## PLAYSYSTEM SPECIFICATIONS

### **GENERAL SPECIFICATIONS**

MATERIAL: ALL MATERIALS SHALL BE STRUCTURALLY SOUND AND SUITABLE FOR SAFE PLAY. DURABILITY SHALL BE ENSURED ON ALL STEEL PARTS BY THE USE OF TIME-TESTED COATINGS SUCH AS ZINC PLATING, GALVANIZING, PROSHIELD® FINISH, TENDERTUFF™ COATING, ETC. COLORS SHALL BE SPECIFIED.

FASTENERS: PRIMARY FASTENERS SHALL BE SOCKETED AND PINNED TAMPERPROOF IN DESIGN, STAINLESS-STEEL (SST) PER ASTM F 879 UNLESS OTHERWISE INDICATED (SEE SPECIFIC PRODUCT INSTALLATION/SPECIFICATIONS). ALL PRIMARY FASTENERS SHALL INCLUDE A LOCKING PATCH TYPE MATERIAL THAT WILL MEET THE MINIMUM

TORQUE REQUIREMENTS OF IFI-125. MANUFACTURER TO PROVIDE SPECIAL TOOLS FOR PINNED TAMPERPROOF FASTENERS. TENDERTUFF COATING: METAL COMPONENTS TO BE TENDERTUFF-COATED SHALL BE THOROUGHLY CLEANED IN A HOT PHOSPHATIZING PRESSURE WASHER, THEN PRIMED WITH A WATER-BASED THERMOSETTING SOLUTION. PRIMED PARTS SHALL BE

PREHEATED PRIOR TO DIPPING IN UV STABILIZED, LIQUID POLYVINYL CHLORIDE (PVC), THEN SALT CURED AT APPROXIMATELY 400 DEGREES. THE FINISHED COATING SHALL BE APPROXIMATELY .080" THICK AT AN 85 DUROMETER WITH A MINIMUM TENSILE STRENGTH OF 1700 PSI AND A MINIMUM TEAR STRENGTH OF 250 LBS/INCH. FIVE STANDARD COLORS AVAILABLE, ALL WITH A MATTE FINISH. (GRAY ONLY FOR HEALTHBEAT®).

PROSHIELD FINISH: ALL METAL COMPONENTS WITH PROSHIELD FINISH SHALL BE THOROUGHLY CLEANED AND PHOSPHATIZED THROUGH A FIVE-STAGE POWER WASHER. PARTS ARE THEN THOROUGHLY DRIED, PREHEATED AND PROCESSED THROUGH A SET OF AUTOMATIC POWDER SPRAY GUNS WHERE A MINIMUM .002" OF EPOXY PRIMER IS APPLIED. A MINIMUM .004" OF ARCHITECTURAL-GRADE SUPER DURABLE POLYESTER TGIC POWDER IS APPLIED. THE AVERAGE PROSHIELD FILM THICKNESS IS .006".

PROSHIELD IS FORMULATED AND TESTED PER THE FOLLOWING ASTM STANDARDS. EACH COLOR MUST MEET OR EXCEED THE RATINGS LISTED BELOW:

HARDNESS (D3363) RATING 2H

FLEXIBILITY (D522) PASS 1/8" MANDREL IMPACT (D2794) RATING MINIMUM 80 INCH-POUNDS

SALT FOG RESISTANCE (B117 AND D1654) 4,000 HOURS AND RATING 6 OR GREATER UV EXPOSURE (G154, 340 BULB) 3,000 HOURS, RATING DELTA E OF 2, AND 90

PERCENT GLOSS RETENTION ADHESION (D3359, METHOD B) RATING 5B

THE FOLLOWING SHALL APPLY:

THE PAINT LINE SHALL EMPLOY A "CHECKERED" ADHESION TEST DAILY. DECKS: ALL DECKS SHALL BE OF MODULAR DESIGN AND HAVE 5/16" DIAMETER HOLES ON THE STANDING SURFACE. THERE SHALL BE A MINIMUM OF (4) SLOTS IN EACH FACE TO ACCOMMODATE FACE MOUNTING OF COMPONENTS. DECKS SHALL BE MANUFACTURED FROM A SINGLE PIECE OF LOW CARBON 12 GA (.105") SHEET STEEL CONFORMING TO ASTM SPECIFICATION A-1011. THE SHEET SHALL BE PERFORATED WITH A RETURN FLANGE ON THE PERIMETER TO PROVIDE THE REINFORCEMENT NECESSARY TO ENSURE STRUCTURAL INTEGRITY. THERE SHALL BE NO UNSUPPORTED AREA LARGER THAN 3.5 SQUARE FEET. THE UNIT SHALL THEN BE

TENDERTUFF-COATED BROWN OR GRAY ONLY. DECKS SHALL BE DESIGNED SO THAT ALL SIDES ARE FLUSH WITH THE OUTSIDE EDGE OF THE SUPPORTING POSTS. NOT APPLICABLE FOR EVOS OR HEALTHBEAT. CONCRETE PRODUCTS: TWO PROCESSES ARE USED FOR CONCRETE PRODUCTS.

1. CASTINGS TO BE MADE FROM GLASS FIBER REINFORCED CONCRETE (GFRC). GLASS FIBER TO BE ALKALI RESISTANT (AR) TYPE GLASS FORMULATED FOR CONCRETE. NOMINAL WALL THICKNESS OF 1" AND WEIGHS ABOUT 11 1/2 LBS. PER SQUARE FOOT. CASTINGS HAVE A STRENGTH OF 1,500 LBS. PER SQUARE INCH IN TENSION AND 5,000 LBS. PER SQUARE INCH IN COMPRESSION. FINISH: LATEX PAINT MADE FOR CONCRETE, NATURAL COLORS.

2. GLASS REINFORCED WET CAST SOLID POUR CONCRETE PRODUCT WITH A COMPRESSION STRENGTH OF 6000 PSI PER ASTM C39 AND WEIGHS ABOUT 143 LBS. PER CUBIC FOOT. FINISH: LATEX PAINT MADE FOR CONCRETE, NATURAL COLORS. ROTATIONALLY MOLDED POLYETHYLENE PARTS: THESE PARTS SHALL BE MOLDED USING PRIME COMPOUNDED LINEAR LOW-DENSITY POLYETHYLENE WITH A TENSILE STRENGTH OF 2500 PSI PER ASTM D638 AND WITH COLOR AND UV-STABILIZING ADDITIVES. WALL THICKNESS VARIES BY PRODUCT FROM .187" (3/16") TO

PERMALENE® PARTS: THESE PARTS SHALL BE MANUFACTURED FROM 3/4" HIGH-DENSITY POLYETHYLENE THAT HAS BEEN SPECIALLY FORMULATED FOR OPTIMUM UV STABILITY AND COLOR RETENTION. PRODUCTS SHALL MEET OR EXCEED DENSITY OF .960 G/CC PER ASTM D1505, TENSILE STRENGTH OF 2400 PSI PER ASTM D638. FIVE STANDARD SOLID COLORS ARE AVAILABLE. SOME PERMALENE PARTS ARE AVAILABLE IN A TWO-COLOR PRODUCT WITH (2) .100" THICK EXTERIOR LAYERS OVER A .550" INTERIOR CORE OF A CONTRASTING COLOR. EIGHT STANDARD TWO-COLOR OPTIONS AVAILABLE. NOT APPLICABLE FOR HEALTHBEAT.

