAL, STATE AND FEDERAL GUIDELINES. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES TO REMAIN OR WHICH LIE ALONG THE PERIMETER OF THE SITE. THESE FEATURES INCLUDE, BUT ARE NOT LIMITED TO: BUILDINGS, PAVEMENTS, FENCES, VEGETATION, UTILITIES, PROPERTY MARKERS, ETC. CONTRACTOR SHALL RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS DURING OR AS A RESULT OF CONSTRUCTION ACTIVITY.	 ENGINEER STILLE ISSUE AT HELOCITIES ENGINEER. UPON REACHING SUBGRADE ELEVATION WHERE THE PAVEMENT SUBGRADE ELEV SHALL PROOF-ROLL SUBGRADE WITH A OTHER APPROVED EQUIPMENT, TO DETER
 REPLACEMENT OF DAMAGED PROPERTY SHALL BE EQUAL TO EXISTING CONDITIONS. 4. CLEAR AND GRUB ALL TREES, BRUSH, STUMPS AND OTHER VEGETATION NECESSARY FOR CONSTRUCTION. ALL CLEARING AND GRUBBING DEBRIS SCHEDULED FOR REMOVAL SHALL BE DISPOSED OF OFF-SITE. 5. TREES AND OTHER PLANT MATERIALS TO REMAIN SHALL BE PROTECTED BY TREE FENCE INSTALLED 	PRESENT. POCKETS OF UNSUITABLE MA REINFORCEMENT OR COMPACTED GRANU GEOTECHNICAL ENGINEER SHALL BE PRE REPORT OF ACCEPTANCE TO ENGINEER.
OUTSIDE THE DRIP LINE. NO CONSTRUCTION EQUIPMENT, MATERIALS OR DEBRIS SHALL BE LOCATED WITHIN TREE PROTECTION BOUNDARIES. 6. DEMOLISH FOUNDATIONS AND OTHER BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS, TO A DEPTH OF NOT LESS THAN 48-INCHES BELOW THE LOWEST GRADE/SUBGRADE LEVEL.	8. EXCAVATE FOR STRUCTURES TO WITHIN EXCAVATIONS A SUFFICIENT DISTANCE F DO NOT DISTURB THE BOTTOM OF THE TO FINAL GRADE BEFORE PLACING CONO BEAR ON UNDISTURBED COMPACTED SO
7. COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS.	9. BACKFILL MATERIAL SHALL MEET THE R EARTHWORK SPECIFICATIONS. WHERE BA THE BACKFILL MATERIAL SHALL BE PLA PRESSURE ON ONE SIDE OF THE WALL.
 PROVIDE NEAT, STRAIGHT, VERTICAL SAWCUT AT ALL LOCATIONS WHERE PROPOSED PAVEMENTS, CURBS, ETC. ABUT EXISTING PAVEMENTS, CURBS, ETC. TO REMAIN. UNLESS NOTED OTHERWISE, ALL UNDERGROUND UTILITIES SCHEDULED FOR DEMOLITION SHALL BE COMPLETELY EXCAVATED AND DISPOSED OF OFF-SITE, AND THE TRENCH BACKFILLED IN ACCORDANCE WITH 	10. TRENCHES UNDER PAVED AREAS SHALL MATERIAL PER CONSTRUCTION DETAILS. PAVEMENT WITH A 1:1 SLOPE OUTWARD
 10. UNLESS NOTED OTHERWISE, ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT. 	11. DUE TO SITE CONSTRAINTS, THE EARTH CONTRACTOR SHALL REVIEW THE EXISTII COSTS, INCLUDING IMPORTS AND/OR EX
11. DEMOLITION ITEMS INCLUDE, BUT ARE NOT LIMITED TO, REMOVAL ITEMS INDICATED ON THE DEMOLITION PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATED ITEMS WHICH INTERFERE WITH PROPOSED CONSTRUCTION.	
12. CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS, AND OTHER ADJACENT OCCUPIED FACILITIES.	GRADING NOTES: 1. CONTRACTOR SHALL TAKE PARTICULAR CAF EQUIPMENT. VERIFY COVER REQUIREMENTS
 DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES. ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT STRUCTURES AND OTHER FACILITIES AND INJURY TO 	CAUSE DAMAGE. 2. CONTRACTOR SHALL NOTIFY ALL UTILITY CO ANY UTILITIES ARE PRESENT ON SITE. ALL APPROPRIATE UTILITY COMPANIES. WHEN GF NOTIFY THE UTILITY COMPANY SO A REPRE
PERSONS. 15. PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS.	GRADING. 3. CONTRACTOR SHALL ADJUST ALL EXISTING IRRIGATION SYSTEM, UTILITY PEDESTALS, ET
16. NO ON-SITE BURNING IS PERMITTED.17. THE USE OF ANY TYPE OF EXPLOSIVES SHALL NOT BE PERMITTED.	4. AFTER STRIPPING TOPSOIL MATERIAL, PROO DUMP TRUCK MINIMUM GROSS VEHICLE WEIG PRESSURES BETWEEN 70-80 PSI UNLESS O INFLATED WITH AIR ONLY, NO LIQUID SHALL SOILS FIRM TO DETERMINE LOCATIONS OF A AND/OR REMOVAL OF ANY UNSUITABLE MA
	5. FOLLOWING THE COMPLETION OF SITE G PLACED IN AREAS DESIGNATED FOR SEE INCHES. THE FINISHED SURFACE SHALL DEPRESSED AREAS WHERE WATER WILL SURFACE GRADES SHALL NOT BE MORE
	6. PROVIDE POSITIVE DRAINAGE WITHOUT PONE CORRECT ANY, STANDING WATER CONDITION
	 ALL PROPOSED SPOT ELEVATIONS OR CONT SEE APPROPRIATE DETAILS TO DETERMINE CONTRACTOR SHALL PERPETUATE ANY SUB AND PROVIDE POSITIVE OUTLET TO DOWNST
	AND PROVIDE POSITIVE OUTLET TO DOWNST ANY CIRCUMSTANCES WHERE THIS CANNOT

SPOT ELEVATIONS OR CONTOURS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS. ATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED. HALL PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR SHALL NOTIFY THE ENGINEER WITH ANCES WHERE THIS CANNOT BE ACCOMPLISHED.

/EMENTS NOTES:

HALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION AND SPONSIBLE FOR ALL FIELD DIMENSIONS THROUGHOUT CONSTRUCTION.

SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED CONSTRUCTION LINE AND GRADE TO IRATE LAYOUT OF SITE IMPROVEMENTS. OTHERWISE, ALL DIMENSIONS ARE REFERENCED TO THE EDGE OF PAVEMENT, EDGE OF

OF CURB, OR OUTSIDE SURFACE OF FOUNDATION WALL. DING PLANS FOR ALL BUILDING DIMENSIONS AND LAYOUT DETAILS.

COMPLETION OF ALL UNDERGROUND WORK IN PAVED AREAS, AGGREGATE BASE SHALL BE DMPACTED TO THE THICKNESS INDICATED ON THE APPROPRIATE PAVEMENT DESIGN DETAIL. SS OF COMPACTED AGGREGATE BASE EXCEEDS 6 INCHES, PLACE MATERIALS IN EQUAL NO LAYER MORE THAN 6 INCHES OR LESS THAN 3 INCHES THICK WHEN COMPACTED. A MEDIUM WEIGHT SMOOTH WHEELED ROLLER OR EQUIVALENT. ALONG CURBS, WALLS AND NOT ACCESSIBLE TO THE ROLLER. COMPACT AGGREGATE BASE WITH HAND OPERATED

EMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION AND MATERIAL THE INDOT STANDARD SPECIFICATIONS, LATEST EDITION. SEE CONSTRUCTION DETAILS FOR SIGN INFORMATION.

ION OF NEW PAVEMENT TO EXISTING PAVEMENT IN THE PARKING LOTS AND DRIVEWAYS SHALL NG GRADES AND PROFILES. A LAP JOINT IS REQUIRED FOR CONNECTIONS BETWEEN EXISTING ASPHALT PAVEMENTS. SEE CONSTRUCTION DETAILS. THE EDGE OF THE EXISTING ASPHALT ALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL LOCATIONS WHERE NEW EMENT IS INDICATED TO JOIN EXISTING ASPHALT.

OTHERWISE, ALL PAVEMENT STRIPING WITHIN THE PROJECT SITE SHALL BE 4-INCHES WIDE, WHITE LATEX, WATERBORNE EMULSION, LEAD AND CHROMATE FREE, READY MIXED, ITH FS TT-P-1952. APPLY PAINT WITH MECHANICAL EQUIPMENT AND/OR STENCILS TO AN, STRAIGHT AND UNIFORM EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES TO INIMUM 12 TO 15 MILS DRY THICKNESS.

MENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-150. ONLY ONE BRAND AND OF APPROVED CEMENT SHALL BE USED FOR ANY ONE STRUCTURE. REGULAR FINE AND EGATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33. ALL WATER USED SHALL BE AN AND FREE FROM OILS, ACIDS, ALKALIS, ORGANIC MATERIAL OR OTHER SUBSTANCES THAT ERIOUS TO CONCRETE OR STEEL.

STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60. WELDED WIRE RE MESH SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-185. REINFORCEMENT SHALL BENT IN ACCORDANCE WITH ACI 315. COMPLY WITH ARSI RECOMMENDED PRACTICE "PLACING BARS" FOR PLACING AND SUPPORTING REINFORCEMENT.

USED SHALL BE CLASS A STRUCTURAL CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH , 6-1/2 BAGS, 2 TO 4 INCH SLUMP RANGE, 5% TO 8% AIR CONTENT. CLASS A CONCRETE PORTIONED IN ACCORDANCE WITH ACI 211.1. ALL READY MIXED CONCRETE SHALL BE MIXED, ND PLACED IN ACCORDANCE WITH ASTM C-94.

BE CONSTRUCTED OF WOOD, PLYWOOD, STEEL, OR OTHER APPROVED MATERIALS AND SHALL GHT. THE FORMS AND ASSOCIATED FALSE WORK SHALL BE SUBSTANTIAL AND UNYIELDING CONSTRUCTED SO THAT THE FINISHED CONCRETE WILL CONFORM TO THE DIMENSIONS AND OWN ON THE DRAWINGS. FORM SURFACES SHALL BE SMOOTH AND FREE FROM HOLES, DENTS, THER IRREGULARITIES. THE FORMS SHALL BE COATED WITH A NON-STAINING OIL BEFORE POURED. REMOVE FORMS A MINIMUM OF 24 HOURS AFTER PLACING CONCRETE.

SHALL BE PLACED IN ACCORDANCE WITH ACI 304. FORMED CONCRETE SHALL BE NSOLIDATED USING A MECHANICAL VIBRATOR. COMPLY WITH THE RECOMMENDATIONS OF ACI D WEATHER PLACEMENT AND ACI 305R FOR HOT WEATHER PLACEMENT. PROTECT FRESHLY RETE FROM PREMATURE DRYING AND TO ENSURE PROPER MOISTURE CONTROL DURING

CUTTING SHALL BE DONE AS SOON AS POURED CONCRETE HAS CURED AND CAN SUPPORT IDE A NEAT, STRAIGHT CUT WHICH IS TRUE IN ALIGNMENT. ALL JOINTS ARE TO CONTINUE ED SIDEWALK OR CONCRETE PAVEMENT THROUGH THE CURB.

CTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED ROPRIATE SEALANT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. SHALL COMPLY WITH AMERICAN WITH DISABILITIES ACT (ADA) STANDARDS. MAXIMUM CROSS

BE 1:50 AND MAXIMUM LONGITUDINAL SLOPE SHALL BE 1:20. NOTES:

SHALL REFER TO THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT FOR INFORMATION DIL CONDITIONS. GEOTECHNICAL REPORT WILL BE PROVIDED BY ENGINEER AT REQUEST BY

HALL BE COMPLETED IN ACCORDANCE WITH PUTNAM COUNTY AND INDOT STANDARD THE CONTRACTOR SHALL NOTIFY ENGINEER AND THE OWNER AT LEAST 48 HOURS BEFORE THWORK OPERATIONS.

TOR SHALL EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER FOR THIS PROJECT. THE . ENGINEER SHALL INSPECT SOIL CONDITIONS, PROOF-ROLLING, AND FIELD DENSITY OF ILLS. ALL SUBGRADES AND FILLS SHALL MEET OR EXCEED THE COMPACTION REQUIREMENTS .OW. BASED UPON REPORTS FROM THE GEOTECHNICAL ENGINEER, SUBGRADES OR FILLS WHICH ECIFIED DENSITIES REQUIRE ADDITIONAL COMPACTION WORK AND TESTING AT NO ADDITIONAL THE OWNER.

BE STRIPPED AND STOCKPILED FOR USE DURING FINISH GRADING AND LANDSCAPE WORK. SOILS SHALL BE STOCKPILED AS SHOWN IN STORMWATER POLLUTION PREVENTION PLAN. INED AS FERTILE, FRIABLE NATURAL LOAM SURFACE SOILS, REASONABLY FREE OF SUBSOIL, BRUSH, AND OTHER LITTER OR STONES LARGER THAN 1/2 INCH. LOOSE DEBRIS, TOPSOILS LE SUBSOILS SHALL BE STRIPPED FROM AREAS OF THE SITE THAT ARE TO BE DEVELOPED. STRIPPING OF SURFACE SOILS MAY VARY BY LOCATION WITHIN THE SITE. THE ENGINEER TE ON-SITE LOCATIONS TO STORE OR DEPOSIT STRIPPED SOILS. CONTRACTOR SHALL NLS AND UNSUITABLE SUBSOILS FROM ALL AREAS TO BE OCCUPIED BY BUILDINGS AND ADDITION, ANY AREAS TO BE UTILIZED AS BORROW AREAS FOR FILL MATERIAL MUST ALSO OF TOPSOILS. IF THE AMOUNT OF STOCKPILED TOPSOIL EXCEEDS QUANTITY REQUIRED, THE

BE SPREAD ON THE SITE WHERE DIRECTED BY THE ENGINEER OR DISPOSED OF OFFSITE. D FILL AND BACKFILL MATERIAL SHALL BE SATISFACTORY MATERIAL APPROVED BY THE ENGINEER. ALL FILL MATERIAL SHALL CONTAIN LESS THAN 3-PERCENT ORGANIC MATERIAL RGE ROCK GREATER THAN 4-INCHES, RUBBISH, OR OTHER UNSUITABLE MATERIAL. SAMPLES ATERIALS SHALL BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO ILL FILL EMBANKMENTS AND UNDER BUILDING PAVED AREAS, SIDEWALKS, AND PADS SHALL TO 98% OF MAXIMUM DRY DENSITY AND SHALL BE WITHIN +/-2% OF OPTIMUM MOISTURE

CORDANCE WITH ASTM DENSITY TEST D-698. THE AREA OF COMPACTED FILL FOR THE . EXTEND AT LEAST 5-FEET BEYOND THE FOUNDATION WALLS. ALL FILLS OUTSIDE OF EWALK OR BUILDING SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY IN ACCORDANCE NSITY TEST D-698. FILL MATERIALS SHALL BE PLACED IN LIFTS NOT TO EXCEED 8-INCHES KNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO ENSURE COMPACTION DETAILED ABOVE ARE MET. EXCESSIVELY WET MATERIAL SHALL BE SPREAD AND DRIED SO THAT THE MOISTURE CONTENT WILL PERMIT PROPER COMPACTION. EACH LAYER SHALL BE MPACTED USING A VIBRATORY COMPACTOR OR OTHER APPROVED EQUIPMENT SUITED TO THE) MATERIAL BEING PLACED. LIFTS SHALL NOT EXCEED 4-INCHES IN LOOSE THICKNESS FOR IPACTED BY HAND OPERATED TAMPERS.

NSITY TESTS SHALL BE PERFORMED THROUGHOUT THE BUILDING FILL EMBANKMENTS. AT EACH ILL AND BACKFILL LIFT, ONE (1) DENSITY TEST SHALL BE PERFORMED FOR EVERY 5000 SQ. ACED, BUT IN NO CASE FEWER THAN TWO (2) TESTS PER LIFT. AREAS WHERE RESULTS OF DENSITY TESTS INDICATE COMPACTION SPECIFICATIONS ARE NOT OBTAINED SHALL BE TIL COMPACTION CRITERIA IS ACHIEVED. APPROVED COMPACTED SUBGRADE DISTURBED BY SUBSEQUENT ACTIVITY OR ADVERSE WEATHER CONDITIONS SHALL BE SCARIFIED AND AS SPECIFIED ABOVE PRIOR TO CONTINUATION OF CONSTRUCTION. THE GEOTECHNICAL LL ISSUE A REPORT DOCUMENTING THE SUFFICIENCY OF THE FINAL COMPACTED FILL TO

G SUBGRADE ELEVATION IN AREAS THAT HAVE BEEN FILLED AND COMPACTED, OR IN AREAS AVEMENT SUBGRADE ELEVATIONS ARE ACHIEVED WITHOUT FILL OPERATIONS, CONTRACTOR -ROLL SUBGRADE WITH A FULLY LOADED TRI-AXLE DUMP TRUCK, MEDIUM WEIGHT ROLLER OR /ED EQUIPMENT, TO DETERMINE IF ANY POCKETS OF SOFT, UNSUITABLE MATERIALS ARE KETS OF UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED WITH SUBGRADE OR COMPACTED GRANULAR FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. ENGINEER SHALL BE PRESENT DURING PROOF-ROLLING OPERATIONS AND SHALL SUBMIT A CEPTANCE TO ENGINEER.

STRUCTURES TO WITHIN 0.1 FOOT OF THE DESIGN ELEVATIONS AND DIMENSIONS. EXTEND SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMS. RB THE BOTTOM OF THE EXCAVATION INTENDED FOR BEARING SURFACE. EXCAVATE BY HAND E BEFORE PLACING CONCRETE FORMS AND REINFORCEMENT SO FOOTINGS AND FOUNDATIONS TURBED COMPACTED SOILS.

ERIAL SHALL MEET THE REQUIREMENTS OF AND SHALL BE COMPACTED ACCORDING TO THE SPECIFICATIONS. WHERE BACKFILLING IS REQUIRED ON BOTH SIDES OF A FOUNDATION WALL, MATERIAL SHALL BE PLACED EQUALLY ON BOTH SIDES TO AVOID UNBALANCED SOIL

DER PAVED AREAS SHALL BE BACKFILLED AND COMPACTED WITH APPROVED GRANULAR CONSTRUCTION DETAILS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE TH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.

CONSTRAINTS, THE EARTHWORK FOR THE SITE AS DESIGNED MAY OR MAY NOT BE BALANCED. SHALL REVIEW THE EXISTING SITE CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK DING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.

TES:

HALL TAKE PARTICULAR CARE WHEN GRADING IN AND AROUND EXISTING UTILITY LINES AND RIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO

SHALL NOTIFY ALL UTILITY COMPANIES 48-HOURS BEFORE SITE GRADING IS TO START TO VERIFY IF E PRESENT ON SITE, ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE ILITY COMPANIES. WHEN GRADING OPERATIONS MAY IMPACT EXISTING UTILITIES, CONTRACTOR SHALL LITY COMPANY SO A REPRESENTATIVE CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING

HALL ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, STEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE. TOPSOIL MATERIAL, PROOFROLL SHALL BE PERFORMED BY A LOADED TANDEM PNEUMATIC TIRE

NIMUM GROSS VEHICLE WEIGHT OF 22 TONS. THE TIRES SHALL BE OPERATED AT INFLATION TWEEN 70-80 PSI UNLESS OTHERWISE NOTED BY THE GOETECHNICAL ENGINEER. THE TIRES SHALL BE AIR ONLY, NO LIQUID SHALL BE USED. THE PROOFROLL SHALL BE COMPLETED UNDER INSPECTION OF DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS VAL OF ANY UNSUITABLE MATERIAL WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.

COMPLETION OF SITE GRADING AND SUBSURFACE UTILITY INSTALLATION, TOPSOIL SHALL BE EAS DESIGNATED FOR SEEDING, SODDING, OR LANDSCAPING TO A MINIMUM DEPTH OF 6 INISHED SURFACE SHALL BE UNIFORMLY AND SMOOTHLY GRADED AND SHALL BE FREE OF EAS WHERE WATER WILL POND. LIGHTLY COMPACT TOPSOIL AFTER PLACEMENT. THE FINISHED DES SHALL NOT BE MORE THAN 0.1 FOOT ABOVE OR BELOW THE GRADES INDICATED ON THE E A SMOOTH TRANSITION BETWEEN EXISTING GRADES AND ADJACENT FILL EMBANKMENTS. E DRAINAGE WITHOUT PONDING IN ALL AREAS. UPON REACHING FINAL GRADE, CONTRACTOR SHALL TANDING WATER CONDITIONS.

WATER SYSTEM NOTES:

- ALL WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH WATER MAIN SPECIFICATIONS OR SOUTH 43 WATER ASSOCIATION. INC. TYPICAL CONSTRUCTION STANDARDS, SPECIFICATIONS AND DETAILS. AND SHALL MEET THE MINIMUM REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.
- 2. THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL GATE VALVES. VALVES SHALL BE INSTALLED WITH VALVE BOX ALIGNERS (POSI-CAPS) AND MUST BE CENTERED PRIOR TO ACCEPTANCE. VALVE OPENING DIRECTION SHALL BE RIGHT-HAND OPEN/COUNTERCLOCKWISE.
- 3. WATER MAINS AND SERVICE LINES SHALL HAVE A MINIMUM OF 3'-6" OF COVER OVER TOP OF THE PIPE. A MINIMUM OF 18-INCH VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE OUTSIDE WALLS OF WATER MAINS AND SEWERS (SANITARY AND STORM).
- CONTRACTOR SHALL PERFORM ALL OF THE WORK ASSOCIATED WITH CONNECTIONS TO THE EXISTING FACILITIES. THE CONTRACTOR SHALL COORDINATE THE CLOSURE OF VALVES, INSPECTION, AND ALL SERVICE
- SHUT-OFFS WITH LOCAL UTILITY COMPANY. 5. THE COMPLETED WATER LINE SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH WATER MAIN
 - SPECIFICATIONS OR SOUTH 43 WATER ASSOCIATION, INC.REQUIREMENTS. 6. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAINS, CONTRACTOR SHALL EITHER ADJUST THE WATER LINE IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED.

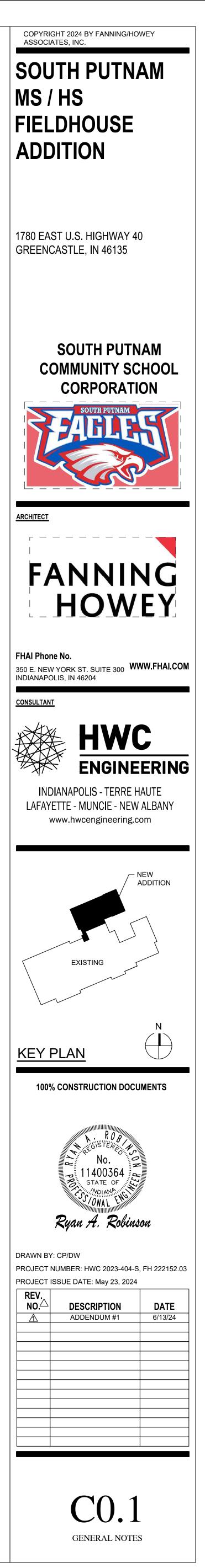
STORM SEWER NOTES:

- PUTNAM COUNTY TYPICAL CONSTRUCTION STANDARDS, SPECIFICATIONS AND DETAILS. 2. ALL MAIN LINE STORM SEWER PIPE SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP) OR HIGH DENSITY POLYETHYLENE (HDPE) PIPE. STORM DRAIN PIPE FOR ROOF DOWNSPOUT AND OTHER MISCELLANEOUS CONNECTIONS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) SDR-35 PIPE AND SHALL MEET OR EXCEED ASTM D-3034 OR ASTM F-679, AS APPLICABLE. JOINTS SHALL BE GASKETED BELL AND SPIGOT TYPE WITH THE BELL END MADE INTEGRAL WITH THE PIPE. PIPE MATERIAL SUBSTITUTIONS SHALL BE REQUESTED IN WRITING TO ENGINEER.
- 3. A MINIMUM OF 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN THE OUTSIDE WALLS OF WATER MAINS, HYDRANTS AND SEWERS (SANITARY AND STORM). 4. INLETS, JUNCTION BOXES AND MANHOLES MUST BE SIZED PROPERLY TO ACCOMMODATE THE PROPOSED PIPE
- 5. PIPE LENGTHS SHOWN ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EXACT PIPE LENGTHS REQUIRED FOR INSTALLATION.

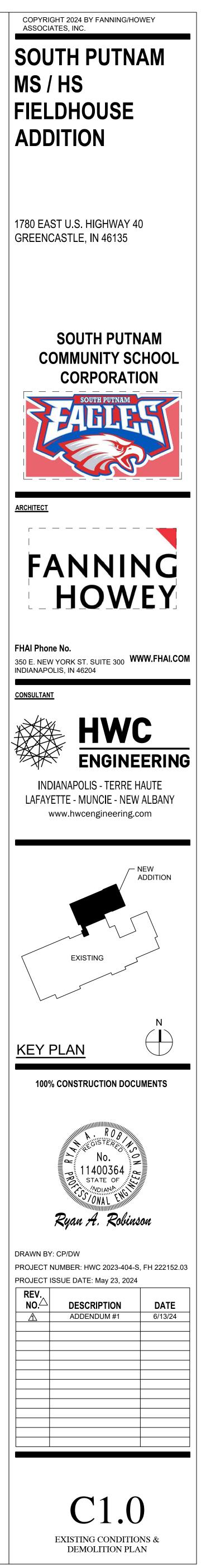
EROSION CONTROL NOTES:

- ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH PUTNAM COUNTY AND INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) STANDARDS AND SPECIFICATIONS. DISCREPANCIES BETWEEN THE PLANS AND THE JURISDICTIONAL REQUIREMENTS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STANDARDS AND SPECIFICATIONS.
- PERIMETER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY COMMENCING. CONTRACTOR SHALL BE RESPONSIBLE FOR SOIL AND EROSION CONTROL AND DUST CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN THE MEASURES THROUGHOUT THE
- CONSTRUCTION PERIOD TO PREVENT EROSION OF SOIL AND ENTRY OF SOIL-BEARING WATER AND AIRBORNE DUST ONTO ADJACENT PROPERTIES AND INTO THE PUBLIC STORM WATER FACILITIES. 4. THE EROSION CONTROL PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND
- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION. 5. ALL CLEARING, DEMOLITION, EARTHWORK AND GRADING SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- 6. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE. SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING. BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE OR STORM INLET.
- WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED. CONTRACTOR SHALL KEEP ALL PUBLIC ROADWAYS CLEAN AND FREE FROM ANY CONSTRUCTION RELATED
- ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY. REMOVAL OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- 9. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT AND AT LEAST ONCE PER WEEK.
- 10. PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC IF INSTALLATION OF STORM DRAINAGE SYSTEM IS INTERRUPTED FOR ANY REASON.
- 11. WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF THE SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM, ALTERNATIVE MEASURES OF SITE STABILIZATION ARE ACCEPTABLE IF THE CONTRACTOR CAN DEMONSTRATE THEY HAVE IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES ADEQUATE TO PREVENT SEDIMENT DISCHARGE.
- 12. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION, AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING, OR AS SOON AS POSSIBLE.
- 13. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.
- 14. INSTALL INLET PROTECTION ON STORM INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION AND REPLACE AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON ALL DISTURBED AREAS.
- 15. DETENTION BASINS, IF APPLICABLE, SHALL BE CONSTRUCTED FIRST AND SHALL PERFORM AS SEDIMENT BASINS DURING CONSTRUCTION UNTIL THE CONTRIBUTING DRAINAGE AREAS ARE SEEDED AND STABILIZED.
- 16. PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND PONDS TO DESIGNED GRADES.
- 17. CONTRACTOR SHALL REMOVE ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.

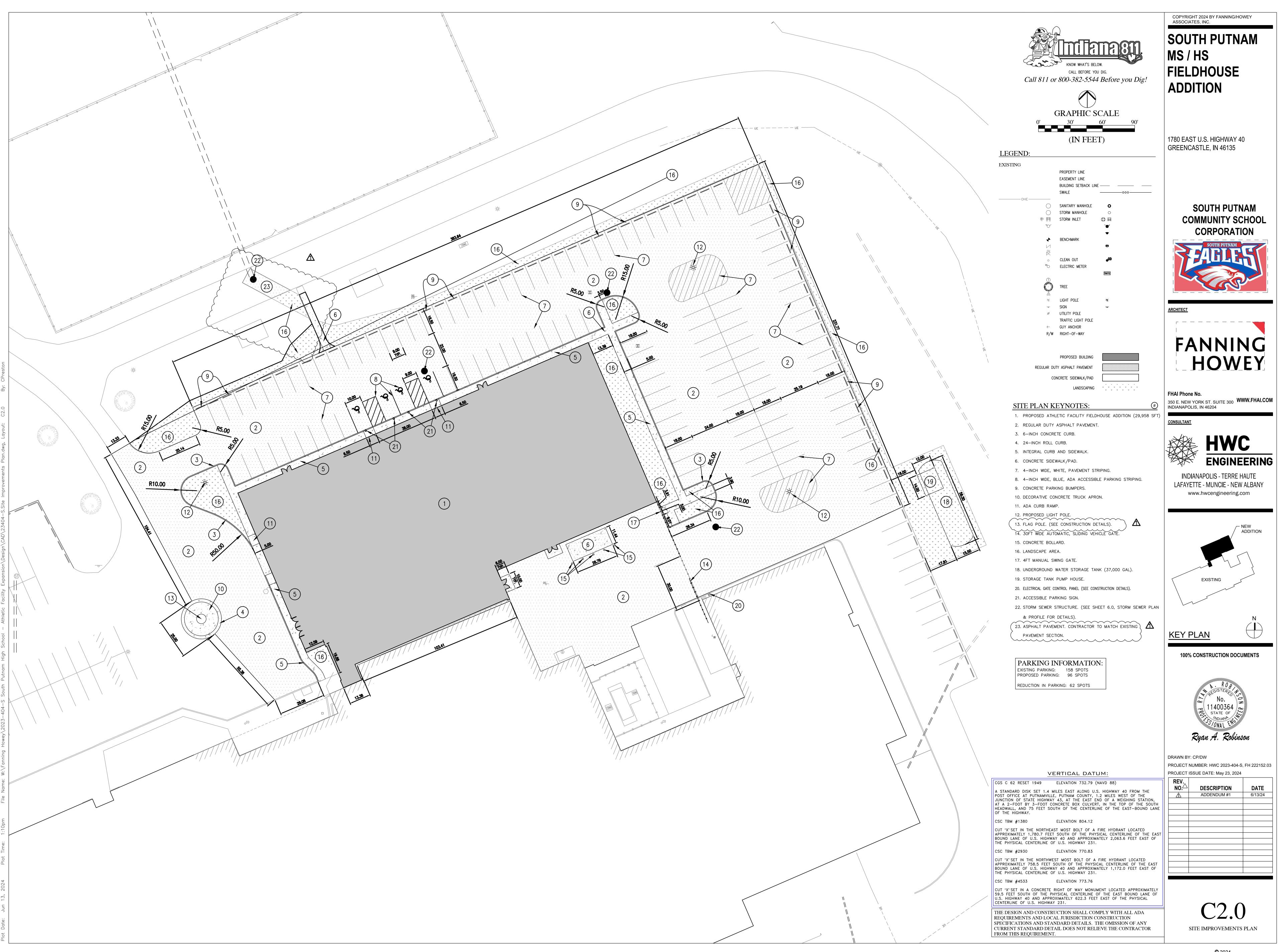
1. CONSTRUCTION OF STORM DRAINS SHALL BE IN ACCORDANCE WITH THE STORM SEWER SPECIFICATIONS OR

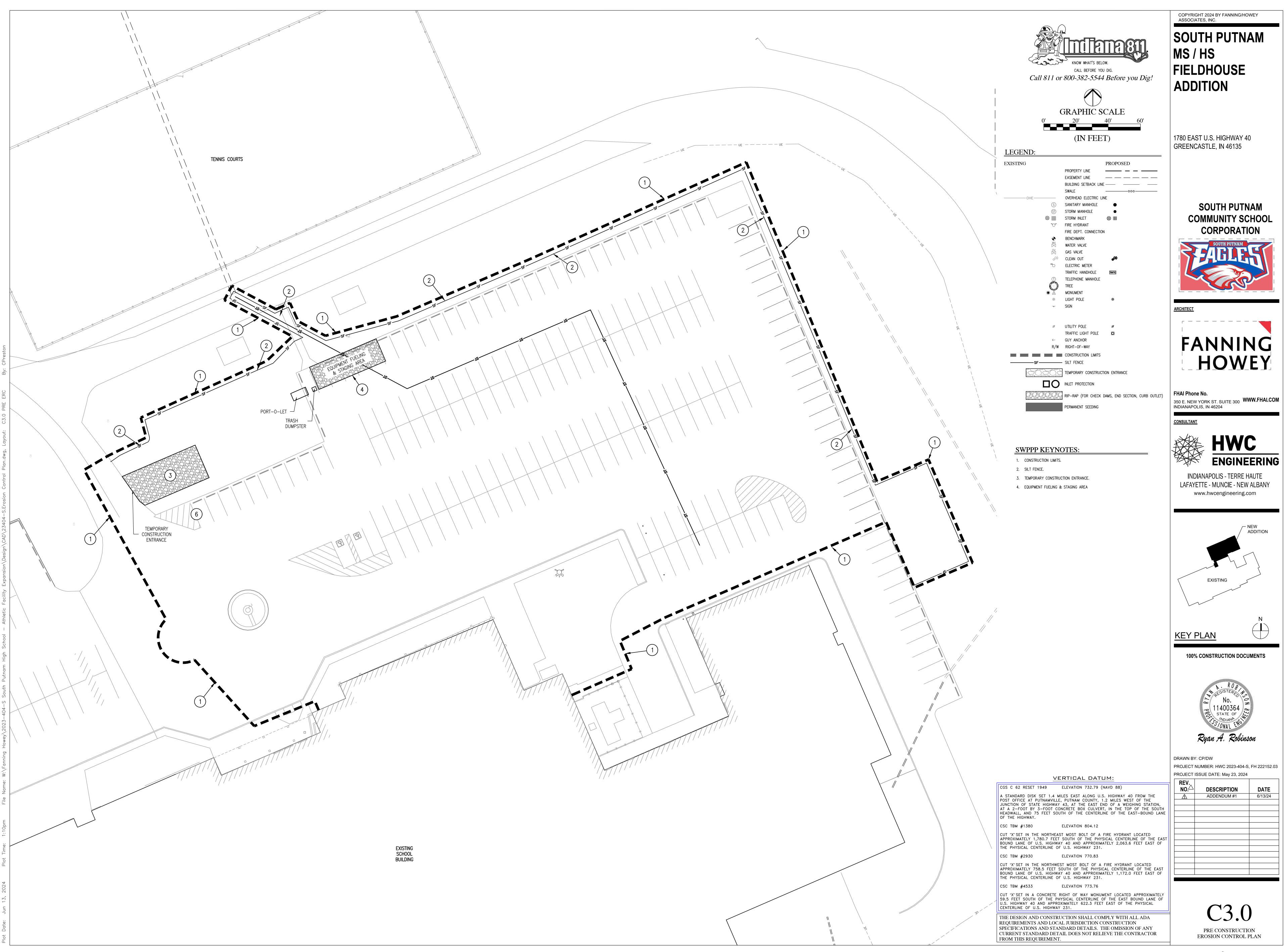




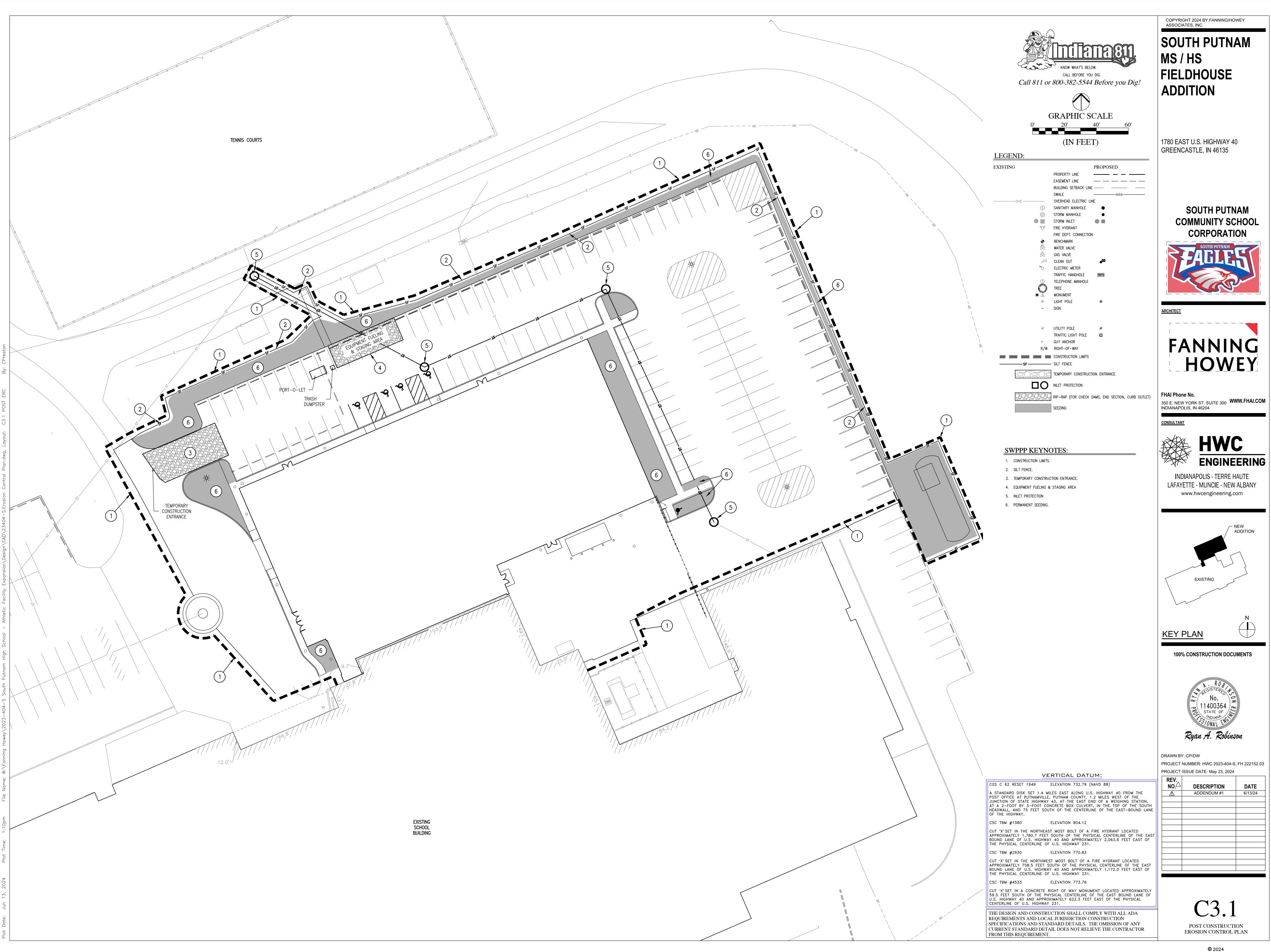


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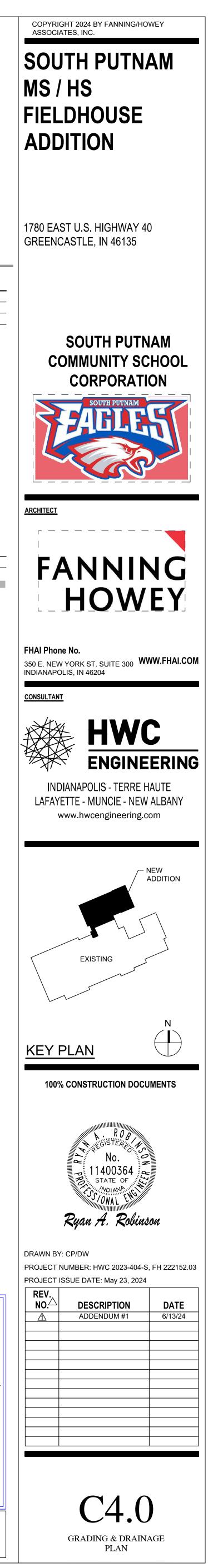




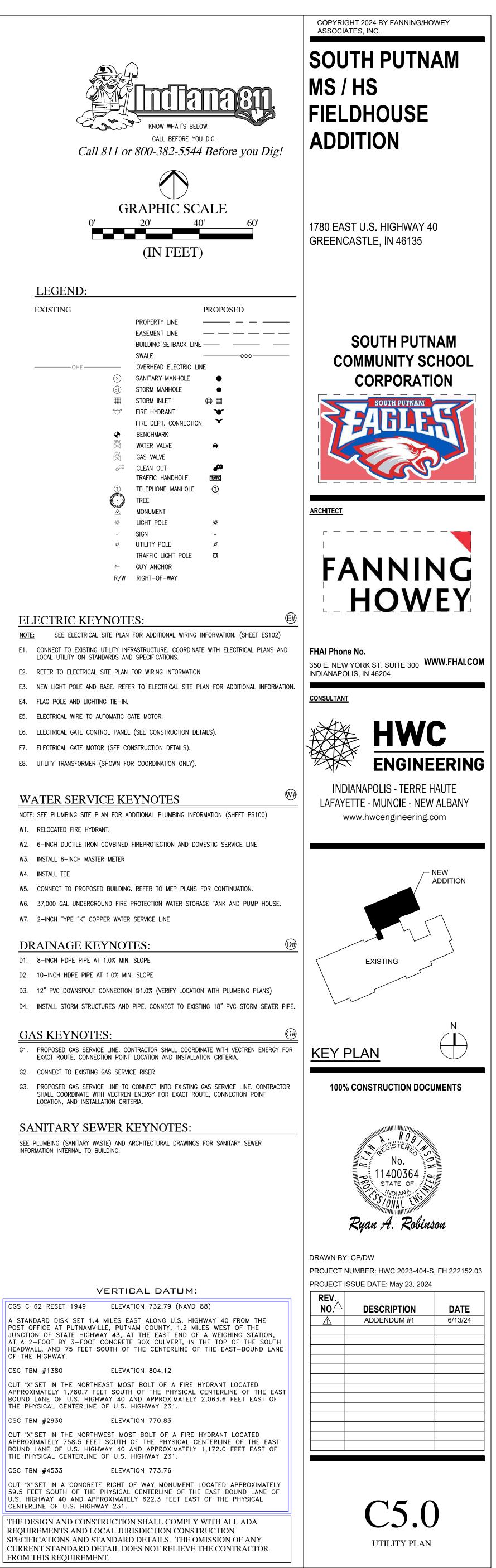
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- E4. FLAG POLE AND LIGHTING TIE-IN.
- E5. ELECTRICAL WIRE TO AUTOMATIC GATE MOTOR.
- E6. ELECTRICAL GATE CONTROL PANEL (SEE CONSTRUCTION DETAILS).
- E7. ELECTRICAL GATE MOTOR (SEE CONSTRUCTION DETAILS).

- W1. RELOCATED FIRE HYDRANT.
- W2. 6-INCH DUCTILE IRON COMBINED FIREPROTECTION AND DOMESTIC SERVICE LINE
- W3. INSTALL 6-INCH MASTER METER
- W4. INSTALL TEE
- W5. CONNECT TO PROPOSED BUILDING. REFER TO MEP PLANS FOR CONTINUATION.

- G2. CONNECT TO EXISTING GAS SERVICE RISER

SANITARY SEWER KEYNOTES:

A STANDARD DISK SET 1.4 MILES EAST ALONG U.S. HIGHWAY 40 FROM THE POST OFFICE AT PUTNAMVILLE, PUTNAM COUNTY, 1.2 MILES WEST OF THE JUNCTION OF STATE HIGHWAY 43, AT THE EAST END OF A WEIGHING STATION, AT A 2-FOOT BY 3-FOOT CONCRETE BOX CULVERT, IN THE TOP OF THE SOUTH HEADWALL, AND 75 FEET SOUTH OF THE CENTERLINE OF THE EAST-BOUND LANE OF THE HIGHWAY.

CSC TBM #1380

APPROXIMATELY 1,780.7 FEET SOUTH OF THE PHYSICAL CENTERLINE OF THE EAST BOUND LANE OF U.S. HIGHWAY 40 AND APPROXIMATELY 2,063.6 FEET EAST OF THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231.

CSC TBM #2930 CUT "X" SET IN THE NORTHWEST MOST BOLT OF A FIRE HYDRANT LOCATED

THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231.

CSC TBM #4533

59.5 FEET SOUTH OF THE PHYSICAL CENTERLINE OF THE EAST BOUND LANE OF U.S. HIGHWAY 40 AND APPROXIMATELY 622.3 FEET EAST OF THE PHYSICAL CENTERLINE OF U.S. HIGHWAY 231.