RECYCLED PERMALENE PARTS: THESE PARTS SHALL BE MANUFACTURED FROM 3/4" HIGH-DENSITY POLYETHYLENE THAT HAS BEEN SPECIALLY FORMULATED FOR OPTIMUM UV STABILITY AND COLOR RETENTION. PRODUCTS SHALL MEET OR EXCEED DENSITY OF .960 G/CC PER ASTM D1505, TENSILE STRENGTH OF 2400 PSI PER ASTM D638. UNLESS OTHERWISE SPECIFIED, THE BURY ON ALL FOOTINGS SHALL BE 34" BELOW FINISHED GRADE (FG) ON ALL IN-GROUND PLAY EVENTS/POSTS. HARDWARE PACKAGES: ALL SHIPMENTS SHALL INCLUDE INDIVIDUAL

COMPONENT-SPECIFIC HARDWARE PACKAGES. EACH HARDWARE PACKAGE SHALL BE LABELED WITH THE PART NUMBER, DESCRIPTION, A COMPONENT DIAGRAM SHOWING THE APPROPRIATE COMPONENT, PACKAGE WEIGHT, A BAR CODE LINKING THE HARDWARE PACKAGE TO THE JOB NUMBER, ASSEMBLER'S NAME, DATE AND TIME THE PACKAGE WAS ASSEMBLED, WORK CENTER NUMBER AND WORK ORDER

INSTALLATION DOCUMENTATION: ALL SHIPMENTS SHALL

OR WITHIN EACH CONTAINER.

INCLUDE A NOTEBOOK OR PACKET OF ORDER-SPECIFIC, STEP-BY-STEP INSTRUCTIONS FOR ASSEMBLY OF EACH COMPONENT, INCLUDING EQUIPMENT ASSEMBLY DIAGRAMS, ESTIMATED HOURS FOR ASSEMBLY, FOOTING DIMENSIONS, CONCRETE QUANTITY FOR DIRECT BURY COMPONENTS, FALL HEIGHT INFORMATION, AREA REQUIRED INFORMATION AND DETAILED MATERIAL SPECIFICATIONS. PACKING LIST: ALL SHIPMENTS SHALL INCLUDE A PACKING LIST FOR EACH SKID/CONTAINER, SPECIFYING THE PART NUMBERS AND QUANTITIES ON EACH SKID

PACKAGING: PLAYBOOSTER® POSTS SHALL BE INDIVIDUALLY PACKAGED IN STURDY, WATER-RESISTANT, MAR-RESISTANT CARDBOARD BOXES. OTHER COMPONENTS SHALL BE INDIVIDUALLY WRAPPED OR BULK WRAPPED TO PROVIDE PROTECTION DURING SHIPMENT. SMALL PARTS AND HARDWARE PACKAGES WILL BE PLACED IN CRATES FOR SHIPMENT. THE COMPONENTS AND CRATES ARE THEN SHRINK-WRAPPED TO SKIDS (PALLETS) TO ENSURE SECURE SHIPPING.

MAINTENANCE KIT: AN ORDER-SPECIFIC MAINTENANCE KIT SHALL BE PROVIDED FOR EACH STRUCTURE ORDER. THE KIT WILL INCLUDE A NOTEBOOK OR PACKET WITH A SECOND SET OF INSTALLATION DOCUMENTS AND ORDER-SPECIFIC MAINTENANCE DOCUMENTATION WITH RECOMMENDATIONS ON HOW OFTEN TO INSPECT, WHAT TO LOOK FOR AND WHAT TO DO TO KEEP THE EQUIPMENT IN LIKE-NEW CONDITION. THE KIT ALSO INCLUDES TOUCH-UP PRIMER, APPROPRIATE COLOR TOUCH-UP PAINT, SANDPAPER, APPROPRIATE COLOR TOUCH-UP PVC, GRAFFITI REMOVER AND ADDITIONAL INSTALLATION TOOLS FOR THE TAMPERPROOF FASTENERS.

## **EVOS® GENERAL SPECIFICATIONS**

5" ARCHES: ALL STEEL ARCHES TO BE PROSHIELD FINISHED AND MANUFACTURED FROM 5" O.D. GALVANIZED TUBING WITH A WALL THICKNESS OF .120". STEEL ARCH MECHANICAL PROPERTIES:

YIELD STRENGTH (MIN): 50,000 PSI

TENSILE STRENGTH (MIN): 55,000 PSI ELONGATION: 25% IN 2 INCHES

MODULUS OF ELASTICITY: 29.5 X 106 PSI 5" CLAMPS: ALL CLAMPS TO BE PROSHIELD FINISHED AND, UNLESS OTHERWISE NOTED, SHALL BE SAND CAST USING A 356-T6 ALUMINUM ALLOY AND HAVING THE

ULTIMATE TENSILE: 35,000 PSI YIELD STRENGTH: 18,000 PSI

FOLLOWING MECHANICAL PROPERTIES:

ELONGATION: 8% IN 2 INCHES

STEEL-REINFORCED CABLES: MADE OF TIGHTLY WOVEN, POLYESTER-WRAPPED, POLYPROPYLENE CORE CABLE. THESE ABRASION-RESISTANT, COLOR-STABLE CABLES ARE EXTREMELY DURABLE AND VANDAL RESISTANT. BLACK ONLY. PROVIDED BY BERLINER SEILFABRIK, ONE OF THE MOST EXPERIENCED MANUFACTURERS OF STEEL CABLES IN THE WORLD, WITH A GLOBAL REPUTATION FOR TOP QUALITY SINCE **WEEVOS® GENERAL SPECIFICATIONS** 

3-1/2" ARCHES: ALL STEEL ARCHES TO BE PROSHIELD FINISHED AND MANUFACTURED FROM 3-1/2" O.D. GALVANIZED TUBING WITH A WALL THICKNESS OF .120".

STEEL ARCH MECHANICAL PROPERTIES: YIELD STRENGTH (MIN): 50,000 PSI

TENSILE STRENGTH (MIN): 55,000 PSI ELONGATION: 25% IN 2 INCHES

MODULUS OF ELASTICITY: 29.5 X 106 PSI 3-1/2" CLAMPS: ALL CLAMPS TO BE PROSHIELD FINISHED AND, UNLESS OTHERWISE NOTED, SHALL BE SAND CAST USING A 356-T6 ALUMINUM ALLOY AND HAVING THE FOLLOWING MECHANICAL PROPERTIES:

ULTIMATE TENSILE: 35,000 PSI

YIELD STRENGTH: 18,000 PSI

**ELONGATION: 8% IN 2 INCHES** STEEL-REINFORCED CABLES: MADE OF TIGHTLY WOVEN, POLYESTER-WRAPPED, POLYPROPYLENE CORE CABLE. THESE ABRASION-RESISTANT, COLOR-STABLE CABLES ARE EXTREMELY DURABLE AND VANDAL RESISTANT. BLACK ONLY. PROVIDED BY BERLINER SEILFABRIK, ONE OF THE MOST EXPERIENCED MANUFACTURERS OF STEEL CABLES IN THE WORLD, WITH A GLOBAL REPUTATION FOR TOP QUALITY SINCE