REOUIREMENTS AND LOCAL JURISDICTION CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



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		STORMWATER POLLUTIO	N PREVENTION PLAN INDEX
A1	PLAN INDEX VICINITY MAP	N/A	B12 SCHEDULE OF STORMWATER STORMWATER POLLUTION PREVENTION PLAN HAS BEEN DEVELOPED TO ELIMINATE QUALITY MEASURES RELATED TO SEDIMENT FROM LEAVING THE PROJECT DURING CONSTRUCTION ACTIVITIES PROTECTING
A2 A3	VICINITY MAP PROJECT TYPE	N/A THIS PROJECT IS: SOUTH PUTNAM HIGH SCHOOL ATHLETIC FACILITY EXPANSION. THIS PROJECT CONSISTS OF A 29,000 SFT BUILDING EXPANSION ON THE NORTH EAST	LAND DISTURBING ACTIVITIES ADJOINING PROPERTIES AND THE RECEIVING WATERS.
A4	LATITUDE AND LONGITUDE	CORNER OF THE EXISTING HIGH SCHOOL BUILDING. THE LATITUDE IS 39'35'02" AND LONGITUDE IS 86'48'57"	1 CONTRACTOR TO CALL INDIANA UNDERGROUND 811 BY CALLING 811 OR 800-382-5544 TO VERIFY LOCATION OF EXISTING UTILITIES TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION.
A5 A6	LEGAL DESCRIPTION 11X17 PLAT	N/A N/A	2 CONTRACTOR SHALL INSTALL STONE CONSTRUCTION ENTRANCE PRIOR TO THE START OF EARTHWORK IN ACCORDANCE WITH THE PLAN LOCATION ON SHEET C1.0.
A7 A8	100 YEAR FLOODPLAINS, FLOODWAYS AND FLOOD FF ADJACENT LAND USES	NORTH: HIGHWAY 40	3 CONTRACTOR TO INSTALL IDEM CONSTRUCTION STORMWATER GENERAL PERMIT INFORMATION POSTING, TRASH DUMPSTER, AND PORT-O-LET AS SHOWN ON SHEET C1.0.
		EAST: CENTRAL ELEMENTARY SCHOOL SOUTH: SOUTH PUTNAM HIGH SCHOOL WEST: HIGHWAY 231	4 CONTRACTOR TO INSTALL EXISTING STORM INLET PROTECTION AROUND THE PERIMETER OF THE SITE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL EVALUATE EXISTING EROSION CONTROL MEASURES AND USE AND MAINTAIN, REPLACE AS NECESSARY.
A9 A10	IDENTIFICATION OF U.S. EPA APPROVED OR ESTABLI TMDL RECEIVING WATERS	SHED N/A N/A	⁵ CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCE AROUND THE PERIMETER OF THE ENTIRE SITE (INCLUDING MASS GRADING AREAS OF FUTURE SECTIONS) AND ALL TREE PROTECTION FENCING ALONG THE NORTH & WEST BOUNDARY LINES PRIOR TO ANY EARTHWORK ACTIVITIES SUCH AS EARTH MOVING OR STRIPPING AS WELL AS TREE CLEARING.
A11	IDENTIFICATION OF DISCHARGES TO A WATER ON TH CURRENT 303(d) LIST OF IMPAIRED WATERS AND TH POLLUTANT(S) FOR WHICH IT IS IMPAIRED.	IE N/A	6 CONTRACTOR SHALL INSTALL CONCRETE WASHOUT AREA AND CONSTRUCTION STAGING AREA PRIOR TO THE START OF EARTHWORK ACTIVITIES AS SHOWN ON SHEETS C1.0. 7 DEWATERING: ALL CONTRACTORS AND VENDORS ARE RESPONSIBLE FOR PREPARING AN APPROPRIATE DEWATERING PLAN
A12 A13	SOILS MAP LOCATION OF WETLANDS, LAKES, WATER COURSES	N/A N/A	BASED ON NEED, WHICH CAN VARY FROM UTILITY INSTALLATION, LOWERING OF PONDS, HOME FOUNDATIONS/BASEMENTS ETC. IN NO CIRCUMSTANCES SHOULD DEWATERING OPERATIONS BEGIN BASED ON ASSUMPTION WATER IS CLEAN. OFTEN SEDIMENT LADEN WATER IS ENCOUNTERED TOWARDS THE END OF THE OPERATION AND NOT THE BEGINNING. DEWATERING
A14	ADJACENT TO SITE	N/A	REQUIRES INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT MONITORING, CLEANOUT, REPAIR AND/OR REPLACEMENTS. SUBMIT DEWATERING PLAN PRIOR TO COMMENCING WORK TO FORESTAR PROJECT MANAGER FOR APPROVAL. 8 ONCE PERIMETER ELEMENTS ARE INSTALLED, ANY UTILITY MODIFICATION OR RELOCATION PER SHEETS C1.1 CAN
A15	IDENTIFICATION OF EXISTING VEGETATIVE COVER, INCLUDING NATURAL BUFFERS	THE EXISTING SITE IS AN ASPHALT PARKING LOT. C0.1–C1.0	COMMENCE IN FINAL PREPARATION FOR MASS EARTHWORK OPERATIONS. ALL INTERIM FLOW REQUIREMENTS SUCH AS ROCK CHECK DAMS AND TEMPORARY SWALES SHALL BE COMPLETED PRIOR TO MASS EARTHWORK OPERATIONS. THESE MEASURES SHALL BE MAINTAINED AND ADJUSTED AS NEEDED UNTIL COMPLETION OF EARTHWORK AND THE SITE HAS BEEN FULLY STABILIZED. EROSION CONTROL ADJUSTMENTS DURING DIFFERENT PHASES OF CONSTRUCTION ARE LIKELY
A16	EXISTING SITE TOPOGRAPHY	SEE SHEETS C1.0	REQUIRED AND SUBJECT TO WEATHER CONDITIONS. CONSTRUCTION SCHEDULE
A17	LOCATION(S) WHERE RUNOFF ENTERS PROJECT SITE	SEE SHEETS C1.0.	9 BEGIN CLEARING AND GRADING ACTIVITIES AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND ITEMS 1—8 OF THE PRE-CONSTRUCTION SCHEDULE ARE COMPLETE. EARTHMOVING SHALL BE DONE IN A MANNER TO MINIMIZE
A18	LOCATION(S) WHERE RUNOFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE	E N/A	EROSION. CONTRACTOR SHALL VERIFY ALL EXISTING STORM SEWER AND UTILITY CONNECTION LOCATIONS AND ELEVATION PRIOR TO MOVING EARTH, CONTACT ENGINEER WITH ANY DISCREPANCIES. AS GRADING PROGRESSES, INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES TO CONTAIN SEDIMENT ON SITE. 10 CONTRACTOR SHALL STRIP TOPSOIL AND GRADE THE SITE PER PLAN AND PLACE PERMANENT AND TEMPORARY SEED AS
			INDICATED ON THE PLAN, INCLUDING SEEDING WITH FIBER BLANKET ON MOUNDS, POND BANKS, SWALES. DURATION OF EXPOSED AREAS SHALL BE KEPT MINIMAL DEPENDANT ON WEATHER. ALL POTENTIALLY IDLE AREAS SHALL INITIATE STABILIZATION ON THE SEVENTH DAY (7 DAYS) SUCH AS TEMPORARY SEEDING AND MULCH. THE STABILIZATION
A19 A20	LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE. EXISTING PERMANENT RETENTION OR DETENTION	N/A N/A	ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION PER IDEM CONSTRUCTION STORMWATER GENERAL PERMIT. 11 PERMANENT AND FINAL VEGETATION, IN ADDITION TO STRUCTURAL MEASURES, SHALL BE INSTALLED AS SOON AS
A21	FACILITIES, INCLUDING MANMADE WETLANDS ,DESIGNI FOR THE PURPOSE OF STORMWATER MANAGEMENT. LOCATIONS WHERE STORMWATER MAY BE DIRECTLY	ED	PRACTICAL PER SHEETS C1.7-C1.8. 12 INSTALL STORM SEWER SYSTEM, SUBSURFACE DRAINAGE SYSTEM, AND SWALES. ALL STORM SEWER INLET PROTECTION SUBJECT OF A STALLED AT THE TIME FACILITY OF A CONSTRUCTED PER SUFERS C1.7. C1.8.
	DISCHARGED INTO GROUNDWATER, SUCH AS ABANDO WELLS, SINKHOLES, OR KARST FEATURES		SHALL BE INSTALLED AT THE TIME EACH INLET IS CONSTRUCTED PER SHEETS C1.7-C1.8. 13 CONTRACTOR SHALL INSTALL REMAINING UTILITIES AND RE-SEED ALL DISTURBED AREAS.
A23	PROJECT AREA LAND DISTURBANCE	0.00 ACRES 0.00 ACRES	14 CONTRACTOR SHALL INSTALL ALL STREETS AS INDICATED ON PLANS.
A24 A25	PROPOSED SITE TOPOGRAPHY LOCATIONS AND BOUNDARIES OF DISTURBED AREAS	SEE SHEETS C1.2 SEE SHEETS C1.0-C1.1	15 INSTALL LOT SPECIFIC BMPs INCLUDING WASTE RECEPTACLES, CURB LINE BMPs, WASHOUTS, AND STABILIZED ENTRANCES.
A26 A27	LOCATIONS, SIZES, DIMENSIONS OF PROPOSED STORMWATER SYSTEM POINTS WHERE STORMWATER WILL DISCHARGE SITE	N/A N/A	16 INSTALL HOME (VERTICAL) CONSTRUCTION CONCRETE WASHOUT. FORESTAR PROJECT MANAGER TO ORDER PREFABRICATED CONCRETE WASHOUT LOW PROFILE DUMPSTER FROM "CONSTRUCTION WASTE" COMPANY AND PROVIDE DIRECTION ON LOCATION FOR INSTALLATION. SEE DETAIL THIS SHEET.
			17 BUILDING FOUNDATION EXCAVATIONS.
			18 VERTICAL CONSTRUCTION AND HOME BUILDING. 19 INSTALL PERMANENT OR TEMPORARY SOIL STABILIZATION AND LANDSCAPING.
A28	LOCATION OF ALL PROPOSED SITE IMPROVEMENTS,	SEE SHEETS C1.2-C1.3	20 CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION AND UNTIL
A29	INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES AND COMM AREAS. LOCATION OF SOIL STOCKPILE		SEDIMENTATION OF STREETS AND STORM SEWERS NO LONGER OCCURS. CONTRACTOR SHALL INSPECT ON A WEEKLY BASIS OR AFTER A SIGNIFICANT STORM EVENT (AN EVENT OF AT LEAST 0.5 INCHES OF RAINFALL). SEE SHEETS C8.0-C8.1 FOR DETAILS AND SPECIFICATIONS.
A30	CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPE		21 COMPLETE FINAL GRADING AND INSTALL SEEDING AND LANDSCAPING. STABILIZE ALL REMAINING EXPOSED AREAS AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES.
A31	LOCATION OF ANY IN STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDED BUT NOT LIN TO, STREAM CROSSINGS AND PUMP AROUNDS		22 ALL EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH IDEM CONSTRUCTION STORMWATER GENERAL PERMIT. B13 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS
D1			SEE SHEET C8.2 B14 MATERIAL HANDLING AND SPILL PREVENTION PLAN
B1	CONSTRUCTION ACTIVITIES WAS OPE ON COA INFI ASS	DED SOILS AND SEDIMENTS; OILS, GREASES, COOLANTS, CONCRETE SHOUT, PETROLEUM FUELS AND OTHER FLUIDS ASSOCIATED WITH ERATION AND MAINTENANCE OF CONSTRUCTION EQUIPMENT PRESENT THE SITE; DEBRIS INCLUDING CUTTINGS, SEALANTS, ADHESIVES, AND ATINGS ASSOCIATED WITH INSTALLATION OF UNDERGROUND PIPES, RASTRUCTURE AND CONSTRUCTION OF THE BUILDING; PAINTS SOCIATED WITH PAVEMENT MARKING; FERTILIZERS ASSOCIATED WITH	MATERIAL HANDLING: 1. THE PROPER MANAGEMENT AND DISPOSAL OF WASTE SHOULD BE PRACTICED ON SITE AT ALL TIMES TO REDUCE POLLUTION OF STORM WATER RUNOFF. HAZARDOUS WASTE SHOULD ALWAYS BE DISPOSED OF THROUGH A DESIGNATED HAZARDOUS WASTE MANAGEMENT OR RECYCLING FACILITY. 2.DESIGNATE A WASTE COLLECTION AREA ON-SITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY INTO A WATER BODY.
B2	STABLE CONSTRUCTION ENTRANCE LOCATION TEM	DING AND PLANTING. IPORARY GRAVEL CONSTRUCTION ENTRANCE R LOCATION: SEE SHEETS C1.0 AND C1.1	3.KEEP PRODUCTS IN ORIGINAL CONTAINERS WITH ORIGINAL LABELS AND MATERIAL SAFETY DATA INFORMATION ATTACHED. MAKE SURE PRODUCTS ARE PROPERLY SEALED TO PREVENT LEAKS AND SPILLS AND STORED IN A WEATHER PROOF SELF CONTAINED AREA AWAY FROM HEAT, SPARKS AND FLAMES.
В3	FOR TEMPORARY AND PERMANENT STABILIZATION TEM	R DETAIL: SEE SHEET CO.2 PORARY SEEDING IS REQUIRED FOR ANY POTENTIAL IDLE AREA AND	 4.A PROGRAM FOR RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE SHALL BE ESTABLISHED BY THE CONTRACTOR. ALL RECYCLING CONTAINERS SHALL BE CLEARLY LABELED. 5.ALL CONSTRUCTION ACTIVITIES ARE TO BE MONITORED AND MAINTAINED BY THE CONTRACTOR. AS EACH NEW SUBCONTRACTOR COMES ON-SITE, THE CONTRACTOR WILL CONDUCT AND DOCUMENT A MEETING TO ENSURE AWARENESS OF
	AS MUS PEF SEE FUT GRA FOF	ST INITIATE STABILIZATION ON THE SEVENTH DAY (7 DAYS) SUCH TEMPORARY SEEDING AND MULCH. THE STABILIZATION ACTIVITY ST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION CONSTRUCTION STORMWATER GENERAL PERMIT. TEMPORARY DING IS ALSO REQUIRED IN AREAS THAT WILL BE DISTURBED IN FURE PROJECTS. THIS SEEDING WILL BE PLACED AFTER FINISH ADING AND TOPSOIL REPLACEMENT. COCATIONS: SEE SHEETS C1.1	THE POLLUTANT PREVENTION PROGRAM. GUIDELINES FOR PROPER HANDLING, STORAGE AND DISPOSAL OF CONSTRUCTION SITE WASTES SHALL BE POSTED IN THE STORAGE AND USE AREAS, AND WORKERS SHALL BE TRAINED IN THESE PRACTICES. 6.CONTAINERS AND EQUIPMENT MUST BE INSPECTED REGULARLY FOR LEAKS, CORROSION, SUPPORT OR FOUNDATION FAILURE, OR ANY OTHER SIGNS OF DETERIORATION AND MUST BE TESTED FOR SOUNDNESS. ANY FOUND TO BE DEFECTIVE SHOULD BE REPAIRED OR REPLACED IMMEDIATELY. SPILL PREVENTION PLAN:
	PER ERC WITI SAN TOF	R NOTES AND SCHEDULE: SEE SHEET CO.3 RMANENT SEEDING WILL BE APPLIED WITH THE INSTALLATION OF THE DSION CONTROL BLANKETS AROUND THE PONDS, EMBANKMENTS, H THE COMPLETION OF STORM DRAINAGE SYSTEM, SWALES, NITARY SEWER AND WATER LINES, AND AFTER REPLACEMENT OF PSOIL AS DESCRIBED IN THE CONSTRUCTION SEQUENCING. R LOCATIONS: SEE SHEETS C1.1	PURPOSE: THE INTENTION OF THIS SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) IS TO ESTABLISH THE PROCEDURES AND EQUIPMENT REQUIRED TO PREVENT THE DISCHARGE OF OIL AND HAZARDOUS SUBSTANCES IN QUANTITIES THAT VIOLATE APPLICABLE WATER QUALITY STANDARDS, CAUSE A SHEEN UPON OR DISCOLORATION OF THE SURFACE OF NAVIGABLE WATERS OR ADJOINING SHORELINES, OR CAUSE SLUDGE OR EMULSION TO BE DEPOSITED BENEATH THE SURFACE OF THE WATER OR ADJOINING SHORELINES. THE PLAN ALSO ESTABLISHES THE ACTIVITIES REQUIRED TO MITIGATE SUCH DISCHARGES (I.E., COUNTERMEASURES) SHOULD THEY OCCUR.
Β4	FOR SEDIMENT CONTROL FOR CONCENTRATED FLOW ROO AREAS ERC REE	R NOTES AND SCHEDULE: SEE SHEET CO.3 CK CHECK DAMS, TEMPORARY DIVERSION SWALES, SEDIMENT TRAPS, DSION CONTROL BLANKETS AND RIP-RAP WILL BE INSTALLED TO DUCE VELOCITY AND COLLECT SEDIMENT RUNOFF.	, DEFINITIONS: POLLUTANT: MEANS POLLUTANT OF ANY KIND OR IN ANY FORM, INCLUDING BUT NOT LIMITED TO SEDIMENT, PAINT, CLEANING AGENT, CONCRETE WASHOUT, PESTICIDES, NUTRIENTS, TRASH, HYDRAULIC FLUIDS, FUEL, OIL, PETROLEUM, FUEL OIL, SLUDGE, OIL REFUSE, AND OIL MIXED WITH WASTES OTHER THAN DREDGED SOIL.
В5	FOR SEDIMENT CONTROL FOR SHEET FLOW AREAS SIL	R LOCATIONS: SEE SHEETS C1.1 R DETAILS: SEE SHEETS C0.2 T FENCE WILL BE INSTALLED ALONG THE PERIMETER OF THE DJECT TO COLLECT SEDIMENT RUNOFF.	DISCHARGE: INCLUDES BUT IS NOT LIMITED TO, ANY SPILLING, LEAKING, PUMPING, POURING, EMITTING, EMPTYING, OR DUMPING.
В6	FOR FOR RUNOFF CONTROL MEASURES ALM	R LOCATIONS: SEE SHEETS C1.0-C1.1 R DETAIL: SEE SHEET C0.2 MOST ALL OF THE EROSION CONTROL MEASURES USED AT THIS SITE N BE VIEWED AS RUNOFF CONTROL MEASURES. CONSTRUCTION	NAVIGABLE WATERS: MEANS ALL WATERS OF THE UNITED STATES THAT ARE CONNECTED WITH A NAVIGABLE STREAM, LAKE, OR SEA. [NOTE: THIS DEFINITION IS USUALLY INTERPRETED TO MEAN ANY WASTEWATER (EVEN NORMALLY DRY WASH OR STORM SEWER) THAT EVENTUALLY DRAINS INTO A NAVIGABLE STREAM].
	ENT CRI SED	RANCE STABILIZES EARTH TO MINIMIZE SEDIMENT RUNOFF AT TICAL LOCATIONS OF ACCESS POINTS TO THE SITE TO MINIMIZE MENT TRACKING ON STREETS. CONCRETE WASHOUT AREA ARE POSAL AREAS FOR CONTAINMENTS AND ACCESSIBLE FOR CLEANUP	PLAN REVIEW AND AMENDMENTS: THIS PLAN SHALL BE REVIEWED AND/OR AMENDED, IF NECESSARY, WHENEVER THERE IS A CHANGE IN THE DESIGN OF THE SITE, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH MATERIALLY AFFECTS THE SITE'S POTENTIAL FOR THE DISCHARGE OF REGULATED MATERIAL.
	ANI COL RED	D REMOVAL OFFSITE. SILT FENCE AND INLET PROTECTION MEASURES LECT SEDIMENT LADEN RUNOFF PRIOR TO LEAVING SITE. RIP RAP DUCES THE ENERGY OF THE RUNOFF AND THUS REDUCES POTENTIAL	PREDICTION OF POTENTIAL SPILLS: 1. NEAREST NAVIGABLE WATER: INDIAN CREEK-SAND CREEK
	INC SED FOR	R EROSIVE SOILS. EROSION CONTROL BLANKETS ANCHOR MATTING TO REASE SEED GERMINATION AND STABILIZE SLOPES TO MINIMIZE DIMENT RUNOFF. R LOCATIONS: SEE SHEETS C1.0-C.1 R DETAILS: SEE SHEETS C0.2	2.DRAINAGE SYSTEM: ALL STORM DRAINAGE LEAVES THE SITE THROUGH PROPOSED STORM SEWER THAT OUTLETS TO THE EXISTING LEGAL DRAIN WEST OF THE DEVELOPMENT. 3.POSSIBLE SPILL SOURCES (DURING AND POST CONSTRUCTION): VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, GREASE, ANTIFREEZE; TRASH AND DEBRIS, BIOLOGICAL AGENTS FOUND IN TRASH AND DEBRIS, FERTILIZERS, HOUSEHOLD ITEMS INCLUDING BUT NOT LIMITED TO CLEANING AGENTS, CHEMICALS, PAINT, HERBICIDES AND PESTICIDES.
B7	STORMWATER OUTLET PROTECTION RIP	RAP WILL BE INSTALLED AT ALL STORM PIPE OUTLETS INTO THE NDS, AND ALL POND OUTLETS AS OUTLET PROTECTION (IF PLICABLE).	4. GROUNDWATER CONTAMINATION: THE FACILITY MAINTAINS NO ABOVE GROUND OR UNDER GROUND STORAGE TANKS AT THIS SITE. THEREFORE, IT IS FELT THAT THERE IS LITTLE OR NO POSSIBILITY OF POST CONSTRUCTION GROUNDWATER CONTAMINATION. THE FACILITY DOES HAVE PUBLIC SANITARY SEWER AND PUBLIC WATER.
B8	FOR	R LOCATIÓNS: SEE SHEETS C1.0–C1.1 R DETAILS: SEE SHEET C0.2	ALERT PROCEDURES FOR SPILLS: 1. ANY PERSONNEL_OBSERVING A SPILL WILL IMMEDIATELY INSTIGATE THE FOLLOWING PROCEDURE:
во В9	DEWATERING APPLICATIONS AND MANAGEMENT ALL METHODS AN	CONTRACTORS AND VENDORS ARE RESPONSIBLE FOR PREPARING APPROPRIATE DEWATERING PLAN BASED ON NEED, WHICH CAN	A. DIALING "911" FROM ANY TELEPHONE. B. NOTIFY THE APPROPRIATE EMERGENCY PERSONNEL.
	FOL DEV	RY FROM UTILITY INSTALLATION, LOWERING OF PONDS, HOME JNDATIONS/BASEMENTS ETC. IN NO CIRCUMSTANCES SHOULD WATERING OPERATIONS BEGIN BASED ON ASSUMPTION WATER IS	2. THE EMERGENCY COORDINATOR WILL THEN TAKE THE FOLLOWING ACTIONS: A. BARRICADE THE AREA ALLOWING NO VEHICLES TO ENTER OR LEAVE THE SPILL ZONE. B. NOTIFY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF EMERGENCY RESPONSE BY CALLING THE APPROPRIATE TELEPHONE NUMBER:
	THE	AN. OFTEN SEDIMENT LADEN WATER IS ENCOUNTERED TOWARDS E END OF THE OPERATION AND NOT THE BEGINNING. DEWATERING QUIRES INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT NITORING. CLEANOUT. REPAIR AND/OR REPLACEMENTS. SUBMIT	APPROPRIATE TELEPHONE NUMBER: OFFICE 317-233-7745 TOLL FREE 800-233-7745 ALSO THE NATIONAL RESPONSE CENTER AT 800-424-8802 AND PROVIDE THE FOLLOWING INFORMATION:
_	DEV PRC	WATERING PLAN PRIOR TO COMMENCING WORK TO FORESTAR DJECT MANAGER FOR APPROVAL.	 TIME OF OBSERVATION OF THE SPILL LOCATION OF THE SPILL IDENTITY OF MATERIAL SPILLED
B10 B11		NE E SHEETS CO.3	 PROBABLE SOURCE OF THE SPILL PROBABLE TIME OF THE SPILL VOLUME OF THE SPILL AND DURATION PRESENT AND ANTICIPATED MOVEMENT OF THE SPILL
	PROPOSED STORMWATER QUALITY MEASURE		 PRESENT AND ANTICIPATED MOVEMENT OF THE SPILL WEATHER CONDITIONS DEPRONUEL AT THE SCENE

G. COOPERATE WITH THE IDEM-OER ON PROCEDURES AND REPORTS INVOLVED WITH THE EVENT. CLEANLIP PARAMETERS 1. THE DEVELOPER SHALL BE CONTINUALLY KEPT INFORMED, MAINTAIN LISTS OF QUALIFIED CONTRACTORS AND AVAILABLE VAC-TRUCKS, TANK PUMPERS AND OTHER EQUIPMENT READILY ACCESSIBLE FOR CLEAN-UP OPERATIONS. IN ADDITION, A CONTINUALLY UPDATED LIST OF AVAILABLE ABSORBENT MATERIALS AND CLEAN-UP SUPPLIES SHOULD BE KEPT ON SITE. 2. ALL MAINTENANCE PERSONNEL WILL BE MADE AWARE OF TECHNIQUES FOR PREVENTION AND CONTAINMENT OF SPILLS. THEY WILL BE INFORMED OF THE REQUIREMENTS AND PROCEDURES OUTLINED IN THIS PLAN. THEY WILL BE KEPT ABREAST OF CURRENT DEVELOPMENTS OR NEW INFORMATION ON THE PREVENTION OF SPILLS AND/OR NECESSARY ALTERATIONS TO THIS 3. IF SPILLS OCCUR WHICH COULD ENDANGER HUMAN LIFE, THIS BECOMES THE PRIMARY CONCERN. THE DISCHARGE OF THE LIFE SAVING PROTECTION FUNCTION WILL BE CARRIED OUT BY THE LOCAL POLICE AND FIRE DEPARTMENTS. 4. 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. 5. FLUSHING OF SPILLED MATERIAL WITH WATER WILL NOT BE PERMITTED UNLESS SO AUTHORIZED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

FOR CLEANUP.

FLIMINATED

ACTION INITIATED BY PERSONNE

VEHICLE & EQUIPMENT MAINTENANCE

LIMITATIONS

DESCRIPTION AND PURPOSE IMMEDIATELY.

SUITABLE APPLICATIONS: STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES.

TER POLLUTION PREVENTION PLAN HAS BEEN DEVELOPED TO ELIMINATE ROM LEAVING THE PROJECT DURING CONSTRUCTION ACTIVITIES PROTECTING PROPERTIES AND THE RECEIVING WATERS.

C. NOTIFY THE CITY OF MARTINSVILLE FIRE DEPARTMENT PHONE: (765) 342-2343 D. NOTIFY THE CITY OF MARTINSVILLE POLICE DEPARTMENT PHONE: (765) 342-2343

E. NOTIFY WASTE RECOVERY CONTRACTOR, MAINTENANCE PERSONNEL OR OTHER CONTRACTUAL PERSONNEL AS NECESSARY F. COORDINATE AND MONITOR CLEANUP UNTIL THE SITUATION HAS BEEN STABILIZE AND ALL SPILLS HAVE BEEN

B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY

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

THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE AN ONSITE YARD AREA IS NECESSARY FOR

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 BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE /EXIT. OUTDOOR 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

VEHICLE & EQUIPMENT MAINTENANCE

DESCRIPTION AND PURPOSE 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 OFESITE 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. SUITABLE APPLICATIONS: THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE AN ONSITE YARD AREA IS

B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY

NECESSARY FOR STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES. LIMITATIONS: ONSITE VEHICLE AND EQUIPMENT MAINTENANCE SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND FOLIPMENT OFFSITE FOR MAINTENANCE AND REPAIR SENDING VEHICLES FOLIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE / EXIT. OUTDOOR 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).

IMPLEMENTATION: 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 WATERCOURSES.

DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT MAINTENANCE WORK THAT INVOLVES FLUIDS, UNLESS THE MAINTENANCE WORK IS PERFORMED OVER AN 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, OR REMOVE FROM SITE. KEEP VEHICLES AND EQUIPMENT CLEAN; DO NOT ALLOW EXCESSIVE BUILD-UP OF OIL AND GREASE.

SEGREGATE AND RECYCLE WASTES, SUCH AS GREASES, USED OIL OR OIL FILTERS, ANTIFREEZE, CLEANING SOLUTIONS, AUTOMOTIVE BATTERIES, HYDRAULIC AND TRANSMISSION FLUIDS. PROVIDE SECONDARY CONTAINMENT AND COVERS FOR THESE MATERIALS IF STORED ONSITE.

TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER MAINTENANCE AND SPILL CLEANUP PROCEDURES. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. DO NOT PLACE USED OIL IN A DUMPSTER OR POUR INTO A STORM DRAIN OR WATERCOURSE.

PROPERLY DISPOSE OF OR RECYCLE USED BATTERIES. DO NOT BURY USED TIRES.

REPAIR LEAKS OF FLUIDS AND OIL IMMEDIATELY.

KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE. MAINTAIN WASTE FLUID CONTAINERS IN LEAK PROOF CONDITION.

VEHICLE AND EQUIPMENT FUELING DESCRIPTION AND PURPOSE

VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY USING OFFSITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY, ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES.

LIMITATIONS ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND FOUIPMENT OFFSITE FOR FUELING. SENDING VEHICLES AND EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT.

USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE. THESE BUSINESSES ARE BETTER EQUIPPED TO HANDLE FUEL AND SPILLS PROPERLY. PERFORMING THIS WORK OFFSITE CAN ALSO BE ECONOMICAL BY ELIMINATING THE NEED FOR A SEPARATE FUELING AREA AT A SITE. DISCOURAGE "TOPPING OFF' OF FUEL TANKS.

ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHOULD BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS AND SHOULD BE DISPOSED OF PROPERLY AFTER USE. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA.

USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS.

TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES. DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL GRADE AREAS.

PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN SPILLS NOZZLES USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED.

FEDERAL, STATE, AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS. VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE

REPAIRED IMMEDIATELY, OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE.

IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP MATERIALS.

THE FOLLOWING STEPS WILL HELP REDUCE STORMWATER POLLUTION FROM CONCRETE WASTES: DISCUSS THE CONCRETE MANAGEMENT TECHNIQUES DESCRIBED IN THIS BMP (SUCH AS HANDLING OF CONCRETE WASTE AND WASHOUT) WITH THE READY MIX CONCRETE SUPPLIER BEFORE ANY DELIVERIES ARE MADE

INCORPORATE REQUIREMENTS FOR CONCRETE WASTE MANAGEMENT INTO MATERIAL SUPPLIES AND SUBCONTRACTOR AGREEMENTS.

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. FOR ONSITE WASHOUT:

LOCATE WASHOUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. 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.

SOLID WASTE MANAGEMENT DESCRIPTION AND PURPOSE

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.

SUITABLE APPLICATIONS THIS BMP IS SUITABLE FOR CONSTRUCTION SITES WHERE THE FOLLOWING WASTES ARE GENERATED OR SOLID WASTE GENERATED FROM TREES AND SHRUBS REMOVED DURING LAND CLEARING, DEMOLITION OF EXISTING STRUCTURES (RUBBLE), 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, NONHAZARDOUS EQUIPMENT PARTS, STYROFOAM AND OTHER MATERIALS FROM

TRANSPORT AND PACKAGE CONSTRUCTION MATERIALS IMPLEMENTATION SELECT DESIGNATED WASTE COLLECTION AREAS ONSITE.

INFORM 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 (USED OILS, SOLVENTS, AND PAINTS) AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNATED 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. INCORPORATE REQUIREMENTS FOR SOLID WASTE MANAGEMENT INTO BUILDER AND SUBCONTRACTOR AGREEMENTS.

LITTERING ON THE PROJECT SITE SHOULD BE PROHIBITED. TO PREVENT CLOGGING OF THE STORM DRAINAGE SYSTEM, LITTER AND DEBRIS REMOVAL FROM DRAINAGE GRATES, TRASH RACKS, AND DITCH LINES SHOULD BE A PRIORITY.

TRASH RECEPTACLES SHOULD BE PROVIDED IN THE CONTRACTOR'S YARD, FIELD TRAILER AREAS, AND AT LOCATIONS WHERE WORKERS CONGREGATE FOR LUNCH AND BREAK PERIODS.

LITTER FROM WORK AREAS WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SITE SHOULD BE COLLECTED AND PLACED IN WATERTIGHT DUMPSTERS AT LEAST WEEKLY, REGARDLESS OF WHETHER THE LITTER WAS GENERATED BY THE CONTRACTOR, THE PUBLIC, OR OTHERS. COLLECTED LITTER AND DEBRIS SHOULD NOT BE PLACED IN OR NEXT TO DRAIN INLETS, STORMWATER DRAINAGE SYSTEMS, OR WATERCOURSES.

GENERATED BY THE PROJECT. FULL DUMPSTERS SHOULD BE REMOVED FROM THE PROJECT SITE AND THE CONTENTS SHOULD BE DISPOSED OF BY THE TRASH HAULING CONTRACTOR.

DUMPSTERS OF SUFFICIENT SIZE AND NUMBER SHOULD BE PROVIDED TO CONTAIN THE SOLID WASTE

CONSTRUCTION DEBRIS AND WASTE SHOULD BE REMOVED FROM THE SITE BIWEEKLY OR MORE FREQUENTLY AS NEEDED.

CONSTRUCTION MATERIAL VISIBLE TO THE PUBLIC SHOULD BE STORED OR STACKED IN AN ORDERLY MANNFR. STORMWATER RUNON SHOULD BE PREVENTED FROM CONTACTING STORED SOLID WASTE THROUGH THE USE OF BERMS, DIKES, OR OTHER TEMPORARY DIVERSION STRUCTURES OR THROUGH THE USE OF MEASURE TO ELEVATE WASTE FROM SITE SURFACES.

SOLID WASTE STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT. FROM DRAINAGE FACILITIES AND WATERCOURSES AND SHOULD NOT BE LOCATED IN AREA PRONE TO FLOODING OR PONDING. NSPECTION AND MAINTENANCE INSPECT CONSTRUCTION WASTE AREA WEEKLY. ARRANGE FOR REGULAR WASTE COLLECTION.

DEWATERING AND PUMPING OPERATIONS ESCRIPTION AND PURPO

IMITATIONS

PERMITS

FSCRIPTION

MEASURES:

DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF POLLUTANTS WHEN NON-STORMWATER AND ACCUMULATED PRECIPITATION MUST BE REMOVED FROM A WORK LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED. SUITABLE APPLICATIONS

THESE PRACTICES ARE IMPLEMENTED FOR DISCHARGES OF NON-STORMWATER FROM CONSTRUCTION SITES. NON-STORMWATERS INCLUDE, BUT ARE NOT LIMITED TO, GROUNDWATER, WATER FROM COFFERDAMS. WATER DIVERSIONS. AND WATERS USED DURING CONSTRUCTION ACTIVITIES THAT MUST BE REMOVED FROM A WORK AREA. PRACTICES IDENTIFIED IN THIS SECTION ARE ALSO APPROPRIATE FOR IMPLEMENTATION WHEN MANAGING THE REMOVAL OF ACCUMULATED PRECIPITATION (STORMWATER) FROM DEPRESSED AREAS AT A CONSTRUCTION SITE.

SITE CONDITIONS WILL DICTATE DESIGN AND USE OF DEWATERING OPERATIONS. THE CONTROLS DISCUSSED IN THIS BEST MANAGEMENT PRACTICE (BMP) ADDRESS SEDIMENT ONLY. THE CONTROLS DETAILED IN THIS 3MP ONLY ALLOW FOR MINIMAL SETTLING TIME FOR SEDIMENT PARTICLES. USE ONLY WHEN SITE CONDITIONS RESTRICT THE USE OF THE OTHER CONTROL METHODS. DEWATERING OPERATIONS WILL REQUIRE, AND MUST COMPLY WITH, APPLICABLE LOCAL

MPI EMENTATION DEWATERING DISCHARGES MUST NOT CAUSE EROSION AT THE DISCHARGE POINT. A VARIETY OF METHODS CAN BE USED TO TREAT WATER DURING DEWATERING OPERATIONS. SEVERAL DEVICES ARE PRESENTED BELOW AND PROVIDE OPTIONS TO ACHIEVE SEDIMENT REMOVAL. THE SIZE OF PARTICLES PRESENT IN THE SEDIMENT AND PERMIT OR RECEIVING WATER LIMITATIONS ON SEDIMENT ARE KEY CONSIDERATIONS FOR SELECTING SEDIMENT TREATMENT OPTION(S); IN SOME CASES, THE USE OF MULTIPLE DEVICES MAY BE APPROPRIATE.

A SEDIMENT TRAP IS A TEMPORARY BASIN FORMED BY EXCAVATION AND/OR CONSTRUCTION OF AN EARTHEN EMBANKMENT ACROSS A WATERWAY OR LOW DRAINAGE AREA TO DETAIN RUNOFF AND ALLOW SEDIMENT TO SETTLE OUT BEFORE DISCHARGING. SEDIMENT TRAPS ARE GENERALLY SMALLER THAN SEDIMENT BASINS. APPROPRIATE APPLICATIONS

EFFECTIVE FOR THE REMOVAL OF LARGE AND MEDIUM SIZED PARTICLES (SAND AND GRAVEL) AND SOME METALS THAT SETTLE OUT WITH THE SEDIMENT. MPI EMENTATION EXCAVATION AND CONSTRUCTION OF RELATED FACILITIES IS REQUIRED. TRAP INLETS SHOULD BE LOCATED

TO MAXIMIZE THE TRAVEL DISTANCE TO THE TRAP OUTLET. USE ROCK OR VEGETATION TO PROTECT THE TRAP OUTLETS AGAINST EROSION. MAINTENANCE MAINTENANCE IS REQUIRED FOR VEGETATION, EMBANKMENT, INLET AND OUTFALL STRUCTURES, AS WELL

AS OTHER FEATURES. REMOVAL OF SEDIMENT IS REQUIRED WHEN THE STORAGE VOLUME IS REDUCED BY ONE THIRD. GRAVITY BAG FILTER (DEWATERING BAG) DESCRIPTION

A GRAVITY BAG FILTER, ALSO REFERRED TO AS A DEWATERING BAG, IS A SQUARE OR RECTANGULAR BAG MADE OF NON-WOVEN GEOTEXTILE FABRIC THAT COLLECTS SAND, SILT, AND FINES. APPROPRIATE APPLICATIONS EFFECTIVE FOR THE REMOVAL OF SEDIMENTS (GRAVEL, SAND, AND SILT). SOME METALS ARE REMOVED WITH THE SEDIMENT.

MPI EMENTATION WATER IS PUMPED INTO ONE SIDE OF THE BAG AND SEEPS THROUGH THE BOTTOM AND SIDES OF THE BAG. A SECONDARY BARRIER, SUCH AS A ROCK FILTER BED OR STRAW/HAY BALE BARRIER, IS PLACED BENEATH AND BEYOND THE EDGES OF THE BAG TO CAPTURE SEDIMENTS THAT ESCAPE THE BAG.

MAINTENANC INSPECTION OF THE FLOW CONDITIONS, BAG CONDITION, BAG CAPACITY, AND THE SECONDARY BARRIER IS REQUIRED. REPLACE THE BAG WHEN IT NO LONGER FILTERS SEDIMENT OR PASSES WATER AT A REASONABLE RATE. THE BAG IS DISPOSED OF OFFSITE.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE: LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE JUST, GREASE, ANTIFREEZE, METALS, RUBBER FRAGMENTS, ROAD GRIT, SALTS AND SANDS, AND DEBRIS, FERTILIZERS, CLEANING AGENTS CHEMICALS, PAINT, ANIMAL WASTE, ELEVATED STORM RUNOFF TEMPERATURES, PESTICIDES AND PATHOGENS. C2 DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES;

<u>VEGETATED SWALES</u> THE VEGETATED SWALES INSTALLED DURING CONSTRUCTION WILL SLOW RUNOFF AND ACT AS A SLOWING THE RUNOFF WILL NOT ONLY ALLOW SEDIMENT TO DROP OUT, BUT LIMIT THE ABILITY FOR THE STORM WATER TO ERODE AND CARRY POLLUTANTS DOWNSTREAM.

PERMANENT SEEDING WILL BE PLACED TO ACT AS A FILTER AND TO PREVENT EROSION.

WET DETENTION BASIN THEY SERVE TO CONTROL THE VOLUME AND RATE OF RUNOFF. THE FACILITY REMOVES SEDIMENT. BOD ORGANIC NUTRIENTS AND TRACE METALS THROUGH THE PROCESS OF SETTLING OF POLLUTANTS. BIOLOGICAL PROCESSES OCCURRING IN THE POND AID IN REDUCING THE AMOUNT OF SOLUBLE NUTRIENTS PRESENT SUCH AS NITRATE AND PHOSPHORUS. C3 LOCATION, DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS OF STORMWATER QUALITY

> FOR LOCATIONS SEE PLAN SET: SHEETS C1.5-C1.8 FOR DETAILS: SEE SHEET C8.2

C4 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:

REFERENCE EROSION CONTROL SEQUENCING SEE PLAN SET: PRE-CONSTRUCTION AND POST-CONSTRUCTION STORMWATER POLLUTION PREVENTION PLANS, SHEETS C1.5-C1.8

VEGETATED SWALES THEY WILL BE CONSTRUCTED DURING AND FOLLOWING THE MASS GRADING OF THE SITE. THEY WILL BE IMMEDIATELY STABILIZED WITH PERMANENT SEEDING AND MULCH AND EROSION CONTROL BLANKETS AS SHOWN ON THE PLAN. THEY WILL PERSIST IN THE POST CONSTRUCTION PHASE AS A PERMANENT FEATURE.

PERMANENT SEEDING PERMANENT SEEDING OF EXPOSED AREAS SHALL BE INITIATED ON THE SEVENTH (7TH) DAY AND STABILIZATION ACTIVITIES SHALL BE COMPLETED BY THE FOURTEENTH (14) DAY ONCE FINAL GRADING IS COMPLETED.

WET DETENTION BASIN WET DETENTION BASIN WILL BE INITIALLY EXCAVATED AS PART OF MASS GRADING OF THE SITE. IT WILL BE USED THROUGHOUT THE CONSTRUCTION PHASE TO CONTROL SEDIMENT, THEN PERSIST INTO THE POST CONSTRUCTION PHASE AS PERMANENT FEATURES PROVIDING STORMWATER RETENTION AND SEDIMENT CONTROL.

OUTLET PROTECTION WILL BE INSTALLED AS SOON AS THE POND OUTFALL PIPE IS INSTALLED. DUTLET PROTECTION WILL PREVENT MAJOR EROSION FROM DAMAGING DOWNSTREAM CHANNELS. DUTLET PROTECTION WILL SIGNIFICANTLY REDUCE EROSION AND SEDIMENT BY REDUCING FLOW

C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURES:

SEE BMP O&M MAINTENANCE MANUAL

VEGETATED SWALES THE VEGETATED SWALES SHOULD BE CHECKED ANNUALLY FOR ISSUES RELATED TO PERFORMANCE. DURING THIS TIME TRASH SHOULD BE REMOVED, SEED PLANTED IF NECESSARY, AND ANY EROSION PROBLEMS ADDRESSED. THE GRASS IN THE SWALE SHOULD BE KEPT AT A 3"-4" HEIGHT. MAINTENANCE ASSOCIATED WITH THE VEGETATED SWALE IS THE RESPONSIBILITY OF THE LOCAL LANDOWNER FOR INDIVIDUAL LOTS AND HOME OWNERS ASSOCIATION FOR COMMON AREAS. THE HOMEOWNERS ASSOCIATION SHOULD CONDUCT THE INSPECTION AND REMINDED HOMEOWNERS OF MAINTENANCE NEEDS.

PERMANENT SEEDING PERMANENT SEEDING AREAS SHOULD BE CHECKED ANNUALLY FOR ISSUES RELATED TO PERFORMANCE. DURING THIS TIME PLANT SEED IF NECESSARY AND ANY EROSION PROBLEMS ADDRESSED. TRASH SHOULD BE REMOVED ON AN AS NEED BASIS. THE GRASS SHOULD BE KEPT TO A 3"-4" HEIGHT. MAINTENANCE IS THE RESPONSIBILITY OF THE LOCAL LANDOWNER FOR INDIVIDUAL LOTS AND HOME OWNERS ASSOCIATION FOR COMMON AREAS. THE HOMEOWNERS ASSOCIATION SHOULD CONDUCT THE INSPECTION AND REMINDED HOMEOWNERS OF MAINTENANCE NEEDS.

WET DETENTION BASINS (PONDS) INLETS AND OUTLETS SHOULD BE CHECKED TO MAKE SURE THEY ARE FREE OF DEBRIS. THE WET PONDS SHOULD BE CHECKED SEMIANNUALLY TO ENSURE PROPER PERFORMANCE. BANKS SHOULD BE CHECKED FOR EROSION, AND REPAIRED IF NECESSARY. SEDIMENT SHOULD BE REMOVED FROM HE POOL WHEN THE ACCUMULATED SEDIMENT VOLUME EXCEEDS 20% OF THE BASIN VOLUME. MAINTENANCE SHALL BE DONE BY THE HOME OWNERS ASSOCIATION.

T PROTECTION CT OUTLET PROTECTION ON A REGULAR BASIS FOR EROSION, SEDIMENTATION, SCOUR OR UNDERCUTTING, REPAIR OR REPLACE RIPRAP, AS NECESSARY TO HANDLE DESIGN FLOWS, REMOVE TRASH, DEBRIS, GRASS, SEDIMENT OR BURRÓWING ANIMALS AS NEEDED. MAINTENANCE MAY BE MORE EXTENSIVE IF SMALL RIPRAP SIZES ARE USED, AS CHILDREN MAY TEMPTED TO THROW OR OTHERWISE DISPLACE STONES AND ROCKS.

STREET CLEANING AND TRASH COLLECTION WILL BE PART OF THE TOWN OF TRAFALGAR PUBLIC WORKS DEPARTMENT'S NORMAL RIGHT-OF-WAY UPKEEP AND WILL BE DONE ON AN AS NEEDED BASIS. STREETS SHOULD BE MONITORED MONTHLY AND SWEPT AS NEEDED TO REMOVE AS MUCH SEDIMENT AS POSSIBLE BEFORE ENTERING STORM SEWER SYSTEM AND DOWNSTREAM WATERWAYS. THIS SHALL BE DONE BY THE DEVELOPER UNTIL THE STREETS ARE ACCEPTED BY THE TOWN OF TRAFALGAR PUBLIC WORKS DEPARTMENT.

NDIVIDUAL LOT OWNERS ARE RESPONSIBLE FOR PREVENTING POLLUTANTS FROM LEAVING THE LOTS. THE HOMEOWNERS ASSOCIATION SHOULD REMIND HOMEOWNERS OF NECESSITY OF STORM COLLECTION SYSTEM AND THE THEIR INDIVIDUAL RESPONSIBILITY TO KEEP IT CLEAN AND FUNCTIONING.

C6 ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEAURES:

LONG-TERM:

SEEDING SCHEDULI

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
0/11	1.50	1017 11 1	74 1	1417.1	1001		1,000		001	1101		
			TE	EMPOR	RARY S	EEDIN(G DAT	ES				
												WHEAT OATS OR RYE
												PERENNIAL RYGRASS
		I	NCREA	SE AI	PPLICA ORMAN	tion r t seel	ATES DING	50% F	OR			DORMANT SEEDING
			Pl	ERMAI	NENT S	EEDIN	G DAT	ES]
												NON-IRRIGATED
												IRRIGATED
			NCREA	SE AI	PPLICA ORMAN	tion r t șeei	ATES	50% F	OR			DORMANT SEEDING

1. PERMANENT SEEDING INFORMATION SHOWN ON THIS PLAN IS FOR EROSION CONTROL PURPOSES ONLY. IF THE LANDSCAPING PLANS AND SPECIFICATIONS CONTAIN INFORMATION CONCERNING PERMANENT LAWN SEEDING AND/OR SODDING, THEN THAT INFORMATION SHALL SUPERSEDE SIMILAR INFORMATION INDICATED ON THIS SHEET.

2. AREAS TO BE SEEDED SHALL BE SMOOTH AND UNIFORM AND SHALL BE IN ACCORDANCE WITH THE FINISHED GRADE AND CROSS SECTION SHOWN ON THE PLANS.

3. AREAS TO BE SEEDED SHALL HAVE A MINIMUM TOPSOIL DEPTH OF 6 INCHES. LIGHTLY COMPACT PLACED TOPSOIL BY ROLLING OR TAMPING.

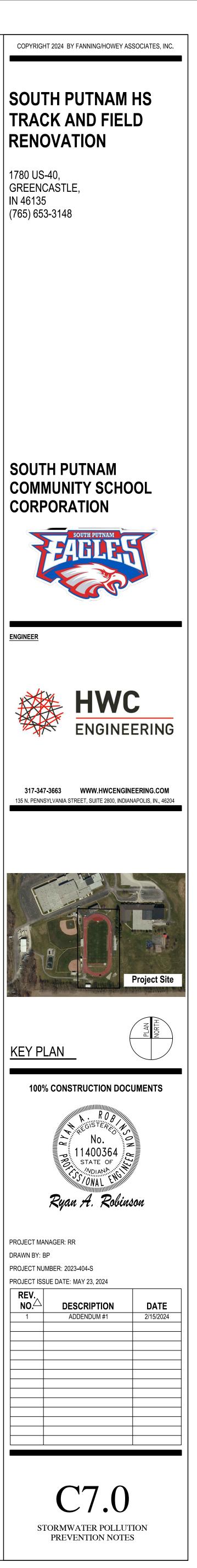
4. PRIOR TO REPLACING TOPSOIL, LOOSEN SUBSOIL TO ENSURE GOOD BOND WITH TOPSOIL.

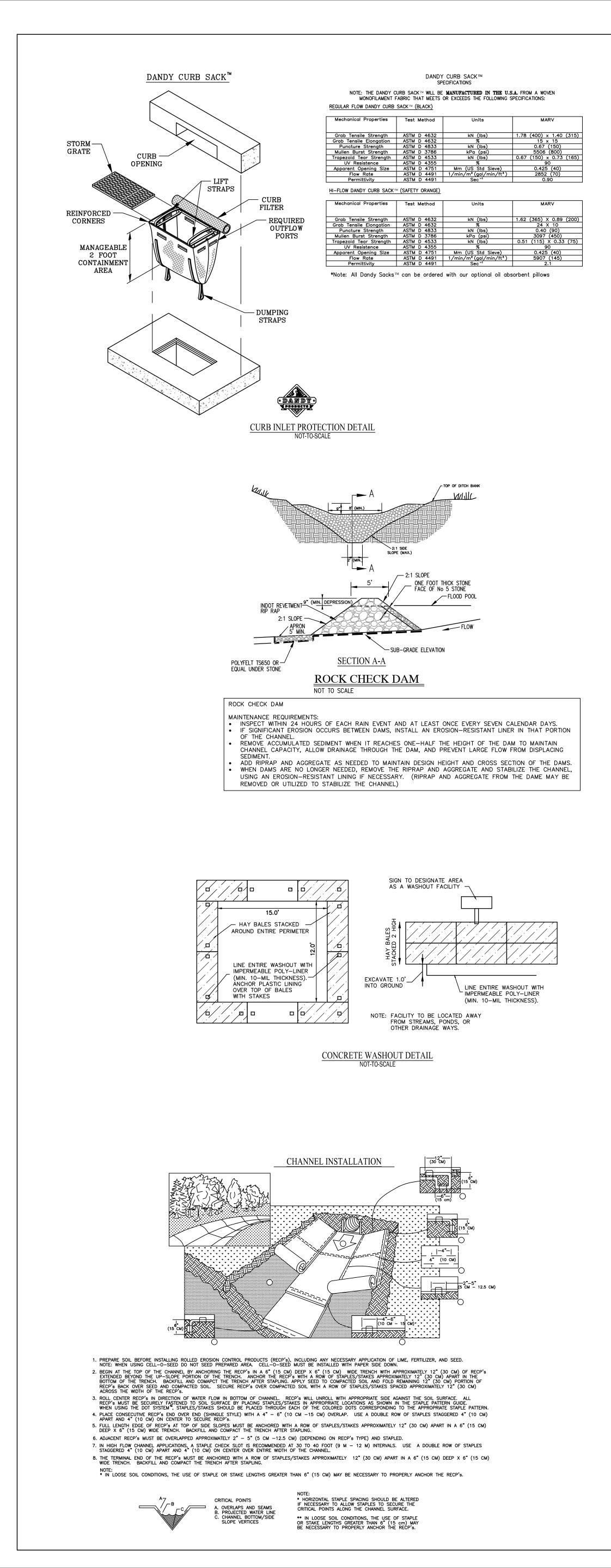
5. APPLY SEEDING WITH 800 LB/ACRE OF 12-12-12 FERTILIZER AND MULCH WITH A CONTINUOUS BLANKET OF STRAW AT A RATE OF 2 TONS/ACRE, OR USE HYDROSEEDING TECHNIQUES WITH EQUIVALENT APPLICATION

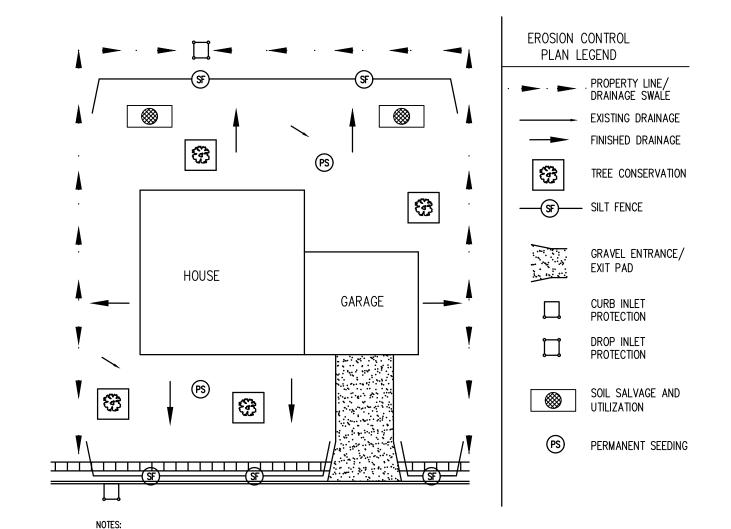
RATES 6. APPLY TEMPORARY SEEDING WITH 200 LB/ACRE OF 12-12-12 FERTILIZER AND MULCH WITH A CONTINUOUS BLANKET OF STRAW AT A RATE OF 2 TONS/ACRE, OR USE HYDROSEEDING TECHNIQUES WITH EQUIVALENT APPLICATION RATES.

7. ON SLOPES GRADED AT 3:1 OR STEEPER, STRAW MULCH SHALL BE HELD IN PLACE WITH POLYMERIC PLASTIC NET TACKED WITH WIRE STAPLES, OR EQUIVALENT METHOD.

8. SEED MIXTURES AND APPLICATION RATES: GRASS MIX APPLIED AT 170 LB/ACRE (4 LB/1000 SQ.FT.) COMPRISED OF THE FOLLOWING: KENTUCKY 31 FESCUE – 95 LB/ACRE PERENNIAL RYEGRASS - 65 LB/ACRE JASPER RED FESCUE - 10 LB/ACRE

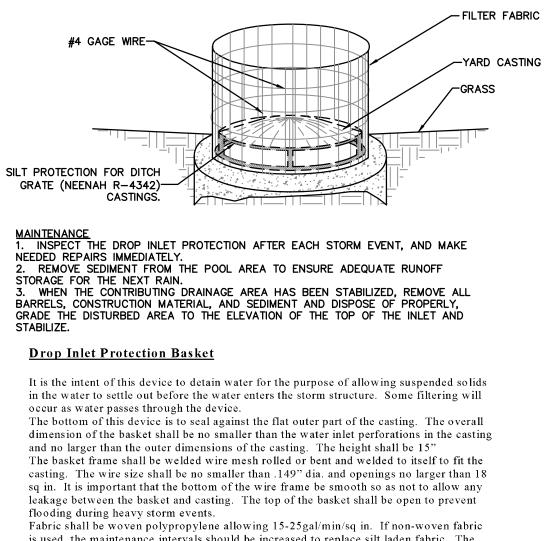






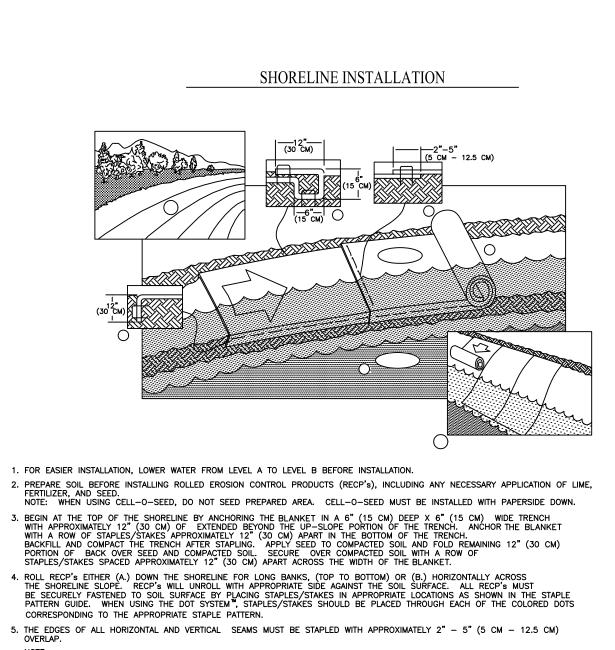
1. EROSION/SEDIMENT CONTROL MEASURES MUST BE FUNCTIONAL AND BE MAINTAINED THROUGHOUT CONSTRUCTION. 2. MAINTAIN POSITIVE DRAINAGE FLOW AWAY FROM THE STRUCTURE(S). 3. PERMANENT SEEDING AREAS TO BE TOP-SOILED, SEEDED, AND MULCHED BY OWNER AT COMPLETION OF CONSTRUCTION. 4. INDIVIDUAL LOTS REQUIRE TRASH RECEPTACLES WHILE UNDER CONSTRUCTION. INDIVIDUAL LOT STORM WATER POLLUTION & PREVENTION DETAIL

NOT-TO-SCALE

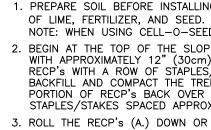


BEEHIVE PROTECTION DETAIL NOT-TO-SCALE

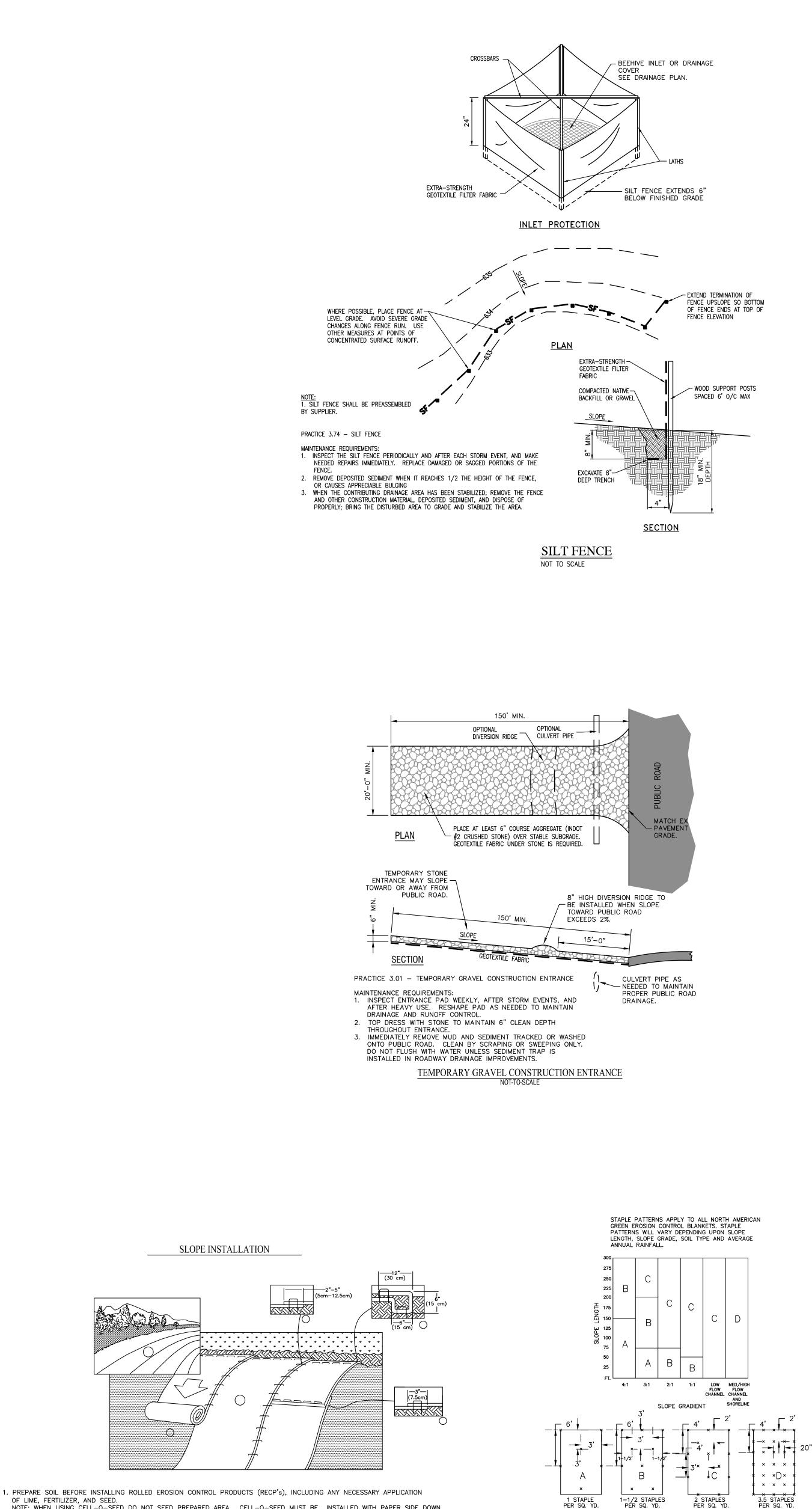
is used, the maintenance intervals should be increased to replace silt laden fabric. The fabric shall be attached to the frame and folded under the bottom to help seal against the This device should be used in conjunction with other Best Management Practices to maximize the efficiency of the erosion control plan. Suppliers for this product include: Lakeside Supply Inc. (317) 281-2661, Turfgrass Inc (317) 894-3276.



* SEAM OVERLAP SHOULD BE SHINGLED ACCORDING TO PREDOMINANT EROSIVE ACTION. 6. THE EDGE OF THE BLANKET AT OR BELOW NORMAL WATER LEVEL MUST BE ANCHORED BY PLACING THE STAPLES/STAKES IN A 12" (30 CM) DEEP X 6" (15 CM) WIDE ANCHOR TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART IN THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING (STONE OR SOIL MAY BE USED AS BACKFILL.) * IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.



- ON RECP's TYPE.
- RECP's WIDTH. *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S. 3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM[™], STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN. 4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING

5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE

THIS SHEET TO BE USED FOR EROSION CONTROL ONLY.

EROSION CONTROL BLANKET

STAPLE PATTERN GUIDE

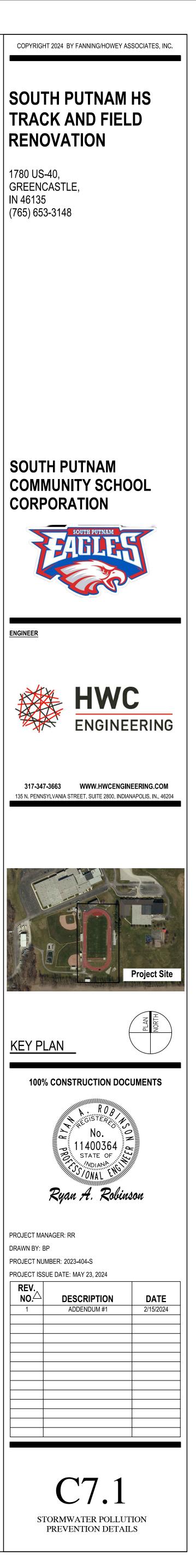
NOT-TO-SCALE

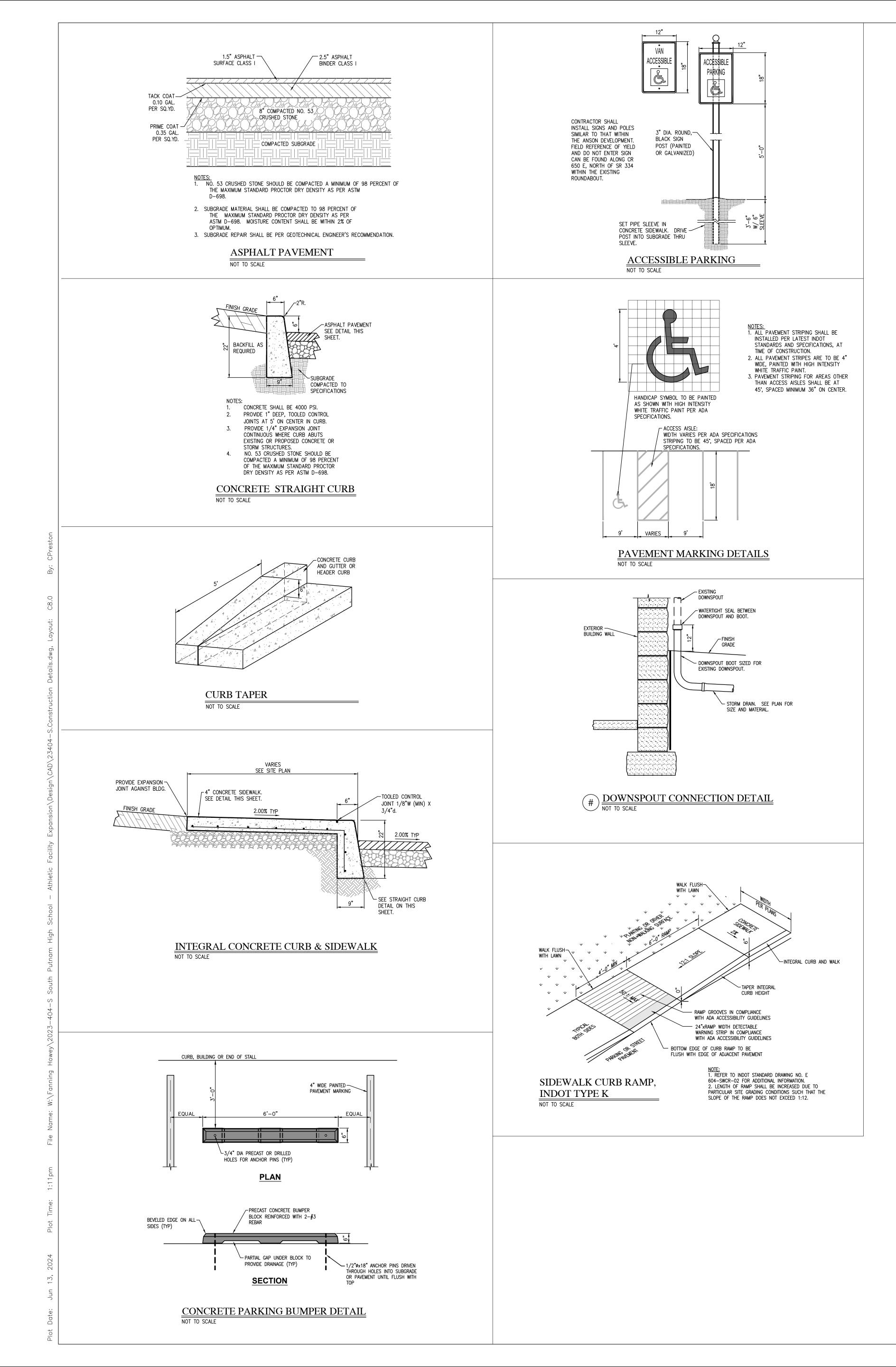
PER SQ. YD

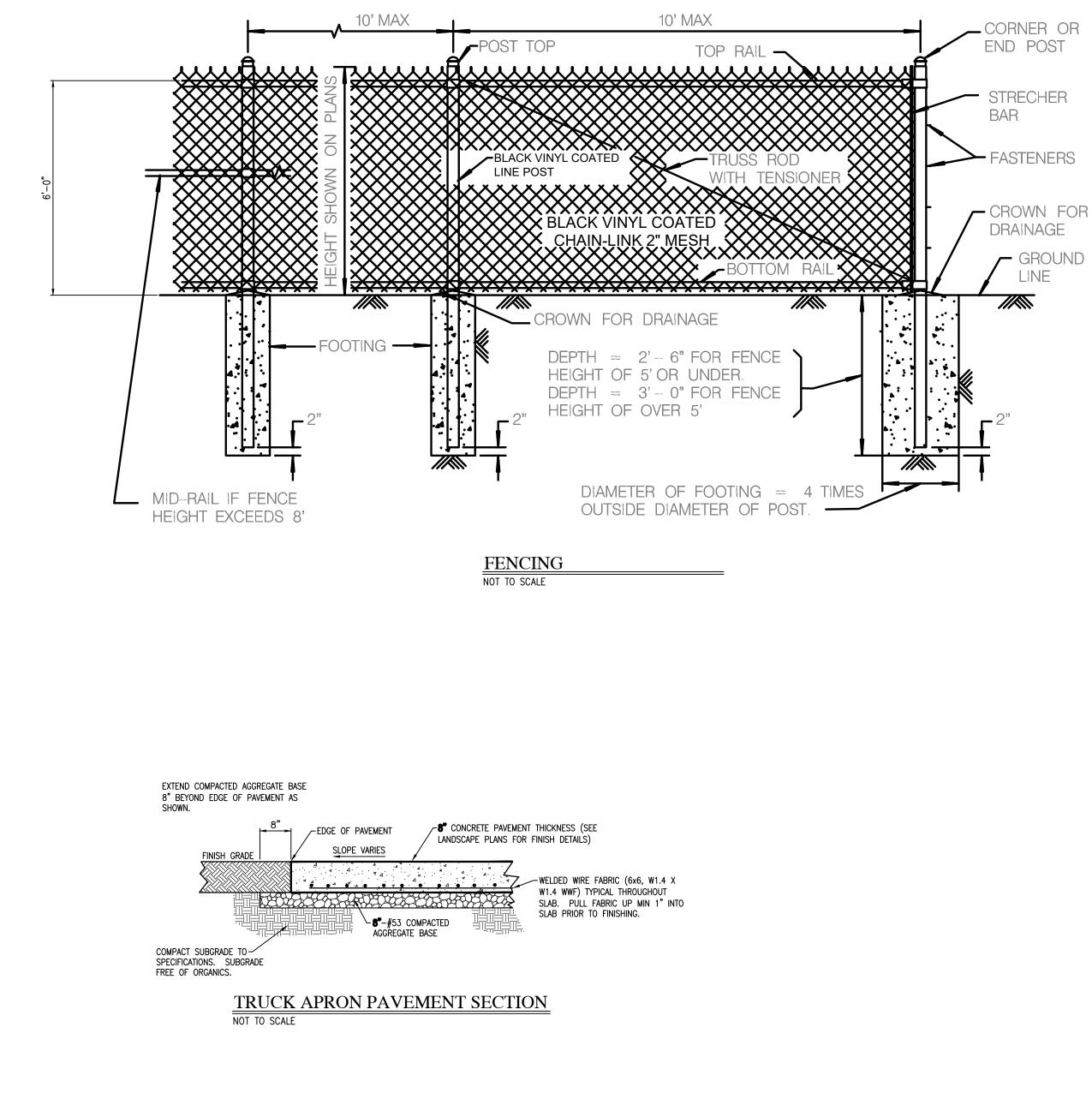
1-1/2 STAPLES PER SQ. YD.

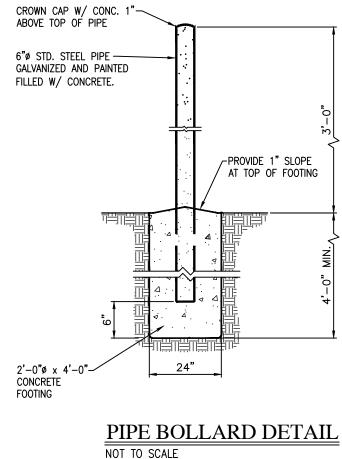
1 STAPLE

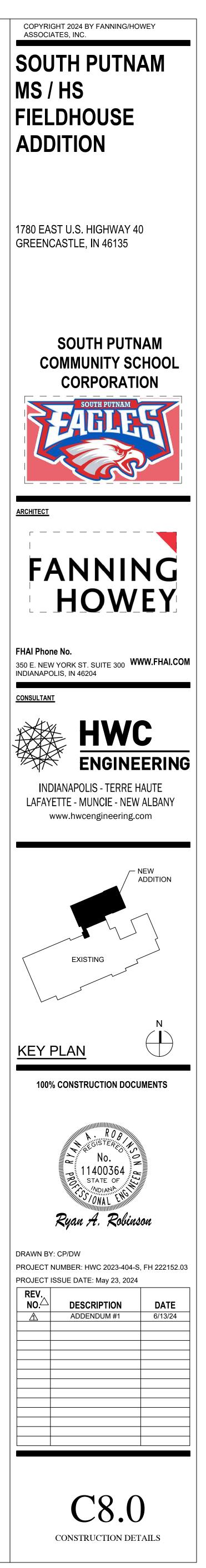
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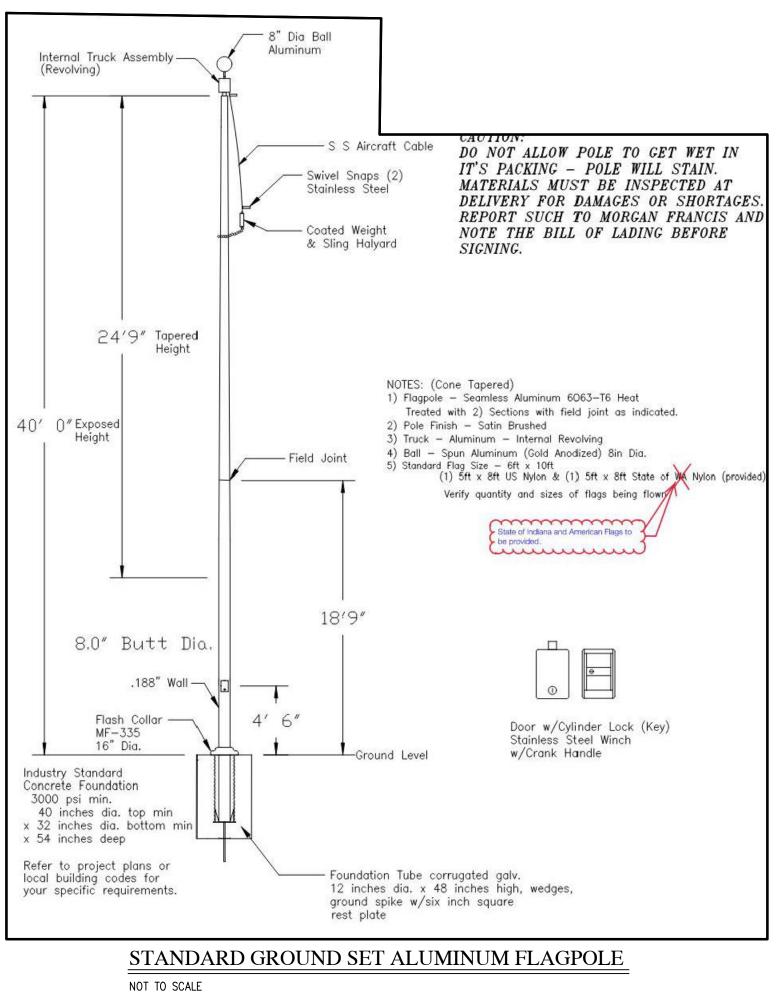


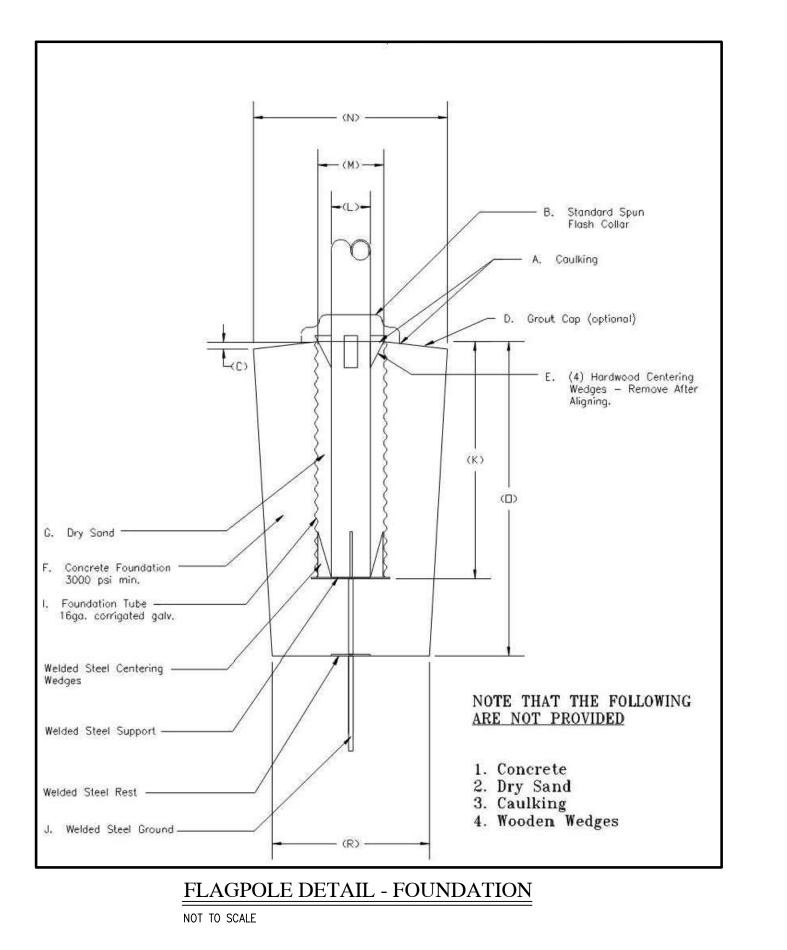


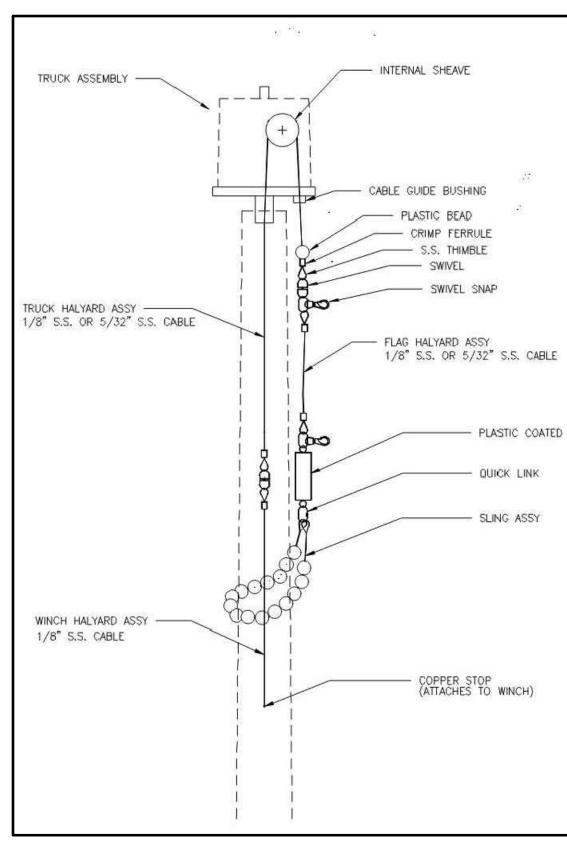




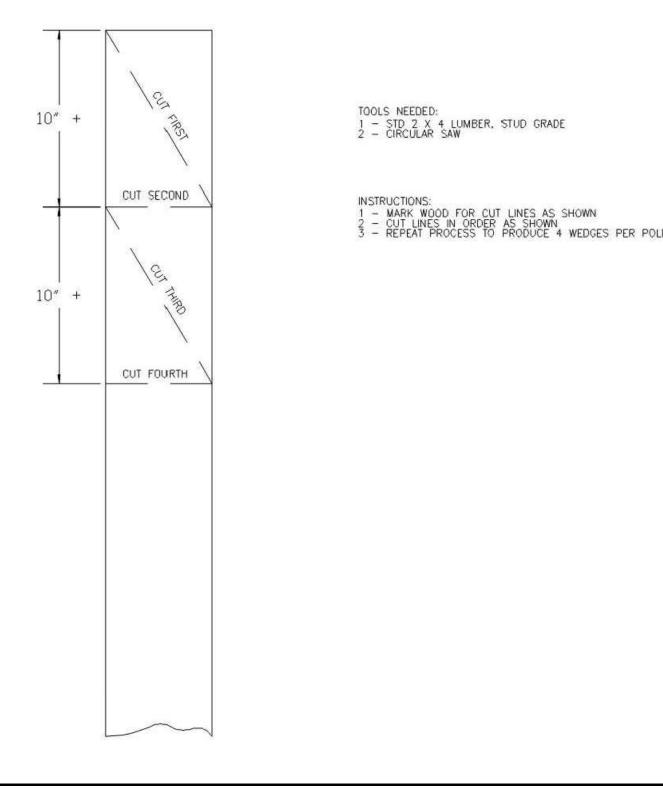






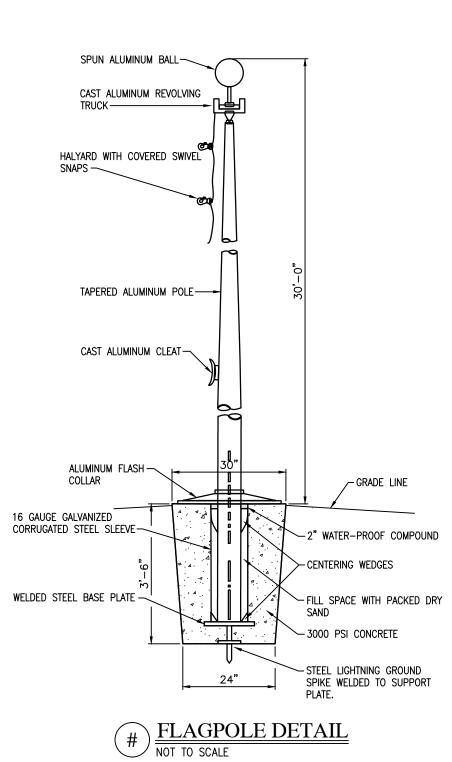


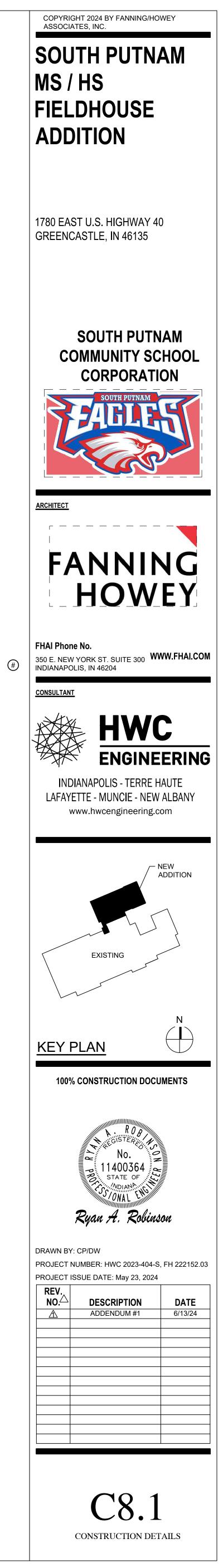
FLAGPOLE DETAIL - COMMERCIAL INTERNAL HALYARD SYSTEM NOT TO SCALE



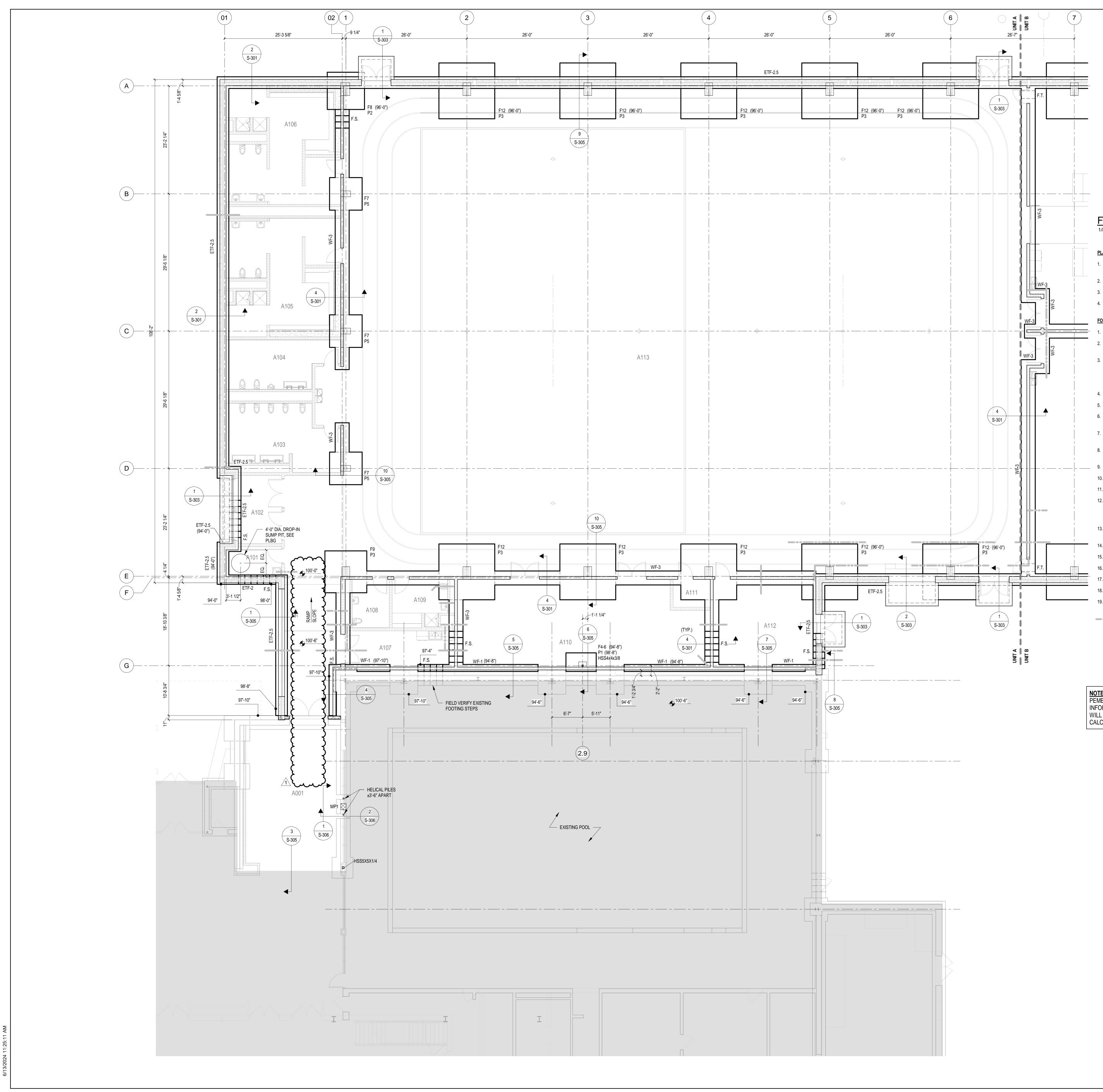
FLAGPOLE DETAIL - WEDGES, FLAGPOLE CENTERING NOT TO SCALE

- PLASTIC COATED WEIGHT





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FOUNDATION PLAN - UNIT A 1/8" = 1'-0"



PLAN NOTES:

REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-6" (770.3' USGS). TOP OF NEW FINISH FLOOR = 100'-0" (769.80' USGS).

- TOP OF FOOTING (T/FOOTING) ELEVATION = 98'-8" (U.O.N.).
- TOP OF PIER (T/PIER) ELEVATION = 100'-0" (U.O.N.).
- (XXX'-X") INDICATES TOP OF FOOTING OR PIER ELEVATION.

FOUNDATION PLAN NOTES:

- SEE SHEET S-001 FOR GENERAL NOTES.
- SEE S-301 THROUGH S-303 FOR FOUNDATION DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
- FOOTINGS AND SLAB ON GRADE SHALL BEAR ON GROUND IMPROVED BY RAMMED AGGREGATE PIERS AND/OR RIGID INCLUSIONS AS DETERMINED BY A SPECIALTY GEOTECHNICAL DESIGN-BUILD CONTRACTOR. SOIL IMPROVEMENT SHALL OCCUR OVER THE ENTIRE FOOTPRINT OF THE NEW BUILDING ADDITION. SOIL IMPROVEMENT SHOULD ALSO BE CONSIDERED AT SITE PAVEMENT AREAS WHERE FILL WILL BE ADDED TO RAISE GRADE.
- CENTER WALL FOOTINGS UNDER WALLS UNLESS NOTED OTHERWISE.
- INDICATES FOUNDATION F"X". SEE FOUNDATION SCHEDULE ON S-301. FX
- 6. ETF-X INDICATES EXTERIOR TRENCH FOOTING ETF-"X". SEE TYPICAL EXTERIOR TRENCH FOOTING DETAIL ON S-301.
- 7. WF-X, INDICATES INTERIOR WALL FOOTING WF-"X". TYPICAL INTERIOR WALL FOOTING DETAIL ON S-301.
 - P1, P2, ETC. INDICATES CONCRETE PIER. SEE TYPICAL PIER DETAIL ON S-301. TOP OF PIER ELEVATION = 100'-0" (U.O.N.).
 - MP1, MP2, ETC. INDICATES MASONRY PILASTER. SEE MASONRY PILASTER (MP) ON S-401.
- SEE 13-S-301 FOR TRENCH FOOTING RECESS AT DOWNSPOUTS. 10.

FOOTINGS MAY BE EARTH-FORMED WHERE COHESIVE SOILS EXIST AT FOUNDATION ELEVATION. REFER TO THE PROJECT MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID FORMING OF FOOTINGS WHERE REVIEW OF THE GEOTECHNICAL ENGINEERING REPORT INDICATES EARTH-FORMING MAY NOT BE POSSIBLE.

- VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND PLUMBING LINES. SEE SHEET S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.
- SEE 6-S-303 FOR TYPICAL SLAB ON GRADE.

SEE 5-S-301 FOR TYPICAL COLUMN BASE.

- SEE 7-S-303 FOR SLAB ISOLATIONS.
- SEE ARCHITECTURAL PLANS FOR RAISED LOCKER BASES.
- F.T. INDICATES FOOTING TRANSITION. SEE 11-S-301.
- F.S. INDICATES STEPPED FOOTING. SEE S-301 FOR DETAILS

LEGEND:

11

15.

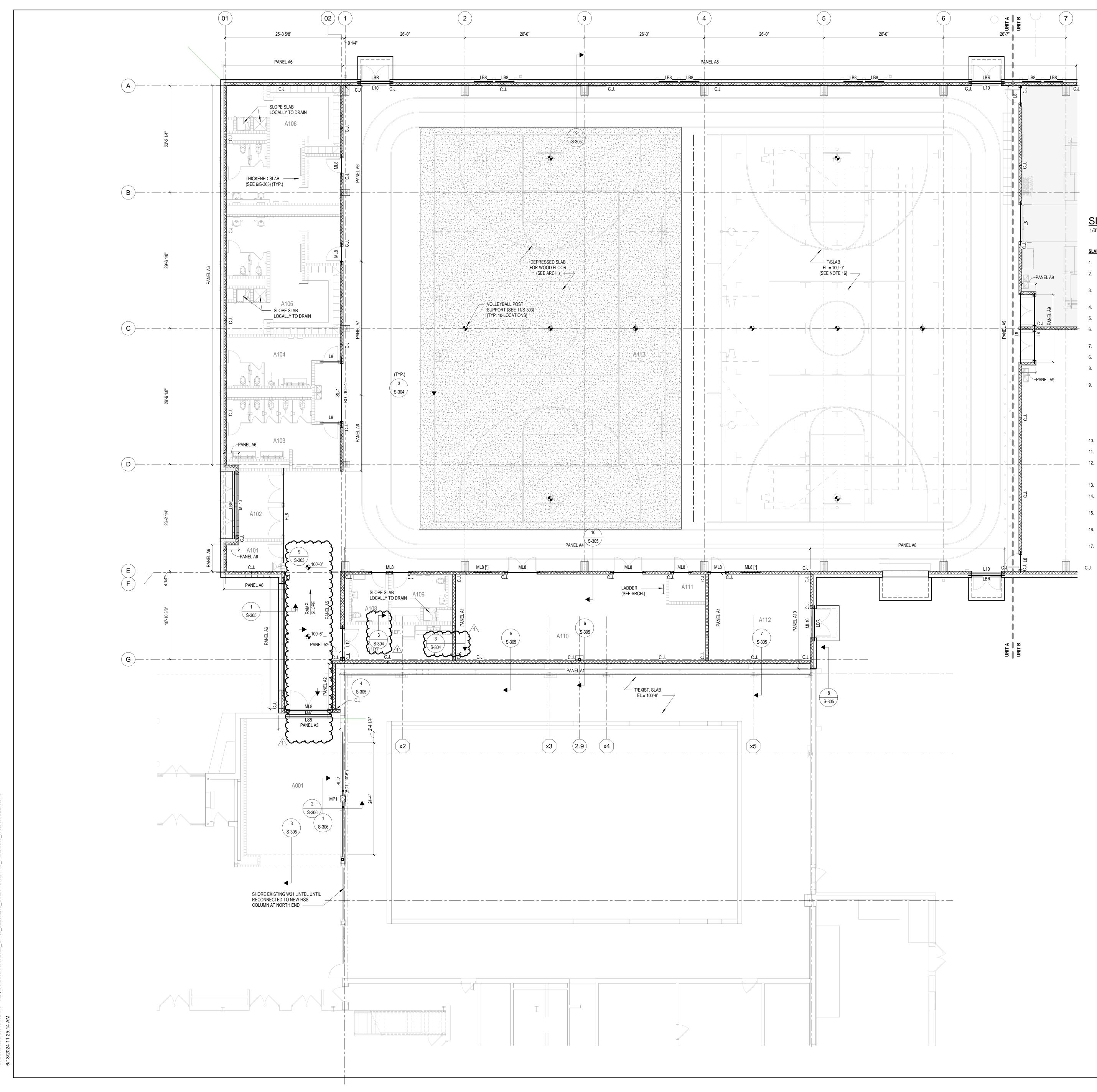
18.

INDICATES UNDERGROUND PLUMBING OR UTILITY LINE. VERIFY LOCATION AND ELEVATIONS. SEE S-302 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.

NOTE

PEMB CONCRETE COLUMN PIER AND FOUNDATION SIZES ARE SHOWN FOR INFORMATION ONLY TO ILLUSTRATE DESIGN CONCEPT TO THE BIDDERS. THESE WILL BE FINALIZED ONCE FINAL PRE-ENGINEERED BUILDING DRAWINGS AND CALCULATIONS ARE RECEIVED BY THE REST OF THE DESIGN TEAM.





SLAB AND MASONRY PLAN - UNIT A 1/8" = 1'-0"



SLAB AND MASONRY PLAN NOTES:

- SEE SHEET S-001 FOR GENERAL NOTES. SEE S-303, S-304 AND S-401 THROUGH S-403 FOR TYPICAL SLAB AND MASONRY DETAILS. TYPICAL
- DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-6" (770.3' USGS).
- TOP OF NEW FINISH FLOOR = 100'-0" (769.80').
- L, ML, SML INDICATES MASONRY LINTEL. SEE SHEET S-403.
- LBX INDICATES STEEL ANGLE LINTEL. SEE SHEET S-403.
- INDICATES STEEL LINTEL. SEE SHEET S-403. FOR SCHEDULE. VERIFY MASONRY SL-X OPENING AND ELEVATION WITH ARCHITECTURAL PLANS.
- BPX INDICATES BEARING PLATE REQUIRED. SEE S-501.
- MPX INDICATES MASONRY PILASTER. SEE SHEET S-401.
- INDICATES CONTROL JOINT IN CMU. COORDINATE LOCATION WITH BONDING PATTERN AND WALL ELEVATION. SEE S-402. CJ
- INDICATES LINTEL REQUIRED FOR MECHANICAL OPENING. <u>ONLY A PORTION OF THESE LINTELS</u> <u>REQUIRED FOR MASONRY OPENINGS ARE SHOWN ON THE PLANS.</u> THE CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL LINTELS REQUIRED FOR MECHANICAL OPENINGS WHETHER OR NOT SHOWN ON THE PLANS. COORDINATE NUMBER, SIZE, ELEVATION, AND LOCATION OF ALL LINTELS FOR MECHANICAL OPENINGS.
- SEE 3-S4.03 AND 4-S4.03 FOR LINTELS IN NON-BEARING WALLS. SUBMIT SHOP DRAWINGS FOR REVIEW FOR LINTELS REQUIRED AT MECHANICAL OPENINGS IN BEARING WALLS AND OUTSIDE LIMITS OF 3-S-403 AND 4-S-403.
- 10. FOR MULTI-SPAN CONTINUOUS LINTELS, MAINTAIN 16" MINIMUM CMU BETWEEN OPENINGS (U.O.N.).
- SEE S-401 FOR MASONRY WALL BRACING REQUIREMENTS.
- SEE THE PROJECT MANUAL FOR CONTRACTION AND CONSTRUCTION JOINT SPACING. THE CONTRACTOR IS ENCOURAGED TO SUBMIT A SLAB PLAN SHOWING ALTERNATE SPACINGS AND LOCATIONS THAT ADAPTS TO THEIR PLANNED CONSTRUCTION SEQUENCE.
- SEE ARCHITECTURAL PLANS FOR RAISED LOCKER BASES. 13. PROVIDE LINTEL AT RECESSED FIRE EXTINGUISHER CABINET. SEE TYPICAL CMU WALL OPENING AT
- RECESSED EQUIPMENT ON S-402.
- PROVIDE LINTEL AT RECESSED ELECTRICAL PANEL BOARD. SEE TYPICAL CMU WALL OPENING AT RECESSED EQUIPMENT ON S-402
- SLAB ON GRADE: 4" CONCRETE SLAB-ON-GRADE WITH 6x6-W2.1xW2.1 WWF (SHEETS ONLY) OVER 16. VAPOR BARRIER AND 6" MIN. COMPACTED DRAINAGE FILL (TYP. U.O.N.)

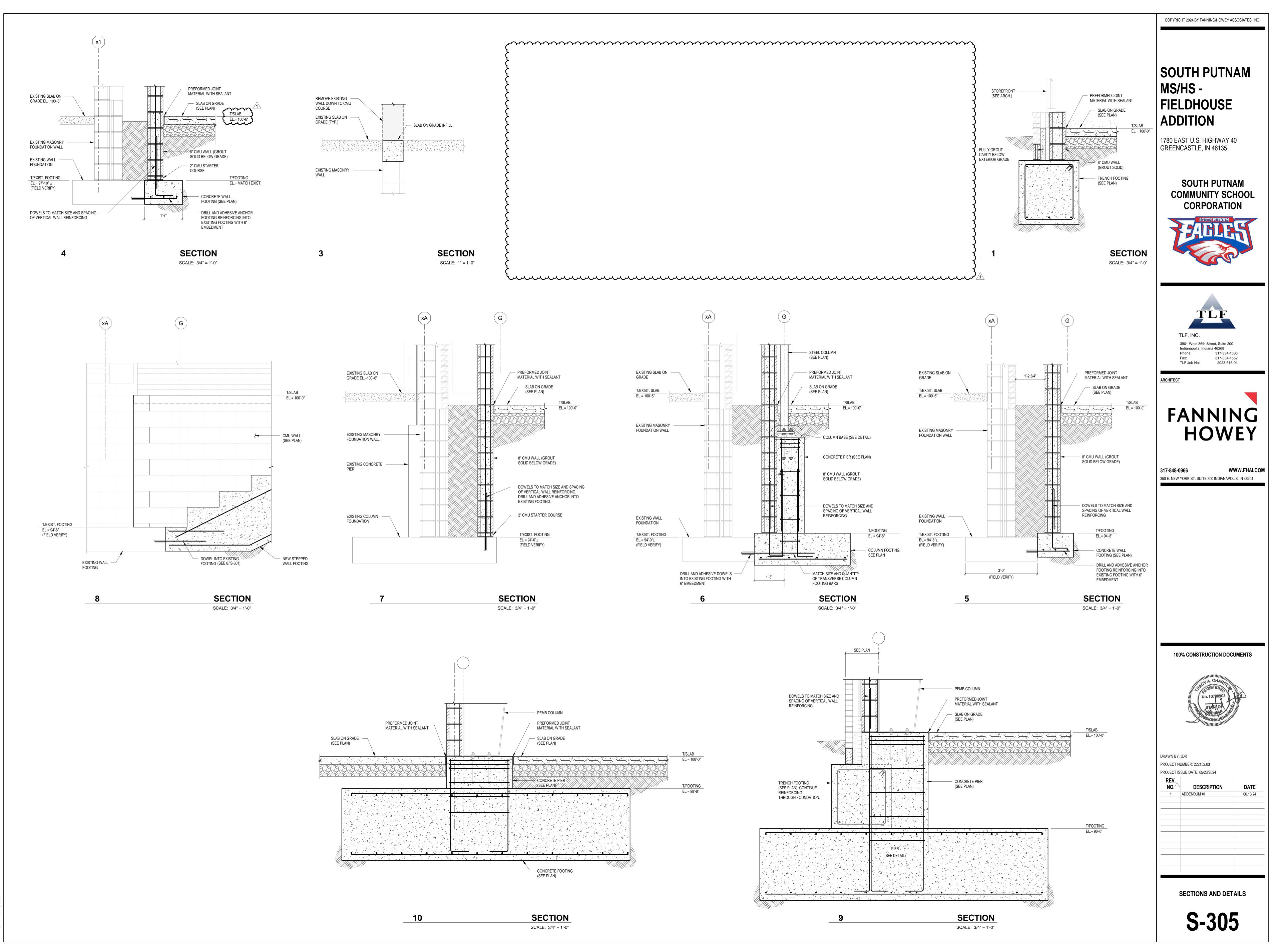
LEGEND:

INDICATES SLAB DEPRESSION FROM FINISHED FLOOR ELEVATION. SEE THE PROJECT MANUAL FOR REQUIRED DEPRESSION.

PANEL XX

- INDICATES MASONRY WALL SUPPORTED ON FOOTING. SEE S-401 FOR MASONRY WALL PANEL SCHEDULE
- INDICATES THICKENED SLAB. SEE 6C-S-303.