PLAYBOOSTER® GENERAL SPECIFICATIONS

POSTS: POST LENGTH SHALL VARY DEPENDING UPON THE INTENDED USE AND SHALL BE A MINIMUM OF 42" ABOVE THE DECK HEIGHT. ALL POSTS SHALL BE PROSHIELD FINISHED TO SPECIFIED COLOR. ALL POSTS SHALL HAVE A "FINISHED GRADE MARKER" POSITIONED ON THE POST IDENTIFYING THE 34" BURY LINE REQUIRED FOR CORRECT INSTALLATION AND THE TOP OF THE LOOSE FILL PROTECTIVE SURFACING. TOP CAPS FOR POSTS SHALL BE ALUMINUM DIE CAST FROM 369.1 ALLOY AND PROSHIELD FINISHED TO MATCH THE POST COLOR. ALL CAPS SHALL BE FACTORY INSTALLED AND SECURED IN PLACE WITH (3) SELF-SEALING RIVETS, A MOLDED LOW-DENSITY POLYETHYLENE CAP. WITH DRAIN HOLES. SHALL BE PRESSED ONTO THE BOTTOM END OF THE POST TO INCREASE THE FOOTING AREA. STEEL POSTS: ALL STEEL PLAYBOOSTER POSTS ARE MANUFACTURED FROM 5" O.D. TUBING WITH A WALL THICKNESS OF .120" AND SHALL BE GALVANIZED AFTER ROLLING AND SHALL HAVE BOTH THE I.D. AND THE CUT ENDS SPRAYED WITH A CORROSION RESISTANT COATING.

STEEL POST MECHANICAL PROPERTIES: YIELD STRENGTH (MIN): 50,000 PSI

TENSILE STRENGTH (MIN): 55,000 PSI

ELONGATION: 25% IN 2 INCHES MODULUS OF ELASTICITY: 29.5 X 106 PSI

ALUMINUM POSTS: ALL ALUMINUM PLAYBOOSTER POSTS TO BE MANUFACTURED FROM 6005-T5 EXTRUDED TUBING CONFORMING TO ASTM B-221. POSTS SHALL HAVE A 5" OUTSIDE DIAMETER WITH A .125" WALL THICKNESS. ALUMINUM POST MECHANICAL PROPERTIES:

YIELD STRENGTH (MIN): 35,000 PSI TENSILE STRENGTH (MIN): 38,000 PSI

ELONGATION: 10% IN 2 INCHES

MODULUS OF ELASTICITY: 10 X 106 PSI ARCH POSTS: ALUMINUM ARCH POSTS SHALL BE MANUFACTURED FROM 6005-T5 ALLOY. THE ARCH SHALL BE FORMED TO A 21" CENTER LINE RADIUS TO COMPLEMENT THE 42" CENTER-TO-CENTER MODULE. THE ARCH SHALL BE OF ONE CONTINUOUS PIECE CONSTRUCTION. THERE SHALL BE NO WELDS OR ADDITIONAL PIECES MECHANICALLY FASTENED TO MANUFACTURE THE ARCH. EACH ARCH SHALL BE DESIGNED TO PROVIDE A MINIMUM OF 90 1/2" CLEAR SPAN FROM THE DECK TO THE INSIDE OF THE ARCH AT THE RADIUS PEAK. ARCHES SHALL BE PROSHIELD FINISHED TO A SPECIFIED COLOR.

CLAMPS: ALL CLAMPS TO BE PROSHIELD FINISHED AND, UNLESS OTHERWISE NOTED, SHALL BE DIE CAST USING A 369.1 ALUMINUM ALLOY AND HAVE THE FOLLOWING MECHANICAL PROPERTIES:

ULTIMATE TENSILE: 47,000 PSI YIELD STRENGTH: 28,000 PSI

ELONGATION: 7% IN 2 INCHES SHEAR STRENGTH: 29,000 PSI

ENDURANCE LIMIT: 20,000 PSI

EACH FUNCTIONAL CLAMP ASSEMBLY SHALL HAVE AN APPROPRIATE NUMBER OF HALF CLAMPS AND SHALL BE FASTENED TO MATING PARTS WITH (2) 3/8" X 1 1/8" PINNED BUTTON HEAD CAP SCREWS (SST) AND (2) STAINLESS-STEEL (SST) RECESSED "T" NUTS. A 1/4" ALUMINUM DRIVE RIVET WITH STAINLESS STEEL PIN IS USED TO ENSURE A SECURE FIT TO THE POST.

PLAYBOOSTER® CLAMPS HAVE THREE FUNCTIONAL APPLICATIONS AND SHALL BE NAMED AS FOLLOWS:

1. OFFSET HANGER CLAMP ASSEMBLY

2.DECK HANGER CLAMP ASSEMBLY 3. HANGER CLAMP ASSEMBLY

STEEL-REINFORCED CABLES: MADE OF TIGHTLY WOVEN, POLYESTER-WRAPPED, POLYPROPYLENE CORE CABLE. THESE ABRASION-RESISTANT, COLOR-STABLE CABLES ARE EXTREMELY DURABLE AND VANDAL RESISTANT. AVAILABLE IN BLACK OR RED. ADVENTURESCAPES® BLACK CABLE ONLY, SPACELINK CLIMBER™ RED CABLE ONLY. PROVIDED BY BERLINER SEILFABRIK, ONE OF THE MOST EXPERIENCED MANUFACTURERS OF STEEL CABLES IN THE WORLD, WITH A GLOBAL REPUTATION FOR TOP QUALITY SINCE 1865.

PLAYODYSSEY® STRUCTURAL FRAME: POST LENGTH OF THE DOUBLE LADDER/CENTRAL COLUMN SHALL VARY DEPENDING UPON THE DECK HEIGHT AND SHALL BE FLUSH WITH THE BOTTOM OF A DECK INFILL OR A MINIMUM OF 46" ABOVE THE DECK HEIGHT. ALL POSTS SHALL BE PROSHIELD FINISHED TO SPECIFIED COLOR. ALL POSTS SHALL HAVE A "FINISHED GRADE MARKER" POSITIONED ON THE POST IDENTIFYING THE 60" BURY LINE REQUIRED FOR CORRECT INSTALLATION AND THE TOP OF THE LOOSE FILL PROTECTIVE SURFACING. POST CAPS SHALL BE ALUMINUM DIE CAST FROM 369.1 ALLOY AND PROSHIELD FINISHED TO MATCH THE POST COLOR. ALL CAPS SHALL BE FACTORY INSTALLED AND SECURED IN PLACE WITH (3) SELF SEALING RIVETS. A MOLDED LOW-DENSITY POLYETHYLENE CAP, WITH DRAIN HOLES, SHALL BE PRESSED ONTO THE BOTTOM END OF THE LADDER POSTS TO INCREASE THE FOOTING AREA. LADDERS ARE BOLTED TOGETHER BELOW GRADE TO ACT AS A SINGLE COLUMN FOR INSTALLATION PURPOSES. THE DECK SUPPORT WELDMENTS/ARMS ARE COMPRISED OF 5/16" (.312") STEEL CONFORMING TO 1010 STEEL PER ASTM A635 AND WELDED TO A 52" STEEL POST. ARMS ARE SECURED TO EACH LADDER POST WITH (4) 5/8" X 1 1/2" PINNED BUTTON HEAD CAP SCREWS

THROUGH (2) 1/4" FLANGES. PLAYODYSSEY OPTIONAL ALUMINUM ROOF POSTS: ALL FORMED ALUMINUM PLAYODYSSEY ROOF POSTS TO BE MANUFACTURED FROM 6005-T5 EXTRUDED TUBING CONFORMING TO ASTM B-221. POSTS SHALL HAVE A 5" OUTSIDE DIAMETER WITH A .125" WALL THICKNESS. POST SLEEVE SHALL HAVE 4.675" OUTSIDE DIAMETER WITH A .150" WALL THICKNESS. POST CAP SHALL BE ALUMINUM DIE CAST FROM 369.1 ALLOY AND PROSHIELD FINISHED TO MATCH THE POST COLOR. ALL CAPS SHALL BE FACTORY INSTALLED AND SECURED IN PLACE WITH (3) SELF-SEALING RIVETS. VIBE™ HANDHOLDS: ROTOMOLDED SHELL, ELEVEN STANDARD COLORS AVAILABLE, WITH 7 GA (.179") HRPO STEEL SHEET INSERT THAT IS ZINC PLATED THEN PROSHIELD FINISHED. TWENTY-SIX STANDARD COLORS AVAILABLE. VIBE ROOF: ROTOMOLDED SHELL, ELEVEN STANDARD COLORS AVAILABLE, WITH 12 GA (.105") HRPO STEEL SHEET INSERT THAT IS ZINC PLATED THEN PROSHIELD FINISHED. TWENTY-SIX STANDARD COLORS AVAILABLE. VIBE ENCLOSURES: ROTOMOLDED SHELL, ELEVEN STANDARD COLORS AVAILABLE, WITH 7 GA (.179") HRPO STEEL SHEET INSERT THAT IS ZINC PLATED THEN PROSHIELD

FINISHED. TWENTY-SIX STANDARD COLORS AVAILABLE. OPTION OF 10 ACTIVITY PANELS AVAILABLE IN NINETEEN STANDARD PERMALENE® COLORS. ALSO AVAILABLE BUBBLE OR WINDOW PANEL MADE OF 1/4" CLEAR POLYCARBONATE.

PLAYSHAPER" GENERAL SPECIFICATIONS

POSTS: 2 3/8" SQUARE ALUMINUM POSTS SHALL HAVE A MINIMUM WALL THICKNESS OF .125" AND BE EXTRUDED OF 6005-T5 ALUMINUM ALLOY AND HAVE ROUNDED CORNERS AND RIBBED FACES FOR MAXIMUM SAFETY. A CAST ALUMINUM TOP CAP SHALL BE INSTALLED AT THE FACTORY WITH STAINLESS STEEL KNURLED SPACERS AND ALUMINUM DRIVE RIVETS. FLANGES FOR PANELS AND DECK SUPPORTS SHALL BE EXTRUDED OF 6061-T6 ALUMINUM ALLOY AND SLIDE INTO SLOTS EXTRUDED IN POSTS. FLANGES AND DECK SUPPORTS SHALL BE ATTACHED IN THE FACTORY WITH STAINLESS STEEL KNURLED SPACERS AND ALUMINUM DRIVE RIVETS. ALL DIRECT BURY POSTS SHALL HAVE A "FINISHED GRADE MARKER" POSITIONED ON THE POST IDENTIFYING THE 34" BURY LINE AND THE TOP OF THE REQUIRED SURFACING. A MOLDED LOW-DENSITY POLYETHYLENE CAP, WITH DRAIN HOLES, SHALL BE PRESSED ONTO THE BOTTOM END OF THE POST TO INCREASE THE FOOTING AREA. POSTS SHALL HAVE A POST NUMBER STICKER FOR INSTALLATION PURPOSES. ALL SURFACE MOUNT POSTS SHALL BE CONTINUOUSLY WELDED TO A 1/4" X 6" SQUARE 6061-T6 ALUMINUM SURFACE MOUNT PLATE AND ALLOW FOR 2" OF PROTECTIVE SURFACING. POSTS SHALL BE PROSHIELD FINISHED TO A SPECIFIED COLOR.

ALUMINUM POST MECHANICAL PROPERTIES: YIELD STRENGTH (MIN): 35,000 PSI

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

TENSILE STRENGTH (MIN): 38,000 PSI ELONGATION: 10% IN 2 INCHES

MODULUS OF ELASTICITY: 10 X 106 PSI

ARCH POSTS: ARCH POSTS SHALL HAVE THE SAME SHAPE AS THE POSTS AND BE EXTRUDED FROM 6063-T4 ALUMINUM ALLOY. ROOF SUPPORT FLANGES SHALL BE OF THE SAME SHAPE AND MATERIAL AS THE PANEL FLANGES. ARCH SHALL BE FORMED IN A 180 DEGREE ARC ON A 21" CENTER LINE RADIUS. ARCHES SHALL BE SECURED TO STANDARD LENGTH POSTS WITH SOLID ALUMINUM SLEEVES THAT ARE TAPPED TO RECEIVE (16) 3/8" X 5/8" PINNED BUTTON HEAD CAP SCREWS PER ARCH. ARCH POSTS SHALL BE PROSHIELD FINISHED TO A SPECIFIED COLOR.

# Synthetic Grass Safety Surface System **Specification**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specifications apply to this section

1.2 DESCRIPTION OF WORK

A. Provide all labor, materials, equipment, and tools necessary for the complete installation of synthetic grass safety surface. Surface shall meet the requirements of ASTM F 1292 that states that the surface must yield both a peak deceleration of no more than 200 g's and a Head Injury Criteria (HIC) value of no more than 1,000 for a headfirst fall from the accessible height of the play equipment. Contractor to make submittal of the product to architect verifying the above indicated in 1.2.1. The system shall consist of, but not necessarily be limited to, the following:

Synthetic grass consisting of fibers that are a minimum of 1.75 inch long. Turf fiber construction consisting of polyethylene monofilament and either texturized monofilament fibers tufted to a 2-layer stabilized woven polypropylene fabric (primary backing), with a secondary backing (stitch binder) of DuraFlo. (XGrass Play™ synthetic turf or equivalent).

2 Pad underlayment system consisting of porous closed cell composite materials. Thickness and density of panels shall be sufficient so that system meets the requirements of ASTM F 1292. SofPad™ or equivalent.

3 Synthetic Grass Infill, consisting of anti-microbial acrylic coated round silica particles, designed to provide the look, feel, and performance of optimally maintained natural grass. EnviroFill™ or equivalent.

Work included in this Section includes grading necessary to shape and drain the area and base preparation and installation of the synthetic grass in areas shown on Drawings.

PART 2 - PRODUCTS

## 2.1 SYNTHETIC GRASS SAFETY SURFACE

Aggregate Base - Crushed angular hard stone, 3/4"minus compactible

stone (not clean). (Refer to Section 3.2-B) Synthetic grass: 1.75 inch XGrass™ Play from XGrass, 210 Howell Drive: Dalton, GA 30721: Phone (877) 881-8477 or approved equal

Face Weight 50 oz/sv a. Face Yarn Type: Polyethylene

c. Yarn Size 10800/7300

Pile Height: 1.75 inches

Color: Blend

Construction: Broadloom tufted

Stitch Rate: 8 per 3 inches Tufting Gauge: 1/4"

Primary Backing: Stabilized dual layered woven polypropylene

Secondary Backing 10 oz. DuraFlo

Total Product Weight 68.7 oz/sy Finished Roll Width 180" untrimmed

Warranty: 10-year fade

Pad Underlayment System: SofPad™ Standard recycled, non contaminated, Post industrial cross-link, closed cell Polyethylene polyolefin foam pad from XGrass. Pad Underlayment System:

a. Foam Type: Polyethylene - Polyolefin Bulk Density: 5.0-8.0 lb/cu ft

Effective Size 24 sq ft (net coverage)

Tensile Strength 34-36 psi

Synthetic Grass Infill : EnviroFill™ from XGrass, 210 Howell Drive : Dalton, GA 30721: Phone (877) 881-8477 or approved equal Coating: Priority acrylic, iron oxide and chromium oxide

Grain shape: Hardness: 6-8 Mohs

Curvature: 0.7+

Specific Gravity: 1.76 g/cm3

Bulk Density: 110 lb/cu ft Uniform coefficient 1.10 to 1.40

Effective Size .84 -1.68 mm

Splicing Material: 1000 denier coated nylon (Cordura®) 12" wide

Adhesive: Synthetic Turf Adhesive (from XGrass) PART 3 - EXECUTION

# 3.1 GROUND PREPARATION

General: The ground area to receive synthetic grass safety surface is indicated on the Drawings.