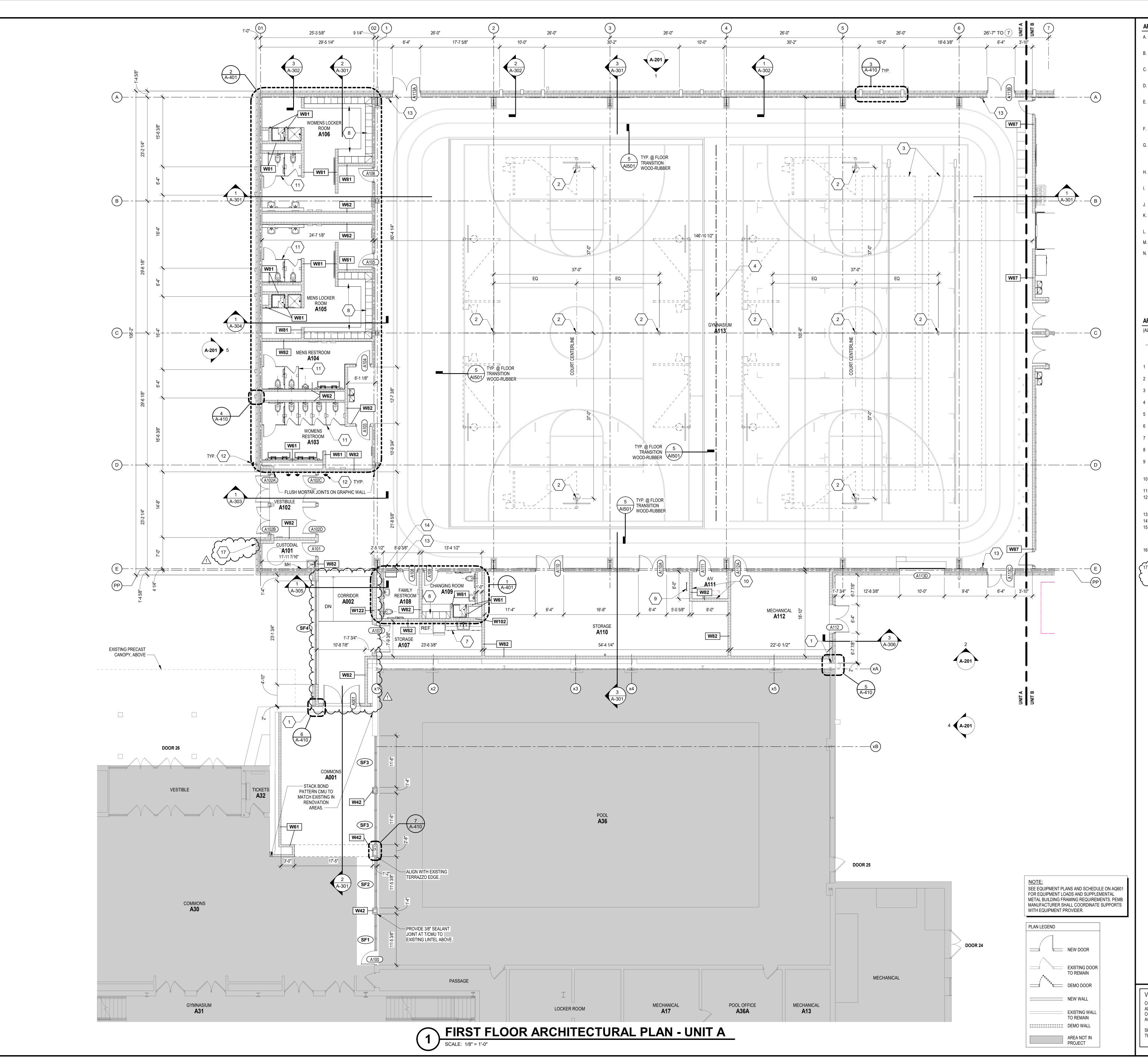




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 PIECES LESS THAN 4" IN SZE EXPOSED TO VIEW. WHERE DISSIMLAR FLOOR MATERIALS MEET, THEY SHAL DO SO UNDER THE CONTENTINE OF THE DOOR, UNLESS NOTED OTHERWISE. THEE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER INSULATION CONTINUOUS CORRELATION TO USES DATUM. THE BASE FLOOR LEVATION INDICATED FOR THE PROJECT IS 100-0". REFER TO SITE PLAN FOR CORRELATION TO USES DATUM. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSID OF DECK ABOVE SHALL HAVE A2" JOINT (U.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALL PER PROJECT MANUAL., AND MINERAL WOOL AT THE NOY RATED WALLS, COMMON JOINT DETALS AND CONSTRUCTION MOVEMENT JOINT DETALS REFER TO DETAILS ON SHEET A-501. ALL DIMENSIONS ON FLORO PLANS ARE TO FINISH FACE OF COMJ. CONCRETE, BRICKO R FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FOR OF METAL STUDS. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS. SEE REFLECTED CELING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES. REFER TO ROM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINIS FLOOR MATERIALS. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS. PROVIDE SPRAY FOR NOLCATION AND EXTERTO FINISHS. PROVIDE SPRAY FOR NOLLE OR PLAN AND EQUIPMENT PLANS FOR ADDITIONAL INFORMATION AND FIRE RATED WALL WALLE OR PLAN AND EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. PRE-COMPRESSED BULLDING EXPANSION JOINT WITH CONTINUOUS SEALANT. FLOOR SLEEVE FOR VOLLEYBALL / TENNIS STANDARDS SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. PRECOMPRESSED BULIDIN	 LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE A PIECES LESS THAN 4"IN SIZE EXPOSED TO VIEW. WHERE DISSIMULAR FLOOR MATERIALS MEET, THEY SHAI DO SO UNDER THE CENTERLINE OF THE DONOR, UNLESS NOTED OTHERWISE. THERE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER OTHE BUILDING EXTENDING 2-0" MINIMUM BELOW GRADE. THE BASE FLOOR ELEVATION INDICATE FOR THE PROJECT IS 109-0". REFER TO SITE PLAN FOR CORRELATION TO USOS DATUM. ALL INTERIOR MASONRY WALLS THAT FUNT DUNDERSID OF DECK ABOVE SHALL HAVE A 2' JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WAL PER PROJECT MANUAL, AND MINERAL WOOL AT THE NO RATED WALLS, TO ALLOW FOR DEFLECTION. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS RATE OF FAILS ON BALET A-S01. ALL DIMENSIONS ON FOLOOR PLANS ARE TO FINISH FACE CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, WILLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FAIL STUD WALLS STOP ON HAND AND ADACENT WALL UNLESS NOTED OTHERWISE. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORREG ARE TO BE DULLOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS. SEE REFLECTED CEILING PLANS FOR SOLLFREAD LLOCATIONS AND DETAIL REFERENCES. REFER TO ROOM FINISH SCHEDULE OR PLANA NO EQUIPMENT PLANS FOR LOCATION AND BEXTENT OF FINIS FLOOR MATERIALS. PROVIDE SPRAY FOAM INSTRUCTION AND EXTENT OF FINIS FLOOR MATERIALS. PROVIDE SPRAY FOAM INSTRUCTION AND EXTENT OF FINIS FLOOR MATERIALS. PREFER TO MASTERCODE PLANS FOR CODE INFORMATION. PRECOMPRESSED BUILLONG EXPANSION JOINT WITH CONTINUOUS SELANT. PROVIDE SPRAY FOAM INDICATED ON THIS SHEET) INDICATES WALL TYPE. REFER TO DAWNING A:300 FOR WALL THICKNESS, HEIGHT AND STRUCT FOR ADDITIONAL INFORMATION. PRECOMPRESSED DRUCKING AS REQUIPMENT PLANS FOR ADDITION		
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		(ALL N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	INTECTORAL TELATIONIES INTECTORAL TELATIONIES INDICATES MALL TYPE. REFER TO INDICATES WALL TYPE. REFER TO W### DRAWING A-300 FOR WALL THICKNESS, HEIGHT AND COMPOSITION. PRE-COMPRESSED BUILDING EXPANSION JOINT WITH CONTINUOUS SEALANT. FLOOR SLEEVE FOR VOLLEYBALL / TENNIS STANDARDS. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION OVERHEAD BATTING / GOLF CAGE. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. GYMNASIUM DIVIDER CURTAIN. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. ATHLETIC EQUIPMENT. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. WRESTLING MAT. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. PLASTIC LAMINATE CASEWORK. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. LOCKERS AND BENCH. SEE ENLARGED PLANS AND EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. 24" WIDE FIXED ALUMINUM ACCESS LADDER TO ROOF HATCH. SEE ROOF PLANS FOR ADDITIONAL INFORMATION. PROVIDE 3/4" PLYWOOD BACKING +6" A.F.F. SEE TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION. SOLID POLYMER TOILET PARTITIONS. AUTOMATIC DOOR OPERATOR ACTUATOR. SEE DOOR SCHEDULE AND ELECTRICAL / TECHNOLOGY FOR ADDITIONAL INFORMATION. SEMI-RECESSED FIRE EXTINGUISHER CABINET. SURFACE MOUNT DEFIBRILLATOR CABINET. SURFACE MOUNT DEFIBRILLATOR CABINET. PRE-FABRICATED PRECAST CONCRETE FIRE PUMP HOUSE BUILDING WITH 6" REINFORCED SLAB-ON-GRADE AND PLUMBING FOR ADDITIONAL INFORMATION. INFILL CMU / BLOCK WALL TO MATCH EXISTING CONSTRUCTION. EXISTING GRILLE / LOUVER TO REMAIN BLOCK OFF, SOHD FROM INFERIORS IDE
17 RECESSED MOUNTED FIRE DEPARTMENT LOCK BOX. COORDINATE EXACT REQUIREMENTS WITH LOCAL FIRE	DEPARTMENT.	(ALL N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	INTECTORAL TELATION TEC INDICATES MALL TYPE. REFER TO INDICATES WALL TYPE. REFER TO W### DRAWING A-300 FOR WALL THICKNESS, HEIGHT AND COMPOSITION. PRE-COMPRESSED BUILDING EXPANSION JOINT WITH CONTINUOUS SEALANT. FLOOR SLEEVE FOR VOLLEYBALL / TENNIS STANDARDS. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION OVERHEAD BATTING / GOLF CAGE. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. GYMNASIUM DIVIDER CURTAIN. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. ATHLETIC EQUIPMENT. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. WRESTLING MAT. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. PLASTIC LAMINATE CASEWORK. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. LOCKERS AND BENCH. SEE ENLARGED PLANS AND EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. 24" WIDE FIXED ALUMINUM ACCESS LADDER TO ROOF HATCH. SEE ROOF PLANS FOR ADDITIONAL INFORMATION. PROVIDE 3/4" PLYWOOD BACKING +6" A.F.F. SEE TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION. SOLID POLYMER TOILET PARTITIONS. AUTOMATIC DOOR OPERATOR ACTUATOR. SEE DOOR SCHEDULE AND ELECTRICAL / TECHNOLOGY FOR ADDITIONAL INFORMATION. SEMI-RECESSED FIRE EXTINGUISHER CABINET. SURFACE MOUNT DEFIBRILLATOR CABINET. SURFACE MOUNT DEFIBRILLATOR CABINET. PRE-FABRICATED PRECAST CONCRETE FIRE PUMP HOUSE BUILDING WITH 6" REINFORCED SLAB-ON-GRADE AND PLUMBING FOR ADDITIONAL INFORMATION. INFILL CMU / BLOCK WALL TO MATCH EXISTING CONSTRUCTION. EXISTING GRILLE / LOUVER TO REMAIN BLOCK OFF, SOHD FROM INFERIORS IDE
17 RECESSED MOUNTED FIRE DEPARTMENT LOCK BOX	COORDINATE EXACT REQUIREMENTS WITH LOCAL FIRE	(ALL N 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	INTECTORAL TELATION TEC INDICATES MALL TYPE. REFER TO INDICATES WALL TYPE. REFER TO W### DRAWING A-300 FOR WALL THICKNESS, HEIGHT AND COMPOSITION. PRE-COMPRESSED BUILDING EXPANSION JOINT WITH CONTINUOUS SEALANT. FLOOR SLEEVE FOR VOLLEYBALL / TENNIS STANDARDS. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION OVERHEAD BATTING / GOLF CAGE. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. GYMNASIUM DIVIDER CURTAIN. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. ATHLETIC EQUIPMENT. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. WRESTLING MAT. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. PLASTIC LAMINATE CASEWORK. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. LOCKERS AND BENCH. SEE ENLARGED PLANS AND EQUIPMENT PLANS FOR ADDITIONAL INFORMATION. 24" WIDE FIXED ALUMINUM ACCESS LADDER TO ROOF HATCH. SEE ROOF PLANS FOR ADDITIONAL INFORMATION. PROVIDE 3/4" PLYWOOD BACKING +6" A.F.F. SEE TECHNOLOGY PLANS FOR ADDITIONAL INFORMATION. SOLID POLYMER TOILET PARTITIONS. AUTOMATIC DOOR OPERATOR ACTUATOR. SEE DOOR SCHEDULE AND ELECTRICAL / TECHNOLOGY FOR ADDITIONAL INFORMATION. SEMI-RECESSED FIRE EXTINGUISHER CABINET. SURFACE MOUNT DEFIBRILLATOR CABINET. SURFACE MOUNT DEFIBRILLATOR CABINET. PRE-FABRICATED PRECAST CONCRETE FIRE PUMP HOUSE BUILDING WITH 6" REINFORCED SLAB-ON-GRADE AND PLUMBING FOR ADDITIONAL INFORMATION. INFILL CMU / BLOCK WALL TO MATCH EXISTING CONSTRUCTION. EXISTING GRILLE / LOUVER TO REMAIN BLOCK OFF, SOHD FROM INFERIORS IDE

VERIFICATION NOTE
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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



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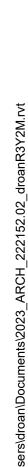
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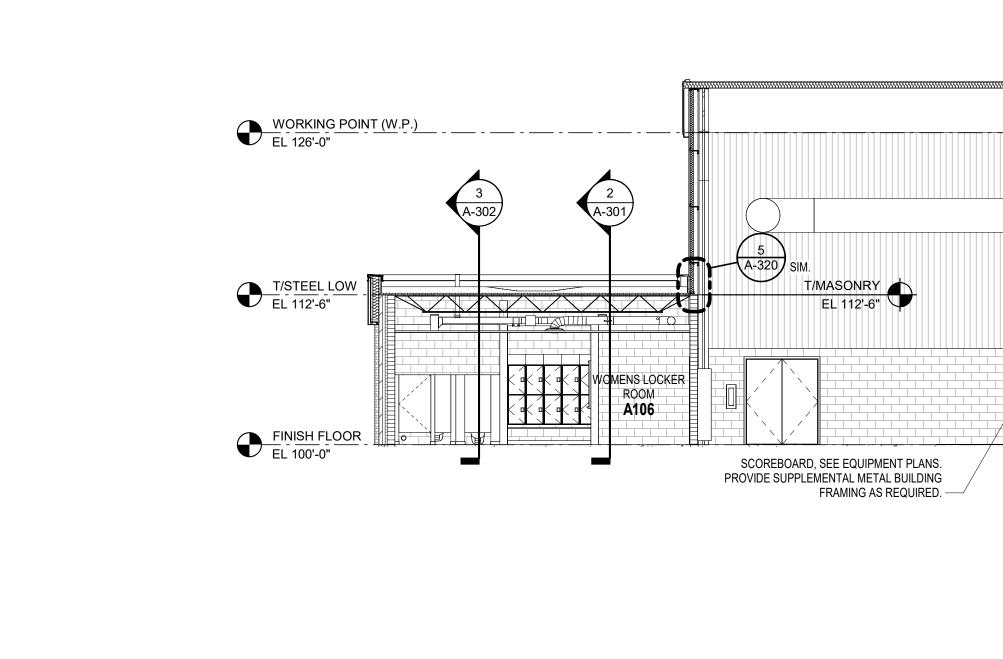
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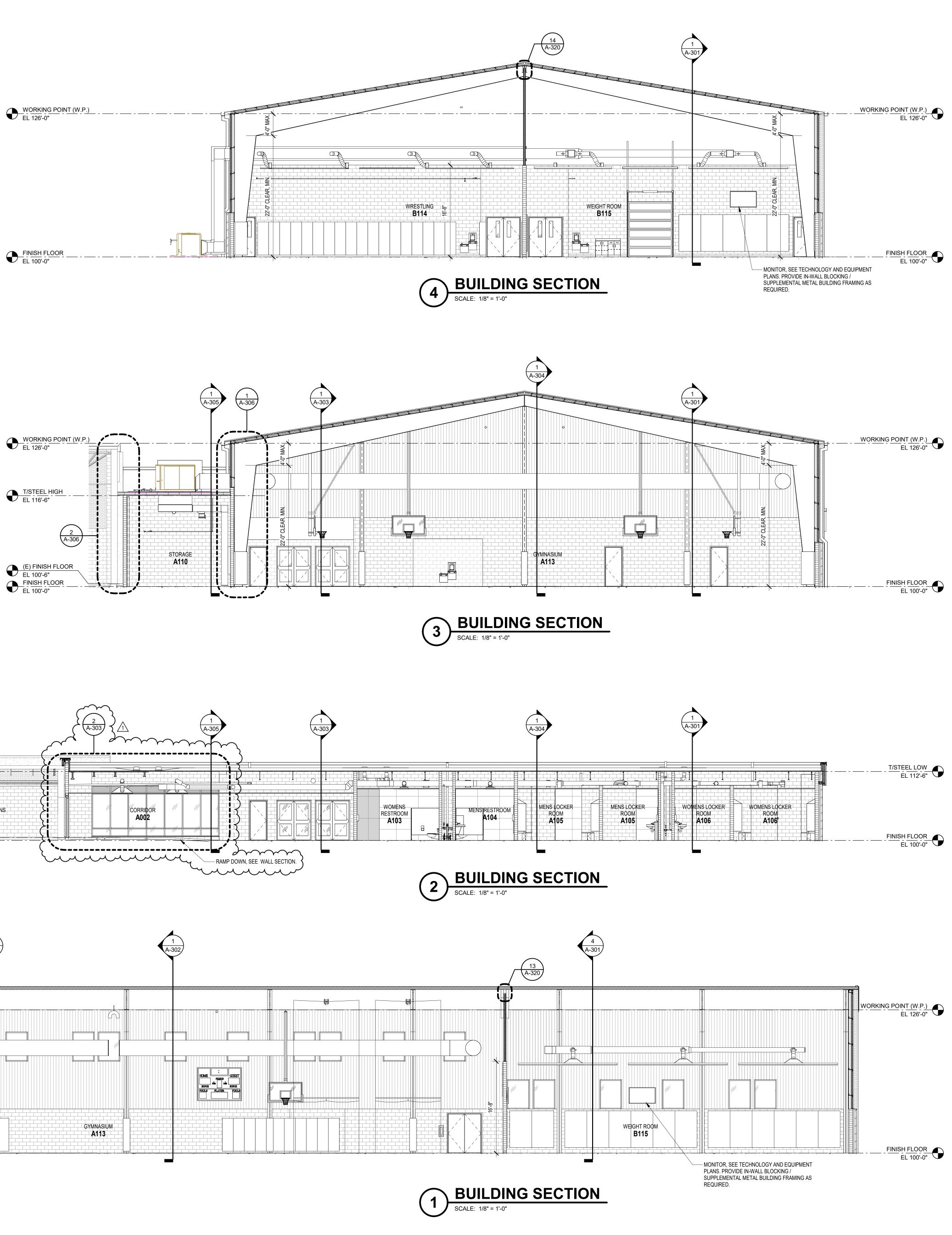


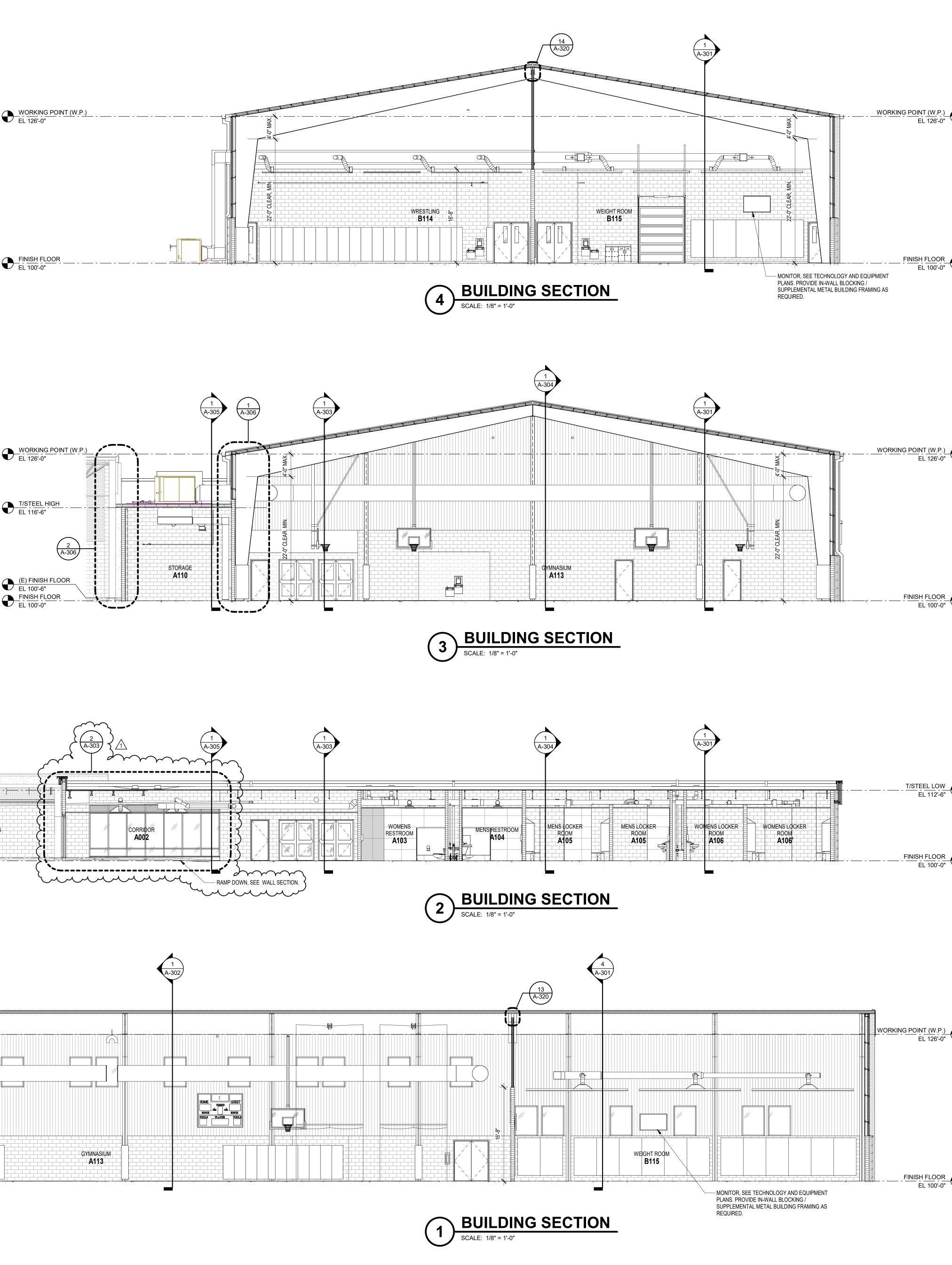


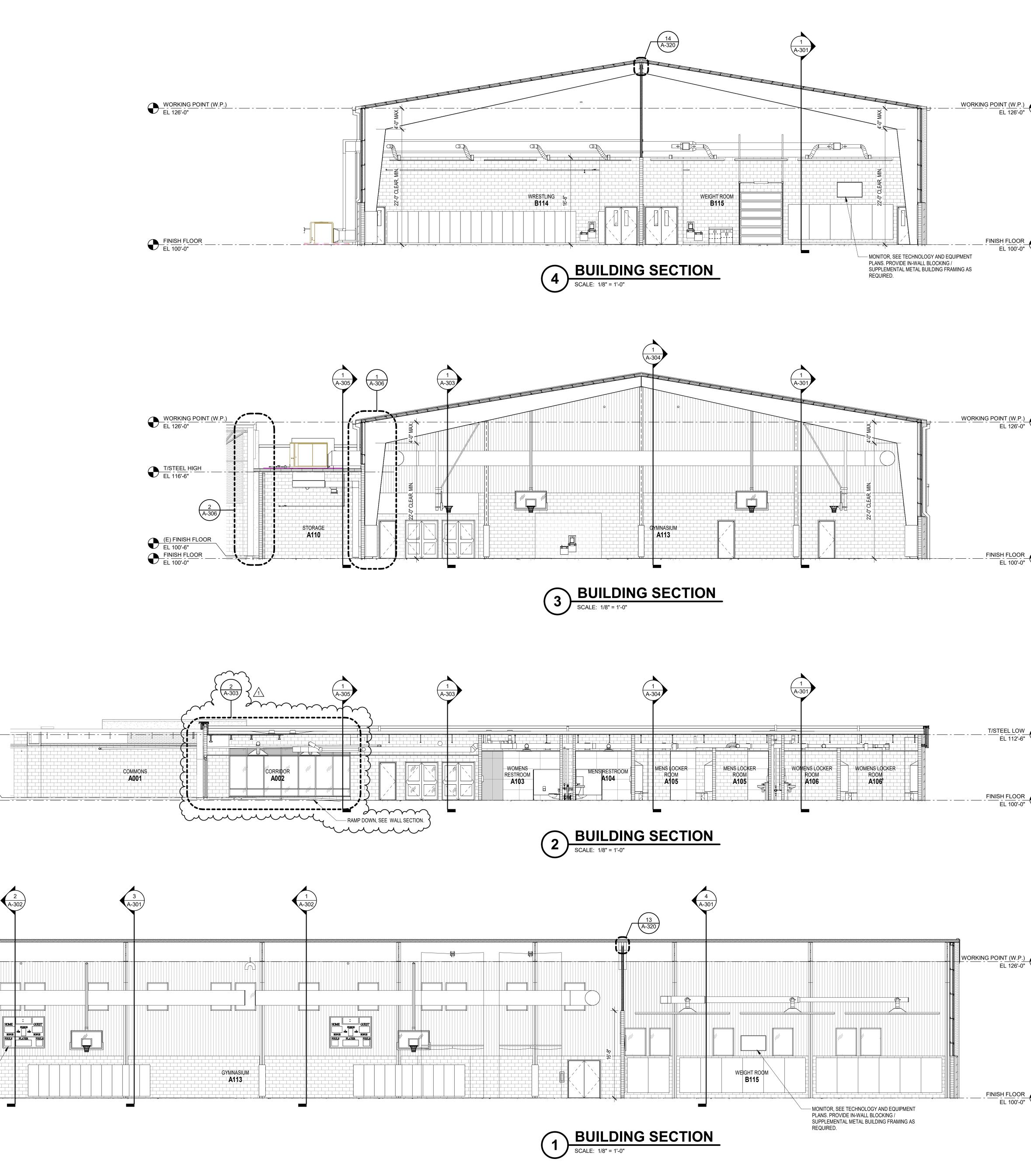


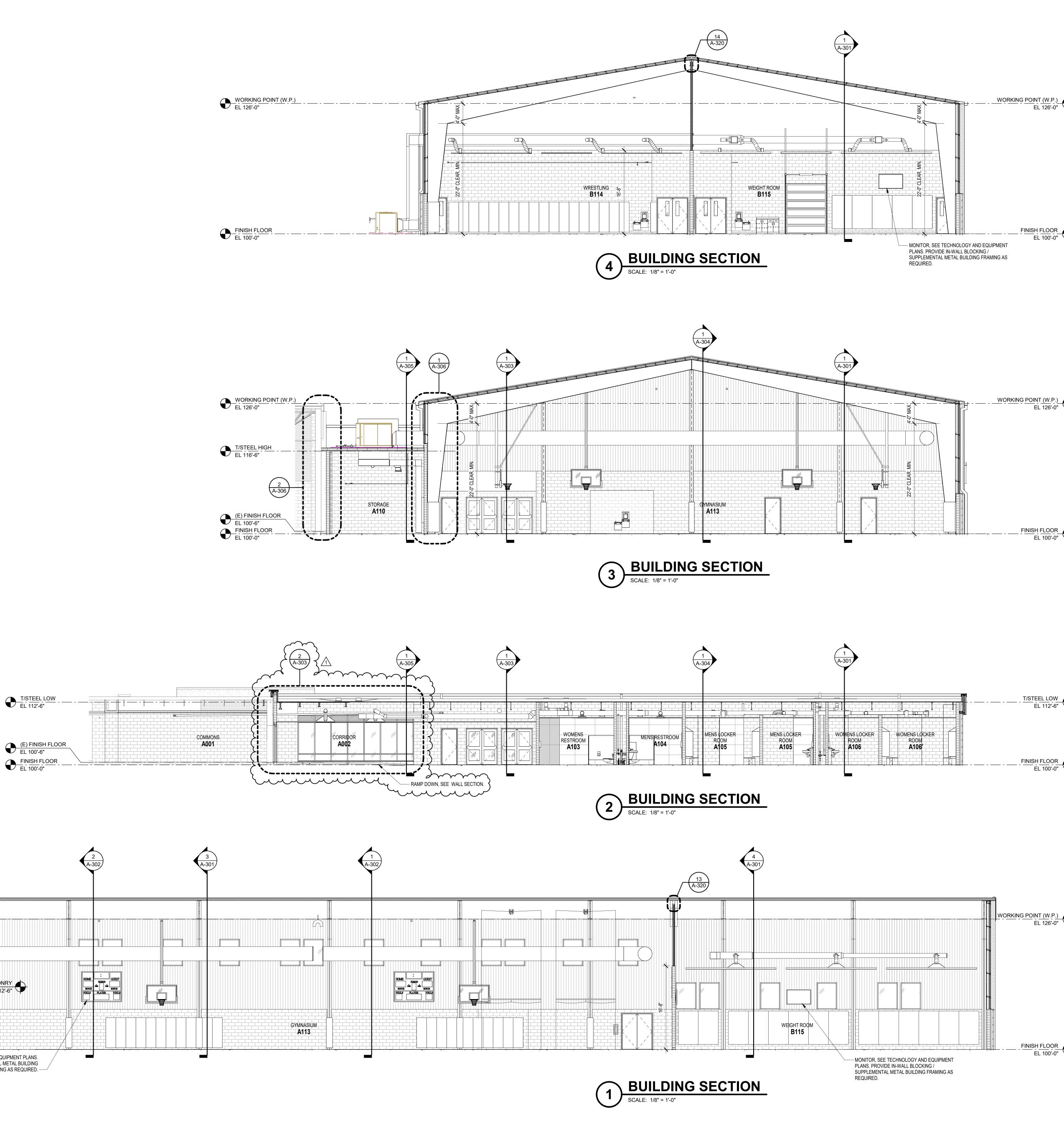


FINISH FLOOR EL 100'-0"

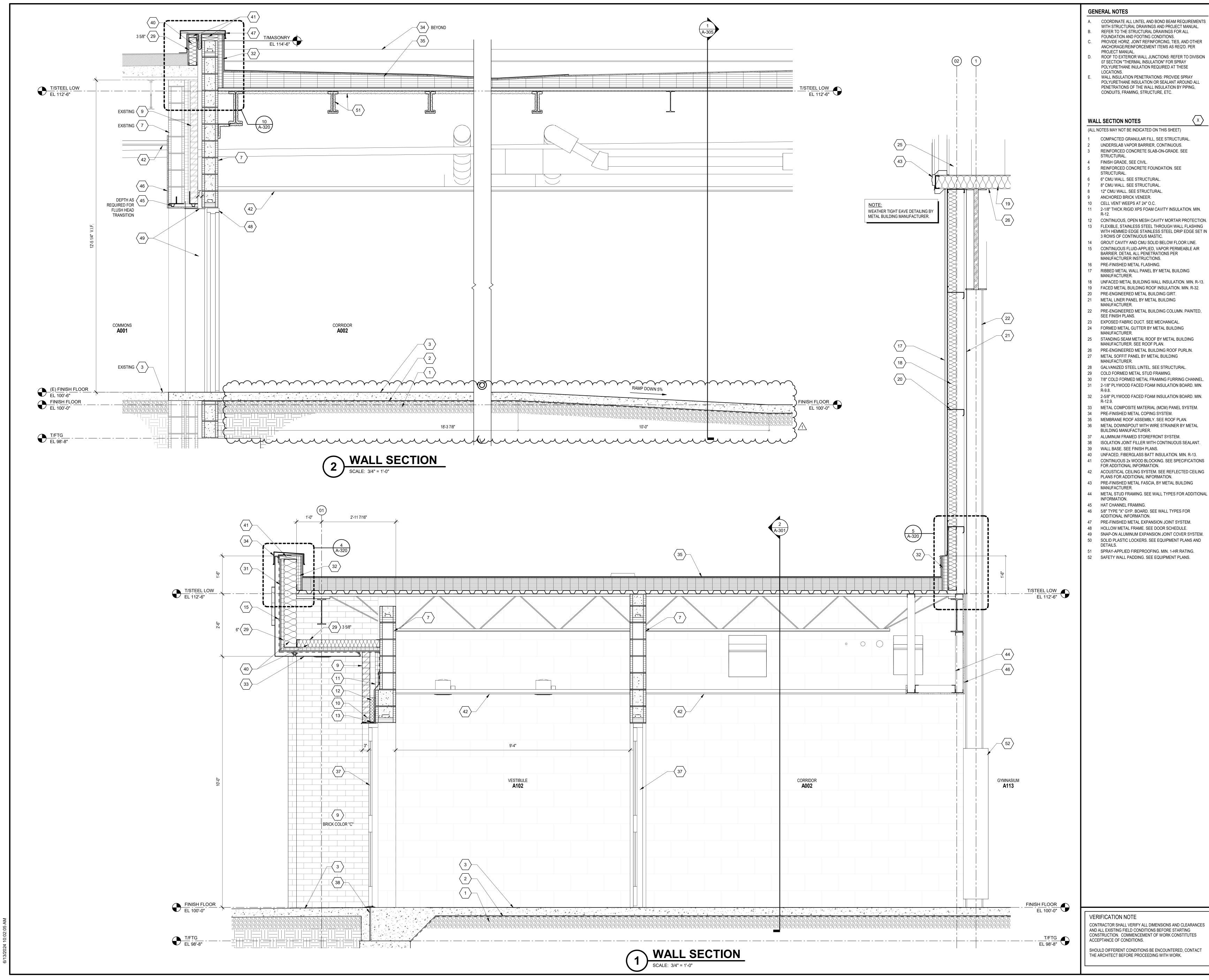


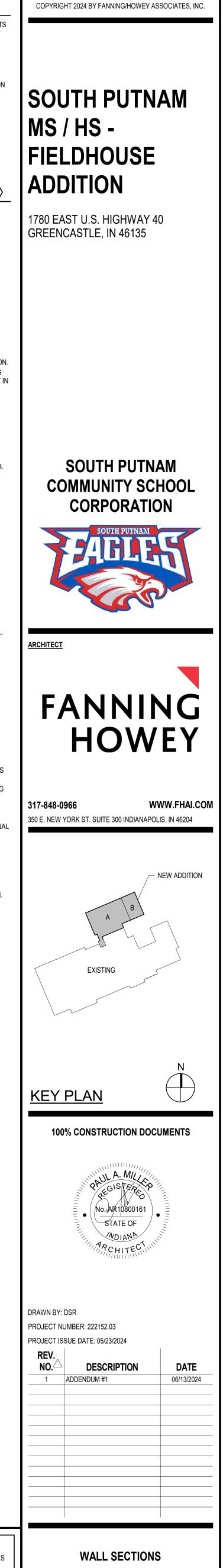




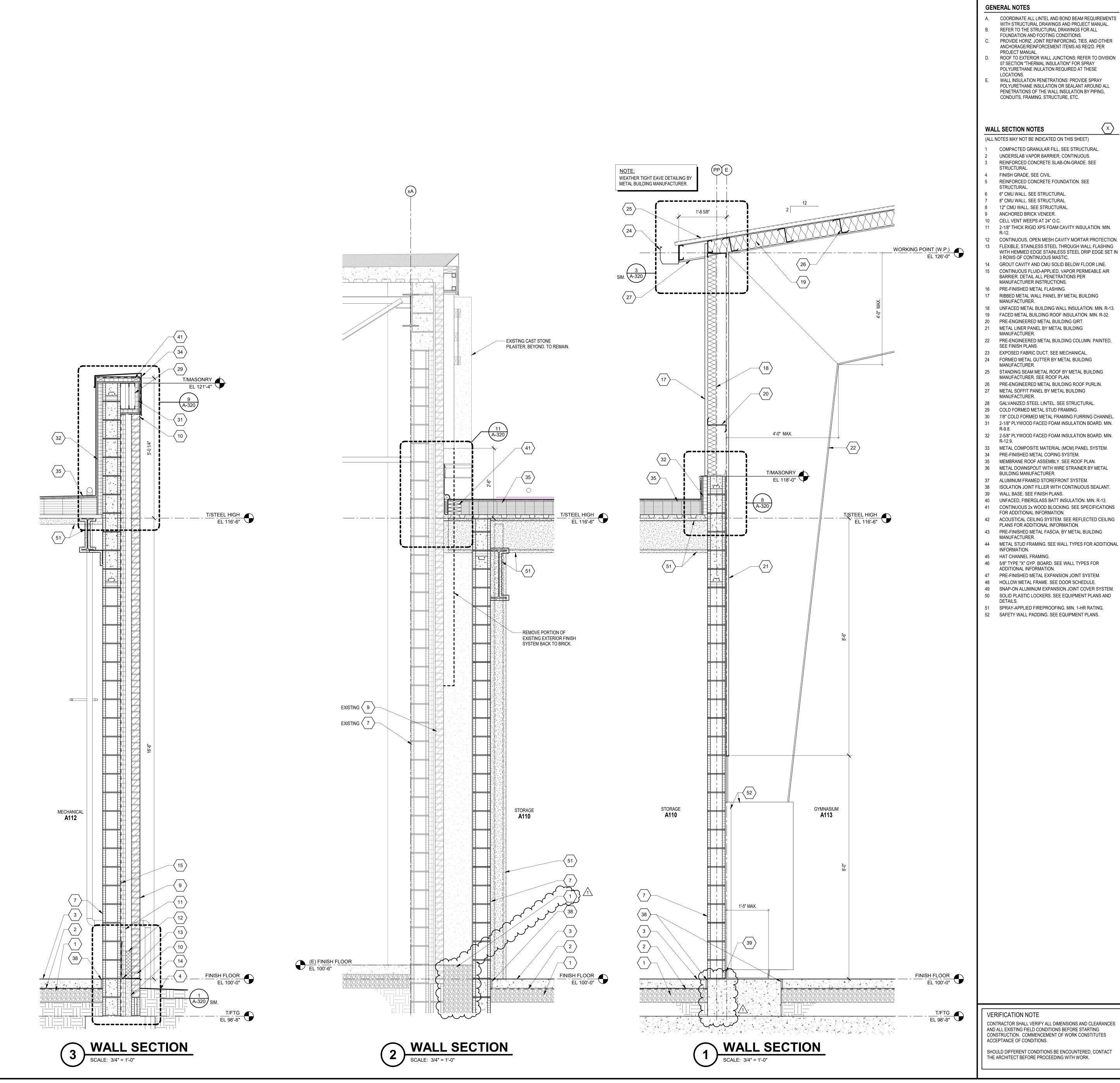






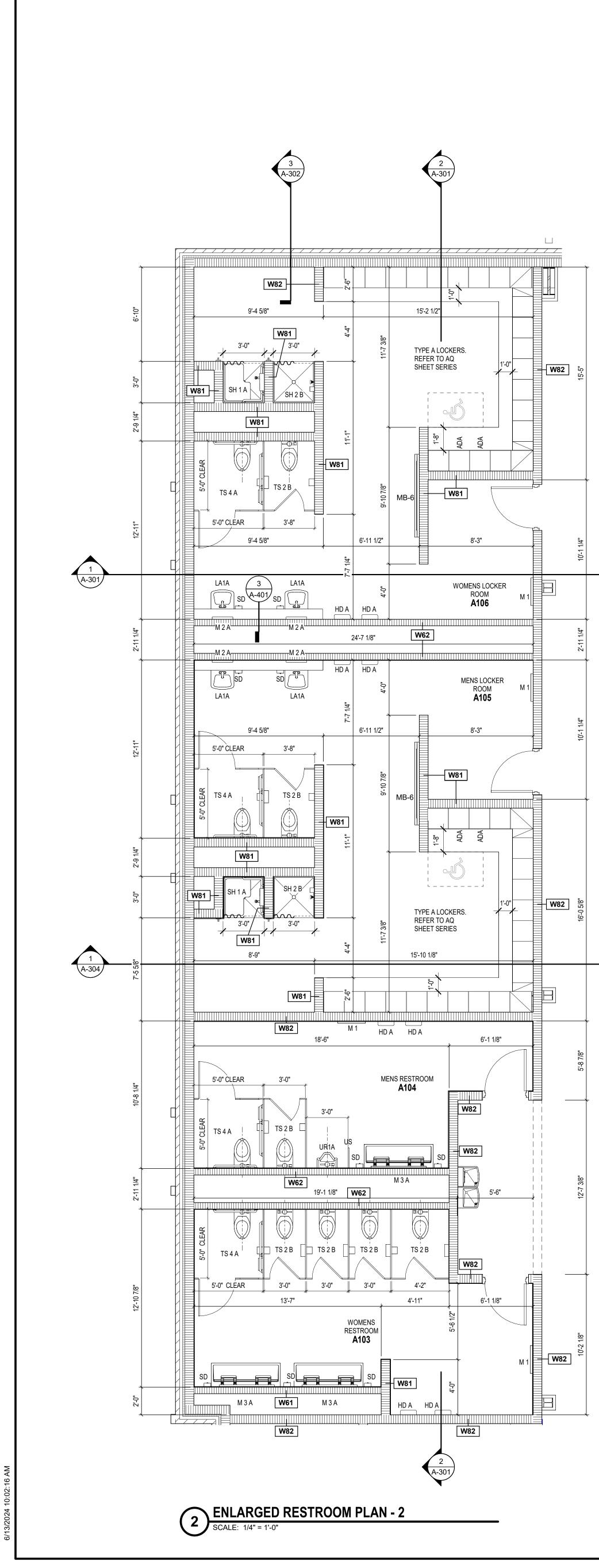


A-303

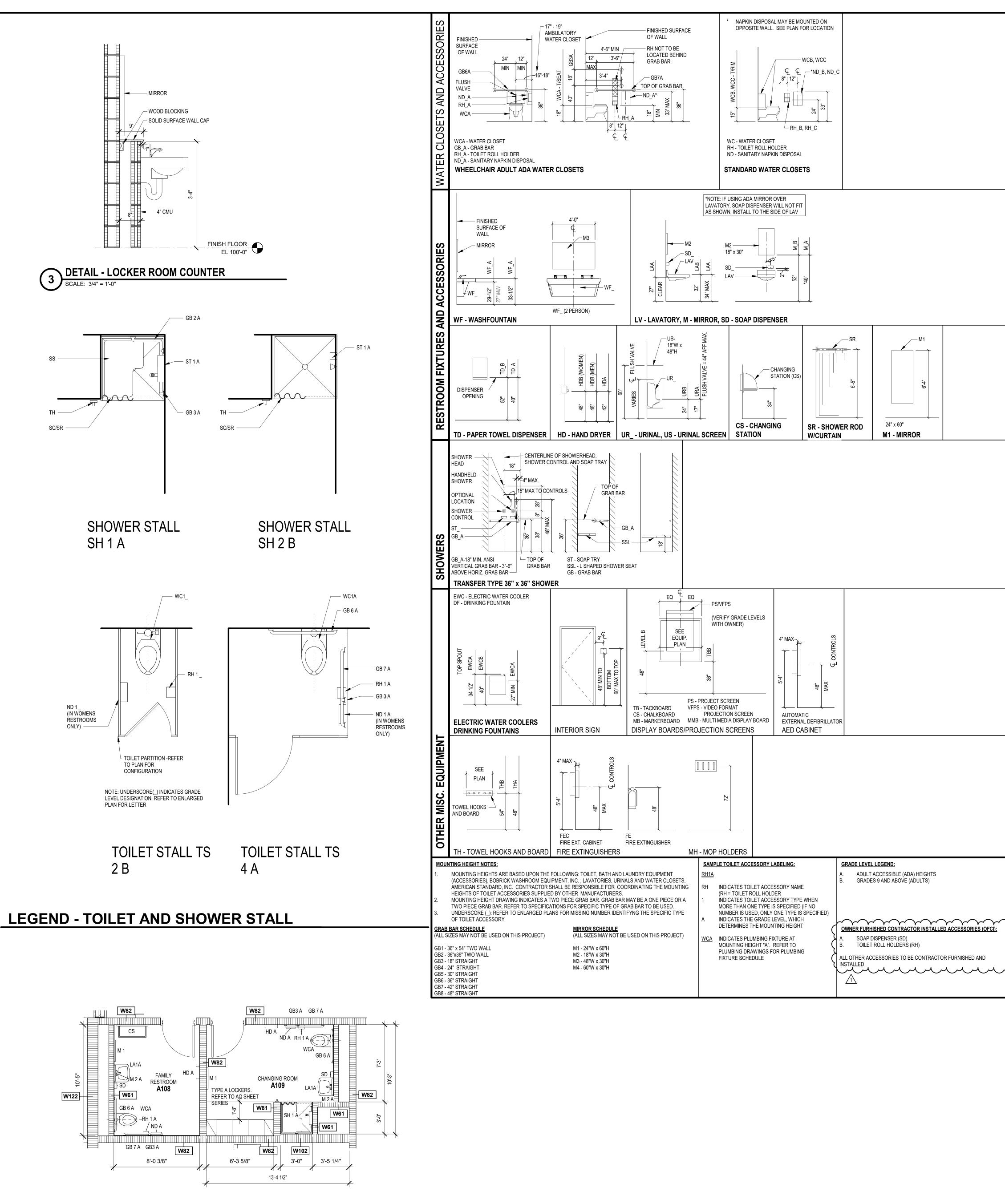




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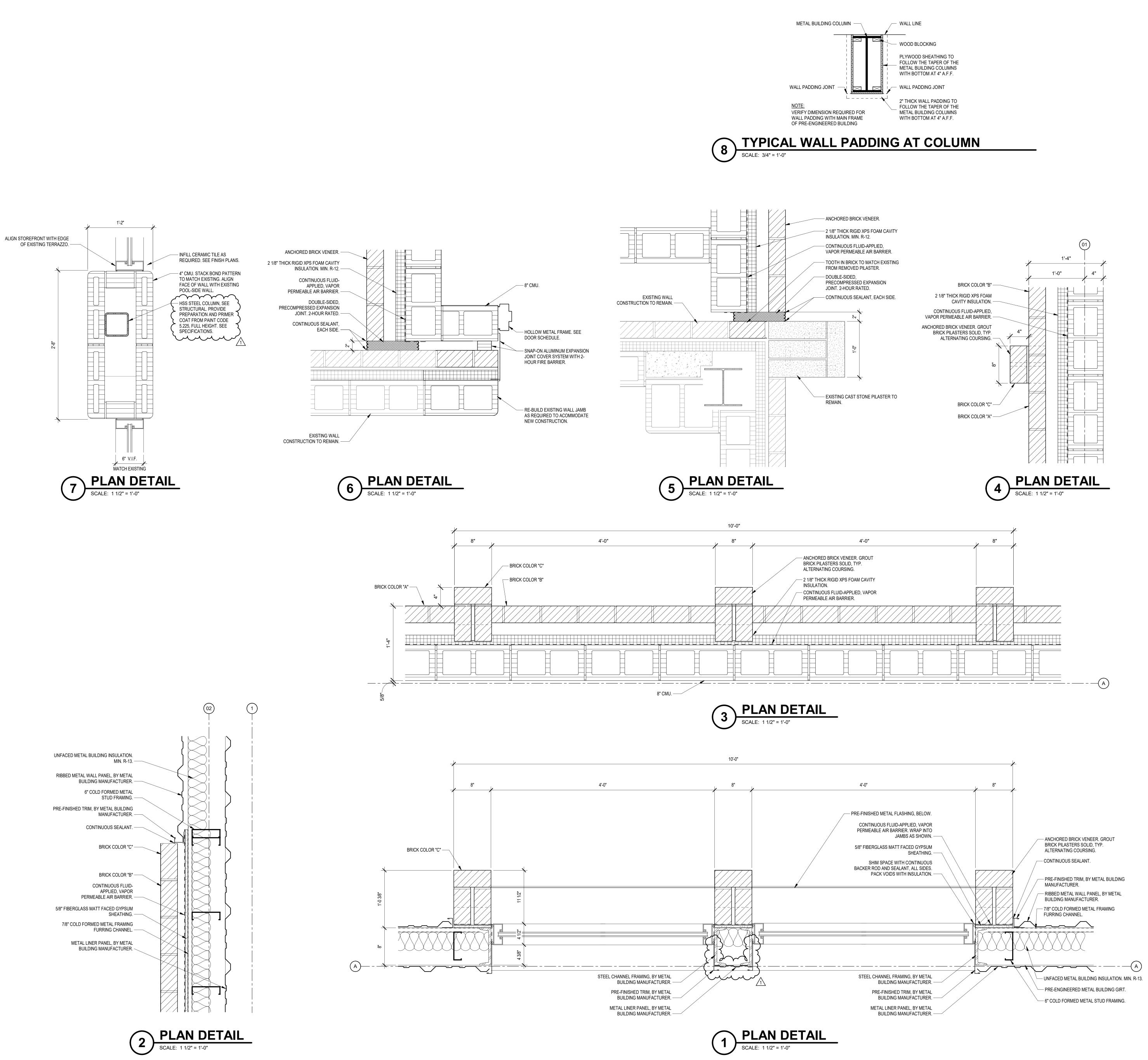


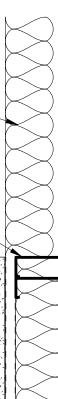
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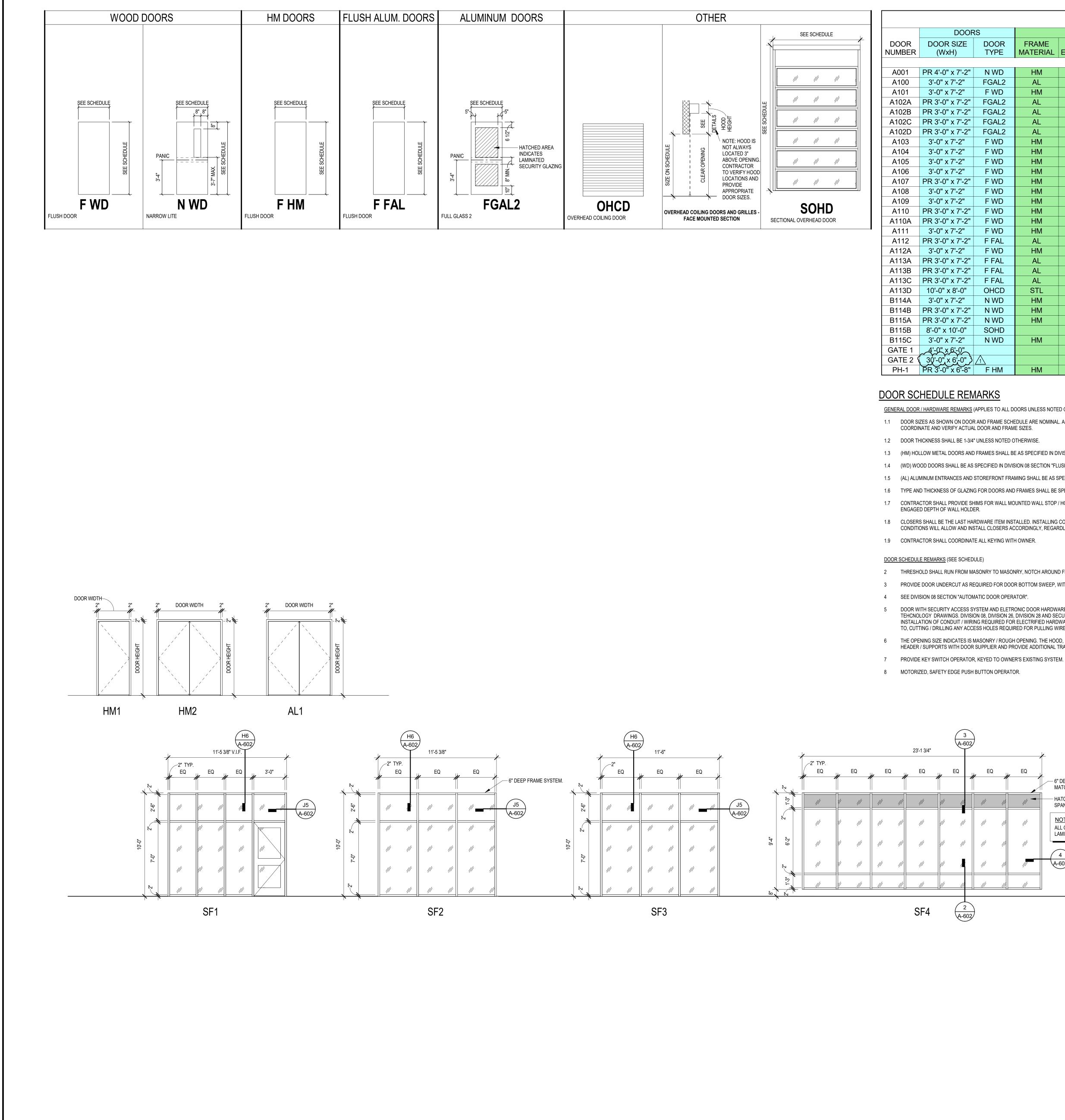
1 ENLARGED RESTROOM PLAN - 1 SCALE: 1/4" = 1'-0"











<u>GENER</u>	AL DOOR / HARDWARE RE
1.1	DOOR SIZES AS SHOWN COORDINATE AND VERIF
1.2	DOOR THICKNESS SHALL
1.3	(HM) HOLLOW METAL DO
1.4	(WD) WOOD DOORS SHA
1.5	(AL) ALUMINUM ENTRANC
1.6	TYPE AND THICKNESS OF
1.7	CONTRACTOR SHALL PRE ENGAGED DEPTH OF WA
1.8	CLOSERS SHALL BE THE CONDITIONS WILL ALLOW
1.9	CONTRACTOR SHALL CO
DOOR	SCHEDULE REMARKS (SEI
2	THRESHOLD SHALL RUN

5 3/8"							(H6 (A-60	2	1'-6"						1.					23'-1 3/4"	$\left(\right)$
EQ	EQ	•	¢		7	_2"	EQ		EQ	EC	2	<u>/</u>			2" TYP. EQ	he	EQ	EQ	بلا	, EQ	EQ
,			6" DEEP FRAME SYSTEM.	5	-					/		-		, , , , , , , , , , , , , , , , , , ,							1
//		//	J5	ر ۳.۴		1/1					//	J5		1-3"	///	. //			///		
			A-602		*							A-602		2"	//	1				///	///
				10'-0" 2"-			,		,		,		9'4"	6'-2"		1				///	
1/1		///		7'-0"	-		///												///		
										//				-3"							
	//			2"	*	///				/			د_ ‱				///				
				1.4	1.									-							,

				R ANI	JFR	AME	SCF	IEDUI					
DOOR	S			FRAME	1				HAF	RDWARE			
SIZE I)	DOOR TYPE	FRAME MATERIAL	FRAME ELEVATION	JAMB DEPTH	HEAD	DETAILS JAMB	SILL	FIRE RATING	SET NO.	KEYSIDE ROOM	STC RATING	REMARKS	DOOR NUMBER
										1	•		
x 7'-2"	N WD	HM	HM2	5 3/4"	H1	J1		90 MIN.	16	EXT		6	A001
7'-2"	FGAL2	AL	SF1	6"	H6	J5			09	EXT			A100
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1			06	A101			A101
x 7'-2"	FGAL2	AL	AL1	4 1/2"	H2	J2	T1		13	EXT		2, 3, 4, 5	A102A
x 7'-2"	FGAL2	AL	AL1	4 1/2"	H2	J2	T1		14	EXT		2, 3, 5	A102B
x 7'-2"	FGAL2	AL	AL1	4 1/2"	H6	J5			01	EXT		4	A102C
x 7'-2"	FGAL2	AL	AL1	4 1/2"	H6	J5			02	EXT			A102D
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1			03	A103			A103
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1			03	A104			A104
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1			03	A105			A105
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1			03	A106			A106
x 7'-2"	F WD	HM	HM2	5 3/4"	H1	J1			07	EXT		5	A107
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1		45 MIN.	04	A108			A108
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1		45 MIN.	04	A109			A109
x 7'-2"	F WD	HM	HM2	5 3/4"	H1	J1		45 MIN.	08	EXT		5	A110
x 7'-2"	F WD	HM	HM2	5 3/4"	H1	J1		45 MIN.	08	EXT		5	A110A
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1		45 MIN.	05	A113		5	A111
x 7'-2"	F FAL	AL	AL1	4 1/2"	H2	J2	T1		15	EXT		2, 3, 5	A112
7'-2"	F WD	HM	HM1	5 3/4"	H1	J1		45 MIN.	10	A113		5	A112A
x 7'-2"	F FAL	AL	AL1	5 3/4"	H5	J2	T1		15			2, 3, 5	A113A
x 7'-2"	F FAL	AL	AL1	5 3/4"	H5	J2	T1		15			2, 3, 5	A113B
x 7'-2"	F FAL	AL	AL1	5 3/4"	H5	J2	T1		15	EXT		2, 3, 5	A113C
8'-0"	OHCD	STL	-	2"	H3	J3	T2		17	EXT		6, 7	A113D
7'-2"	N WD	HM	HM1	5 3/4"	H1	J1			11	EXT			B114A
x 7'-2"	N WD	HM	HM2	5 3/4"	H1	J1			12	EXT		5	B114B
x 7'-2"	N WD	HM	HM2	5 3/4"	H1	J1			12	EXT		5	B115A
0'-0"	SOHD		SOHD		J4	H4			17			8	B115B
7'-2"	N WD	HM	HM1	5 3/4"	H1	J1			11	A113			B115C
à'-0"									18			5	GATE 1
5'-0" 6'-0" }	Λ											7	GATE 2
x 6'-8"	F HM	HM	HM2	5 3/4"					19 20 \	EXT			PH-1
										7			

REMARKS (APPLIES TO ALL DOORS UNLESS NOTED OTHERWISE)

IN ON DOOR AND FRAME SCHEDULE ARE NOMINAL. APPROVED SHOP DRAWINGS MUST BE DISTRIBUTED BETWEEN TRADES TO IFY ACTUAL DOOR AND FRAME SIZES.