Leveling and Site Preparation: All organic material and organic debris to be removed. Soil to be graded level and stabilized (compacted). Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers.

# 3.2 BASE AND SYNTHETIC GRASS CONSTRUCTION

A. General: The area to be smooth and graded to allow proper drainage. Refer to grading plan. The overall grade of the playground is not to exceed

Compacted Aggregate Base: Place 4 inches of aggregate base as leveling layer compacted to 90% of max density per AASHTO T99. Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers. Aggregate size should be 3/4" minus (compactable).

Synthetic Grass: Place turf and cut to fit configuration as shown on Drawings. Splice seams. All seams must be attached with splicing film/fabric and adhesive as approved by the manufacturer for this type of installation of their product.

Infill: Apply layers of synthetic grass infill evenly with a spreader and broom the turf fibers with stiff bristle broom to stand fibers up and allow infill to settle into the bottom. Broom in infill round quartz silica sand approximately 3.5 pounds per square foot.

Anchoring/Edging: Edges of turf will be secured to ground with edging

# PART 4 - WARRANTY

2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18

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A. Provide 12 month warranty for all materials, installation and performance.

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DAYCARE CENTERS

SITE DETAILS Sheet Number

16 APRIL 12 CONSTRUCTION DOCUMENTS

SECTION 02751 - CEMENT CONCRETE PAVEMENT	PART 2 - PRODUCTS	2.4 ADMIXTURES	Clear Waterborne Membrane-Forming Curing Compound:	BAUER   ASK architecture.p
PART 1 - GENERAL		A. General: Admixtures certified by manufacturer to contain not more than 0.1	a. AH Curing Compound #2 DR WB; Anti-Hydro International, Inc.	A
.1 RELATED DOCUMENTS  A. Drawings and general provisions of the Contract, including General and	2.1 FORMS  A Form Materials, Dhayand metal metal fremed playand or other approved.	percent water-soluble chloride ions by mass of cement and to be compatible with other admixtures.	b. Aqua Resin Cure; Burke Group, LLC (The). c. Safe-Cure Clear; ChemMasters.	T 7 2 6 0 0 4 7
Supplementary Conditions and Division 1 Specification Sections, apply to this Section.	A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, smooth exposed surfaces.	B. Air-Entraining Admixture: ASTM C 260.	d. W.B. Resin Cure; Conspec Marketing & Manufacturing Co., Inc. e. Day Chem Rez Cure (J-11-W); Dayton Superior Corporation. f. Nitocure S; Fosroc.	- F726 4891 6 15
.2 SUMMARY	Use flexible or curved forms for curves of a radius 15 feet or less.	C. Water-Reducing Admixture: ASTM C 494, Type A.	g. Aqua Kure-Clear; Lambert Corporation. h. L&M Cure R; L&M Construction Chemicals, Inc.	1 6 1 5
A. This Section includes exterior cement concrete pavement for the following:	B. Form-Release Agent: Commercially formulated form-release agent that will not	D. High-Range, Water-Reducing Admixture: ASTM C 494, Type F.	i. 1100 Clear; W. R. Meadows, Inc. j. Resin Cure E; Nox-Crete Products Group, Kinsman Corporation.	sixte ent avenue sout
1. Bicycle Track	bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.	E. Water-Reducing and Accelerating Admixture: ASTM C 494, Type E.	k. Rich Cure E; Richmond Screw Anchor Co. I. Resi-Chem Clear Cure; Symons Corporation.	
.3 DEFINITIONS		F. Water-Reducing and Retarding Admixture: ASTM C 494, Type D.	m. Horncure 100; Tamms Industries Co., Div. of LaPorte Construction Chemicals North America, Inc.	mash ville tennessee
A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, expansive hydraulic cement, fly ash and	2.2 STEEL REINFORCEMENT  A. Plain-Steel Welded Wire Fabric: ASTM A 185. fabricated from as-drawn steel	2.5 FIBER REINFORCEMENT	n. Hydro Cure; Unitex. o. Certi-Vex Enviocure; Vexcon Chemicals, Inc.	37212
other pozzolans, ground granulated blast-furnace slag, and silica fume.	wire into flat sheets.	A. Synthetic Fiber: Fibrillated polypropylene fibers engineered and designed for use in concrete pavement, complying with ASTM C 1116, Type III, 1/2 to 1-1/2	4. White Waterborne Membrane-Forming Curing Compound:	
.4 SUBMITTALS	B. Deformed-Steel Welded Wire Fabric: ASTM A 497, flat sheet.	inches long.	a. AH Curing Compound #2 WB WP; Anti-Hydro International, Inc. b. Agua Resin Cure; Burke Group, LLC (The).	<u> </u>
A. Product Data: For each type of manufactured material and product indicated.	C. Epoxy-Coated Welded Wire Fabric: ASTM A 884/A 884M, Class A, plain steel.	B. Synthetic Fiber: Fibrillated or monofilament polypropylene fibers engineered and designed for use in concrete pavement, complying with ASTM C 1116,	c. W.B. Resin Cure; Conspec Marketing & Manufacturing Co., Inc. d. Thinfilm 450; Kaufman Products, Inc.	Hodgson & Douglas
B. Design Mixes: For each concrete pavement mix. Include alternate mix designs when characteristics of materials, project conditions, weather, test results, or	D. Reinforcement Bars: ASTM A 615/A 615M, Grade 60, deformed.	Type III, 1/2 to 1-1/2 inches long.	e. Aqua Kure-White; Lambert Corporation. f. L&M Cure R-2; L&M Construction Chemicals, Inc.	landscape architecture . planning . ur D 120 29th Avenue South Post Office I NashvIIIe, Tennessee 372 telephone: 615-327-4447 fax: 615
other circumstances warrant adjustments.  C. Material Test Reports: From a qualified testing agency indicating and	E. Epoxy-Coated Reinforcement Bars: ASTM A 775/A 775M; with ASTM A 615/A 615M, Grade 60 (Grade 420), deformed bars.	C. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:	g. 1200-White; W. R. Meadows, Inc. h. White Pigmented Resin Cure E; Nox-Crete Products Group, Kinsman	telephone: 615-327-4447 fax: 615
interpreting test results for compliance of the following with requirements indicated, based on comprehensive testing of current materials:	F. Steel Bar Mats: ASTM A 184/A 184M; with ASTM A 615/A 615M, Grade 60, deformed bars; assembled with clips.	D. Products: Subject to compliance with requirements, provide one of the following:	Corporation.  i. Rich Cure White E; Richmond Screw Anchor Co.	_
indicated, based on comprehensive teeting of carrent materials.	G. Plain Steel Wire: ASTM A 82, as drawn.	1. Fibrillated Fibers:	j. Resi-Chem High Cure; Symons Corporation. k. Horncure 200-W; Tamms Industries Co., Div. of LaPorte Construction Chemicals North America, Inc.	
D. Material Certificates: Signed by manufacturers certifying that each of the following materials complies with requirements:	H. Epoxy-Coated Wire: ASTM A 884/A 884M, Class A coated, plain steel.	a. Fibrasol F; Axim Concrete Technologies.	I. Hydro White 309; Unitex.	E GBURN DO
	I. Joint Dowel Bars: Plain steel bars, ASTM A 615/A 615M, Grade 60. Cut bars	<ul><li>b. Fibermesh; Fibermesh, Div. of Synthetic Technologies.</li><li>c. Forta; Forta Corporation.</li></ul>	2.7 RELATED MATERIALS	- Will the
<ol> <li>Cementitious materials and aggregates.</li> <li>Steel reinforcement and reinforcement accessories.</li> </ol>	true to length with ends square and free of burrs.	d. Grace Fibers; W. R. Grace & Co., Construction Products Div.	A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated	
<ol> <li>Fiber reinforcement.</li> <li>Admixtures.</li> <li>Curing compounds.</li> </ol>	J. Epoxy-Coated Joint Dowel Bars: ASTM A 775/A 775M; with ASTM A 615/A 615M, Grade 60 (Grade 420), plain steel bars.	2. Monofilament Fibers:	cellulosic fiber.	4.16.12 °
<ul><li>6. Applied finish materials.</li><li>7. Bonding agent or adhesive.</li></ul>	K. Tie Bars: ASTM A 615/A 615M, Grade 60, deformed	<ul> <li>a. Fibrasol IIP; Axim Concrete Technologies.</li> <li>b. Fiberstrand 100; Euclid Chemical Co.</li> <li>c. Fibermix Stealth; Fibermesh, Div. of Synthetic Industries.</li> </ul>	B. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1752, cork or self-expanding cork.	F ARCHILITIES
8. Joint fillers.	L. Hook Bolts: ASTM A 307, Grade A, internally and externally threaded. Design hook-bolt joint assembly to hold coupling against pavement form and in position	d. Forta Mono; Forta Corporation. e. Grace MicroFiber; W. R. Grace & Co., Construction Products Div.	C. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber, or ASTM D 1752, cork or self-expanding cork.	
E. Minutes of preinstallation conference.	during concreting operations, and to permit removal without damage to concrete or hook bolt.	f. Polystrand 1000; Metalcrete Industries.	D. Bonding Agent: ASTM C 1059, Type II, non-redispersible, acrylic emulsion or	
5 QUALITY ASSURANCE	M. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing,	2.6 CURING MATERIALS	styrene butadiene.	7.0000
A. Installer Qualifications: An experienced installer who has completed pavement work similar in material, design, and extent to that indicated for this Project and	supporting, and fastening reinforcement bars, welded wire fabric, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard	E. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or	E. Rock Salt: Sodium chloride crystals, kiln dried, coarse gradation with 100 percent passing 3/8-inch sieve and 85 percent retained on a No. 8 sieve.	° 1009.
whose work has resulted in construction with a record of successful in-service performance.	Practice" from steel wire, plastic, or precast concrete or fiber-reinforced concrete of greater compressive strength than concrete, and as follows:	kenaf, weighing approximately 9 oz./sq. yd. dry.	F. Epoxy Bonding Adhesive: ASTM C 881, two-component epoxy resin, capable	10007.
3. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.	Equip wire bar supports with sand plates or horizontal runners where base material will not support chair legs.	F. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.	of humid curing and bonding to damp surfaces, of class and grade to suit requirements, and as follows:	
Manufacturer must be certified according to the National Ready Mix	For epoxy-coated reinforcement, use epoxy-coated or other dielectric-polymer coated wire bar supports.	G. Water: Potable.	Type II, non-load bearing, for bonding freshly mixed concrete to hardened concrete.	TENNESSEE STATE UN
Concrete Association's Plant Certification Program.	N. Epoxy Repair Coating: Liquid two-part epoxy repair coating, compatible with	H. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.	Types I and II, non-load bearing, for bonding hardened or freshly mixed concrete to hardened concrete.	
<ul> <li>Testing Agency Qualifications: An independent testing agency, acceptable to authorities having jurisdiction, qualified according to ASTM C 1077 and ASTM E</li> </ul>	epoxy coating on reinforcement.	I. Clear Solvent-Borne Liquid-Membrane-Forming Curing Compound: ASTM C	Types IV and V, load bearing, for bonding hardened or freshly mixed concrete to hardened concrete.	
329 to conduct the testing indicated, as documented according to ASTM E 548.	2.3 CONCRETE MATERIALS	309, Type 1, Class B.	G. Chemical Surface Retarder: Water-soluble, liquid set retarder with color dye, for	
D. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant and each aggregate from one source.	A. General: Use the same brand and type of cementitious material from the same	J. Clear Waterborne Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.	horizontal concrete surface application, capable of temporarily delaying final hardening of concrete to a depth of 1/8 to 1/4 inch	1
E. ACI Publications: Comply with ACI 301, "Specification for Structural Concrete,"	manufacturer throughout the Project.  B. Portland Cement: ASTM C 150, Type I or II.	K. White Waterborne Membrane-Forming Curing Compound: ASTM C 309, Type 2, Class B.	H. Available Products: Subject to compliance with requirements, products that	
unless modified by the requirements of the Contract Documents.	1. Fly Ash: ASTM C 618, Class F or C.	L. Available Products: Subject to compliance with requirements, products that	may be incorporated into the Work include, but are not limited to, the following:  I. Products: Subject to compliance with requirements, provide one of the	
F. Concrete Testing Service: Engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixes.	2. Ground Granulated Blast-Furnace Slag: ASTM C 989, Grade 100 or 120.	may be incorporated into the Work include, but are not limited to, the following:	following:	
G. Mockups: Cast mockups of full-size sections of concrete pavement to	C. Blended Hydraulic Cement: ASTM C 595M, Type IS, portland blast-furnace slag cement.	M. Products: Subject to compliance with requirements, provide one of the following:	1. Chemical Surface Retarder:	ı,
demonstrate typical joints, surface finish, texture, color, and standard of workmanship.	D. Blended Hydraulic Cement: ASTM C 595M, Type IP portland pozzolan cement.	1. Evaporation Retarder:	a. True Etch Surface Retarder; Burke Group, LLC (The). b. Exposee; ChemMasters.	
<ol> <li>Build mockups in the location and of the size indicated or, if not indicated, as directed by Architect.</li> </ol>	E. Blended Hydraulic Cement: ASTM C 595M, Type I (PM) pozzolan-modified	a. Cimfilm; Axim Concrete Technologies.	c. Delay S; Conspec Marketing & Manufacturing Co., Inc. d. Concrete Surface Retarders; Euclid Chemical Co.	
as directed by Architect.  2. Notify Architect seven days in advance of dates and times when mockups will be constructed.	portland cement.  F. Blended Hydraulic Cement: ASTM C 595M, Type I (SM) slag-modified portland	<ul> <li>b. Finishing Aid Concentrate; Burke Group, LLC (The).</li> <li>c. Spray-Film; ChemMasters.</li> <li>d. Aquafilm; Conspec Marketing &amp; Manufacturing Co., Inc.</li> </ul>	e. Expose; Kaufman Products, Inc.  f. Surftard; Metalcrete Industries.  g. Crete New TA: New Crete Products Group, Kingman Corporation	
<ol> <li>Obtain Architect's approval of mockups before starting construction.</li> <li>Maintain approved mockups during construction in an undisturbed condition</li> </ol>	cement.	e. Sure Film; Dayton Superior Corporation. f. Eucobar; Euclid Chemical Co.	g. Crete-Nox TA; Nox-Crete Products Group, Kinsman Corporation. h. Lithotex; L. M. Scofield Co. i. Rugasol-S; Sika Corporation.	К
as a standard for judging the completed pavement.  5. Demolish and remove approved mockups from the site when directed by	G. Aggregate: ASTM C 33, uniformly graded, from a single source, with coarse aggregate as follows:	g. Vapor Aid; Kaufman Products, Inc. h. Lambco Skin; Lambert Corporation.	j. Certi-Vex Envioset; Vexcon Chemicals, Inc.	
Architect.  6. Approved mockups may become part of the completed Work if undisturbed	1. Class: 4S.	i. E-Con; L&M Construction Chemicals, Inc. j. Confilm; Master Builders, Inc.	2.8 CONCRETE MIXES	
at time of Substantial Completion.  Preinstallation Conference: Conduct conference at Project site to comply with	2. Class: 4M. 3. Class: 1N.	k. Waterhold; Metalcrete Industries.  I. Rich Film; Richmond Screw Anchor Co.	A. Prepare design mixes, proportioned according to ACI 211.1 and ACI 301, for	
Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings."	Maximum Aggregate Size: 1-1/2 inches nominal.	m. SikaFilm; Sika Corporation. n. Finishing Aid; Symons Corporation.	each type and strength of normal-weight concrete determined by either laboratory trial mixes or field experience.	
Before submitting design mixes, review concrete pavement mix design and examine procedures for ensuring quality of concrete materials. Require	<ol> <li>Maximum Aggregate Size: 1 inch nominal.</li> <li>Maximum Aggregate Size: 3/4 inch nominal.</li> <li>Do not use fine or coarse aggregates containing substances that cause</li> </ol>	o. Certi-Vex EnvioAssist; Vexcon Chemicals, Inc.  2. Clear Solvent-Borne Liquid-Membrane-Forming Curing Compound:	B. Use a qualified independent testing agency for preparing and reporting	
representatives of each entity directly concerned with concrete pavement to attend, including the following:	spalling.	a. AH Curing Compound #2 DR; Anti-Hydro International, Inc.	proposed mix designs for the trial batch method.  1. Do not use Owner's field quality-control testing agency as the independent	
a. Contractor's superintendent.	H. Exposed Aggregate: Selected, hard, and durable; washed; free of material that reacts with cementitious material or causes staining; from a single source, with	b. Res-X Cure All Resin; Burke Group, LLC (The). c. RX Cure; Conspec Marketing & Manufacturing Co., Inc.	testing agency.	
<ul><li>b. Independent testing agency responsible for concrete design mixes.</li><li>c. Ready-mix concrete producer.</li></ul>	gap graded coarse aggregate as follows:	<ul><li>d. Day-Chem Rez Cure; Dayton Superior Corporation.</li><li>e. Kurez DR; Euclid Chemical Co.</li></ul>	C. Proportion mixes to provide concrete with the following properties:	
d. Concrete subcontractor.	<ol> <li>Aggregate Sizes: 3/4 to 1 inch nominal.</li> <li>Aggregate Sizes: 1/2 to 3/4 inch nominal.</li> </ol>	f. Nitocure S; Fosroc. g. #64 Resin Cure; Lambert Corporation.	<ol> <li>Compressive Strength (28 Days): 4000 psi.</li> <li>Compressive Strength (28 Days): 3500 psi.</li> </ol>	
PROJECT CONDITIONS  A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required	3. Aggregate Sizes: 3/8 to 5/8 inch nominal.  I. Water: ASTM C 94.	h. L&M Cure DR; L&M Construction Chemicals, Inc. i. 3100-Clear; W. R. Meadows, Inc.	3. Compressive Strength (28 Days): 3000 psi.  4. Maximum Water-Cementitious Materials Ratio: 0.45.  5. Maximum Water Compartitious Metarials Ratio: 0.50.	
for other construction activities.	I. Waler. ASTIVI U 94.	j. Seal N Kure FDR; Metalcrete Industries. k. Rich Cure; Richmond Screw Anchor Co. I. Resi-Chem C309; Symons Corporation.	5. Maximum Water-Cementitious Materials Ratio: 0.50. 6. Slump Limit: 4 inches.	N E
		I. Resi-Chem C309; Symons Corporation. m. Horncure 30; Tamms Industries Co., Div. of LaPorte Construction Chemicals North America, Inc.	7. Slump Limit: 4 inches.  a. Slump Limit for Concrete Containing High-Range Water-Reducing	<b>^</b>
		n. Uni Res 150; Unitex. o. Certi-Vex RC; Vexcon Chemicals, Inc.	Admixture: Not more than 8 inches after adding admixture to plant- or site-verified, 2- to 3-inch slump.	SITE DETAI
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- D. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement according to ACI 301 requirements for concrete exposed to deicing chemicals. E. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows: 1. Fly Ash: 25 percent. 2. Combined Fly Ash and Pozzolan: 25 percent. 3. Ground Granulated Blast-Furnace Slag: 50 percent. 4. Combined Fly Ash or Pozzolan, and Ground Granulated Blast-Furnace Slag: 50 percent portland cement minimum, with fly ash or pozzolan not exceeding 25 percent. F. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content of 2.5 to 4.5 percent. G. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content as follows within a tolerance of plus or minus 1.5 percent: 1. Air Content: 5.5 percent for 1-1/2-inch maximum aggregate. 2. Air Content: 6.0 percent for 1-inch maximum aggregate. 3. Air Content: 6.0 percent for 3/4-inch maximum aggregate. H. Synthetic Fiber: Uniformly disperse in concrete mix at manufacturer's recommended rate, but not less than 1.0 lb/cu. yd. I. Synthetic Fiber: Uniformly disperse in concrete mix at manufacturer's recommended rate, but not less than 1.5 lb/cu. yd. J. Coloring Agent: Add coloring agent to mix according to manufacturer's written instructions 2.9 CONCRETE MIXING A. Ready-Mixed Concrete: Comply with requirements and with ASTM C 94. B. Ready-Mixed Concrete: Comply with requirements and with ASTM C 94 and ASTM C 1116. 1. When air temperature is between 85 deg F and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes. C. Project-Site Mixing: Comply with requirements and measure, batch, and mix concrete materials and concrete according to ASTM C 94. Mix concrete materials in appropriate drum-type batch machine mixer. 1. For mixers of 1 cu. yd. or smaller capacity, continue mixing at least one and one-half minutes, but not more than five minutes after ingredients are in mixer, before any part of batch is released. 2. For mixers of capacity larger than 1 cu. yd., increase mixing time by 15 seconds for each additional 1 cu. yd. 3. Provide batch ticket for each batch discharged and used in the Work, indicating Project identification name and number, date, mix type, mix time, quantity, and amount of water added. PART 3 - EXECUTION 3.1 PREPARATION A. Proof-roll prepared subbase surface to check for unstable areas and verify need for additional compaction. Proceed with pavement only after nonconforming conditions have been corrected and subgrade is ready to receive pavement. B. Remove loose material from compacted subbase surface immediately before placing concrete. 3.2 EDGE FORMS AND SCREED CONSTRUCTION for pavement to required lines, grades, and elevations. Install forms to allow