LL BE 1-3/4" UNLESS NOTED OTHERWISE.

OORS AND FRAMES SHALL BE AS SPECIFIED IN DIVISION 08.

ALL BE AS SPECIFIED IN DIVISION 08 SECTION "FLUSH WOOD DOORS".

NCES AND STOREFRONT FRAMING SHALL BE AS SPECIFIED IN DIVISION 08.

OF GLAZING FOR DOORS AND FRAMES SHALL BE SPECIFIED IN DIVISION 08 SECTION "GLAZING", UNLESS NOTED OTHERWISE. ROVIDE SHIMS FOR WALL MOUNTED WALL STOP / HOLDERS WHERE THE TRIM (PULL, LEVER OR KNOBS) EXTEND BEYOND THE

VALL HOLDER. E LAST HARDWARE ITEM INSTALLED. INSTALLING CONTRACTOR SHALL VERIFY MAXIMUM DEGREE OF DOOR SWING THAT FIELD OW AND INSTALL CLOSERS ACCORDINGLY, REGARDLESS OF SWING SHOWN ON DRAWINGS.

COORDINATE ALL KEYING WITH OWNER.

SEE SCHEDULE)

N FROM MASONRY TO MASONRY, NOTCH AROUND FRAME.

3 PROVIDE DOOR UNDERCUT AS REQUIRED FOR DOOR BOTTOM SWEEP, WITH ADA COMPLIANT THRESHOLD AS SCHEDULED.

5 DOOR WITH SECURITY ACCESS SYSTEM AND ELETRONIC DOOR HARDWARE. SEE DIVISION 08 SECTION "DOOR HARDWARE" AND ELECTRICAL / TEHCNOLOGY DRAWINGS. DIVISION 08, DIVISION 26, DIVISION 28 AND SECURITY ACCESS CONTRACTOR TO COORDINATE FOR LOCATION AND INSTALLATION OF CONDUIT / WIRING REQUIRED FOR ELECTRIFIED HARDWARE ITEMS MOUNTED TO DOORS AND FRAMES, INCLUDING BUT NOT LIMITED TO, CUTTING / DRILLING ANY ACCESS HOLES REQUIRED FOR PULLING WIRES THROUGH FRAME HEAD / JAMBS TO THE ELECTRIFIED HARDWARE ITEMS.

6 THE OPENING SIZE INDICATES IS MASONRY / ROUGH OPENING. THE HOOD, MOTOR, ETC. OF COILING DOOR IS TO BE MOUNTED ABOVE. COORDINATE HEADER / SUPPORTS WITH DOOR SUPPLIER AND PROVIDE ADDITIONAL TRACK AND CURTAIN LENGTH AS REQUIRED.

A-60 A-602 5. EQ EQ - 6" DEEP FRAME SYSTEM, MATCH EXISTING. - HATCHED AREA INDICATES ||| SPANDREL GLAZING. $\begin{array}{c}
5\\
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A-602
\end{array}$ $\begin{array}{c}
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A-602
\end{array}$ NOTE: A-602 (A-602) (A-602) (A-602) (A-602) (A-602) (A-602) ||| ALL GLAZING ON SF4 SHALL BE @16'-8" @8'-0" LAMINATED, SECURITY GLAZING. SF5

2 A-602

DOOR MATERIAL HM - STEEL DOOR

LEGEND:

AL	-	ALUMINUM DOOR
FAL	-	FLUSH ALUMINUM DOOR
FWD	-	FLUSH WOOD DOORS
EDD	_	EIBERGI ASS DOORS

I M	-	TIDEITOLAGO DOOTTO	
TGD	-	TEMPERED GLASS DOOR	

WGHM - WOOD GRAIN HOLLOW METAL SS - STAINLESS STEEL

DCGD - DISPLAY CASE GLASS DOOR SGD - SLIDING GLASS DOOR

WMP - WIRE MESH PARTITION GATE

FRAME MATERIAL

HM - HOLLOW METAL FRAME AL - ALUMINUM FRAME

	-	
W	-	CURTAIN WALL

S	-	STAINLESS STEEL	

ETR - EXISTING TO REMAIN EXT - EXTERIOR GL - GLASS OH - OVERHEAD PR - PAIR SIM - SIMILAR CCD - COILING COUNTER DOOR OHCD - OVERHEAD COILING DOOR OHCFD - OVERHEAD COILING FIRE DOOR CCFD - COILING COUNTER FIRE DOOR OHCG - OVERHEAD COILING GRILLE

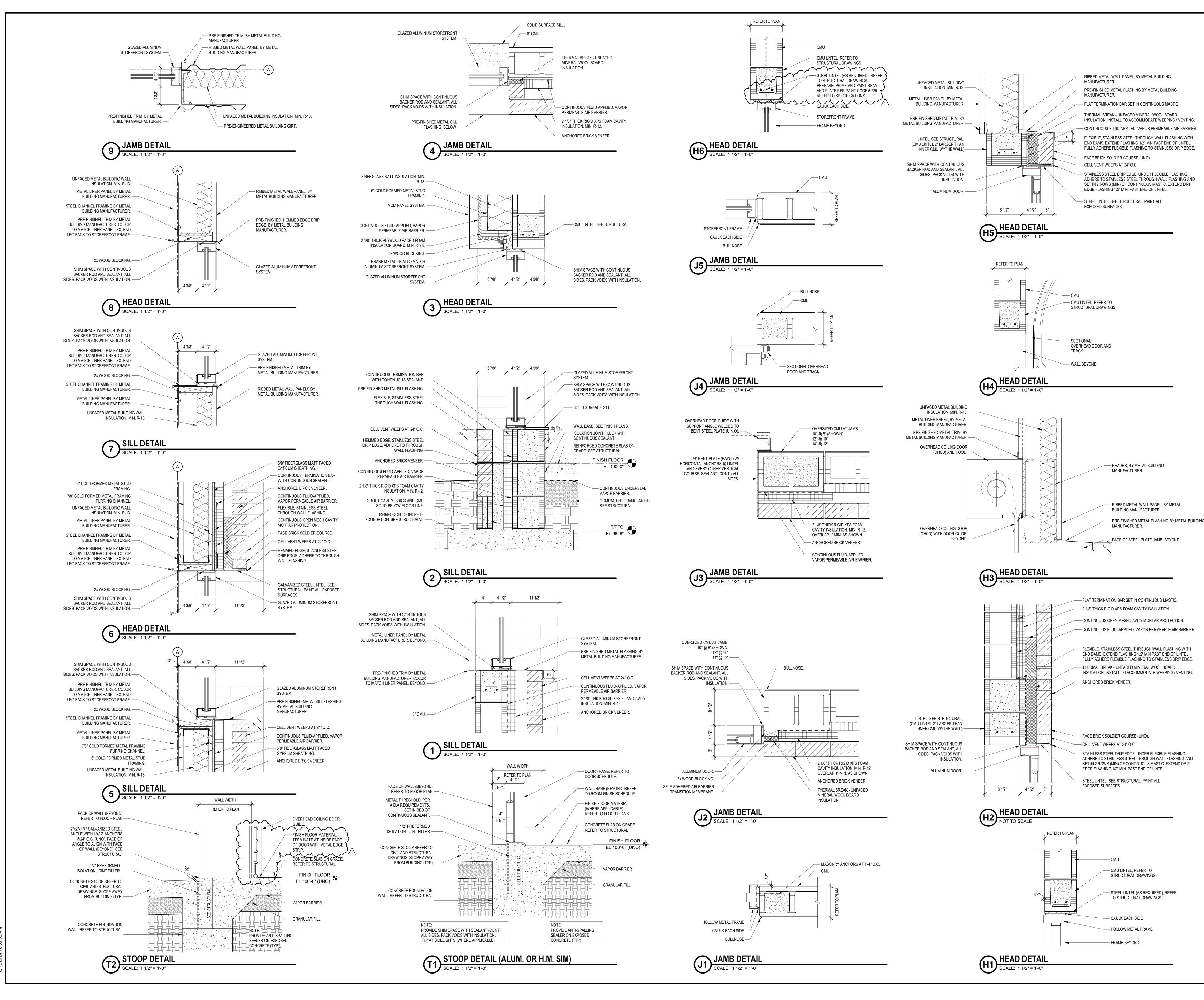
FIRE RATING IN MINUTES

<u>GENERAL</u>

20	-	20 MINUTE
45	-	C LABEL 3/4 HOUR (INTERIOR); E LABEL 3/4 HOUR (EXTERIOR)
60	-	B LABEL 1 HOUR
90	-	B LABEL 1-1/2 HOUR (INTERIOR); D LABEL 1-1/2 HOUR (EXTERIOR)
180	-	A LABEL 3 HOUR
S	-	S LABEL (SMOKE) I.E. 20/S, ETC.

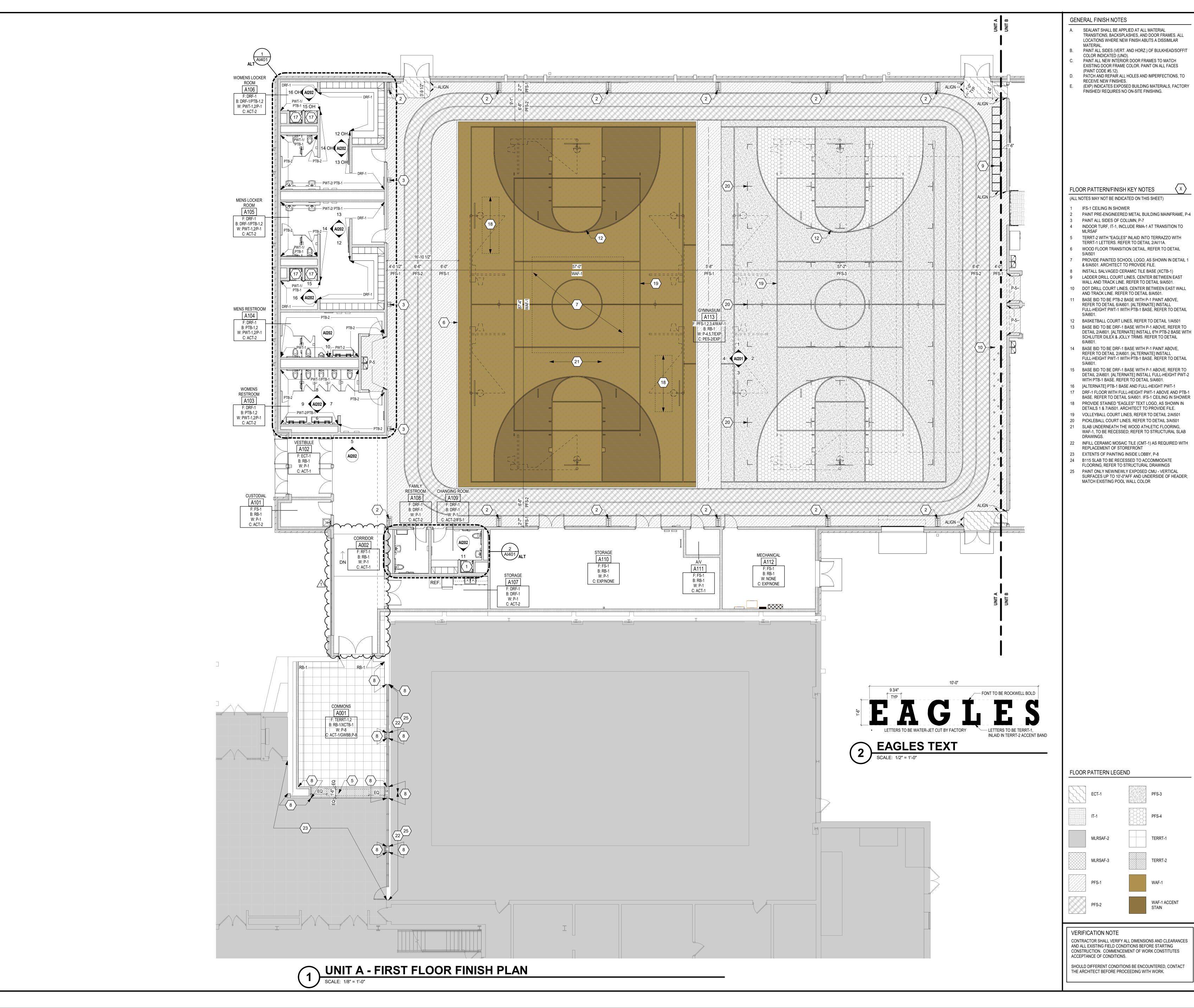
SF6





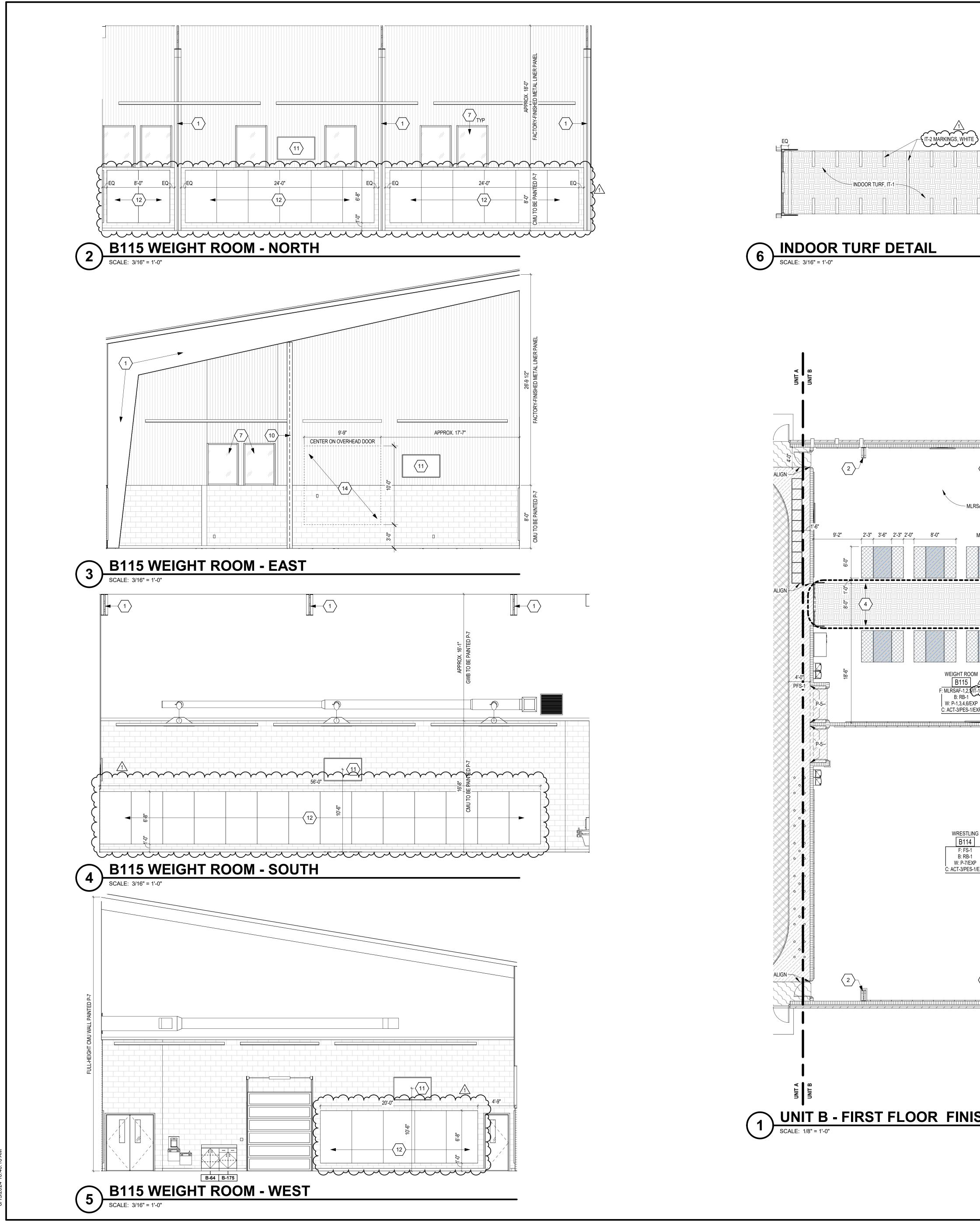








AI11A



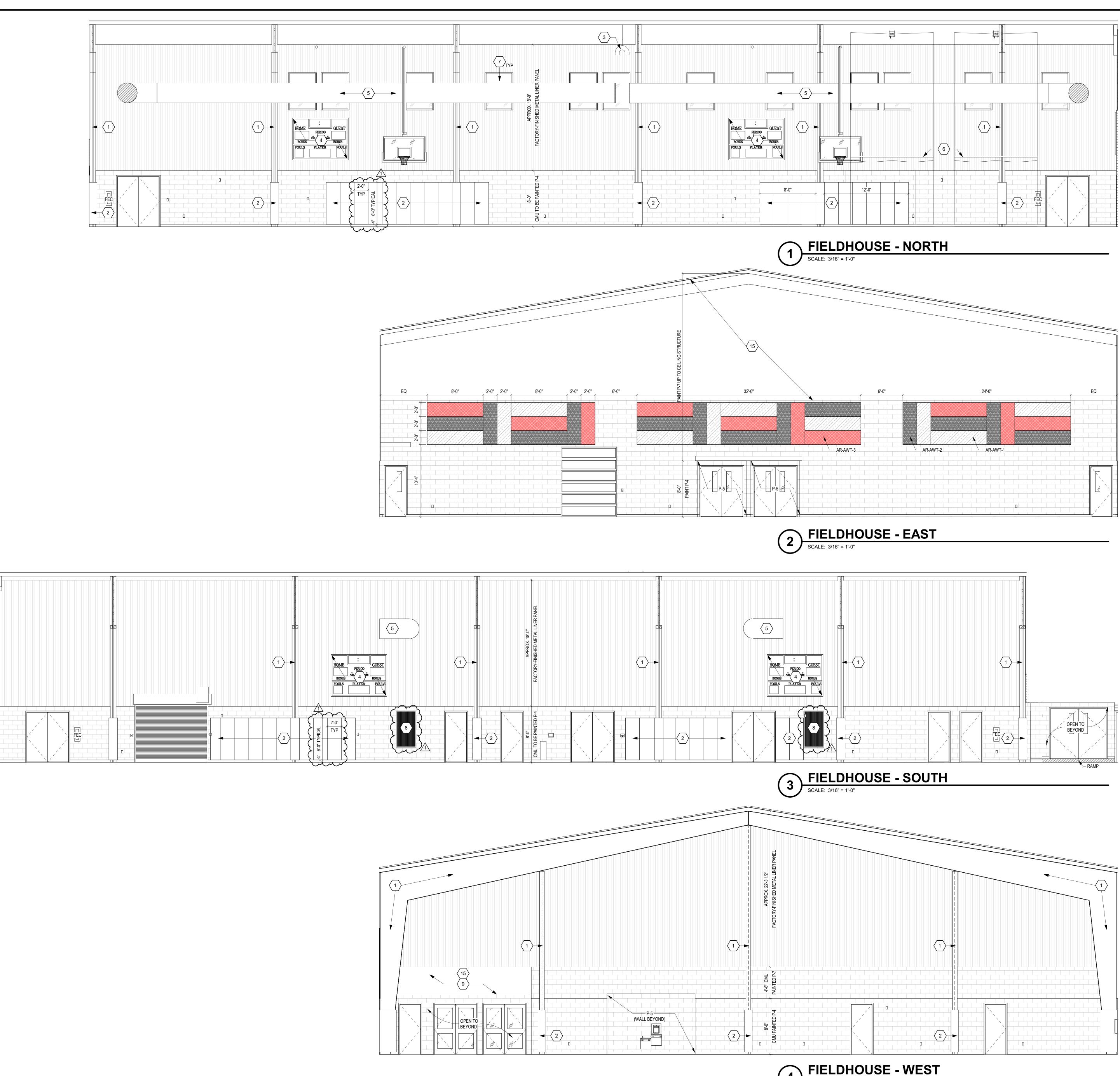
	 GENERAL FINISH NOTES A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL. B. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO). C. PAINT ALL NEW INTERIOR DOOR FRAMES TO MATCH EXISTING DOOR FRAME COLOR. PAINT ON ALL FACES. D. PATCH AND REPAIR ALL HOLES AND IMPERFECTIONS, TO RECEIVE NEW FINISHES. E. REFER TO AI601 FOR LIST OF FINISHES. F. REFER TO AQ601 FOR EQUIPMENT LIST OF FINISHES / ANY FINISHES NOT LISTED ON AI601. G. (EXP) INDICATES EXPOSED BUILDING MATERIALS, FACTORY FINISHED/ REQUIRES NO ON-SITE FINISHING. H. (XCTB) INDICATES SALVAGED CERAMIC TILE BASE
	 FLOOR PATTERNYFINISH KEY NOTES (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET) IFS-1 CEILING IN SHOWER PAINT PRE-ENGINEERED METAL BUILDING MAINFRAME, P-4 PAINT ALL SIDES OF COLUMN, P-7 INDOOR TURF, IT-1, INCLUDE RMA-1 AT TRANSITION TO MIRSAF TERRT-2 WITH "EAGLES" INLAID INTO TERRAZZO WITH TERRT 1. LETTERS. REFER TO DETAIL 2/A111A. GWODD FLOOR TRANSITION DETAIL, REFER TO DETAIL S/AIS01 RODDE PAINTED SCHOOL LOGO, AS SHOWN IN DETAIL 1 & 6/AIS01 RODDE PRILL COURT LINES, CENTER BETWEEN EAST WALL AND TRACK LINE. REFER TO DETAIL 8/AIS01. DOT DRILL COURT LINES, CENTER BETWEEN EAST WALL AND TRACK LINE. REFER TO DETAIL 8/AIS01. DOT DRILL COURT LINES, CENTER BETWEEN EAST WALL AND TRACK LINE. REFER TO DETAIL 8/AIS01. BASE BID TO BE PTB-2 BASE WITH P-1 PAINT ABOVE, REFER TO DETAIL 6/AI601. (ALTERNATE] INSTALL FULL-HEIGHT PWT-1 WITH PTB-1 BASE. REFER TO DETAIL 5/AI601. BASE BID TO BE DRF-1 BASE WITH P-1 PAINT ABOVE, REFER TO DETAIL 2/AI601. (ALTERNATE] INSTALL FULL-HEIGHT PWT-1 WITH PTB-1 BASE. REFER TO DETAIL 5/AI601. BASE BID TO BE DRF-1 BASE WITH P-1 PAINT ABOVE, REFER TO DETAIL 2/AI601. (ALTERNATE] INSTALL FULL-HEIGHT PWT-1 WITH PTB-1 BASE. REFER TO DETAIL 5/AI601. BASE BID TO BE DRF-1 BASE WITH P-1 ABOVE, REFER TO DETAIL 2/AI601. (ALTERNATE] INSTALL FULL-HEIGHT PWT-2 WITH PTB-1 BASE. REFER TO DETAIL 5/AI601. BASE BID TO BE DRF-1 BASE WITH P-1 ABOVE, REFER TO DETAIL 2/AI601. (ALTERNATE] INSTALL FULL-HEIGHT PWT-2 WITH PTB-1 BASE. REFER TO DETAIL 5/AI601. BASE BID TO BE DRF-1 BASE WITH P-1 ABOVE, REFER TO DETAIL 2/AI601. (ALTERNATE] INSTALL FULL-HEIGHT PWT-2 WITH PTB-1 BASE. REFER TO DETAIL 5/AI601. JULL REGATI DWT-1 WITH FULL-HEIGHT PWT-1 DYLL REGATI PWT-1 WITH FULL HEIGHT PWT-1 WOLDE STAINED TABASE. REFER TO DETAIL 2/AI601. JULL REGATI DWT-1 WITH FULL-HEIGHT PWT-1 WITH PTB-1 BASE. REFER TO DETAIL 2/AI601. JULL
	INTERIOR ELEVATION KEY NOTES INTERIOR ELEVATION KEY NOTES JALINOTES MAY NOT BE INDICATED ON THIS SHEET INTERIOR MAIN FRAME, P.4 1 PAINT ALL SIDES OF MAINFRAME, P.4 1 WALL PADDING, PE-5; SEE 8/A410 FOR DETAIL AT MAINFRAMES 0 DIVIDER CURTAIN, PE-3 0 DIVIDER CURTAIN, PE-3 0 DIVIDER CURTAIN, PE-3 0 DIVIDER CURTAIN, PE-5 0 DIVIDER CURTAIN, STATIC LOAD OF SCOREBOARD ONLY IS APPROX. 110LBS. 0 MECHANICAL RELTON MASERIES DRAWINGS 0 MECHANICAL RUCH, REFER TO MH SERIES DRAWINGS 0 MINDOW, BEYOND 0 MINTOR, BY OWNER; REFER TO TECHNOLOGY DRAWINGS 0 MINTOR, DAY OWNER; REFER TO TECHNOLOGY DRAWINGS 0 MIRCON 0 MIRCON 0 MIRCON 0 MINT EAGLE GRAPHIC ON
ISH PLAN	ETF-1PFS-4ETF-2MLRSAF-2III
	VERIFICATION NOTE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

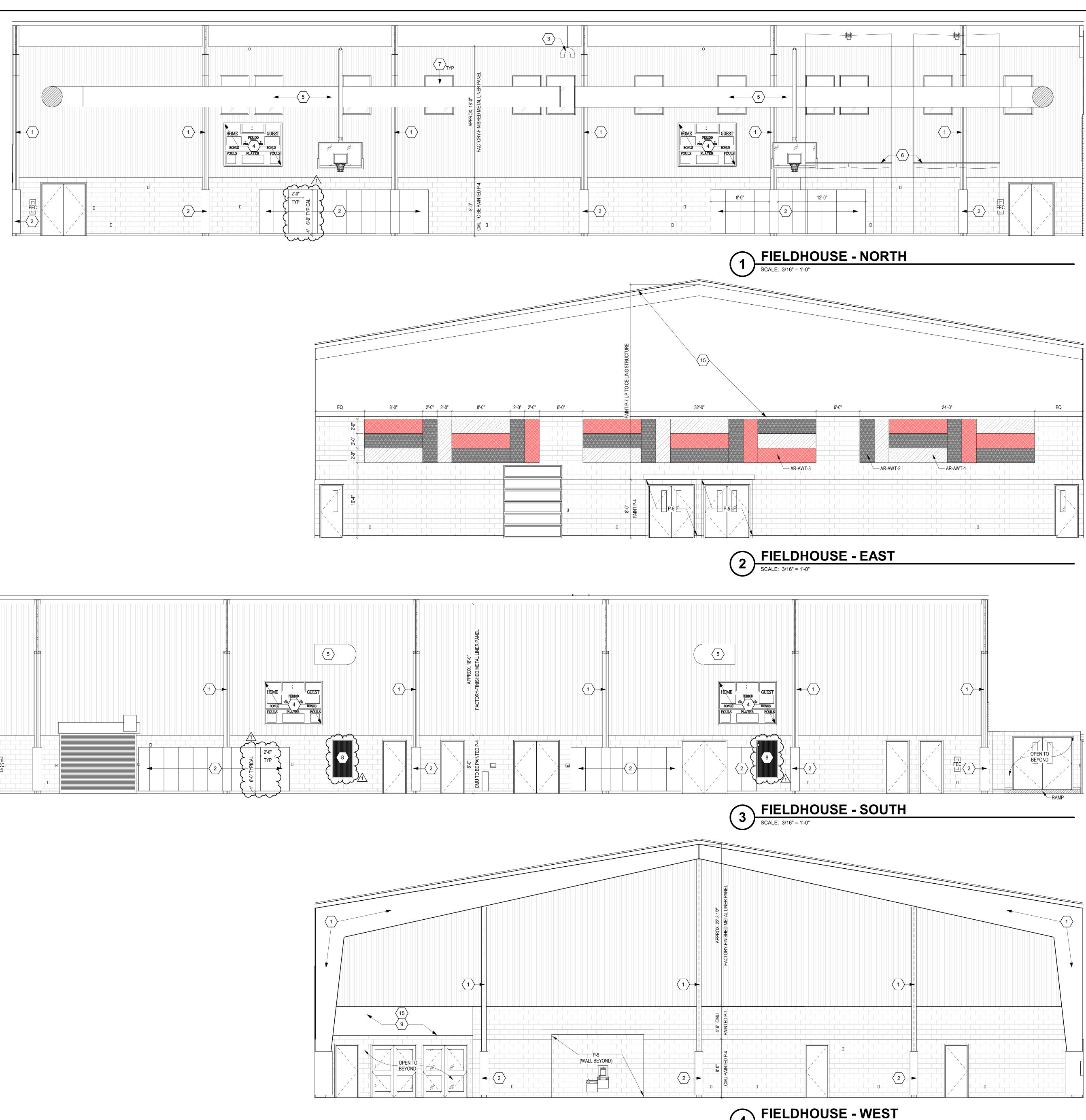
GENERAL FINISH NOTES



AI11B







4 FIELDHOUSE - WEST SCALE: 3/16" = 1'-0"

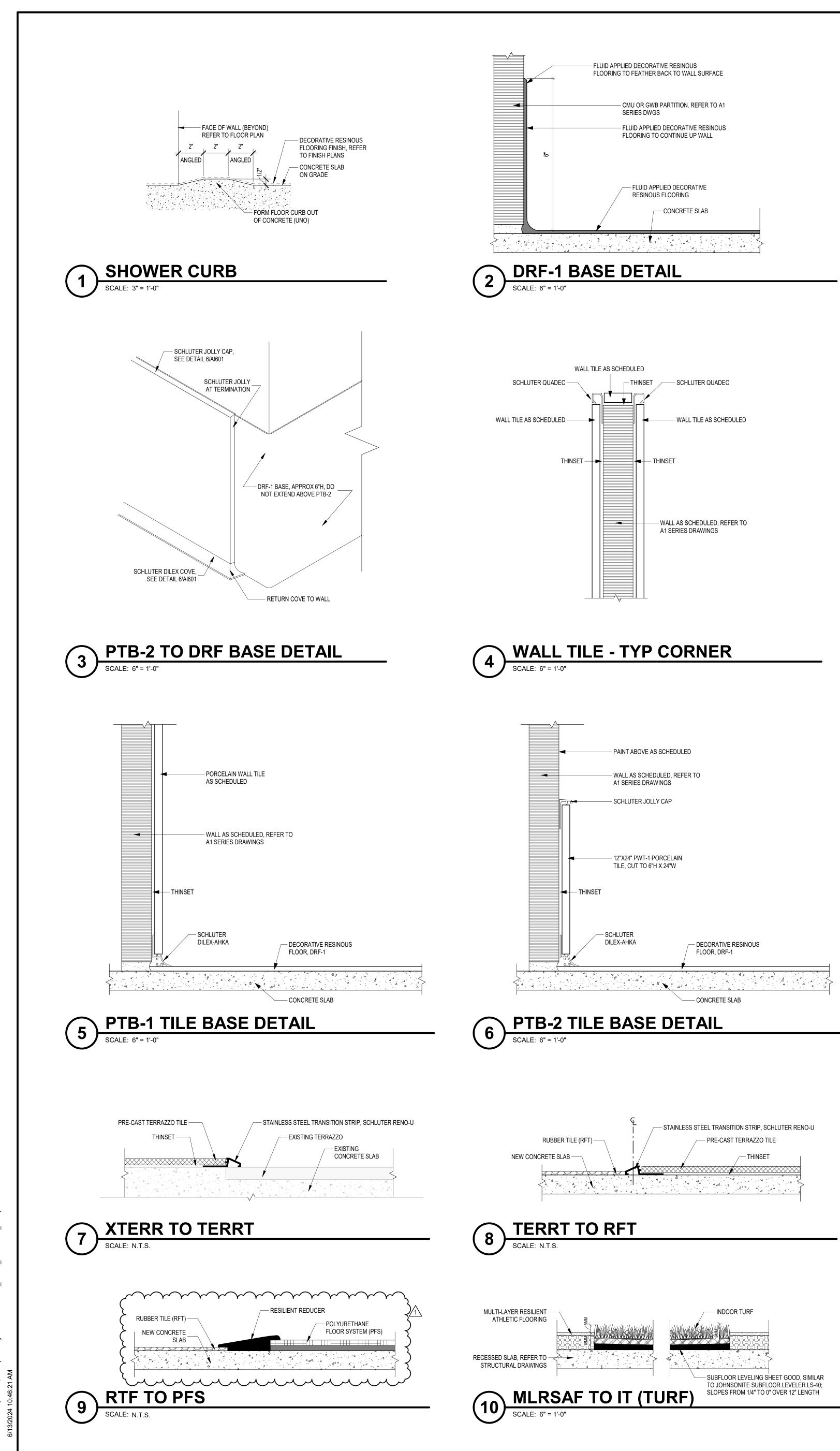
- INTERIOR ELEVATION NOTES (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
- 1 PAINT ALL SIDES OF MAINFRAME, P-4 2 WALL PADDING, PE-5; SEE 8/A410 FOR DETAIL AT MAINFRAMES
- 3 DIVIDER CURTAIN, PE-3 4 MULTI-SPORT SCOREBOARD, NEVCO MODEL 2750, MOUNT TO METAL LINER PANEL WITH STEEL CROSS MEMBERS WHICH ARE TO BE PROVIDED BY PRE-ENGINEERED BUILDING MFR. HOLD PLUMB. STATIC LOAD OF
- SCOREBOARD ONLY IS APPROX. 110LBS. 5 MECHANICAL DUCT, REFER TO MH SERIES DRAWINGS
- 6 BATTING CAGES, PE-2 WINDOW, BEYOND 8 MECHANICAL RETURN GRILLE, REFER TO MH SERIES
- DRAWINGS 9 PAINT ALL SIDES OF GWB BULKHEAD, P-7 10 PAINT ALL SIDES OF STEEL COLUMN, P-7
- 11 TV MONITOR, BY OWNER; REFER TO TECHNOLOGY DRAWINGS 12 MIRRORS
- 13 PAINT EAGLE GRAPHIC ON WALL IN EXTENTS SHOWN; REFER TO 4/AI501 FOR PATTERN AND PAINT COLORS. ARCHITECT TO PROVIDE FILE. COORDINATE MEPT ITEMS AND ADO COVER LOCATIONS WITH GRAPHIC PLACEMENT. 14 PAINT "SP" GRAPHIC ON WALL IN EXTENTS SHOWN; REFER TO 10/AI501 FOR PATTERN AND PAINT COLORS. ARCHITECT TO PROVIDE FILE. COORDINATE MEPT ITEM LOCATIONS WITH GRAPHIC PLACEMENT.
- 15 IMPACT-RESISTANT GYPSUM WALLBOARD 16 FORMED SHOWER BASE, REFER TO DETAIL 1/AI601 17 INCLUDE SCHLUTER QUADEC TRIM, REFER TO DETAIL 4/AI601

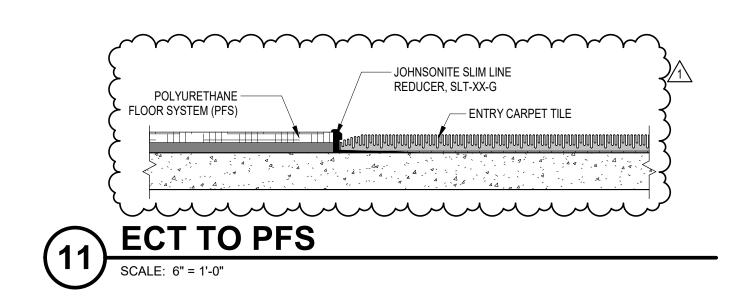
VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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







ABUSE-RESISTANT ACOU	JSTICAL WALL TILES	
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
AR-AWT-1 AR-AWT-2 AR-AWT-3	ARMSTRONG / TECTUM ARMSTRONG / TECTUM ARMSTRONG / TECTUM	TO BE SELECTED (ME TO BE SELECTED (DAI MATCH P-5
GROUT		
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
GT-1 (WALL TILE) GT-2 (SALVAGED BASE) GT-3 (POOL)	REFER TO SPECIFICATIONS REFER TO SPECIFICATIONS REFER TO SPECIFICATIONS	TO BE SELECTED TO BE SELECTED (BES TO BE SELECTED (BES
INTERIOR WOOD DOORS	/ INTERIOR WOOD TRIM	
WOOD SPECIES TO BE P	S, WOOD TRIM, ETC. COLOR TO BE SELECT LAIN SLICED RED OAK. AMPLES FOR VERIFICATION.	ED (BEST MATCH EXISTING).
RESILIENT MOLDING AC	CESSORIES	
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
		TO BE SELECTED

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	C
ACT-1	ARMSTRONG / SCHOOL ZONE	V
ACT-2	FINE FISSURED HIGH NRC #1713 ARMSTRONG / TUNDRA #301	V
ACT-3	ARMSTRONG / SCHOOL ZONE	V
	FINE FISSURED HIGH NRC #1713	
INTERIOR FINISH SYSTE	М	
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	(
IFS-1	REFER TO SPECIFICATIONS	T
IFS-1 PAINTED EXPOSED STRU		1
PAINTED EXPOSED STRU	JCTURE	T C N
PAINTED EXPOSED STRU	JCTURE MATERIAL/MANUFACTURER	(

PAINT TYPE GENERAL NOTES

	PAINTING.
В.	PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SH/
	HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED
A.	UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWOR

- <u>WALLS</u> A. CONCRETE MASONRY UNITS (CMU): PAINT ALL NON-INTEGRALLY COLORED CMU WALLS WITH INTERIOR PAINT TYPE #4.14 (SEMI-GLOSS),
- UNLESS OTHERWISE INDICATED BELOW WITH HIGH-PERFORMANCE COATINGS. GYPSUM WALLBOARD (GWB): ALL GYPSUM BOARD WALLS SHALL BE PAINTED WITH INTERIOR PAINT TYPE #9.23 (SEMI-GLOSS) UNLESS
- OTHERWISE INDICATED BELOW WITH HIGH-PERFORMANCE COATINGS.
- WALLS HIGH PERFORMANCE COATINGS:
- A. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.224 (CMU WALLS, EPOXY-SEMI-GLOSS) OR #9.211 (GYPSUM BOARD WALLS,
- EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 HIGH PERFORMANCE COATINGS: A002 CORRIDOR, A102 VESTIBULE, A103 & A104 RESTROOM (BASE BID ONLY), A105 & A106 LOCKER ROOMS, A108 FAMILY RESTROOM, A109 CHANGING ROOM, A113 GYMNASIUM, & B115 WEIGHT ROOM (CMU ONLY). IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #5.223 (MAINFRAMES AND EXPOSED STEEL COLUMNS UP TO 10'-0"A.F.F.):
- A113 GYMNASIUM, & B115 WEIGHT ROOM
- **CEILING/STRUCTURE INTERIOR PAINTING:**
- GYPSUM WALLBOARD (GWB): NEW OR EXISTING SOFFITS, CEILINGS, AND BULKHEADS SHALL BE PAINTED WITH PAINT CODE #9.21, FLAT. EXPOSED STEEL (FERROUS) STRUCTURE: SHALL BE PAINTED WITH PAINT CODE #5.11, DRY FALL. EXPOSED STEEL (FERROUS) SUBSTRATES: MAINFRAMES ABOVE 10'-0"A.F.F., RAFTERS, EXPOSED GIRTS & PURLINS SHALL BE PAINTED
- WITH PAINT CODE #5.12, SEMI-GLOSS. GALVANIZED METAL (EXCLUDING STRUCTURE): EXPOSED STEEL DECK SHALL BE PAINTED WITH PAINT CODE #5.31, DRY FALL.
- GALVANIZED STEEL (COILING DOOR TRIM): SHALL BE PAINTED WITH PAINT CODE #5.322. GALVANIZED STEEL: ALL OTHER SHALL BE PAINTED WITH PAINT CODE #5.32.
- **MISC. MATERIALS INTERIOR PAINTING:**
- A. METAL, EXISTING: SURFACES THAT HAVE BEEN PREVIOUSLY PAINTED, SUCH AS HOLLOW METAL, EXPOSED STEEL, SHALL BE PAINTED WITH PAINT CODE #5.12, SEMI-GLOSS. EXPOSED MECHANICAL INSULATION SHALL BE PAINTED WITH PAINT CODE #10.11.

PAINT COLOR GENERAL NOTES

- ALL INTERIOR WALLS SHALL BE PAINTED P-1, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS. PAINT ALL GWB SOFFITS P-1 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.
- PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED. PAINT ALL PAINTED EXPOSED CEILINGS AND GYPSUM BOARD CEILINGS P-3 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

E SELECTED (MEDIUM GRAY) E SELECTED (DARK GRAY)

E SELECTED E SELECTED (BEST MATCH EXISTING) E SELECTED (BEST MATCH EXISTING)

OR SELECTION

OR SELECTION IITE / 2'X2'

IITE / 2'X2' IITE / 2'X2' / 4"H AXIOM TRIM

OR SELECTION E SELECTED (WHITE)

OR SELECTION CH P-3

NT DECK/ MECHANICAL/ ETC NT MAIN FRAMES, P-6 PAINT PURLINS/ MECHANICAL/ ETC, P-7

ORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT TO BE PAINTED IN PART OR WHOLE. SHALL BE UNDER THE WORK SECTION 0991113 - EXTERIOR

ALL INTERIOR HOLLOW METAL FRAMES, DOOR FRAMES, AND HANDRAILS TO BE PAINTED P-2 UNLESS OTHERWISE NOTED.

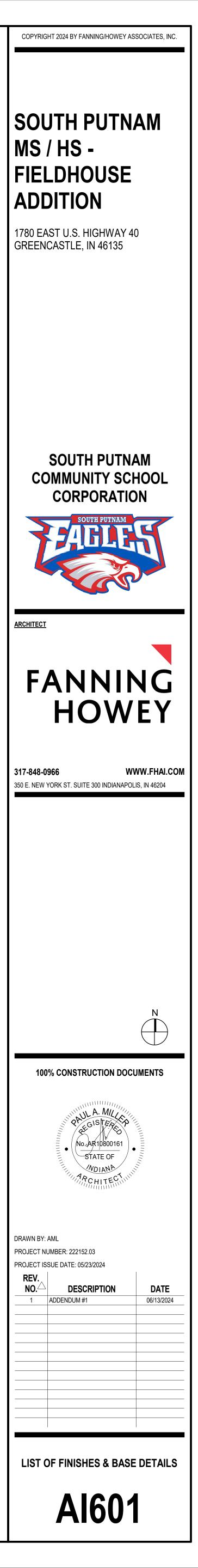
		LIST OF FIN	SHES REFER TO AF DWG. SHE
FL	OOR MA	TERIALS	
CERAN	NIC MOSAIC TILE		
	L ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CMT-1		DALTILE / KEYSTONES AMERICAN OLEAN / UNGLAZED COLORBOE	GROUP 2, TO BE SELECTED / 1"X1"
			ST GROUP 2, TO BE SELECTED / T XT
_			
DRF-1	L ABBREVIATION	MATERIAL/MANUFACTURER REFER TO SPECIFICATIONS	TO BE SELECTED
	NCE CARPET TILE		
		MATERIAL/MANUFACTURER	COLOR SELECTION
ECT-1		INTERFACE "STEP REPEAT / SR 899"	TO BE SELECTED
		MANNINGTON "FRIXTION / INERTIA"	TO BE SELECTED
	ZZO TILE		
MATERIA TERRT-1	AL ABBREVIATION	MATERIAL/MANUFACTURER NURAZZO / DESIGNER'S CHOICE	COLOR SELECTION DC-1907 / 24"X24"
TERRT-2		NURAZZO / DESIGNER'S CHOICE	DC-1907 / 24 X24 DC-202 / 24"X24"
FLOOR	SEALER		
	L ABBREVIATION		COLOR SELECTION
FS-1		REFER TO SPECIFICATIONS	CLEAR
INDOO	R TURF		
	ABBREVIATION		
IT-1 IT-2	بىلى بىلى بىل	PLAE / ATTACK PLAE / ATTACK	GREEN / 19MM WHITE / 19MM
MULTI-	LAYER RUBBER AT	HLETIC FLOORING	
MATERIA	L ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
MLRSAF-	1 (WEIGHT ROOM) 2 (WEIGHT-PLATFORM) 3 (WEIGHT-PLATFORM)	PLAE / ACHIEVE PLAE / ACHIEVE PLAE / ACHIEVE	TO BE SELECTED / 18MM TO BE SELECTED / 18MM TO BE SELECTED / 18MM
POLYU	RETHANE FLOOR S	YSTEM	
MATERIA	L ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
,	ELD/BORDER)	ROBBINS / PULASTIC CLASSIC 110 ACTION FLOOR SYSTEMS / HERCULEAN	DUSTY GREY 506 / 11MM MATCH ROBBINS
PFS-2 (TF PFS-3 (CC	,	ROBBINS / PULASTIC CLASSIC 110 ACTION FLOOR SYSTEMS / HERCULEAN ROBBINS / PULASTIC CLASSIC 110	IRON GREY 507 / 11MM MATCH ROBBINS STONE GREY 504 / 11MM
	OURT ACCENT)	ACTION FLOOR SYSTEMS / HERCULEAN ROBBINS / PULASTIC CLASSIC 110 ACTION FLOOR SYSTEMS / HERCULEAN	MATCH ROBBINS
		ACTION FLOOR 3131EM3/ HERCOLEAN	
_			
RFT-1	L ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION TITAN 5112 / 39.53" X 39.53"
		MATERIAL/MANUFACTURER	COLOR SELECTION
WAF-1		REFER TO SPECIFICATIONS	TO BE SELECTED
BA	SE MAT	ERIALS	
DECOR	RATIVE RESINOUS B	ASE	6"HIGH INTEGRAL B
MATERIA	L ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DRF-1		REFER TO SPECIFICATIONS	TO BE SELECTED
PORCE	LAIN TILE BASE		
MATERIA	L ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PTB-1		SCHLUTER DILEX-AHKA TRIM (TILE AS SCHEDULED)	
PTB-2		SCHLUTER DILEX-AHKA & JOLLY PLATFORM SURFACES / CODEC	TO BE SELECTED GRAY / 12"X24", CUT TO 6"X24" / 8MM THICK
•	REFER TO 5/AI601 FOR PT	B-1 DETAIL, 6/AI601 FOR PTB-2 DETAIL	
RESILI	ENT BASE		COVE E
MATERIA RB-1	L ABBREVIATION	MATERIAL/MANUFACTURER JOHNSONITE/TARKETT	TO BE SELECTED
	ALL FINIS	SHES	
W //			
PAINT	AL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PAINT MATERIA P-1 (FIELI	L ABBREVIATION	MATERIAL/MANUFACTURER SHERWIN WILLIAMS SHERWIN WILLIAMS	COLOR SELECTION MATCH EXISTING (SIMILAR TO SW7009 PEARLY WHITE) MATCH EXISTING (SIMILAR TO SW7067 CITYSCAPE)

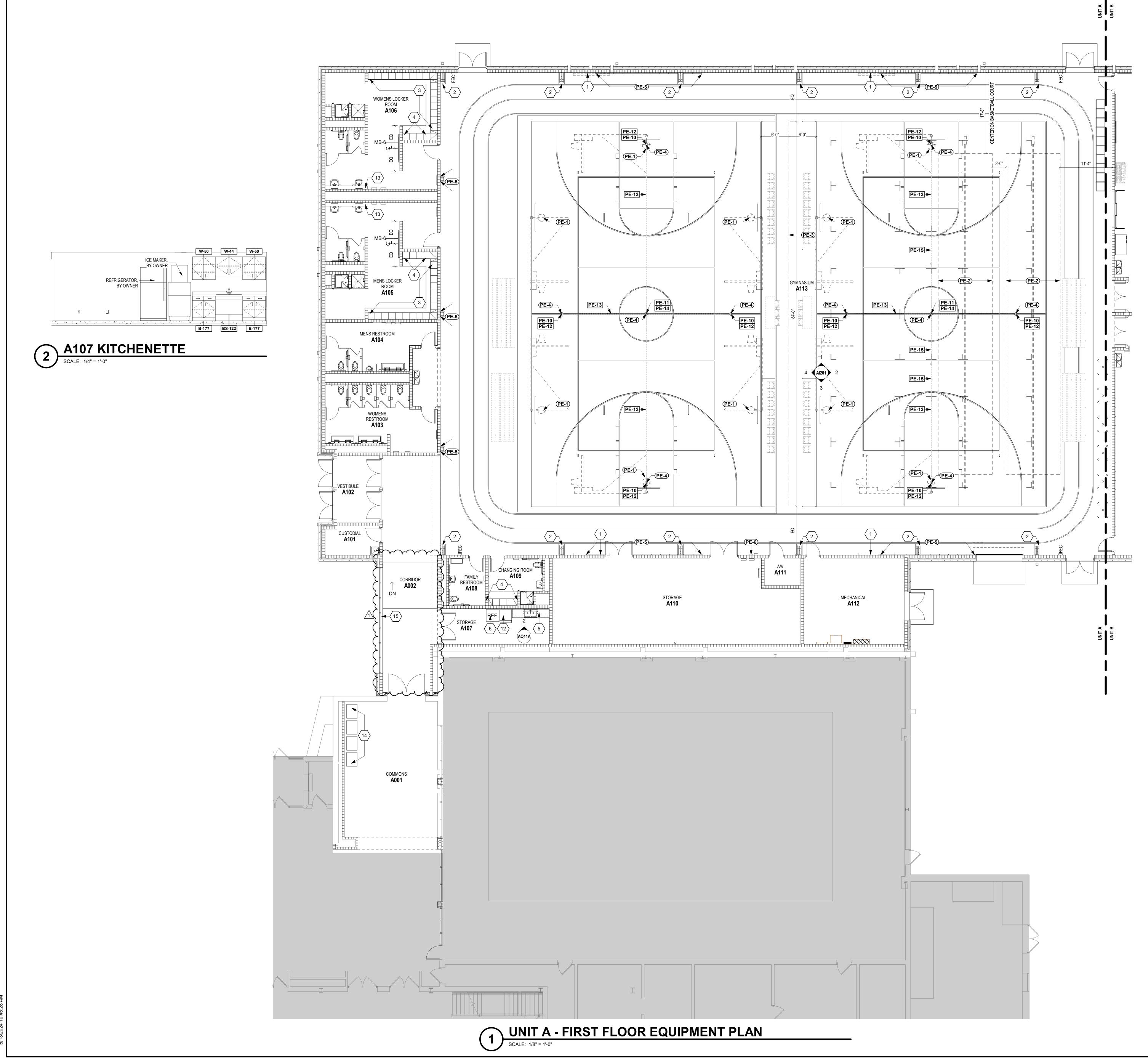
P-6 (GRAY ACCENT) SHERWIN WILLIAMS TO BE SELECTED P-7 (MATCH LINER PANEL) SHERWIN WILLIAMS TO BE SELECTED MATCH EXISTING (SIMILAR TO SW7013 IVORY LACE) SHERWIN WILLIAMS P-8 (LOBBY) PORCELAIN WALL TILE MATERIAL/MANUFACTURER MATERIAL ABBREVIATION COLOR SELECTION

PWT-1 (FIELD) PWT-2 (ACCENT)

PLATFORM SURFACES / CODEC PLATFORM SURFACES / GHAIA MIX PEARL MATTE / 24"X48" / 9MM THICK

GRAY / 24"X48" / 9MM THICK





EQI	JIPMENT GENERAL NOTES
A.	ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
В.	HIDDEN LINES () INDICATE ITEMS TO BE PART OF LOC EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES () INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
C.	(MB) INDICATES 4' HIGH MARKERBOARD LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
D. E.	PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET. ALL CASEWORK DOORS AND DRAWERS SHALL BE
F.	LOCKABLE. ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED.
G.	CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIF FOR PLUMBING/ELECTRICAL LINES.
H.	CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTER BACKSPLASHES, AND WALLS.
	ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED.
J.	REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.
K.	(FEC) INDICATES FIRE EXTINGUISHER CABINET.
L.	(PE-?) INDICATES PE EQUIPMENT, REFER TO SCHEDULE ON AQ601 FOR ADDITIONAL INFORMATION
M.	REFER TO PE EQUIPMENT SCHEDULE ON AQ601 FOR LOAD AND MOUNTING INFORMATION OF CEILING-HUNG EQUIPME
EQI	JIPMENT NOTES
(ALL	NOTES MAY NOT BE INDICATED ON THIS SHEET)
1	MULTI-SPORT SCOREBOARD, NEVCO MODEL 2750, MOUN TO METAL LINER PANEL WITH STEEL CROSS MEMBERS WHICH ARE TO BE PROVIDED BY PRE-ENGINEERED BUILDING MFR. HOLD PLUMB. STATIC LOAD OF SCOREBOARD ONLY IS APPROX. 110LBS.
2	WRAP PRE-ENGINEERED BUILDING MAIN FRAMES WITH WALL PADDING (PE-5). REFER TO DETAIL 8/A410 FOR MORE INFORMATION
3	TWO-TIER COMPOSITE LOCKER WITH SLOPED TOP AND SOLID PLASTIC BENCH. REFER TO DETAILS 1 & 2/AQ601.
4	TWO-TIER COMPOSITE LOCKER WITH SLOPED TOP AND ADA-COMPLIANT SOLID PLASTIC BENCH. REFER TO DETAILS 1 & 2/AQ601.
5	PL-1 CASEWORK WITH PL-2 COUNTERTOP AND SPLASH
6	REFRIGERATOR, BY OWNER
7	WEIGHT ROOM EQUIPMENT, BY SEPARATE CONTRACT
8	WRESTLING MATS, BY OWNER
9	MONITOR, BY OWNER
10	VENTED CABINET TO HOUSE SOUND RACK

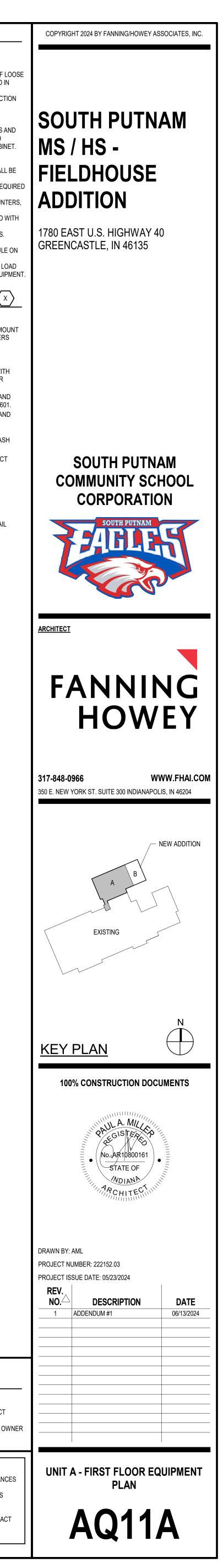
- 10 VENTED CABINET TO HOUSE SOUND RACK
- 11 6'-8" TALL MIRRORS MOUNTED 12"AFF, REFER TO ELEVATIONS ON AI11B
- 12 ICE MAKER, BY OWNER 13 SOLID SURFACE (SSM-1) WALL CAP, REFER TO DETAIL
- 3/A-401 14 VENDING MACHINES, BY OWNER
- 15 SSM-1 SILL, REFER TO DETAIL 2/A-602

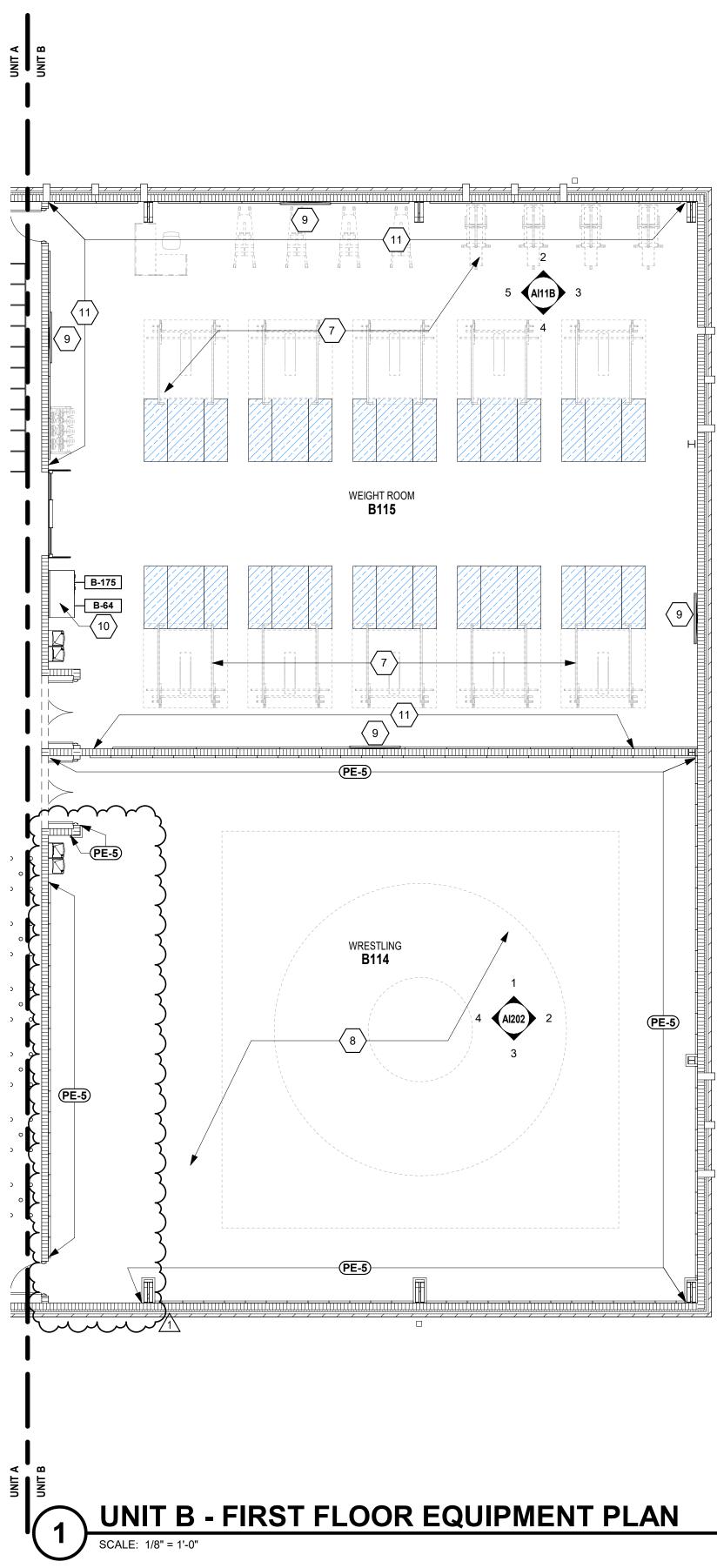
PE EQUIPMENT LEGEND REFER TO AQ601 FOR PE EQUIPMENT SCHEDULE

(PE-X) INDICATES PE EQUIPMENT INCLUDED IN CONTRACT **PE-XX** INDICATES PE EQUIPMENT TO BE PURCHASED BY OWNER

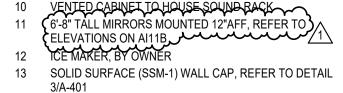
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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.





EQ	JIPMENT GENERAL NOTES
A.	ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH
	BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
B.	HIDDEN LINES () INDICATE ITEMS TO BE PART OF LOOS
	EQUIPMENT PACKAGE OR BY OWNER, NOT INCLUDED IN
	CONSTRUCTION CONTRACTS. DASHED LINES ()
	INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION
С.	CONTRACTS). (MB) INDICATES 4' HIGH MARKERBOARD LENGTH AS
	INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
).	PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND
	WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND
	COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET. ALL CASEWORK DOORS AND DRAWERS SHALL BE
•	LOCKABLE.
Ξ.	ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE
	FINISHED.
3 .	CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRE FOR PLUMBING/ELECTRICAL LINES.
۲.	CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS
•	BACKSPLASHES, AND WALLS.
	ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH
	THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED.
l. K.	REFER TO LIST OF FINISHES FOR COLOR SELECTIONS. (FEC) INDICATES FIRE EXTINGUISHER CABINET.
ι. 	(PE-?) INDICATES PE EQUIPMENT, REFER TO SCHEDULE ON
	AQ601 FOR ADDITIONAL INFORMATION
Л.	REFER TO PE EQUIPMENT SCHEDULE ON AQ601 FOR LOAD
M.	
M. FOI	AND MOUNTING INFORMATION OF CEILING-HUNG EQUIPMEN
EQ	AND MOUNTING INFORMATION OF CEILING-HUNG EQUIPMEN
EQ	AND MOUNTING INFORMATION OF CEILING-HUNG EQUIPMEN
EQI (ALL	AND MOUNTING INFORMATION OF CEILING-HUNG EQUIPMEN
EQI (ALL	AND MOUNTING INFORMATION OF CEILING-HUNG EQUIPMEN JIPMENT NOTES NOTES MAY NOT BE INDICATED ON THIS SHEET) MULTI-SPORT SCOREBOARD, NEVCO MODEL 2750, MOUNT TO METAL LINER PANEL WITH STEEL CROSS MEMBERS
EQ I All	AND MOUNTING INFORMATION OF CEILING-HUNG EQUIPMEN JIPMENT NOTES NOTES MAY NOT BE INDICATED ON THIS SHEET) MULTI-SPORT SCOREBOARD, NEVCO MODEL 2750, MOUNT TO METAL LINER PANEL WITH STEEL CROSS MEMBERS WHICH ARE TO BE PROVIDED BY PRE-ENGINEERED
EQI (ALL	AND MOUNTING INFORMATION OF CEILING-HUNG EQUIPMEN JIPMENT NOTES NOTES MAY NOT BE INDICATED ON THIS SHEET) MULTI-SPORT SCOREBOARD, NEVCO MODEL 2750, MOUNT TO METAL LINER PANEL WITH STEEL CROSS MEMBERS
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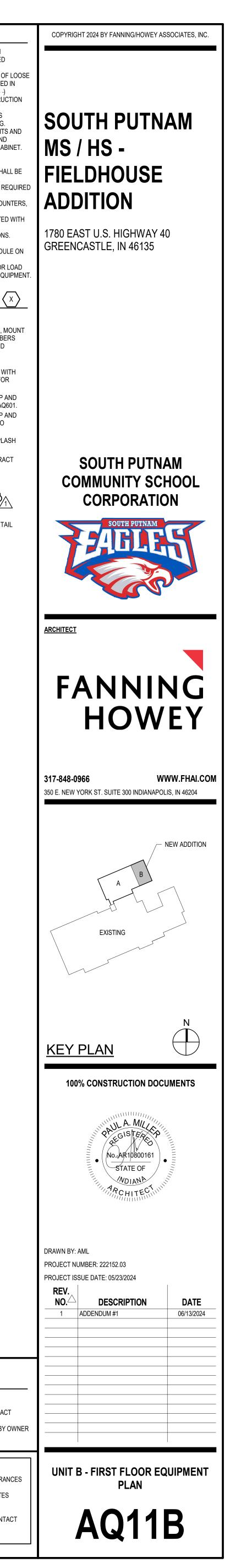


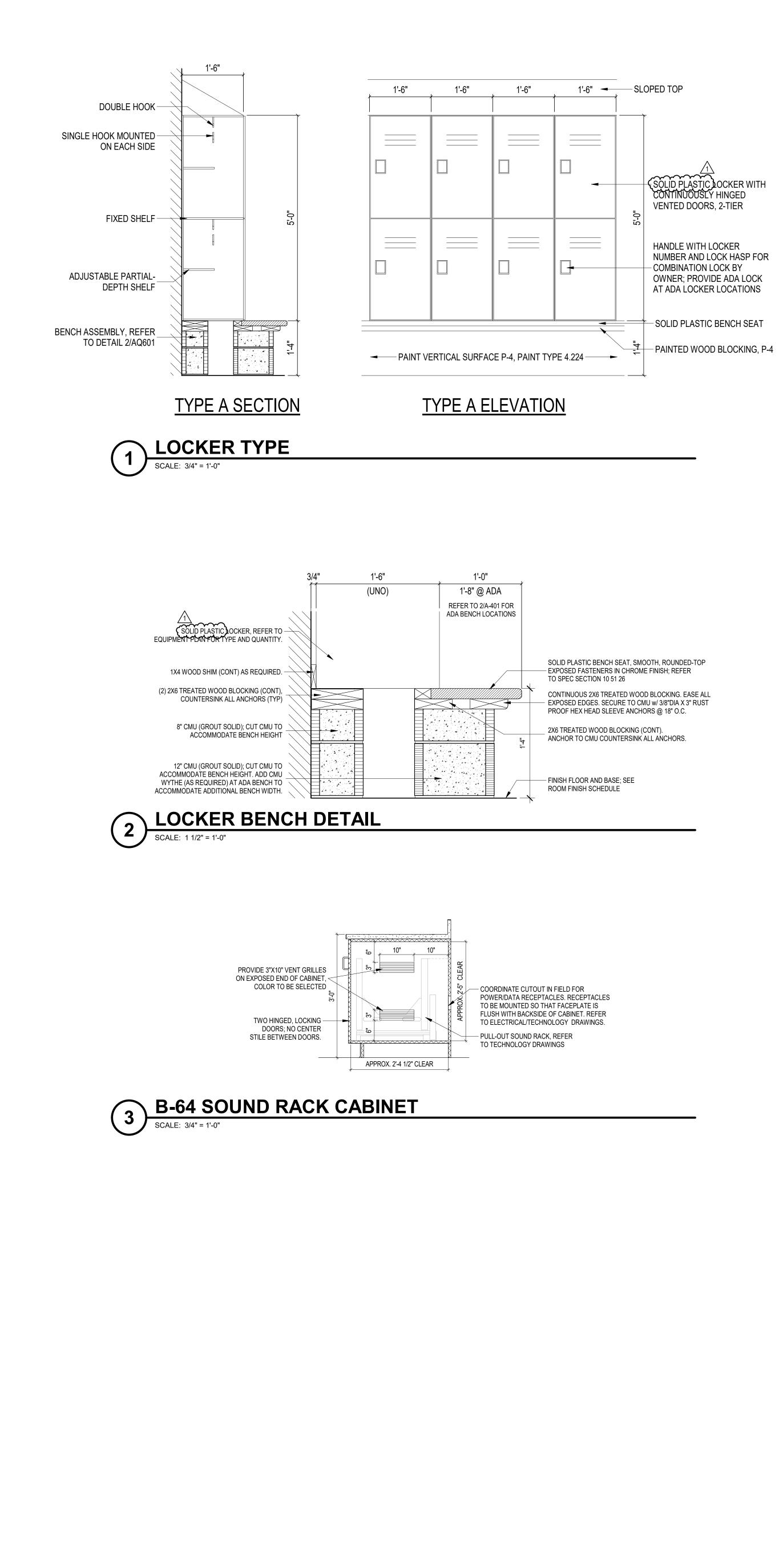
VENDING MACHINES, BY OWNER
 SSM-1 SILL, REFER TO DETAIL 2/A-602

PE EQUIPMENT LEGEND REFER TO AQ601 FOR PE EQUIPMENT SCHEDULE

(PE-X) INDICATES PE EQUIPMENT INCLUDED IN CONTRACT **PE-XX** INDICATES PE EQUIPMENT TO BE PURCHASED BY OWNER

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

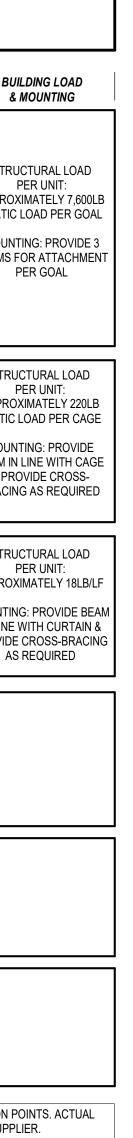




PE EQUIPMENT SCHEDULE PROVIDED AND INSTALLED BY CONTRACTOR

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	BUILDING & MOUN
(PE-1)	 SIDE-FOLDING BASKETBALL GOAL BASIS OF DESIGN: PORTER 90955000, 713, 797, 00208-000, 00326XXX, 00233-000, 00900211 SIDE FOLDING, SIDE BRACED BASKETBALL BACKSTOP UNIT. INCLUDE ALL NECESSARY FITTINGS, PIPE BEAMS, ELECTRIC WINCH, CABLES, PULLEY, MOUNTING HARDWARE, & CONTROLLER AS REQUIRED FOR COMPLETE INSTALLATION. HEIGHT AS REQUIRED TO ACCOMMODATE STRUCTURE. INCLUDE "SAF-STRAP" BASKETBALL BACKSTRAP SAFETY LOCK. 72"W x 42"H RECTANGULAR GLASS BACKBOARD WITH FRAME; ONE SAFETY BOLT ON CUSHION EDGE/PAD; ONE FRONT MOUNT, POWR-FLEX GOAL, AND ONE NYLON ANTI-WHIP NET. BACKBOARD SHALL BE EQUIPPED WITH MANUAL HEIGHT ADJUSTMENT FROM 8' TO 10' WITH DIRECT GOAL ATTACHMENT & HEIGHT LOCK FEATURE. REFER TO EQUIPMENT PLAN FOR DIRECTION OF FOLD. BASKETBALL GOAL STRUCTURE TO BE MANUFACTURER'S STANDARD WHITE. 	1 HP – 115V DIGITAL KEYPAD CONTROL SYSTEM	STRUCTUR/ PER UI APPROXIMATE STATIC LOAD MOUNTING: P BEAMS FOR AT PER GO
(PE-2)	 BATTING CAGE BASIS OF DESIGN: DRAPER CENTER LIFTING MULTI-SPORT PRACTICE CAGE CAGE SHALL BE 12'-0"W X 70'-0"L X 10'-0"H CEILING-SUSPENDED BATTING AND GOLF CAGE WITH ALL NECESSARY FITTINGS, PIPE BEAMS, 3/4HP ELECTRIC HOIST, CABLES, PULLEYS, MOUNTING HARDWARE, AND CONTROLLER FOR COMPLETE INSTALLATION. REFER TO EQUIPMENT PLAN FOR LOCATION AND COORDINATION WITH OTHER PE EQUIPMENT. 	1 HP – 110V/120V DIGITAL KEYPAD CONTROL SYSTEM	STRUCTURA PER UN APPROXIMATE STATIC LOAD F MOUNTING: F BEAM IN LINE V & PROVIDE 0 BRACING AS F
(PE-3)	 GYMNASIUM DIVIDER CURTAIN BASIS OF DESIGN: PORTER 90670000, 910070XX, 10796-00 84' LONG FOLD-UP GYM DIVIDER CURTAIN WITH LOWER SECTION OF 8' HIGH SOLID VINYL WITH MESH ABOVE. INCLUDE ALL NECESSARY FITTINGS, PIPE BEAMS, ELECTRIC HOIST OPERATION, CABLES, PULLEY, MOUNTING HARDWARE, & CONTROLLER FOR COMPLETE INSTALLATION. INCLUDE LINE SHAFT SAFETY LOCK. COLOR: STANDARD, TBD 	1 HP – 115V/60Hz SINGLE PHASE DIGITAL KEYPAD CONTROL SYSTEM	STRUCTURA PER UN APPROXIMATE MOUNTING: PRO IN LINE WITH O PROVIDE CROS AS REQU
(PE-4)	 VOLLEYBALL FLOOR SLEEVE WITH CHROME COVER BASIS OF DESIGN: PORTER 00870-200 INDOOR VOLLEYBALL/TENNIS FLOOR SLEEVE FOR GAME POST 3.75"O.D., 3.5"I.D., & 5" DIA. CHROME-PLATED SWIVEL COVER PLATE. FLOOR SLEEVE TO BE LOCATED 3'-4" FROM COURT LINE, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. SLEEVE TO BE INSTALLED IN SLAB BEFORE FINISHED FLOORS ARE IN PLACE. REFER TO DETAIL 11/S-303 		
(PE-5)	 WALL PADDING BASIS OF DESIGN: PORTER 4120 2'W x 6'H x 2"D WAINSCOT PADDING w/ BONDED FOAM FILLER WALL ATTACHMENT Z-CLIP ALUMINUM CHANNELS PROVIDE MOLDED UNITS AS REQUIRED TO ACCOMMODATE ELECTRICAL DEVICES. COLOR: STANDARD, TBD REFER TO DETAIL 8/A-410 FOR INSTALLATION OF PADDING AT MAINFRAMES 		
(PE-6)	 PE EQUIPMENT CONTROL SYSTEM BASIS OF DESIGN: PORTER POWR-TOUCH 4 CONTROL SYSTEM THAT ALLOWS OPERATION OF PE EQUIPMENT WITH DIGITAL TOUCHSCREEN CONTROL PAD. SYSTEM GIVES THE ABILITY TO CONTROL MULTIPLE BASKETBALL GOALS, DIVIDER CURTAIN, AND BATTING CAGES FROM ONE LOCATION. TO BE LOCATED ON CMU WALL AS SHOWN ON EQUIPMENT PLAN 		

	PE EQUIPMENT SCHEDULE PROVIDED AND INSTALLED BY OWNER
ITEM NO.	ITEM DESCRIPTION
PE-10	 VOLLEYBALL STANDARDS BASIS OF DESIGN: PORTER 1971 "POWR-RIB II" END STANDARDS INDOOR ALUMINUM VOLLEYBALL PORTABLE STANDARDS WITH 3.5"O.D. POST SHALL BE EQUIPPED WITH SLIDING COLLAR WITH GUIDE PIN WITH INSTANT SETTING FOR TENNIS, VOLLEYBALL, AND BADMINTON. COLOR: STANDARD, TBD
PE-11	 VOLLEYBALL STANDARDS - DUAL SIDED BASIS OF DESIGN: PORTER 1972 "POWR-RIB II" SPLIT COLLAR STANDARDS INDOOR ALUMINUM VOLLEYBALL PORTABLE STANDARDS WITH 3.5"O.D. POST SHALL BE EQUIPPED WITH SLIDING COLLAR WITH GUIDE PIN WITH INSTANT SETTING FOR TENNIS, VOLLEYBALL, AND BADMINTON. COLOR: STANDARD, TBD
PE-12	 VOLLEYBALL STANDARDS - PADDING FOR END STANDARDS BASIS OF DESIGN: PORTER 8390XX PAIR OF PROTECTIVE PADS FOR END UPRIGHTS COLOR: STANDARD, TBD
PE-13	 VOLLEYBALL NET BASIS OF DESIGN: PORTER 2295-630, 00546-000 UNIVERSAL VOLLEYBALL NET WITH ONE SET OF VOLLEYBALL BOUNDARY MARKERS AND ANTENNAS
PE-14	 VOLLEYBALL STANDARDS - PADDING FOR CENTER STANDARDS BASIS OF DESIGN: PORTER 8391XX PAIR OF PROTECTIVE PADS FOR DUAL-SIDED UPRIGHTS COLOR: STANDARD, TBD
PE-15	 PORTABLE PICKLEBALL NETS BASIS OF DESIGN: DOUGLAS SPORTS SWIFTNET PORTABLE PICKLEBALL SET 33165 LIGHTWEIGHT CARBON FIBER STRUCTURE WITH DURABLE NET AND FIVE PARTS FOR A QUICK SET UP. INCLUDES CENTER NET SUPPORT AND CARRY BAG. COLOR: STANDARD
PE-16	 VOLLEYBALL EQUIPMENT TRANSPORTER BASIS OF DESIGN: PORTER 00956-100 VOLLEYBALL STANDARDS & JUDGE'S STAND TRANSPORTER, 30"W x 48"L. TWO CARTS NEEDED. NOT SHOWN ON EQUIPMENT PLAN.
PE-17	 VOLLEYBALL JUDGE'S STAND BASIS OF DESIGN: PORTER 889100, 9931XX JUDGE'S STAND WITH STANDARD ATTACHMENT & PROTECTIVE PADS. TWO STANDS NEEDED. NOT SHOWN ON EQUIPMENT PLAN.



EQUIPMEN	NT MATERIALS	REFER TO A7 ARCH. DWG. SHEETS
HP PLASTIC LAMINATE		
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PL-1 PL-2	WILSONART / FORMICA / NEVAMAR WILSONART / FORMICA / NEVAMAR	STANDARD COLOR, TO BE SELECTED PREMIUM COLOR, TO BE SELECTED
KICKPLATES		
STAINLESS STEEL		
MARKERBOARD		
WHITE		
PLASTIC TOILET PARTITIC	ONS/COMPARTMENTS	
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
	REFER TO SPECIFICATIONS	MANUFACTURER'S STANDARD, TO BE SELECTED
SHOWER CURTAINS		
WHITE		
SOLID PLASTIC LOCKERS	S & BENCH SEAT	
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LOCKERS BENCH SEAT	REFER TO SPECIFICATIONS REFER TO SPECIFICATIONS	MANUFACTURER'S STANDARD, TO BE SELECTED MANUFACTURER'S STANDARD, TO BE SELECTED
SOLID SURFACE MATERIA	AL	
MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SSM-1	CORIAN / WILSONART / LX HAUSYS	GROUP 2, TO BE SELECTED

LIST OF FINISHES

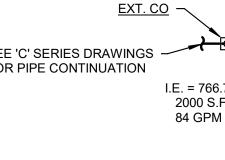
EQUIPMENT MATERIAL & FINISH NOTES

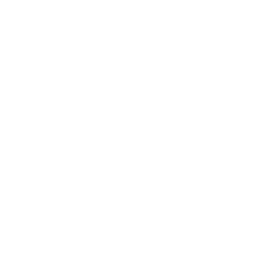
- A. CASEWORK FINISHES ARE AS FOLLOWS: COUNTERTOPS AND WORKSURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED. HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-1, UNLESS OTHERWISE NOTED. INTERIOR MELAMINE TO BE WHITE
- 3MM AND 1MM PVC EDGES ON CASEWORK ARE TO MATCH PL-1 HANDLES & HINGES TO BE BRUSHED CHROME.
- GROMMET COLOR TO BE SELECTED. B. THE SAFETY WALL PADDING IN A113 GYMNASIUM TO BE GRAY (SUBMIT FULL RANGE OF MANUFACTURER'S STANDARD AND DESIGNER VINYL COLOR SAMPLES FOR SELECTION & APPROVAL). REFER TO INTERIOR ELEVATIONS FOR DESIGN.
- THE SAFETY WALL PADDING IN B114 WRESTLING ROOM TO BE RED (SUBMIT FULL RANGE OF MANUFACTURER'S STANDARD AND DESIGNER VINYL COLOR SAMPLES FOR SELECTION & APPROVAL). REFER TO INTERIOR ELEVATIONS FOR DESIGN.
- D. ALL SAFETY PADDING ON BASKETBALL GOALS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD AND DESIGNER VINYL COLOR SELECTIONS. GYMNASIUM DIVIDER CURTAIN VINYL COLOR TO BE RED, WITH THE TOP MESH TO BE WHITE. SUBMIT FULL RANGE OF MANUFACTURER'S
- STANDARD AND DESIGNER COLORS FOR SELECTION & APPROVAL. SCOREBOARD CABINET COLOR TO BE RED (SUBMIT FULL RANGE OF MANUFACTURER'S STANDARD AND DESIGNER VINYL COLOR F.
- SAMPLES FOR SELECTION & APPROVAL). G. REFER TO Al601 FOR LIST OF FINISHES NOT INCLUDED ON THIS SHEET.

	CASEWORK SCHEDULE										
			SIZE								
TYPE	NO.	W	D	Н	DESCRIPTION						
		-									
В	64	2'-3"	2'-6"	3'-0"	BASE UNIT WITH TWO HINGED DOORS AND VENTS IN LEFT SIDE. CABINET TO HOUSE SOUND RACK, REFER TO TECHNOLOGY DRAWINGS AND DETAIL 3/AQ601.						
В	175	2'-3"	2'-6"	3'-0"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.						
В	177	2'-6"	2'-0"	2'-10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.						
BS	122	3'-0"	2'-0"	2'-0"	ADULT ADA SINK BASE UNIT WITH A REMOVABLE ACCESS PANEL.						
W	44	3'-0"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS						
W	50	2'-6"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.						

















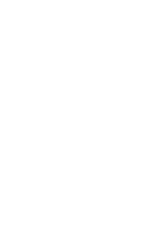






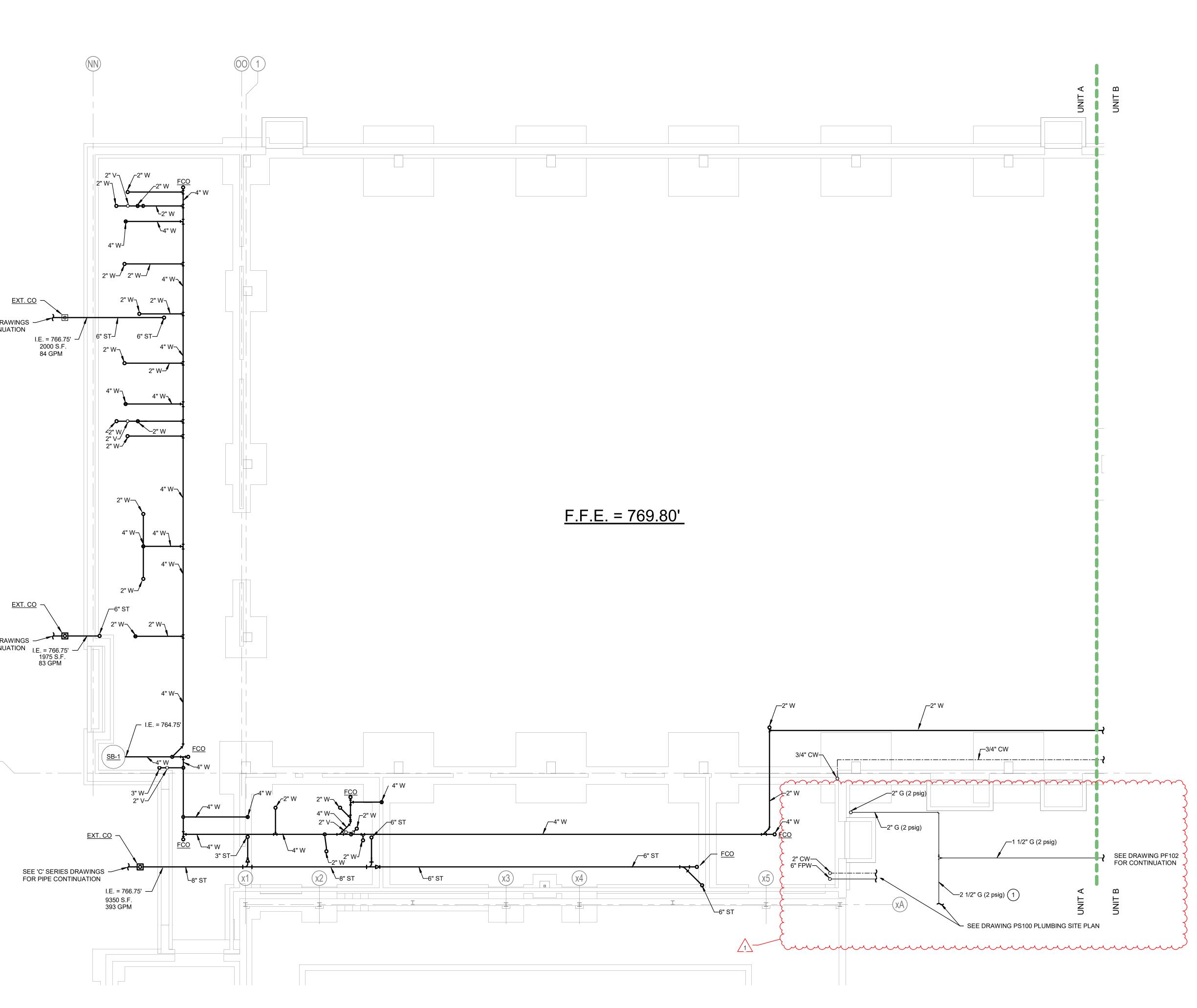


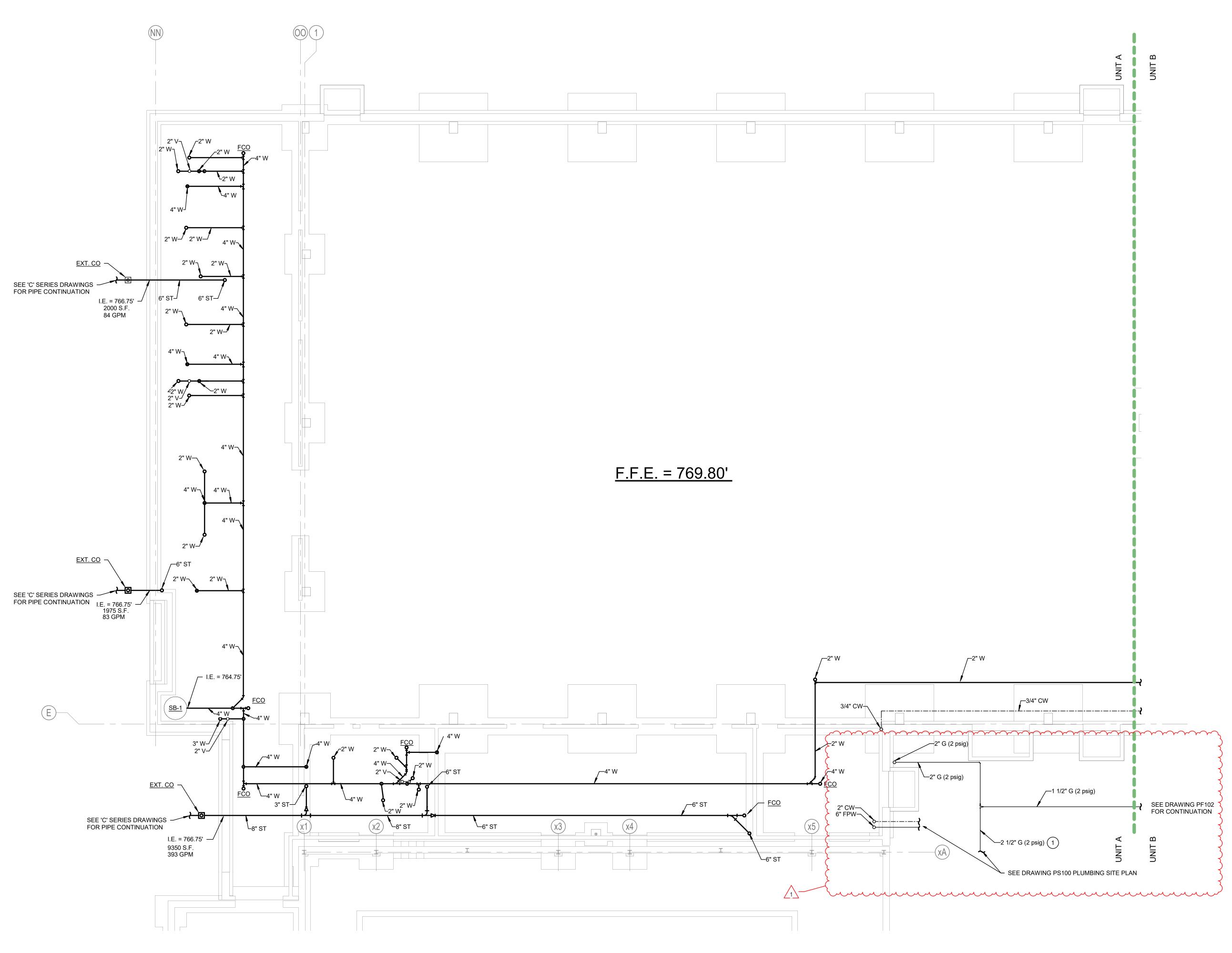










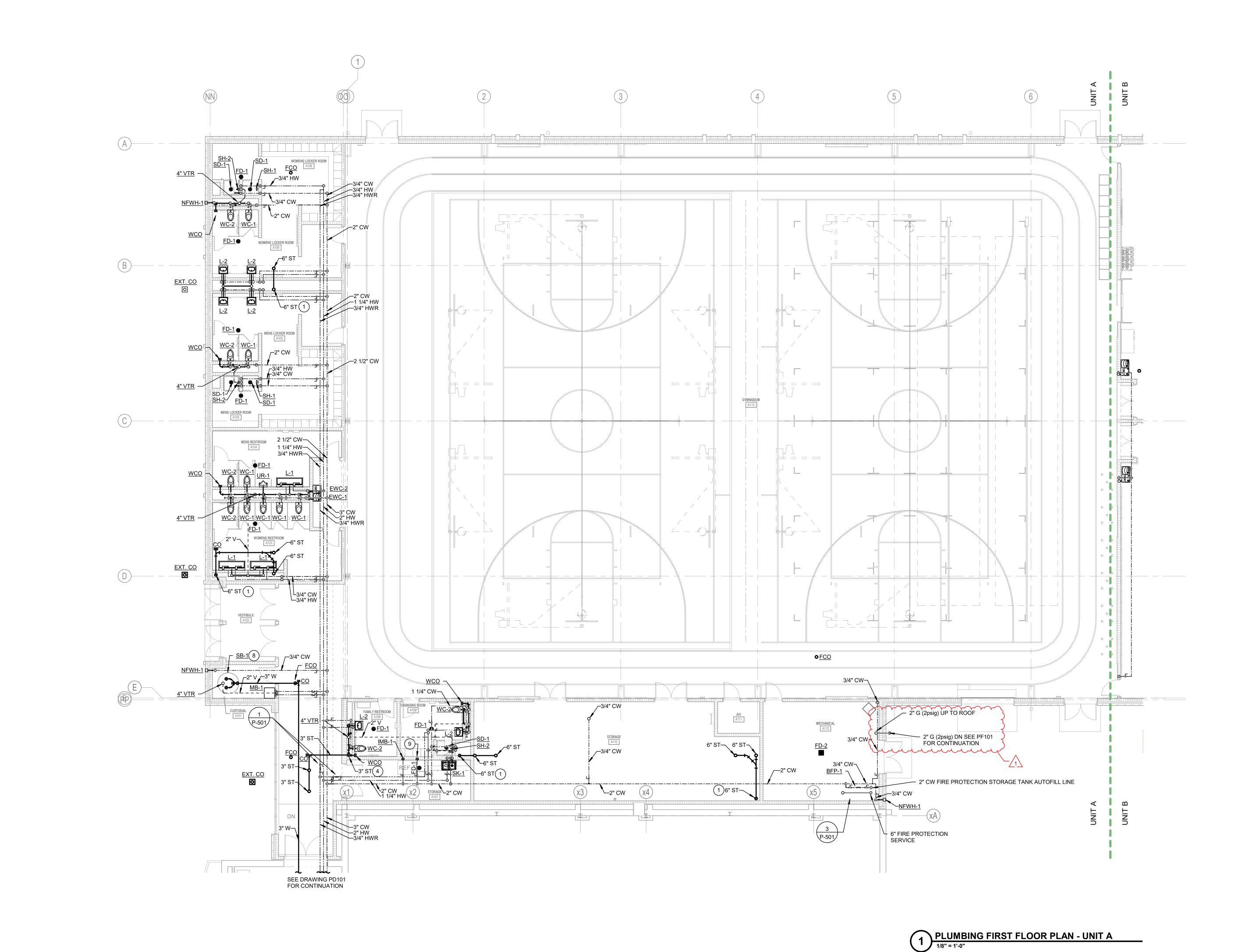


FOUNDATION PLUMBING PLAN NOTES

1 PLUMBING FOUNDATION PLAN - UNIT A

CONNECT 2-1/2" 2 PSIG LINE TO EXISTING METER SETTING AT EXISTING BUILDING. CONTACT ANDY THEIZ AT CENTER POINT ENERGY 812-231-6403 FOR METER REVISIONS, PIPING REVISIONS AND ASSOCIATED COSTS. TOTAL CONNECTED LOAD OF 6,090,000 BTUH.

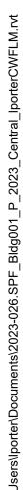




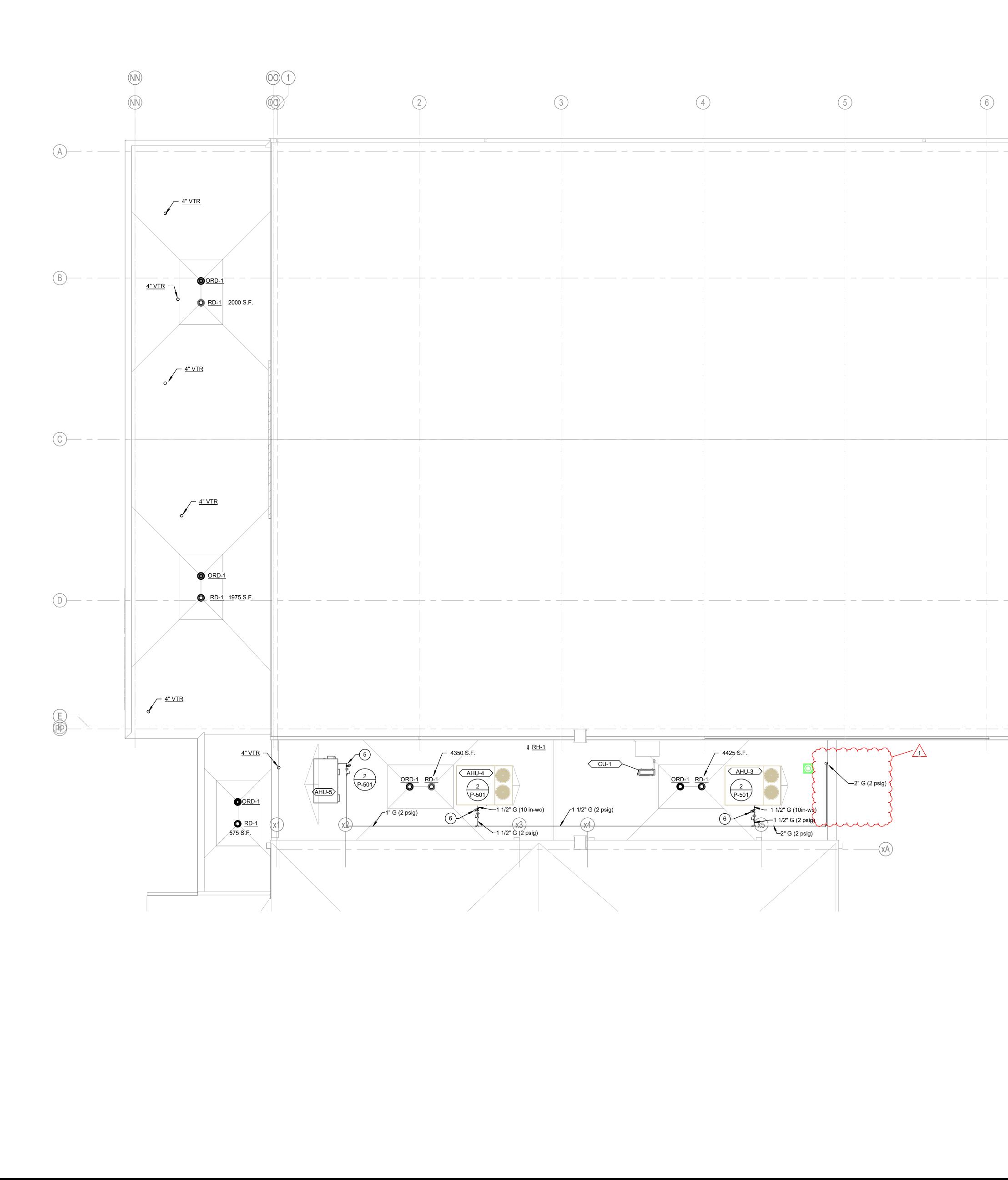


- 6" STORM DOWN IN CHASE. PROVIDE A WALL CLEANOUT AT THE BASE OF THE CONDUCTOR AT 18" A.F.F.
- 2 4" STORM DOWN IN CHASE. PROVIDE A WALL CLEANOUT AT THE BASE OF THE CONDUCTOR AT 18" A.F.F.
- NEW 4" STORM LINE IS BELOW GRADE. CUT AND PATCH FLOOR AS REQUIRED TO
- RECEIVE NEW FINISH. 3" STORM DOWN IN CHASE. PROVIDE A WALL CLEANOUT AT BASE OF CONDUCTOR
- AT 18" A.F.F.
- 5 PROVIDE A GAS PRESSURE REGULATOR CAPABLE OF RECEIVING 2 PSIG SERVICE PRESSURE AND REGULATING DOWN TO 10" W.C. SUPPLYING 150,000 BTUH. PROVIDE A GAS PRESSURE REGULATOR CAPABLE OF RECEIVING 2 PSIG SERVICE
- PRESSURE AND REGULATING DOWN TO 10" W.C. SUPPLYING 400,000 BTUH. 3" SANITARY DOWN IN CHASE. CONNECT NEW LINE TO EXISTING 4" SANITARY
- RISER. PROVIDE A WALL CLEANOUT AT BASE OF RISER AT 18" A.F.F. PROVIDE A PRE-PLUMBED, PREPACKAGED, FIBERGLASS BASIN WITH GAS TIGHT
- ALUMINUM HATCH COVER, TOP DISCHARGE WITH 2" VENT (48" X 108"). PROVIDE A DUPLEX CONTROL PANEL, 3 PHASE 460 VOLT. FOUR FLOATS 230 VOLT, 25' CORDS AND ADJUSTABLE WEIGHTS. STAINLESS STEEL CABLE / FLOAT HOLDER. LIKE ZOELLER ENGINEERED #33-XXXX. SEE DETAIL 4/P-501 AND STRUCTURAL
- FOUNDATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 3/4" CW DOWN TO ICE MACHINE SUPPLY BOX. PROVIDE A 3/4" VACUUM BREAKER ON CW LINE PRIOR TO CONNECTION TO ICE MAKER.