  - A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
  - Clean forms after each use and coat with form release agent to ensure separation from concrete without damage.
- 3.3 STEEL REINFORCEMENT
- A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating reinforcement and with recommendations in CRSI's "Placing Reinforcing Bars" for placing and supporting reinforcement.
- 1. Apply epoxy repair coating to uncoated or damaged surfaces of epoxy-coated reinforcement.
- Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.
- C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement. Maintain minimum cover to reinforcement.
- D. Install welded wire fabric in lengths as long as practicable. Lap adjoining pieces at least one full mesh, and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.
- E. Install fabricated bar mats in lengths as long as practicable. Handle units to keep them flat and free of distortions. Straighten bends, kinks, and other irregularities, or replace units as required before placement. Set mats for a minimum 2-inch overlap to adjacent mats.
- 3.4 JOINTS
- A. General: Construct construction, isolation, and contraction joints and tool edgings true to line with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline, unless otherwise indicated
- 1. When joining existing pavement, place transverse joints to align with previously placed joints, unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of pavement and at locations where pavement operations are stopped for more than one-half hour, unless pavement terminates at isolation joints.
- 1. Provide preformed galvanized steel or plastic keyway-section forms or bulkhead forms with keys, unless otherwise indicated. Embed keys at least 1-1/2 inches into concrete.