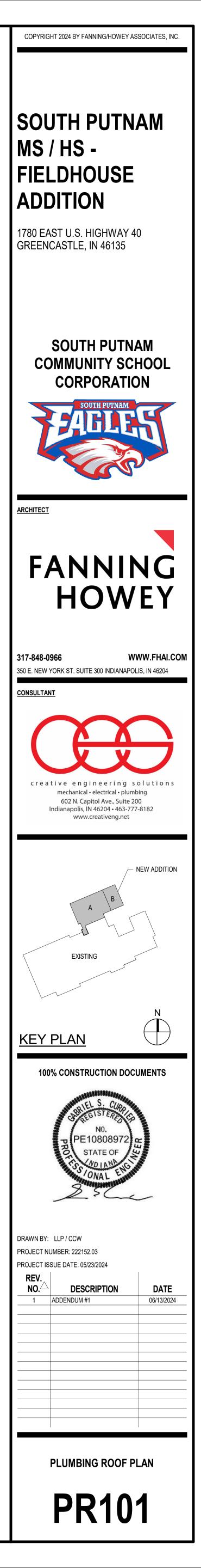


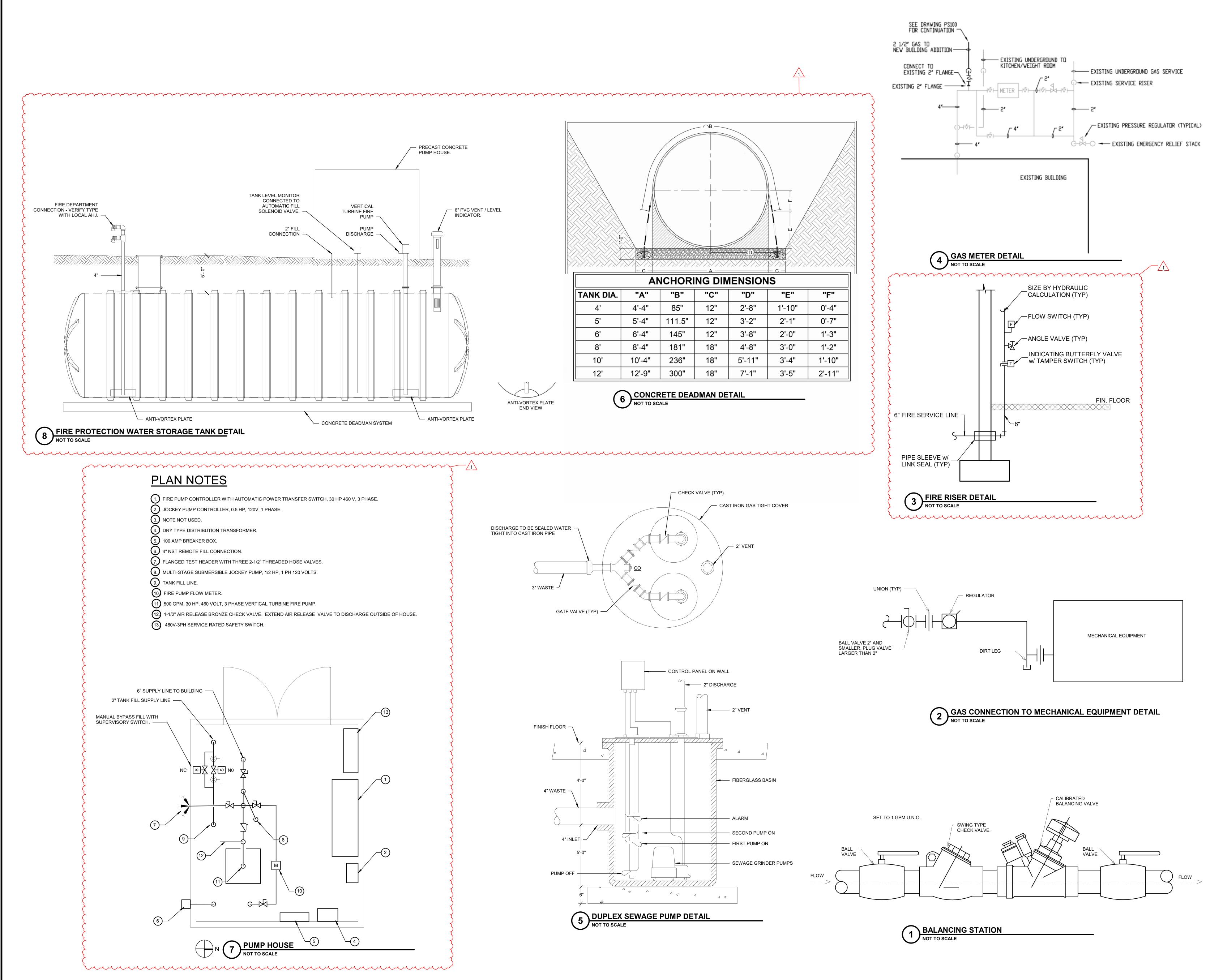


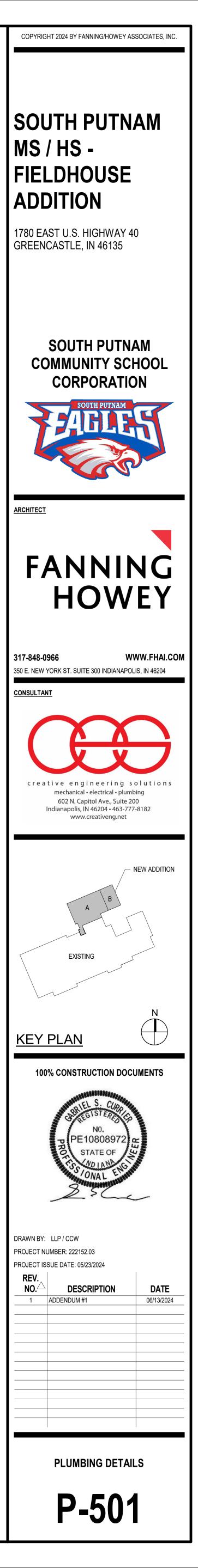


7	 BUDDE A GAS PRESSURE REGULATION CAPABLE OF RECEIVING 2 PSIG SERVICE PRESSURE AND REGULATING DOWN TO 10" W.C. SUPPLYING 400,000 BTUH. 3" STORM DOWN IN CHASE. PROVIDE A WALL CLEANOUT AT THE BASE OF THE CONDUCTOR AT 18" A.F.F. NEW 4" STORM LINE IS BELOW GRADE. CUT AND PATCH FLOOR AS REQUIRED TO RECEIVE NEW FINISH. 3" STORM DOWN IN CHASE. PROVIDE A WALL CLEANOUT AT BASE OF CONDUCTOR AT 18" A.F.F. PROVIDE A GAS PRESSURE REGULATOR CAPABLE OF RECEIVING 2 PSIG SERVICE PRESSURE AND REGULATING DOWN TO 10" W.C. SUPPLYING 150,000 BTUH. PROVIDE A GAS PRESSURE REGULATOR CAPABLE OF RECEIVING 2 PSIG SERVICE PRESSURE AND REGULATING DOWN TO 10" W.C. SUPPLYING 400,000 BTUH. 3" SANITARY DOWN IN CHASE. CONNECT NEW LINE TO EXISTING 4" SANITARY RISER. PROVIDE A WALL CLEANOUT AT BASE OF RISER AT 18" A.F.F. PROVIDE A PRE-PLUMBED, PREPACKAGED, FIBERGLASS BASIN WITH GAS TIGHT ALUMINUM HATCH COVER, TOP DISCHARGE WITH 2" VENT (48" X 108"). PROVIDE A DUPLEX CONTROL PANEL, 3 PHASE 460 VOLT. FOUR FLOATS 230 VOLT, 25' CORDS AND ADJUSTABLE WEIGHTS. STAINLESS STEEL CABLE / FLOAT HOLDER. LIKE ZOELLER ENGINEERED #33-XXXX. SEE DETAIL 4/P-501 AND STRUCTURAL FOUNDATION DRAWINGS FOR ADDITIONAL INFORMATION. 3" 3" A" CW DOWN TO ICE MACHINE SUPPLY BOX. PROVIDE A 3/4" VACUUM BREAKER ON CW LINE PRIOR TO CONNECTION IC ICE MAKER.
<u>4" VTR</u>	

1 PLUMBING ROOF PLAN







			C	OMMERCIAL WATER	CLOSET SCHEDULE (224213.13)							
			FIXTURE		FLUSHOMETER		FIXTUR	E CONN	ECTION	MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	TOILET SEAT	CW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
WC-1	AMERICAN STANDARD	#2257.101	WALL-MOUNTED, TOP SPUD WATER CLOSET	SLOAN	REGAL #111-1.28	CLOSED BACK, OPEN FRONT	1"	4"	2"	15"	No	
WC-2	AMERICAN STANDARD	#2257.101	WALL-MOUNTED, TOP SPUD, ACCESSIBLE WATER CLOSET	SLOAN	REGAL #111-1.28	CLOSED BACK, OPEN FRONT	1"	4"	2"	17"	Yes	

 MARK
 MANUFACTURER
 MODEL

 UR-1
 AMERICAN STANDARD
 #6590.001

				COMMERCIAL LAVATORY S	CHEDULE (224216.13)							
		FI	XTURE	FAU	CET	FIX	TURE CO	ONNECT	ON	MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
L-1	BRADLEY	LVQD2-WB2	VERGE LAVATORY SYSTEM – LVQ SERIES, TWO STATION	CHICAGO FAUCET	#410-E2805ABCP	3/4"	3/4"	1 1/2"	1 1/2"	34"	Yes	
L-2	AMERICAN STANDARD	LUCERNE #0355.012	VITREOUS CHINA, WALL MOUNTED, WITH BACK	CHICAGO FAUCET	#802-VE66ABCP	1/2"	1/2"	1 1/2"	1 1/2"	34"	Yes	

			COMMERCIAL	SINK SCHEDULE (22421	6.16)							
		FI)	TURE	FA	JCET	FIX	TURE CO	DNNECT	ION		ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	W	V	MOUNTING	COMPLIANT	NOTES
MB-1	ZURN	#Z1996-24	MOLDED STONE, FLOOR MOUNTED (RECESSED) MOP BASIN	CHICAGO FAUCET	#897-ABRCF	3/4"	3/4"	3"	1 1/2"	FLOOR MOUNTED		
SK-1	ELKAY	#LRAD332265	STAINLESS STEEL, TWO BOWLS, COUNTER MOUNTED SINK	CHICAGO FAUCET	#1100-GN2AE3XKABCP	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED	Yes	

					PF	RESSURE WATER COO	LER SCHEDULE (224716)	-						1
				IDENTITY D	ΑΤΑ			FIXTUR	E CONN	ECTION	М	OUNTING	ADA	
MARK	MANUFACTURER	MODEL				DESCRIPTION		CW	W	V	(FLOOR	TO BUBBLER)		NOTES
EWC-1	ELKAY	#VRC8S		VANDAL R	ESISTANT, REFRIDGE	RATED, ELECTRIC WATER	COOLER, WALL-MOUNTED	1/2"	1 1/2"	1 1/2"	•	41"	No	PROVIDE REPLACEABLE WATER FILTER
EWC-2	ELKAY	#LVRCGRN8WSI	BOWL AND CABI	NET, BOTTLE FIL	LING UNIT INCLUDES	AN ELECTRONIC SENSOR	OTTLE FILLER:SATIN FINISHED STAINLESS STEEL FOR NO-TOUCH ACTIVATION. TRIM: ADJUSTABLE E, 1/2" O.D. CHROME PLATED SUPPLY.	3/4"	1 1/2"	1 1/2"	3	36" A.F.F.	Yes	
			A		\sim		SHOWER SCHEDU	 I F (2242	~~~ 23)	\sim	\sim	$\gamma \gamma $	\sim	
			<u>_1</u> {{				FIXTURE	(FIX	TURE CO	ONNECTION	ADA	
			<pre></pre>	MARK	MANUFACTURE		DESCRIPTION			CW	HW	W V	COMPLIANT	NOTES
			Ş	SH-1	BRADLEY	#WS-1WCA-EF-ES -ST-RSD-SHV-VS	SURFACE MOUNTED SHOWER VALVE AND	HEAD		1/2"	1/2"			
			5	SH-2	BRADLEY	#WS-1X-HN-EF-S2 SURF 0-ST-SD-SB-SHV-	FACE MOUNTED SHOWER VALVE AND HEAD WITH H	and Held	SHOWER	1/2"	1/2"		Yes	
			ξ			VS	AND TRIM							
	г		{	· L	_ 	VS	······		m	l 	L.L.	uu	mm	
	F					VS DOMESTIC W								
	F	MADIZ MANI				VS DOMESTIC W	VATER PIPING SPECIALTIES SCHEDULE (2211		F		CONNECT	ΓΙΟΝ	MOUNTING	
	F			MODEL		VS DOMESTIC W TY DATA	VATER PIPING SPECIALTIES SCHEDULE (2211 DESCRIPTION		F			ΓΙΟΝ	MOUNTING OOR TO OUTLET)	
			IFACTURER UY GRAY ZURN			VS DOMESTIC W TY DATA	VATER PIPING SPECIALTIES SCHEDULE (2211		F		CONNECT	ΓΙΟΝ	MOUNTING	

				PRI	ESSURE WATER COO	LER SCHEDULE (224716)								
		10	DENTITY DA	ATA			FIXTUR	RE CONN	ECTION	Ν		G	ADA	
	MODEL				DESCRIPTION		CW	W	V		R TO BUE	-		NOTES
	#VRC8S		VANDAL RE	ESISTANT, REFRIDGER	ATED, ELECTRIC WATER	COOLER, WALL-MOUNTED	1/2"	1 1/2"	1 1/2"		41"		No	PROVIDE REPLACEABL WATER FILTER
		AND CABINET	, BOTTLE FILI	LING UNIT INCLUDES A	N ELECTRONIC SENSOR	OTTLE FILLER:SATIN FINISHED STAINLESS STEEL FOR NO-TOUCH ACTIVATION. TRIM: ADJUSTABLE E, 1/2" O.D. CHROME PLATED SUPPLY.	3/4"	1 1/2"	1 1/2"		36" A.F.F.		Yes	
		۲ ۲	\sim	\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			····	\sim	\sim	\sim	\sim	\sim	\sim
		₹ -				SHOWER SCHEDU	LE (2242	223)						
					1	FIXTURE				1			ADA	
		<u>}</u>	MARK	MANUFACTURER		DESCRIPTION			CW	HW	W	V	COMPLIANT	NOTES
		2	SH-1	BRADLEY	#WS-1WCA-EF-ES -ST-RSD-SHV-VS	SURFACE MOUNTED SHOWER VALVE AND	HEAD		1/2"	1/2"				
		}	SH-2	BRADLEY	#WS-1X-HN-EF-S2 SURI 0-ST-SD-SB-SHV- VS	ACE MOUNTED SHOWER VALVE AND HEAD WITH H AND TRIM	AND HELD) SHOWER	8 1/2"	1/2"			Yes	
			m	inn		············		m	in	in	i.	in	inn	mm
						ATER PIPING SPECIALTIES SCHEDULE (221	119)							1
				IDENTITY	/ DATA			FIXTURE		ONNECTION			MOUNTING	
	K MANUFACTURER	M	IODEL		DESCRIPTION					W	V	(FLOC	OR TO OUTLET)	NOTES
MAR			SIB2AB		IC	EMAKER OUTLET BOX		1/2"					24" A.F.F.	
MAR IMB-	1 GUY GRAY	#S												
			21320-C		NONFREEZE W	ALL HYDRANT WITH RECESSED BOX		3/4"	0"				18" A.F.F.	

		W			
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONNECTION	NOTES
FD-1	ZURN	#Z415B-ZB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	2"	TRAPGUARD BY PROSET, NO SUBSTITUTIONS
FD-2	ZURN	#Z662-DG	DUCO CAST IRON BODY WITH FLASHING COLLAR AND CAST IRON GRATE, SQUARE GRATE AND SEDIMENT BUCKET	4"	
SD-1	J.R. SMITH	#2005-A05-PB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	2"	

MARK ORD-1 RD-1

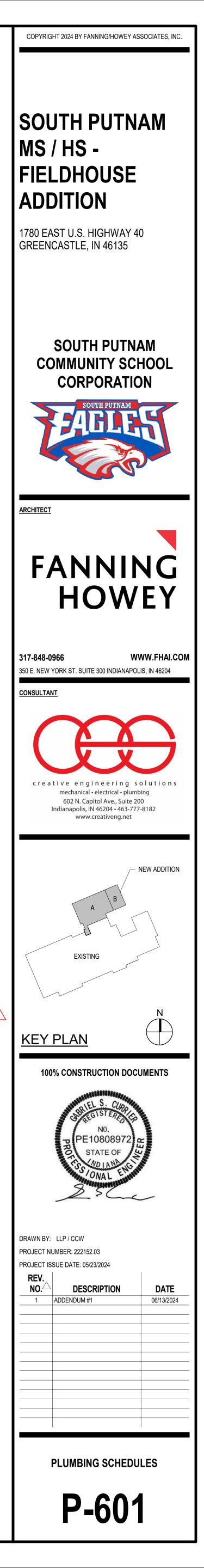
		ID	ENTITY DATA	PLUM			ELEC	TRICAL		
\sim		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	FLOW RATE	PUMP HEAD	γ	\sim		$\gamma \gamma \gamma \gamma$	h h h h l
MARK	MANUFACTURER	MODEL	DESCRIPTION	(GPM)	(TDH)	VOLTAGE	PHASE	RPM	HP	NOTES
FP-1	XYLEM-AC	#FP11CLC-3	VERTICAL TURBINE FIRE PUMP	500		460	3	1800	30	۲. The second
SP-1	ZOELLER	#G7110	SEWAGE GRINDER PUMP	60	24	460	3	3450	3	SEE DETAIL 4/P-501 AND DRAWING PP101 PLAN NOTE 8 FOR ADDITIONAL INFORMATION
SP-2	ZOELLER	#G7110	SEWAGE GRINDER PUMP	60	24	460	3	3450	3	SEE DETAIL 4/P-501 AND DRAWING PP101 PLAN NOTE 8 FOR ADDITIONAL INFORMATION

	COMMERCIAL URINAL SCHEDULE (224213.16)														
D	(TURE	FLU	USHOMETER	FIXTUR	E CONN	ECTION	MOUNTING	ADA							
	DESCRIPTION	MANUFACTURER	MODEL	CW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES						
	WALL-HUNG, BACK OUTLET, WASHOUT, ACCESSIBLE	SLOAN	3/4"	2"	1 1/2"	17"	Yes								

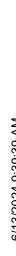
	W			
MANUFACTURER	MODEL	CONNECTION	NOTES	
ZURN	#ZC100-C-EA-R-89	<varies></varies>		
ZURN	#ZC100-C-EA-R	DUCO CAST IRON BODY WITH FLASHING CLAMP AND CAST IRON DOME	<varies></varies>	

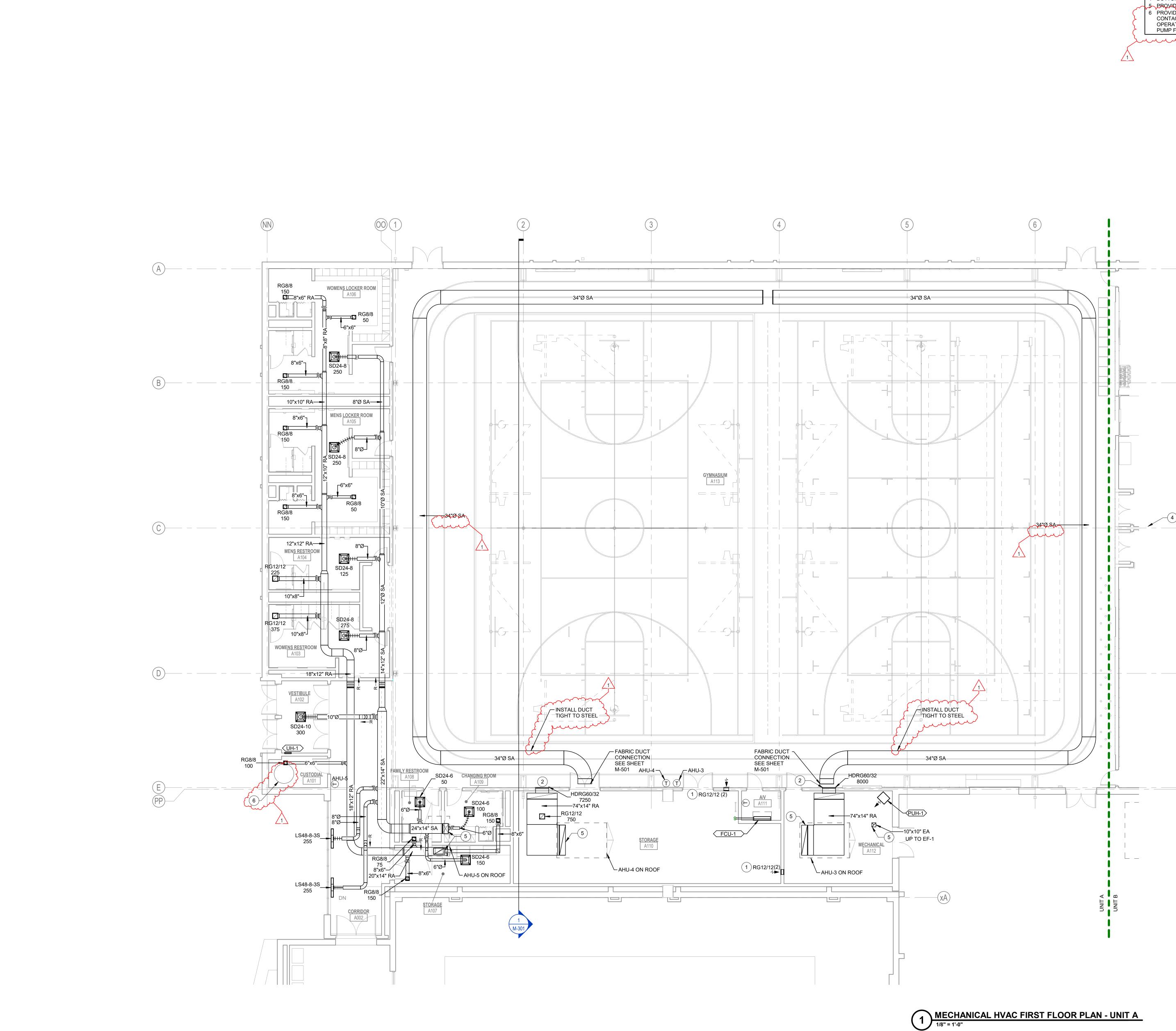
			WATER HAMMER ARE	RESTER (221119)		
MARK	IPS	F.U. RATING	J.R. SMITH NO.	WADE NO.	ZURN NO.	REMARKS
А	3/4"	1-11	5005	W-5	100	P.D.I. CERTIFIED
В	1"	12-32	5010	W-10	200	P.D.I. CERTIFIED
С	1"	33-60	5020	W-20	300	P.D.I. CERTIFIED
D	1"	61-113	5030	W-50	400	P.D.I. CERTIFIED
E	1"	114-154	5040	W-75	500	P.D.I. CERTIFIED

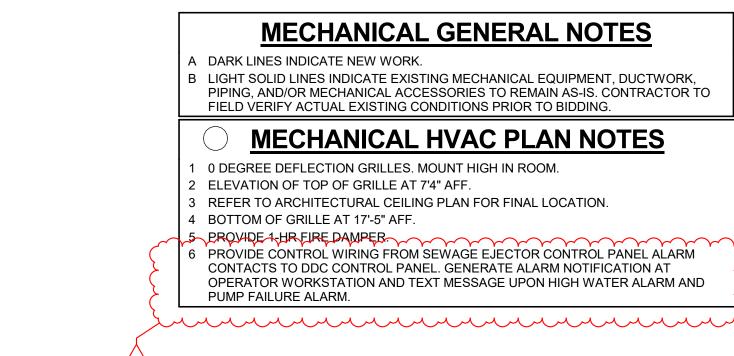
			MIXING, MET	ERING, AND PRESSURE REDUCING VALVES (22	1119)	
				IDENTITY DATA		
	MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE	PRESSURE DRO
	BFP-1	ZURN WILKINS	#975XLS2 - 2"	REDUCED PRESSURE BACKFLOW PREVENTER	160 GPM	15.20 psi
			FIR	E PROTECTION EQUIPMENT SCHEDULE		
				-		
	\sim	~~~~~~			\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
\sim	MARK	MANUFACTURER	\sim	-	CAPACITY	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

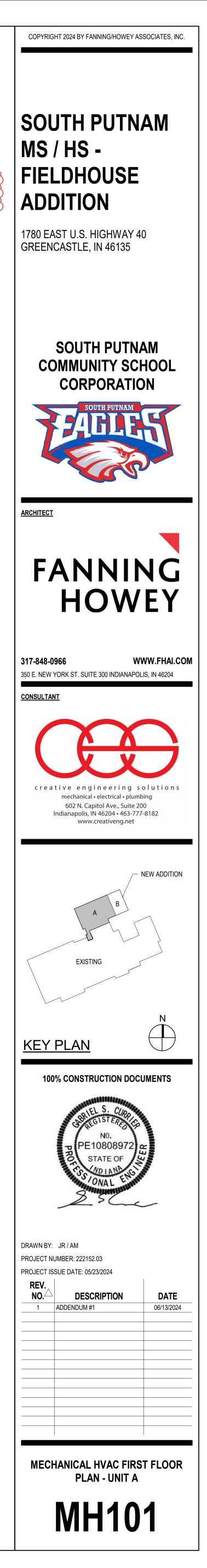


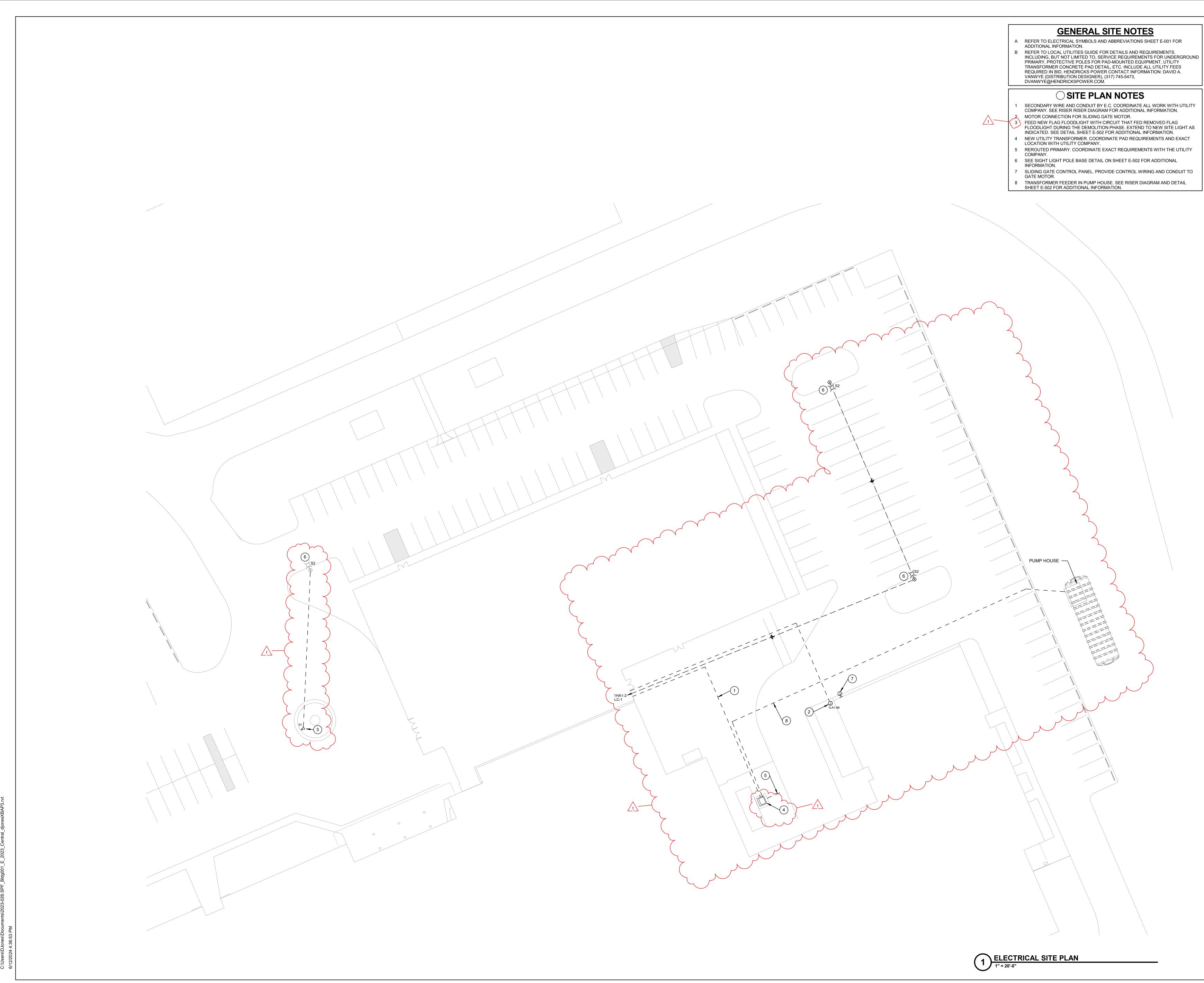


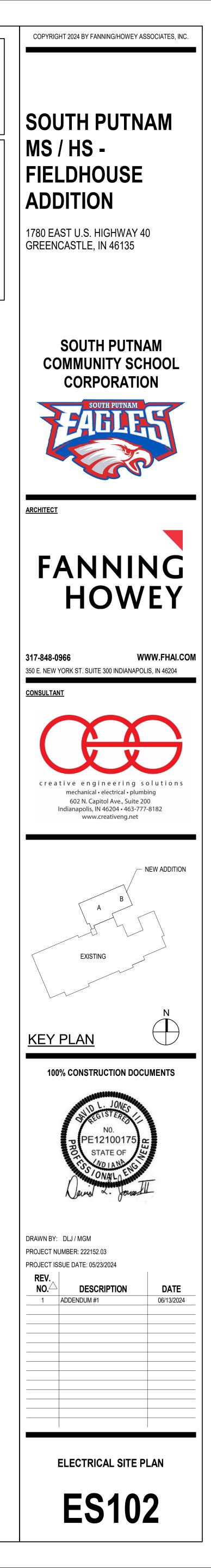




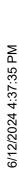


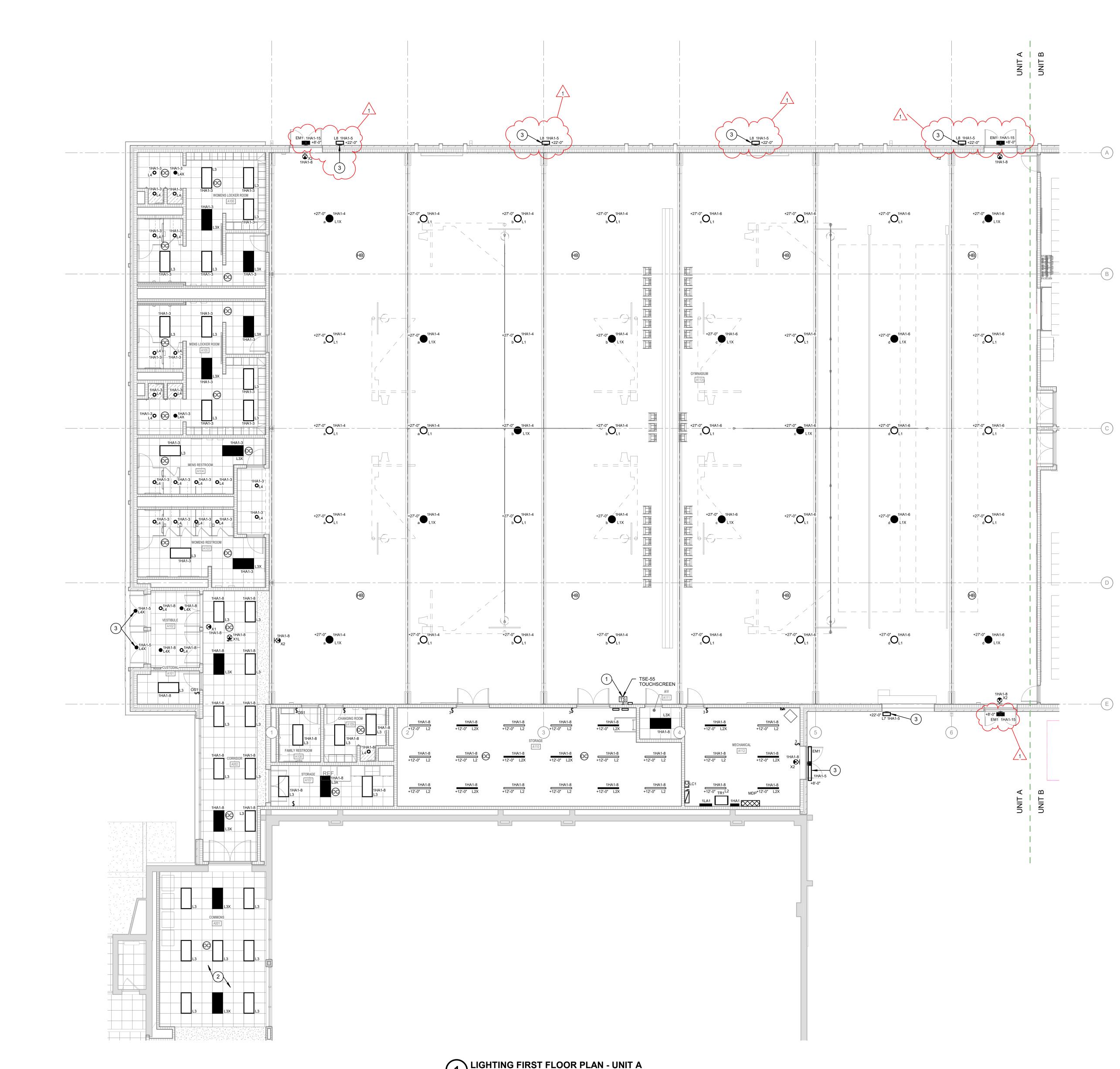










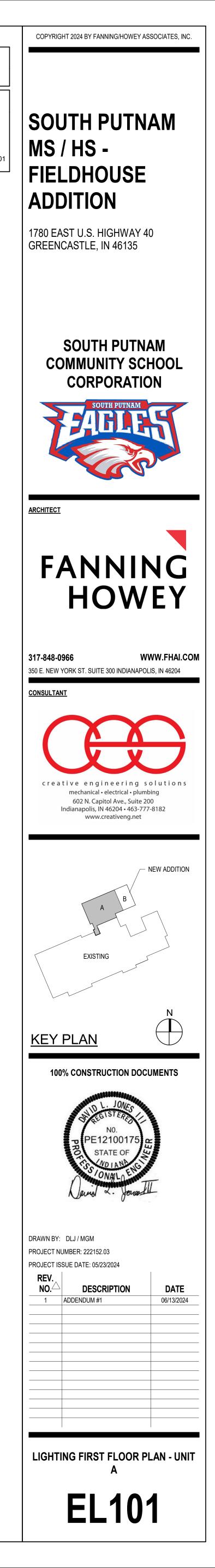


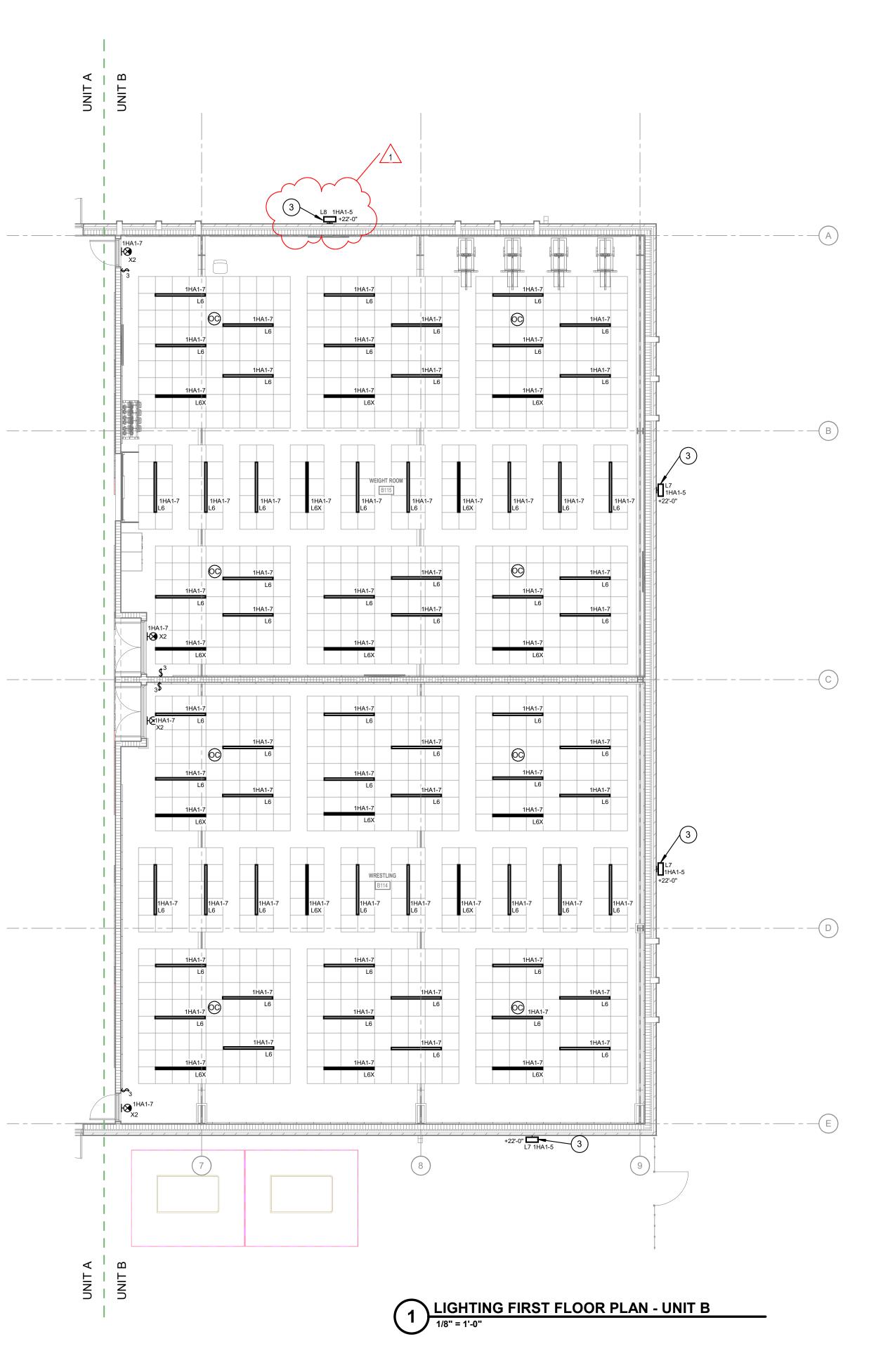
1 LIGHTING FIRST FLOOR PLAN - UNIT A

GENERAL LIGHTING NOTES A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

- TOUCH SCREEN SERVING SWITCH LEGS 'a', 'b', 'c', 'd'. REFER TO WAVELINX TSE55-B WIRING DIAGRAM ON SHEET E-601 FOR ADDITIONAL DETAILS.
- EXTEND/MODIFY EXISTING LIGHTING CONTROLS SERVING THE EXISTING BUILDING CORRIDORS TO LIGHTING FIXTURES IN THIS AREA.
- ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTACTOR "LC-1" LOCATED IN MECHANICAL A112. REFER TO LIGHTING CONTACTOR SCHEDULE ON SHEET E-601 FOR ADDITIONAL DETAILS.

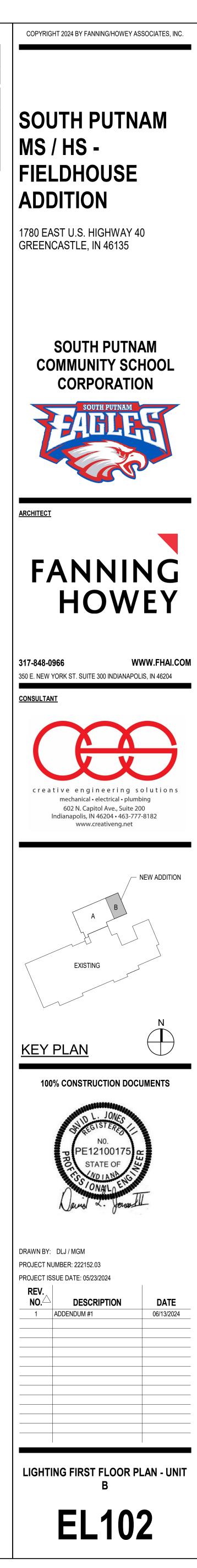




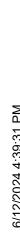
GENERAL LIGHTING NOTES

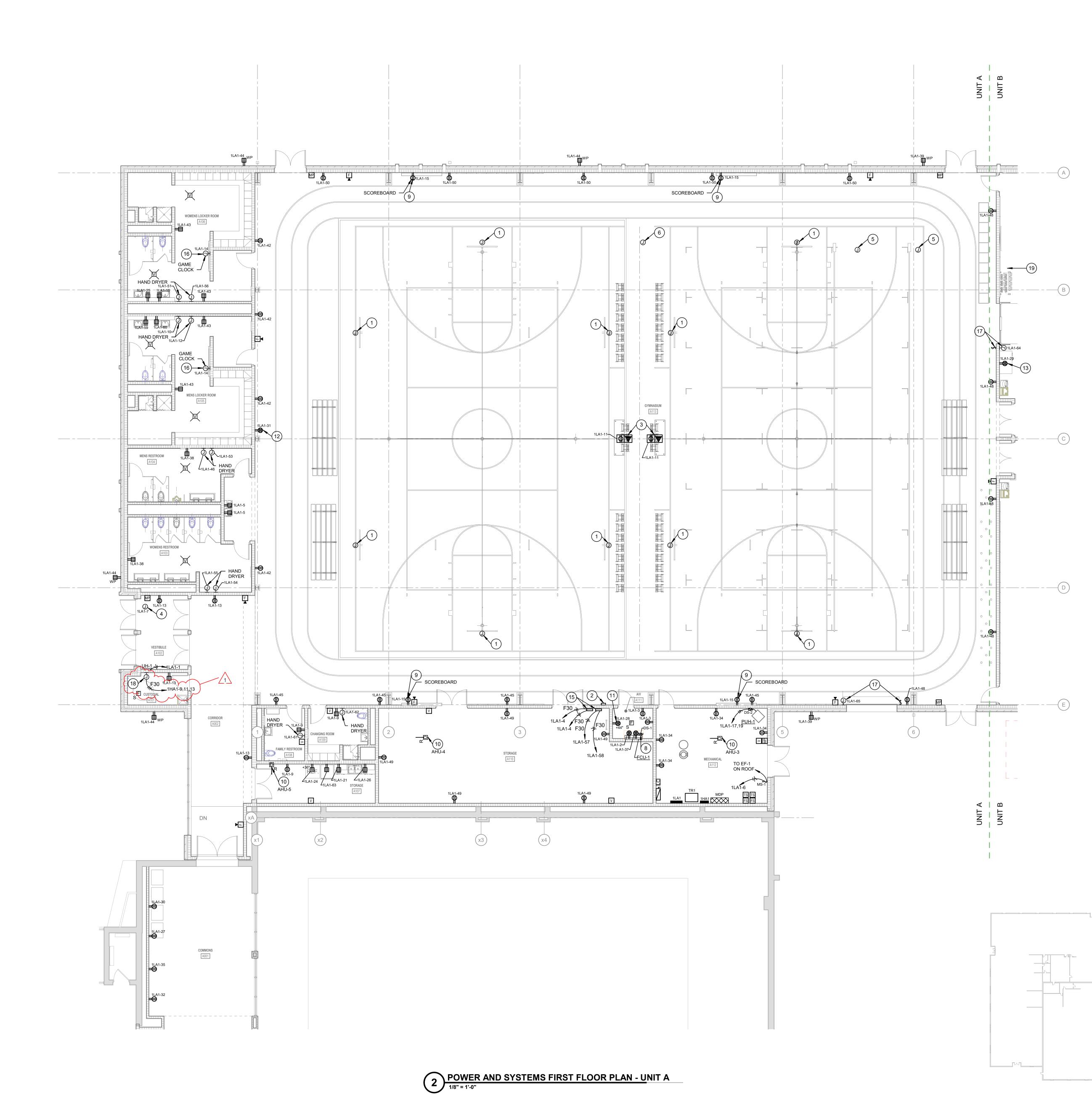
A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

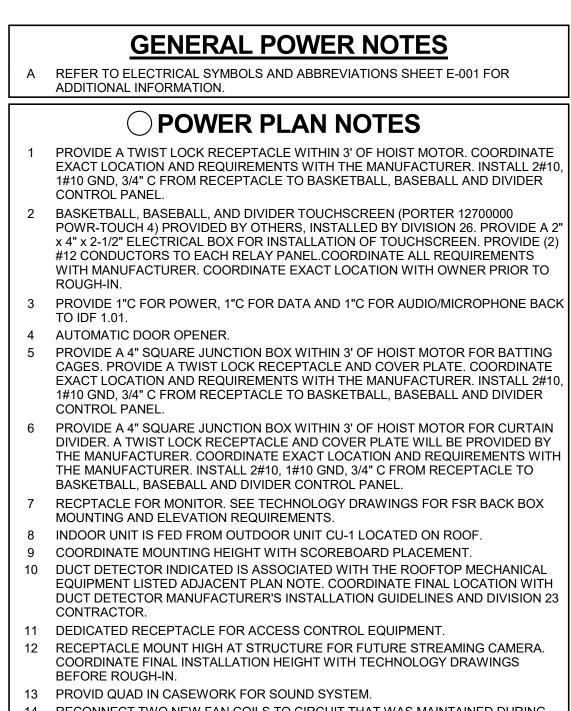
- **UIGHTING PLAN NOTES** TOUCH SCREEN SERVING SWITCH LEGS 'a', 'b', 'c', 'd'. REFER TO WAVELINX TSE55-B WIRING DIAGRAM ON SHEET E-601 FOR ADDITIONAL DETAILS.
- EXTEND/MODIFY EXISTING LIGHTING CONTROLS SERVING THE EXISTING BUILDING CORRIDORS TO LIGHTING FIXTURES IN THIS AREA.
 ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTACTOR "LC-1" LOCATED IN MECHANICAL A112. REFER TO LIGHTING CONTACTOR SCHEDULE ON SHEET E-601 FOR ADDITIONAL DETAILS.











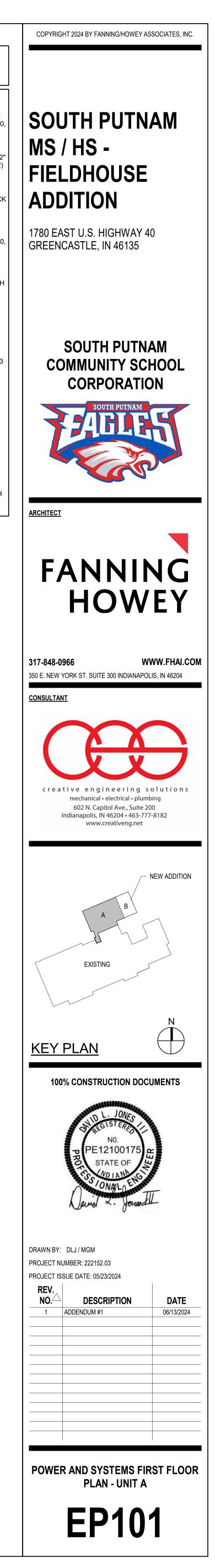
- RECONNECT TWO NEW FAN COILS TO CIRCUIT THAT WAS MAINTAINED DURING DEMOLITION. RELAY PANELS FOR BASKETBALL GOAL, DIVIDER CURTAIN AND BASEBALL NET CONTROL. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER'S INSTALLATION GUIDELINES.
- 16 COORDINATE MOUNTING HEIGHT WITH ARCHITECT BEFORE ROUGH-IN.
- PROVIDE POWER FOR AUTOMATIC DOOR AS INDICATED. PROVIDE WIRING TO CONNECT COIL WITH OPERATOR AS REQUIRED.
- 18 SEWAGE PUMP CONTROL PANEL. COORDINATE FINAL LOCATION OF PANEL WITH DIVISION 23 CONTRACTOR BEFORE ROUGH-IN.
- MOUNT RECEPTACLES INDICATED AT 8" AFF TO CENTER OF FACE PLATE.

EXISTING UTILITY XFMR

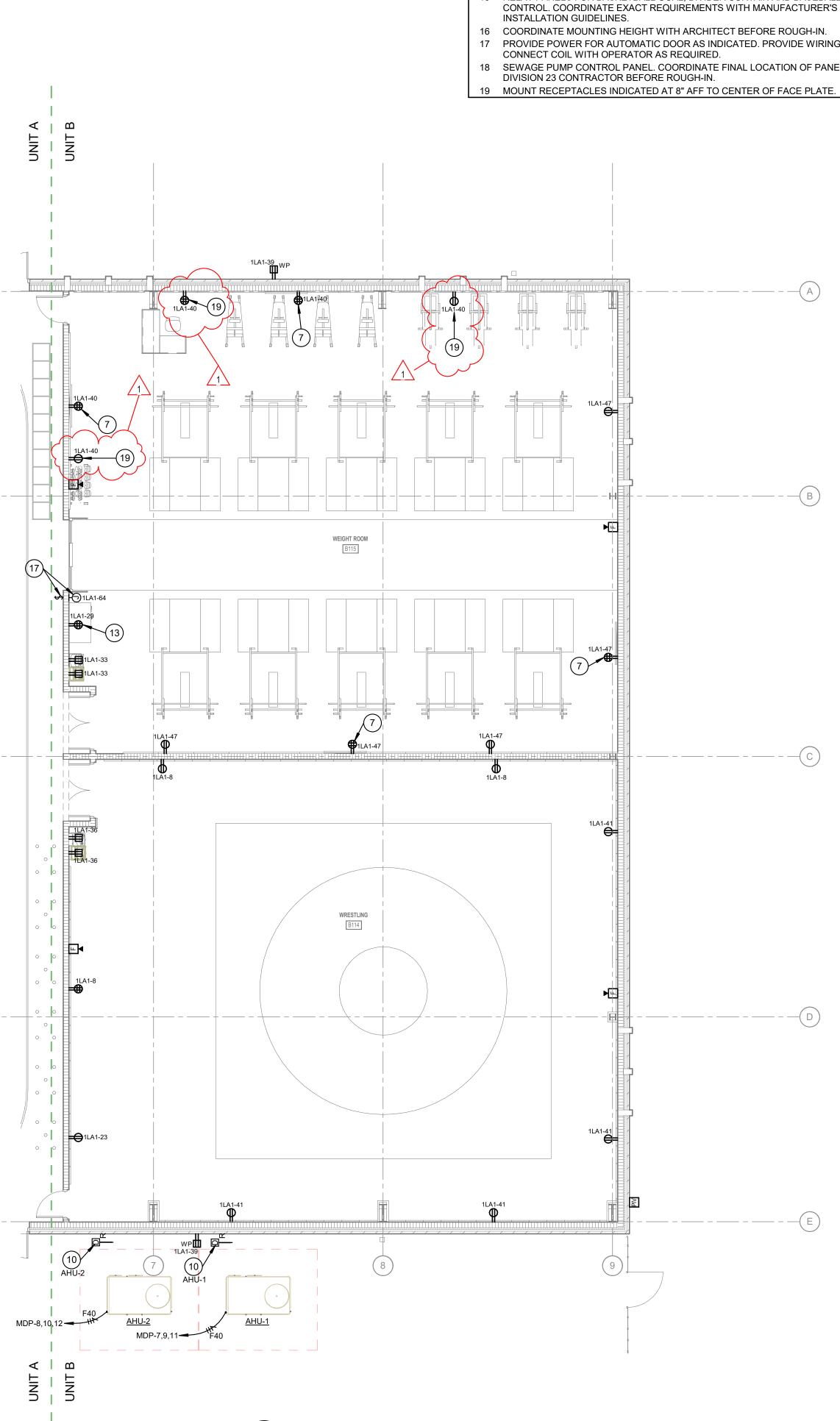
OVERALL PLAN 1" = 60'-0"

NEW WORK AREA 🕂

FACP-



1 POWER AND SYSTEMS FIRST FLOOR PLAN - UNIT B



THE MANUFACTURER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH THE MANUFACTURER. INSTALL 2#10, 1#10 GND, 3/4" C FROM RECEPTACLE TO BASKETBALL, BASEBALL AND DIVIDER CONTROL PANEL. RECPTACLE FOR MONITOR. SEE TECHNOLOGY DRAWINGS FOR FSR BACK BOX MOUNTING AND ELEVATION REQUIREMENTS. 8 INDOOR UNIT IS FED FROM OUTDOOR UNIT CU-1 LOCATED ON ROOF. 9 COORDINATE MOUNTING HEIGHT WITH SCOREBOARD PLACEMENT.

GENERAL POWER NOTES

A REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.

CONTROL PANEL.

ROUGH-IN.

TO IDF 1.01.

CONTROL PANEL.

5

4 AUTOMATIC DOOR OPENER.

OPOWER PLAN NOTES

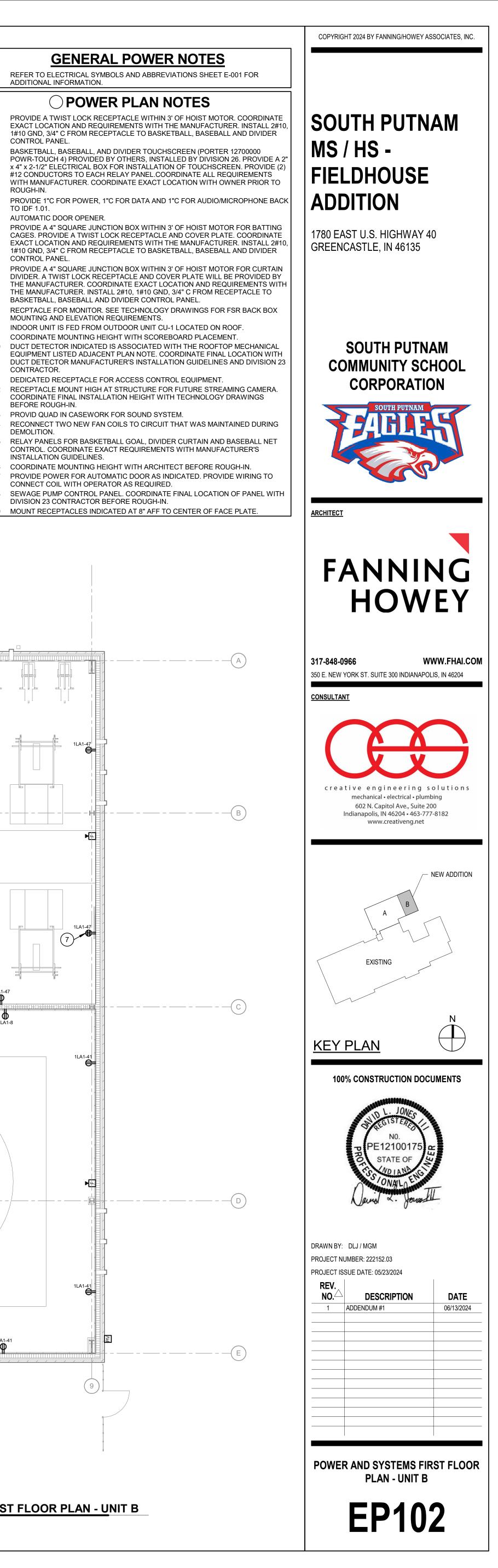
BASKETBALL, BASEBALL, AND DIVIDER TOUCHSCREEN (PORTER 12700000

#12 CONDUCTORS TO EACH RELAY PANEL.COORDINATE ALL REQUIREMENTS

- 10 DUCT DETECTOR INDICATED IS ASSOCIATED WITH THE ROOFTOP MECHANICAL EQUIPMENT LISTED ADJACENT PLAN NOTE. COORDINATE FINAL LOCATION WITH DUCT DETECTOR MANUFACTURER'S INSTALLATION GUIDELINES AND DIVISION 23 CONTRACTOR.
- 11 DEDICATED RECEPTACLE FOR ACCESS CONTROL EQUIPMENT. RECEPTACLE MOUNT HIGH AT STRUCTURE FOR FUTURE STREAMING CAMERA.
- COORDINATE FINAL INSTALLATION HEIGHT WITH TECHNOLOGY DRAWINGS
- BEFORE ROUGH-IN.
- 13 PROVID QUAD IN CASEWORK FOR SOUND SYSTEM.
- RECONNECT TWO NEW FAN COILS TO CIRCUIT THAT WAS MAINTAINED DURING DEMOLITION. RELAY PANELS FOR BASKETBALL GOAL, DIVIDER CURTAIN AND BASEBALL NET
- CONTROL. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER'S

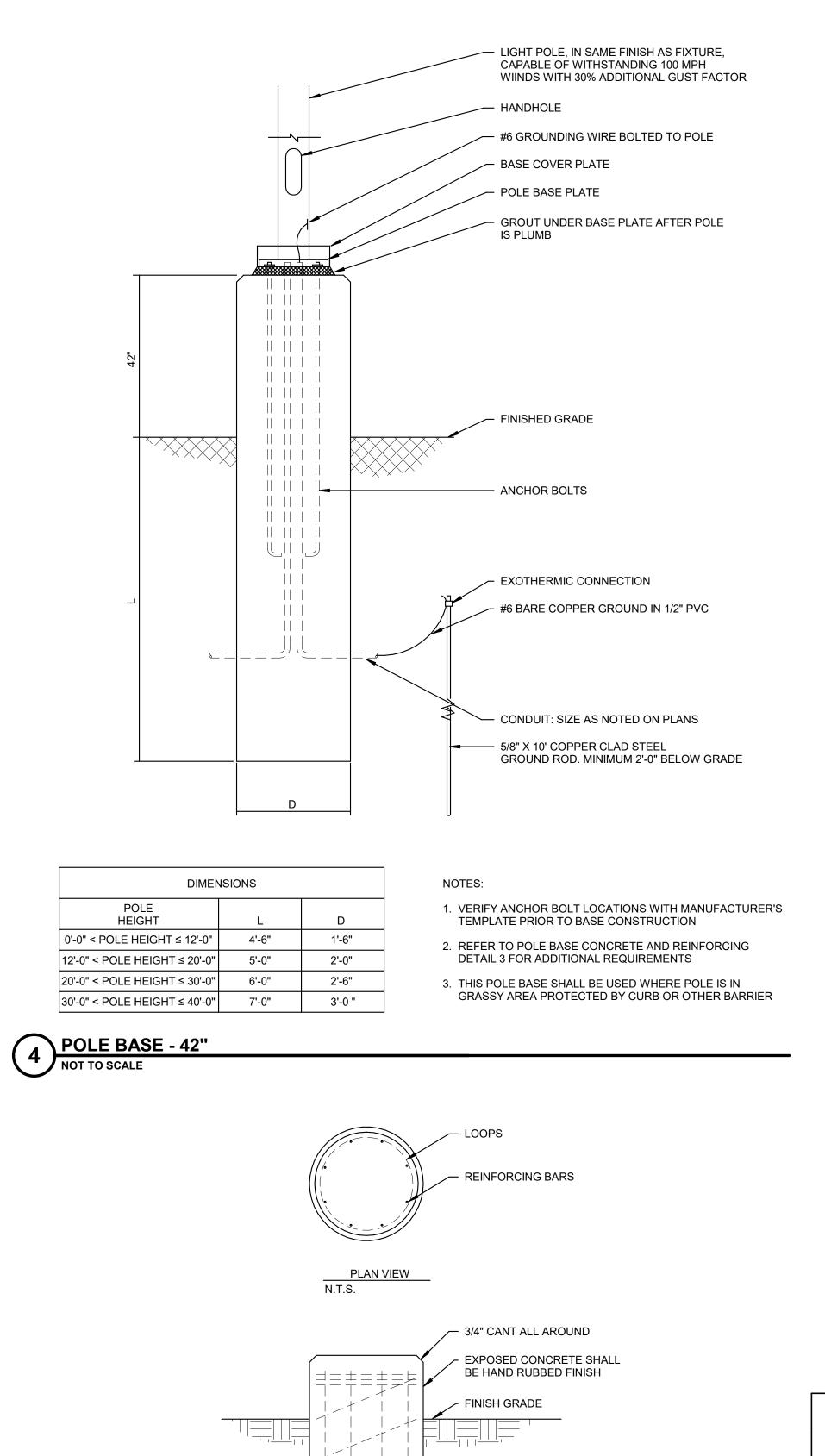
- PROVIDE POWER FOR AUTOMATIC DOOR AS INDICATED. PROVIDE WIRING TO

- 18 SEWAGE PUMP CONTROL PANEL. COORDINATE FINAL LOCATION OF PANEL WITH



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// (8) #5 REINFORCING BAR

/- #4 SPIRAL WITH 6" PITCH

TOP AND BOTTOM

3" CLEARANCE TOP, SIDES AND BOTTOM

NOTES: 1. USE 4000 PSI 28 DAY STRENGTH CONCRETE FOR POLE BASE

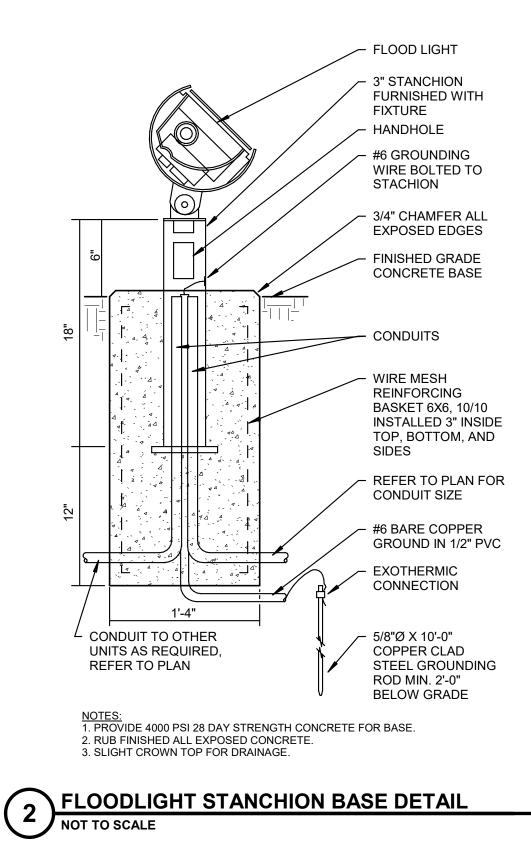
2. PLACE CONCRETE THE SAME DAY BASE IS DRILLED

3. USE SONOTUBE FORM ABOVE GRADE AND EXTEND TO 6" BELOW GRADE

3 POLE BASE CONCRETE AND REINFORCING DETAIL NOT TO SCALE

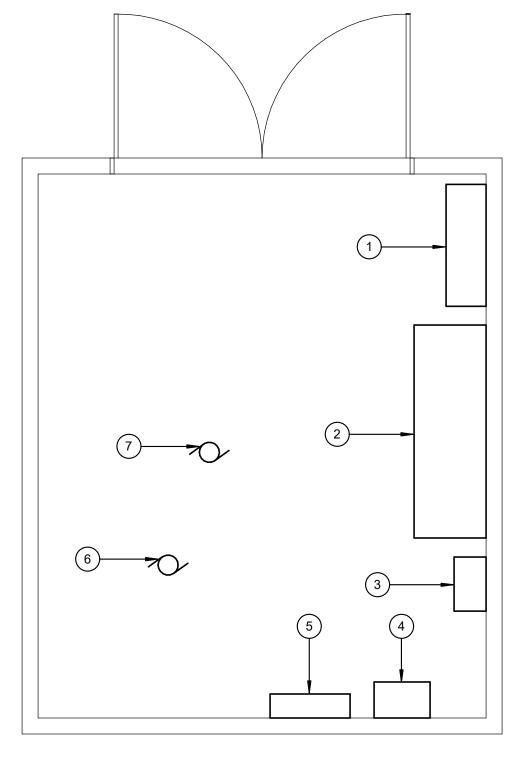
4. REFER TO POLE BASE DETAIL FOR DIMENSIONS

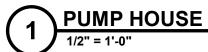
(3) #4 LOOPS ON 2" CENTERS

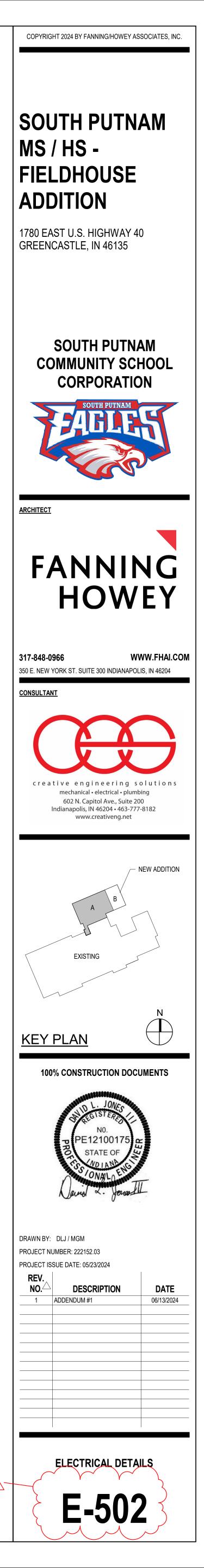


ENLARGED POWER PLAN NOTES

- 400A-480V-3PH SERVICE RATED SAFETY SWITCH. DIVISION 26 FURNISHED, DIVISION 26 INSTALLED. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 30HP FIRE PUMP CONTROLLER. DIVISION 21 FURNISHED, DIVISION 26 INSTALLED.
- SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 JOCKEY PUMP CONTROLLER, 0.5 HP, 120V, 1 PHASE. DIVISION 21 FURNISHED,
- DIVISION 26 INSTALLED. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION. 15KVA TRANSFORMER. PUMP HOUSE MANUFACTURER FURNASHED AND
- INSTALLED. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION. 100A PANELBOARD. PUMP HOUSE MANUFACTURER FURNASHED AND INSTALLED.
- SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 30HP FIRE PUMP. DIVISION 21 FURNISHED, WIRING BY DIVISION 26.
 0.5HP JOCKEY PUMP. DIVISION 21 FURNISHED, WIRING BY DIVISION 26.





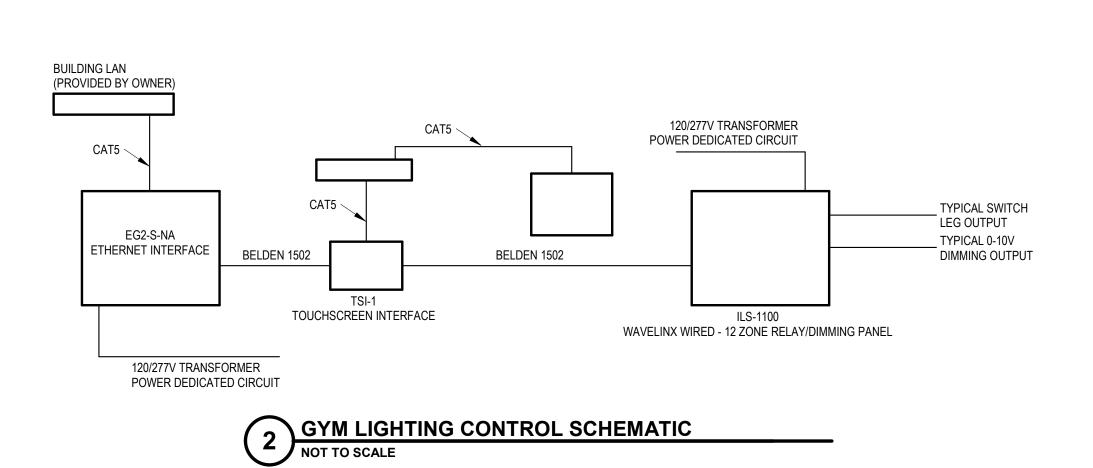


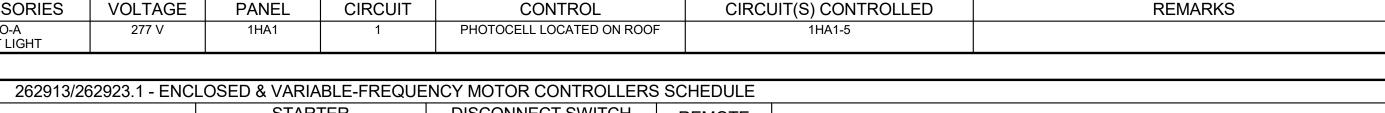
Late Description Voltage The UNCE SUMPLie Number of the state		265119/265619/2										$\neg \neg$
Interaction		DESCRIPTION	VOLTAGE	TYPE	· · · · · · · · · · · · · · · · · · ·		ССТ	MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	3
LIVE VARIANG. LIVE	EM1		120/277 V	LED	445 LM	17 W	4000 K	SURFACE/WALL	ACRYLIC	N/A	EVENLITE WEATHERWAY	E
SILLUA VIEL BISCUID OUT VIEL VIEL VIELE VIE	L1		120/277 V	LED	12,000 LM	106 W	4000 K	PENDANT	N/A	DLC	HOLOPHANE PHS	
Image: Constraint of the second of			120/277 V	LED	12,000 LM	106 W	4000 K	PENDANT	N/A	DLC	HOLOPHANE PHS	
Image: constraint of the set of the se	L2	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	2,600 LM	25 W	3500 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED LENS	ES	COLUMBIA MPS	
Image: Constraint of the second of	L2X	4' LENSED LED STRIP LIGHT WITH BATTERY BACK-UP. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	2,600 LM	25 W	3500 K		SEMI-FROSTED LENS	ES	COLUMBIA MPS	
Image: Constraint of the set of the se	L3	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	3,600 LM	30 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	COLUMBIA CFP24	
Image: Control of the second seco	L3X	2X4 LED FLAT PANEL WITH BATTERY BACK-UP. 0-10V DIMMING.	120/277 V	LED	3,600 LM	30 W	3500 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	COLUMBIA CFP24	
Image: Construction of the second of the	L4	6" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. 0-10V DIMMING. SUITABLE FOR WET LOCATIONS.	120/277 V	LED	1,000 LM	12 W	3000 K	RECESSED IN GRID	RESISTANT	DLC	PRESCOLITE LTR-6RD	
Image: Construction of the state of the	L4X	6" ROUND LED DOWNLIGHT WITH BATTERY BACK-UP. SELF-FLANGED TRIM. 0-10V DIMMING. SUITABLE FOR WET LOCATIONS.	120/277 V	LED	1,000 LM	12 W	3000 K	RECESSED IN GRID	RESISTANT	DLC	PRESCOLITE LTR-6RD	
Let Let Let Let Let Let Let Let PINALLE EDGE 17 LED FLOOD LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. BLACK FINISH. U.L. LISTED FOR WET LOCATIONS. 120/277 V LED 7,827 LM 70 W 4000 K WALL MOUNTED TYPE III DISTRIBUTION N/A MGGRAW-EDISON ISS SPALLDING G9P LITHONIA WSQ 18 LED FLOOD LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. BLACK FINISH. U.L. LISTED FOR WET LOCATIONS. 120/277 V LED 11,468 LM 96 W 4000 K WALL MOUNTED TYPE III DISTRIBUTION N/A MGGRAW-EDISON ISS SPALLDING G9P LITHONIA WSQ S1 LED IN-GROUND FLOOD LIGHT WITH NARROW SPOT DISTRIBUTION. HEAVY DUTY DIECAST ALUMINUM. UL LISTED FOR WET 120 V LED 3,000 LM 26 W 4000 K IN GRADE TEMPERED CLEAR GLASS DLC LUMARK. NFLD S2 LED SITE FINITURE SINGLE-PIECE ALUMINUM HOUSING, ARM MOUNT: U.L. LISTED WET LOCATION, DARK BRONZE FINISH. 120/277 V LED 7,096 LM 52 W 4000 K 20 POLE, BASE BY DIVISION 26 CONTRACTOR DLC MGRAW-EDISON GLEON LED MUBBELL FSL S1 LED SITE FINITURE SINGLE FINESE ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED 120/277 V LED 7,096 LM 52 W 4000 K <td>L6</td> <td>4"X6' EXTRUDED ALUMINUM LED. 0-10V DIMMING.</td> <td>120/277 V</td> <td>LED</td> <td>1,500 LM</td> <td>15 W</td> <td>3500 K</td> <td>RECESSED IN GRID</td> <td>FLUSH SATIN LENS</td> <td>DLC</td> <td>FINELITE HP4</td> <td></td>	L6	4"X6' EXTRUDED ALUMINUM LED. 0-10V DIMMING.	120/277 V	LED	1,500 LM	15 W	3500 K	RECESSED IN GRID	FLUSH SATIN LENS	DLC	FINELITE HP4	
LB Leb FLOOD LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. BLACK FINISH. UL LISTED FOR WET LOCATIONS. 120/277 V LED 11.468 LM 95 W 4000 K WALL MOUNTED TYPE III DISTRIBUTION NIA MCGRAVE-DISCONS LITHONIN WSG S1 LED IN-GROUND FLOOD LIGHT WITH NARROW SPOT DISTRIBUTION. HEAVY DUTY DIECAST ALUMINUM. UL LISTED FOR WET 120 V LED 3.000 LM 28 W 4000 K IN GRADE TEMPERED CLEAR GLASS DLC LITHONN WSG S2 LED IN-GROUND FLOOD LIGHT WITH NARROW SPOT DISTRIBUTION. HEAVY DUTY DIECAST ALUMINUM. UL LISTED FOR WET 120 V LED 3.000 LM 28 W 4000 K IN GRADE TEMPERED CLEAR GLASS DLC LITHONN WSG S2 LED STEP_INFUNE SINGLE-PIECE ALUMINUM HOUSING, ARM MOUNT, UL LISTED WET LOCATION. DARK BRONZE FINISH. 120/277 V LED 7.096 LM 52 W 4000 K 20' POLE, BASE BY DISTRIBUTION, HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED 120/277 V LED N/A SW N/A UNIVERSAL N/A DLC McGRAVW-EDISON BEACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED 120/277 V LED N/A SW N/A UNIVERSAL N/A DUAL-ITTE SC X1 LED EXTI LIGHT. MATTE BLACK DIE-CAST ALUM	L6X	4"X6' EXTRUDED ALUMINUM LED WITH BATTERY BACK-UP. 0-10V DIMMING.	120/277 V	LED	1,500 LM	15 W	3500 K	RECESSED IN GRID	FLUSH SATIN LENS	DLC	FINELITE HP4	
SPALIDING QSP LED SPALIDING QSP LITHONIA WSQ S1 LED IN-GROUND FLOOD LIGHT WITH NARROW SPOT DISTRIBUTION. HEAVY DUTY DIECAST ALUMINUM. UL LISTED FOR WET 120 V LED 3.000 LM 26 W 4000 K IN GRADE TEMPERED CLEAR GLASS DLC LIUMARK NFFLD S2 LED SITE-INFCIRE/SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. UL LISTED WET LOCATION. DARK BRONZE FINISH. 120/277 V LED 7,096 LM 52 W 4000 K 207 POLE, BASE BY N/A DLC BEGRON YPS S2 Revento, TAPERED S0' STEEL POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. 120/277 V LED 7,096 LM 52 W 4000 K 207 POLE, BASE BY N/A DLC BEGRON YPS S1 LED SITL FINATURE SINGLE-PROTECTION. (1) HEAD. 120/277 V LED N/A 50 W N/A UNIVERSAL N/A SUFEL POLE SUFEL POLE CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED 120/277 V LED N/A SW N/A UNIVERSAL N/A SUFEL POLE CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED 120/277 V LED N/A SW N/A UNIVERSAL N/A SUFELITES CX UTHONIA LE UTHONIA LE	L7	LED FLOOD LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. BLACK FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	7,827 LM	70 W	4000 K	WALL MOUNTED	TYPE III DISTRIBUTION	N/A	SPAULDING QSP	
LOCATIONS. LOCATIONS. LOCATIONS. LITHONA DSXFLLED S2 LED SITE-FIXTURE: SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. PRIMARY FUSES/SLEP. POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. 120/277 V LED 7.096 LM 52 W 4000 K 20' POLE, BASE BY DIVISION 26 CONTRACTOR N/A DLC McGRAV-FDISON GLEON LED BEACON VPS LITHONA DSX1 LED X1 LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED 120/277 V LED N/A 5 W N/A UNIVERSAL N/A N/A SURE-LITES CX DUAL-LITE SE LITHONIA LE X1 LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED 120/277 V LED N/A 5 W N/A UNIVERSAL N/A N/A SURE-LITES CX DUAL-LITE SE LITHONIA LE X1 LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED 120/277 V LED N/A 5 W N/A UNIVERSAL N/A N/A SURE-LITES CX DUAL-LITE SE LITHONIA LE X2 VANDAL PROOF LED EXIT LIGHT, DIE-CAST ALUMINUM HOUSING, BLACK FINISH, SINGLE FACE, STENCIL FACE, RED LETTERS, SELF-POWERED, NICKEL-CADMIUM BATTERY, SELF-DIAGNOSTICS/SELF-TESTING MODEULE. 120/277 V LED <td>L8</td> <td>LED FLOOD LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. BLACK PINISH. U.L. LISTED FOR WET LOCATIONS.</td> <td>120/277 V</td> <td>LED</td> <td>11,468 LM</td> <td>95 W</td> <td>4000 K</td> <td>WALL MOUNTED</td> <td>TYPE III DISTRIBUTION</td> <td>N/A</td> <td>SPAULDING QSP</td> <td></td>	L8	LED FLOOD LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. BLACK PINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	11,468 LM	95 W	4000 K	WALL MOUNTED	TYPE III DISTRIBUTION	N/A	SPAULDING QSP	
A ROUND TAPERED 30'STEEL POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. Image: Constraint of the con	S1		120 V	LED	3,000 LM	26 W	4000 K	IN GRADE	TEMPERED CLEAR GLASS	DLC	LITHONIA DSXFLLED	
LETTERS. AC ONLY.LETTERS. AC ONLY.DUAL-LITE SE LITHONIA LEX1LLED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY.120/277 VLEDN/A5 WN/AUNIVERSALN/ASURE-LITES CX DUAL-LITE SE LITHONIA LEX2VANDAL PROOF LED EXIT LIGHT, DIE-CAST ALUMINUM HOUSING, BLACK FINISH, SINGLE FACE, STENCIL FACE, RED LETTERS, SELF-POWERED, NICKEL-CADMIUM BATTERY, SELF-DIAGNOSTICS/SELF-TESTING MODEULE.120/277 VLEDN/A5 WN/AUNIVERSALVANDAL-RESISTANT PLYCARBONATE SHIELD WITH TAMPERPROOFN/ASURE-LITES CX DUAL-LITE SE LITHONIA LE	S2	ROUND TAPERED 30' STEEL POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR.	120/277 V	LED	7,096 LM	52 W	4000 K		N/A	DLC	BEACON VPS	
LETTERS. AC ONLY. LETTERS. AC ONLY. DUAL-LITE SE X2 VANDAL PROOF LED EXIT LIGHT, DIE-CAST ALUMINUM HOUSING, BLACK FINISH, SINGLE FACE, STENCIL FACE, RED 120/277 V LED N/A 5 W N/A UNIVERSAL VANDAL-RESISTANT N/A SURE-LITES UX LETTERS, SELF-POWERED, NICKEL-CADMIUM BATTERY, SELF-DIAGNOSTICS/SELF-TESTING MODEULE. 120/277 V LED N/A 5 W N/A UNIVERSAL VANDAL-RESISTANT N/A SURE-LITES UX UNAL-LITE SEWL LITHONIA LU LITHONIA LV LITHONIA LV LITHONIA LV LITHONIA LV	X1		120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	DUAL-LITE SE	
LETTERS, SELF-POWERED, NICKEL-CADMIUM BATTERY, SELF-DIAGNOSTICS/SELF-TESTING MODEULE. DUAL-LITE SEWL UITH TAMPERPROOF DUAL-LITE SEWL LITHONIA LV	X1L		120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	DUAL-LITE SE	
	X2		120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	PLYCARBONATE SHIELD WITH TAMPERPROOF	N/A	DUAL-LITE SEWL	

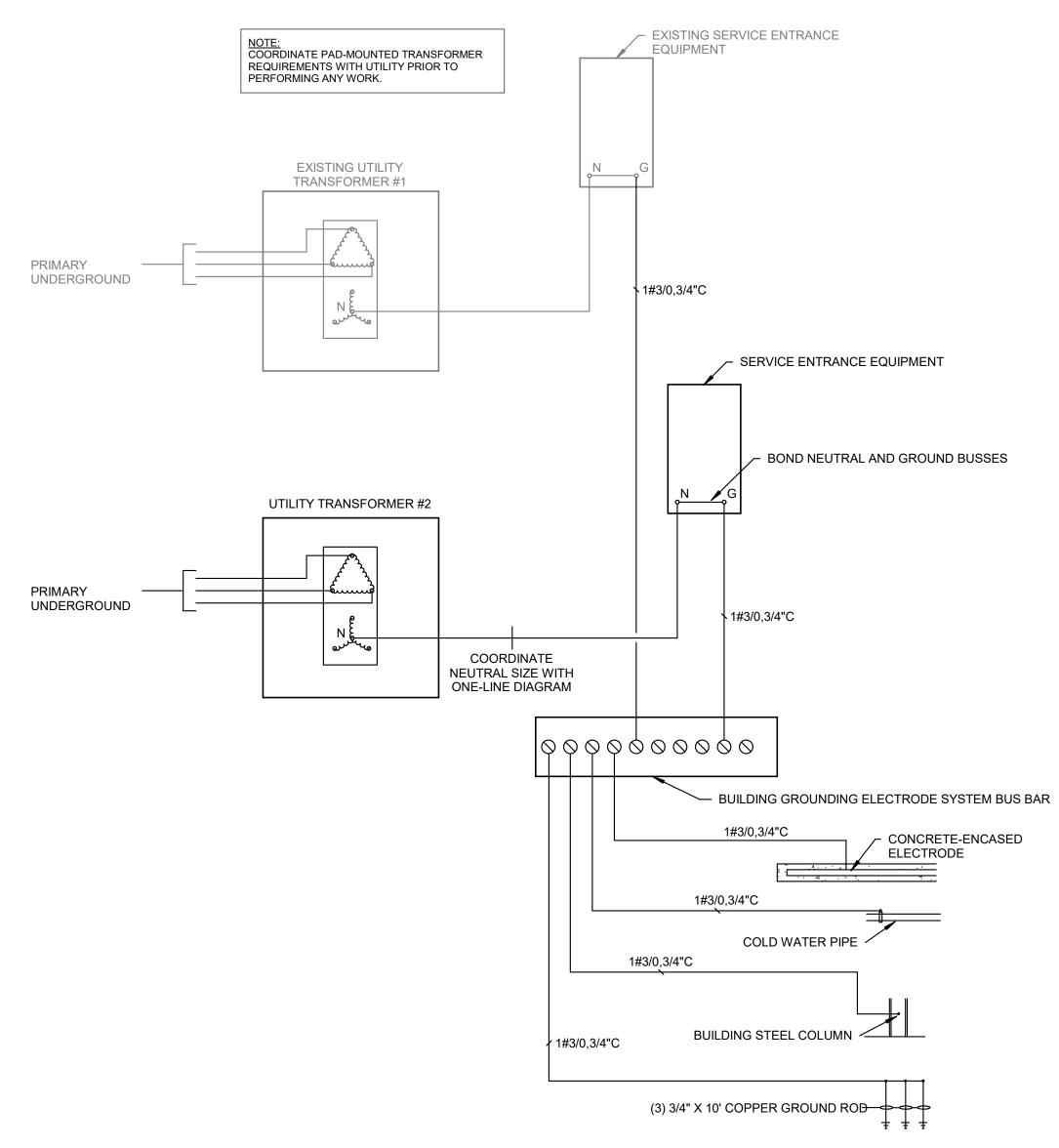
LABEL	VOLTAGE		EQUIPMENT F		ACCESSORIES	VOLTAGE
				_		
LC1	600 V	30 A	4	NEMA 1	H-O-A PILOT LIGHT	277 V

	EQUIPMENT		E	QUIPMENT RATI	NGS		STAR	TER	DISCONNE	CT SWITCH	REMOTE		
LABEL	SERVED	VOLTAGE	PHASE	HP	FLA	NEMA ENCL	TYPE	NEMA SIZE	TYPE	FUSE SIZE	CAPACITOR		REMARKS
MS-1	EF-1	120 V	1	1/6	4.4 A	-	-	-	-	-	-	HORSEPOWER R	ATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
							2629			S & CIRCUIT B			
							2020	SIO.I - ENGLO				ILDULL	
							EQUIPMEN				1	SORIES	
				EQUIPMENT							1		
			ABEL	EQUIPMENT SERVED	VOLTAGE	POLES			FUSE SIZE		ACCES	SORIES SOLID	REMARKS
					VOLTAGE 240 V	POLES 2	EQUIPMEN	FRATINGS			ACCES AUX.	SORIES SOLID	REMARKS
			ABEL	SERVED		POLES 2 2	EQUIPMENT AMPERAGE	FUSED	FUSE SIZE		ACCES AUX. CONTACTS	SORIES SOLID NEUTRAL	REMARKS

	EQUIPMENT		
LABEL	SERVED	VOLTAGE	POLES
DS-1	FCU-1	240 V	2
DS-2	PUH-1	240 V	2
DS-3	FIRE PUMP	600 V	3
\sum			

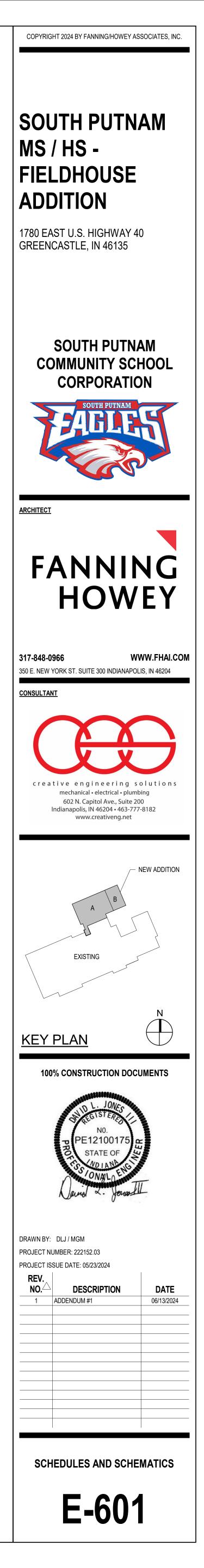


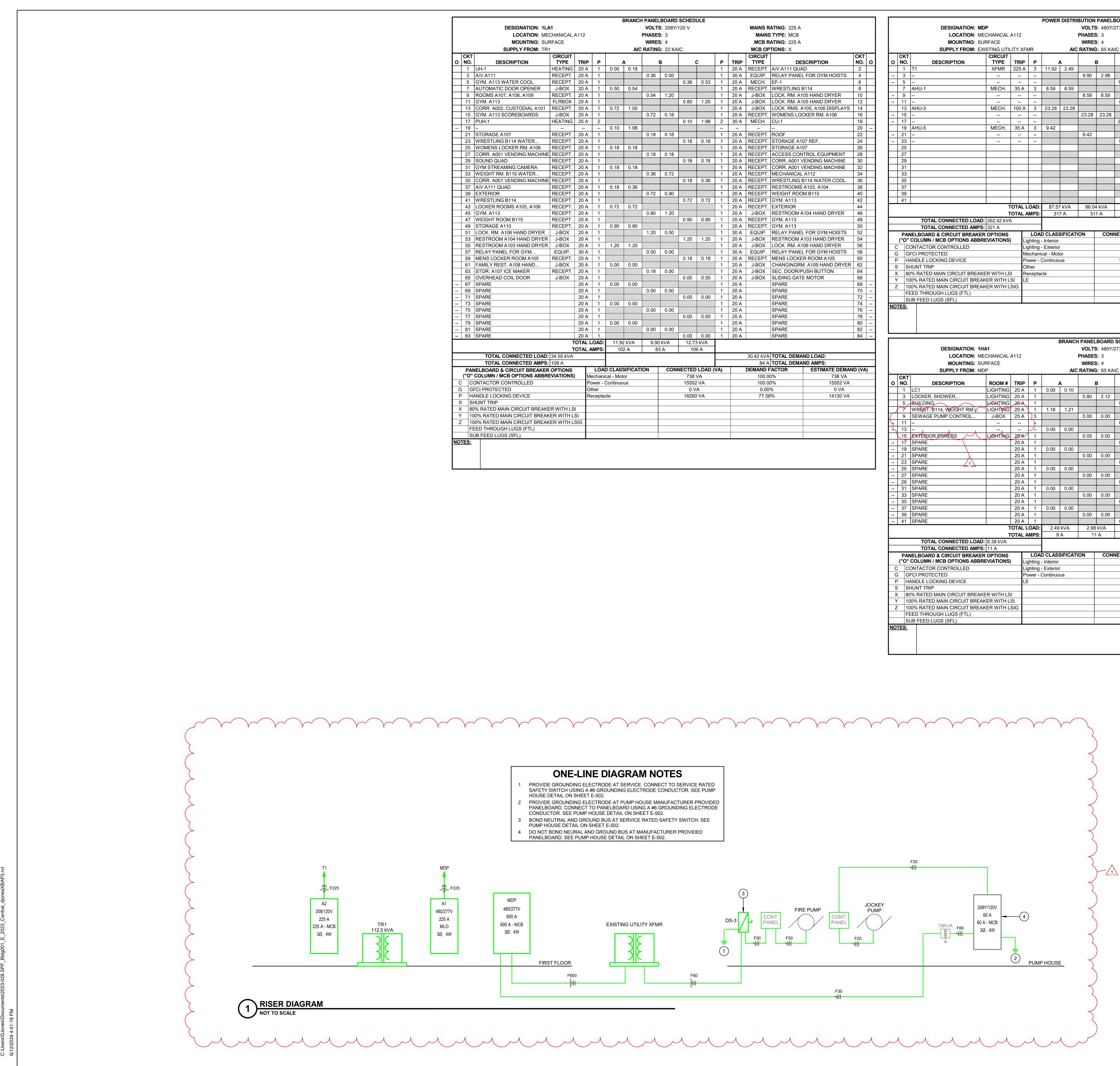




MULTIPLE SERVICE ENTRANCE GROUNDING AND BONDING SCHEMATIC NOT TO SCALE

 \smile





		DESIGNATION: 1LA LOCATION: MEC	1						c. 00000	400.14							
			=					VULI	S: 208Y/	120 V				MAINS R	ATING: 225 A		
				112				PHASE		120 0					STYPE: MCB		
				112													
		MOUNTING: SUF	FACE				A10	WIRE							ATING: 225 A		
	СКТ	SUPPLY FROM: TR1	CIRCUIT				AIC		G: 22 KA			i	i		TIONS: X		
I	NO.	DESCRIPTION	TYPE	TRIP	P		Α		в	(2	Р	TRIP	TYPE		SCRIPTION	
_		UH-1	HEATING	20 A	_	0.00	0.18					1	20 A	RECEPT.	A/V A111 QUA		╈
	3	A/V A111	RECEPT.	20 A	1			0.36	0.00			1	30 A	EQUIP.	RELAY PANEL	FOR GYM HOISTS	+
	5	GYM. A113 WATER COOL.	RECEPT.	20 A	_					0.36	0.53	1	20 A	MECH.	EF-1		╈
		AUTOMATIC DOOR OPENER	J-BOX	20 A	_	0.50	0.54					1	20 A		WRESTLING E	3114	+
-		ROOMS A107, A108, A109	RECEPT.	20 A	_			0.54	1.20			1	20 A	J-BOX		05 HAND DRYER	╉
+		GYM. A113	FLRBOX	20 A				0.01		0.80	1.20	1	20 A	J-BOX		05 HAND DRYER	+
_			RECEPT.	20 A	1	0.72	1.00					1	20 A	J-BOX		105, A106 DISPLAYS	;†
+		GYM. A113 SCOREBOARDS	J-BOX	20 A	_	0		0.72	0.18				20 A	RECEPT.		CKER RM. A106	+
+		PUH-1	HEATING	25 A	2			•=		0.10	1.98	2	30 A	MECH.	CU-1		+
	19					0.10	1.98			0.10	1.00						+
_		STORAGE A107	RECEPT.	20 A	_	0.10	1.00	0.18	0.18			1	20 A	RECEPT.	ROOF		+
		WRESTLING B114 WATER	RECEPT.	20 A	_			0.10	0.10	0.18	0.18	1	20 A		STORAGE A1		+
		WOMENS LOCKER RM. A106	RECEPT.	20 A	1	0.18	0.18			0.10	0.10	1	20 A		STORAGE A1		+
		CORR. A001 VENDING MACHINE		20 A	1	0.10	0.10	0.18	0.18				20 A	-		TROL EQUIPMENT	+
_		SOUND QUAD	RECEPT.	20 A				0.10	0.10	0.18	0.18	1	20 A			ENDING MACHINE	+
_		GYM STREAMING CAMERA	RECEPT.	20 A	_	0.18	0.18			0.10	0.10		20 A			ENDING MACHINE	+
+		WEIGHT RM. B115 WATER	RECEPT.	20 A	_	0.10	0.10	0.36	0.72			1	20 A		MECHANICAL		+
+		CORR. A001 VENDING MACHINE		20 A	-			0.30	0.72	0.18	0.36		20 A			3114 WATER COOL.	+
+		A/V A111 QUAD	RECEPT.		_	0.19	0.26			0.10	0.30	· ·					+
+				20 A		0.18	0.36	0.70	0.00			1	20 A		RESTROOMS		+
—			RECEPT.	20 A	1			0.72	0.90	0.70	0.70	1	20 A		WEIGHT ROO	IVI B115	+
_		WRESTLING B114	RECEPT.	20 A	_	0.70	0.70			0.72	0.72	1	20 A		GYM. A113		+
+		LOCKER ROOMS A105, A106	RECEPT.	20 A		0.72	0.72	0.00	4.00			1	20 A		EXTERIOR		+
_		GYM. A113	RECEPT.	20 A				0.90	1.20	0.00	0.00	1	20 A	J-BOX		104 HAND DRYER	_
+		WEIGHT ROOM B115	RECEPT.	20 A		0.00	0.00			0.90	0.90	1	20 A		GYM. A113		+
+		STORAGE A110	RECEPT.	20 A		0.90	0.90	1.00	0.00			1	20 A		GYM. A113		_
+		LOCK. RM. A106 HAND DRYER	J-BOX	20 A				1.20	0.00	4.00	1.00	1	30 A			FOR GYM HOISTS	
+		RESTROOM A104 HAND DRYER	J-BOX	20 A		4.00	1.00			1.20	1.20	1	20 A	J-BOX		103 HAND DRYER	_
_		RESTROOM A103 HAND DRYER	J-BOX	20 A		1.20	1.20	0.00	0.00				20 A	J-BOX		06 HAND DRYER	+
+		RELAY PANEL FOR GYM	EQUIP.	30 A				0.00	0.00	0.40	0.40	1	30 A	EQUIP.		FOR GYM HOISTS	
+		MENS LOCKER ROOM A105	RECEPT.	20 A		0.00	0.00			0.18	0.18	1	20 A		MENS LOCKE		_
+		FAMILY REST. A108 HAND	J-BOX	20 A		0.00	0.00	0.40	0.00			1	20 A	J-BOX		1. A109 HAND DRYEF	2
+		STOR. A107 ICE MAKER	RECEPT.	20 A				0.18	0.00	0.00	0.50		20 A	J-BOX	SEC. DOOR/P		
_		OVERHEAD COIL DOOR	J-BOX	20 A		0.00	0.00			0.00	0.50	1	20 A	J-BOX	SLIDING GATI	= MOTOR	
_		SPARE		20 A		0.00	0.00					1	20 A		SPARE		+
		SPARE		20 A				0.00	0.00			1	20 A		SPARE		+
_		SPARE		20 A						0.00	0.00	1	20 A		SPARE		_
_		SPARE		20 A		0.00	0.00					1	20 A		SPARE		\rightarrow
_		SPARE		20 A				0.00	0.00			1	20 A		SPARE		
_		SPARE		20 A						0.00	0.00	1	20 A		SPARE		\rightarrow
_		SPARE		20 A		0.00	0.00					1	20 A		SPARE		_
_		SPARE		20 A				0.00	0.00			1	20 A		SPARE		_
-	83	SPARE		20 A						0.00	0.00	1	20 A		SPARE		
					LOAD:		2 kVA) kVA	12.73							
				OTAL	AMPS:	10	2 A	83	3 A	109	9 A						
		TOTAL CONNECTED LOAD:													TOTAL DEMA		
		TOTAL CONNECTED AMPS:	109 A											84 A	TOTAL DEMA	ND AMPS:	
	PAN	IELBOARD & CIRCUIT BREAKER	OPTIONS		LOA	D CLAS	SIFICAT	ION	CON	NECTED	LOAD (VA)		DEMAND I	ACTOR	ESTIMATE DEMA	N
(("0"	COLUMN / MCB OPTIONS ABBRE	VIATIONS)	Ν	/lechani	cal - Mot	or			738 \	VA			100.0	0%	738 VA	
С	CC	ONTACTOR CONTROLLED		F	ower - 0	Continuc	ous			15552	2 VA			100.0	0%	15552 VA	
G	GF	FCI PROTECTED		C	Other					0 V.	A			0.00	%	0 VA	
Ρ	HA	ANDLE LOCKING DEVICE		F	Recepta	cle				18260	VA			77.38	3%	14130 VA	
S	SF	HUNT TRIP															
Х	80	% RATED MAIN CIRCUIT BREAKE	R WITH LS	1													
Y	10	0% RATED MAIN CIRCUIT BREAK	ER WITH L	SI													
Ζ	10	0% RATED MAIN CIRCUIT BREAK	ER WITH L	SIG													
		ED THROUGH LUGS (FTL)															
		JB FEED LUGS (SFL)															
от	ES:																



| |

 | DESIGNATION:
LOCATION:
MOUNTING:
SUPPLY FROM: | MECHANICAL
SURFACE |

 | MR | |
 | PHASE:
WIRE: | | | | | | | S TYPE:
ATING: | MCB
600 A
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 | СК |
| 0 | NO .

 | DESCRIPTION | XFMR | TRIP
225 A

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2.49
 | | B | | C | P
3 | TRIP 225 A | TYPEPANEL | 1HA1 | DESCRIPTION
 | NC |
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 | 9.90 | 2.98 | | | | | | |
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 | | | 12.73 | 2.92 | | | | |
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9

 | AHU-1 | MECH. | 35 A

 | 3 | 8.59 | 8.59
 | 8.59 | 8.59 | | | 3 | 35 A | MECH. | AHU-2 |
 | 8 |
| - | 11

 | | |

 | | |
 | 0.00 | 0.00 | 8.59 | 8.59 | | | | |
 | 12 |
| | 13

 | AHU-3 | MECH. | 100 A

 | 3 | 23.28 | 23.28
 | | | | | 3 | 100 A | MECH. | AHU-4 |
 | 14 |
| | 15
17

 | | |

 | | |
 | 23.28 | 23.28 | 22.20 | 22.20 | | | | |
 | 10 |
| | 17

 |
AHU-5 |
MECH. |
35 A

 | | 9.42 |
 | | | 23.28 | 23.28 | | | | |
 | 20 |
| | 21

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TOTAL L

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7 kVA
 | 86.0 | 4 kVA | 88.8 | l
1 kVA | | | | |
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 | | 1 A | | 21 A | | | | |
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ROOM #
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 | DESIGNATION:
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