- 1. Continue reinforcement across construction joints, unless otherwise indicated. Do not continue reinforcement through sides of pavement strips, unless otherwise indicated.
- 2. Provide tie bars at sides of pavement strips where indicated. 3. Use a bonding agent at locations where fresh concrete is placed against
- hardened or partially hardened concrete surfaces. 4. Use epoxy bonding adhesive at locations where fresh concrete is placed
- against hardened or partially hardened concrete surfaces. C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, walks, other fixed
- 1. Locate expansion joints at intervals of 50 feet, unless otherwise indicated.
- 2. Extend joint fillers full width and depth of joint. 3. Terminate joint filler less than 1/2 inch or more than 1 inch below finished
- surface if joint sealant is indicated. 4. Place top of joint filler flush with finished concrete surface if joint sealant is
- not indicated. 5. Furnish joint fillers in one-piece lengths. Where more than one length is
- required, lace or clip joint-filler sections together. 6. Protect top edge of joint filler during concrete placement with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.
- D. Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt-coat one-half of dowel length to prevent concrete bonding to one side of joint
- E. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows:
- 1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with groover tool to the following radius. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover marks on concrete surfaces.
- a. Radius: 1/4 inch. b Radius: 3/8 inch.

objects, and where indicated

- 2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before developing random contraction cracks.
- F. Edging: Tool edges of pavement, gutters, curbs, and joints in concrete after initial floating with an edging tool to the following radius. Repeat tooling of edges after applying surface finishes. Eliminate tool marks on concrete surfaces.
- 1. Radius: 1/4 inch. 2. Radius: 3/8 inch.
- 3.5 CONCRETE PLACEMENT
- A. Inspection: Before placing concrete, inspect and complete formwork installation, reinforcement steel, and items to be embedded or cast in. Notify other trades to permit installation of their work.
- B. Remove snow, ice, or frost from subbase surface and reinforcement before placing concrete. Do not place concrete on frozen surfaces.
- C. Moisten subbase to provide a uniform dampened condition at the time concrete is placed. Do not place concrete around manholes or other structures until they are at the required finish elevation and alignment.
- D. Comply with requirements and with recommendations in ACI 304R for measuring, mixing, transporting, and placing concrete.
- E. Do not add water to concrete during delivery, at Project site, or during placement.
- F. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.
- G. Consolidate concrete by mechanical vibrating equipment supplemented by hand-spading, rodding, or tamping. Use equipment and procedures to consolidate concrete according to recommendations in ACI 309R.
- 1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand-spreading and consolidation. Consolidate with care to prevent dislocating reinforcement, dowels, and joint devices.
- H. Place concrete in two operations; strike off initial pour for entire width of placement and to the required depth below finish surface. Lay welded wire fabric or fabricated bar mats immediately in final position. Place top layer of concrete, strike off, and screed.
- 1. Remove and replace portions of bottom layer of concrete that have been placed more than 15 minutes without being covered by top layer, or use bonding agent if approved by Architect.
- I. Screed pavement surfaces with a straightedge and strike off. Commence initial floating using bull floats or darbies to form an open textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading dry-shake surface treatments.
- Slip-Form Pavers: When automatic machine placement is used for pavement, submit revised mix design and laboratory test results that meet or exceed requirements. Produce pavement to required thickness, lines, grades, finish, and jointing as required for formed pavement.
- 1. Compact subbase and prepare subgrade of sufficient width to prevent displacement of paver machine during operations.
- K. Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
- 1. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F
- at point of placement. 2. Do not use frozen materials or materials containing ice or snow.

- 3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators, unless otherwise specified and approved in mix
- L. Hot-Weather Placement: Place concrete according to recommendations in ACI 305R and as follows when hot-weather conditions exist:
- 1. Cool ingredients before mixing to maintain concrete temperature at time of placement below 90 deg F. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
- 2. Cover reinforcement steel with water-soaked burlap so steel temperature will not exceed ambient air temperature immediately before embedding in
- 3. Fog-spray forms, reinforcement steel, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.
- 3.6 CONCRETE FINISHING
- A. General: Wetting of concrete surfaces during screeding, initial floating, or finishing operations is prohibited.
- B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and the concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats, or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots, and fill low spots. Refloat surface immediately to uniform granular texture.
- 1. Burlap Finish: Drag a seamless strip of damp burlap across float-finished
- concrete, perpendicular to line of traffic, to provide a uniform, gritty texture. 2. Medium-to-Fine-Textured Broom Finish: Draw a soft bristle broom across float-finished concrete surface perpendicular to line of traffic to provide a
- uniform, fine-line texture. 3. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch deep with a stiff-bristled broom, perpendicular to line of traffic.
- 3.7 FINISHES
- A. Finish concrete in the following sequence: Strike-off, consolidation, floating and removal of laitance.
- B. Provide light broom texture transverse to traffic flow direction, or as indicated on the plans.
- C. Round edges of each side of joints to a  $\frac{1}{2}$  inch radius.
- D. Curing: Uniformly apply curing compound over the entire surface after finishing initial set and removal of side forms, in accordance with the manufacturers printed instructions for the application.
- E. Rock-Salt Finish: After initial floating, uniformly seed 5 lb/100 sq. ft. over the concrete surface.
- 1. Cover surface with 1-mil- thick polyethylene sheet and remove when concrete has hardened and seven-day curing period has elapsed.
- 2. Embed rock salt into plastic concrete, power float concrete, and trowel finish. 3. After seven-day curing period, saturate concrete with water and broom-sweep surface to dissolve remaining rock salt.
- F. Colored Dry-Shake Hardener Finish: After initial floating, apply colored dry-shake materials to pavement surfaces according to manufacturer's written instructions and as follows:
- 1. Uniformly apply colored dry-shake materials at a rate of 100 lb/100 sq. ft. unless greater amount is recommended by manufacturer to match pavement color
- 2. Uniformly distribute approximately two-thirds of colored dry-shake material over the concrete surface with mechanical spreader, and embed by power floating. Follow power floating with a second shake application, uniformly distributing remainder of dry-shake material to ensure uniform color, and
- embed by power floating. 3. After final floating, apply a hand-trowel finish followed by a broom finish to concrete. Cure concrete with curing compound recommended by dry-shake material manufacturer. Apply curing compound immediately after final finishing.
- 3.8 CONCRETE PROTECTION AND CURING
- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and follow recommendations in ACI 305R for hot-weather protection during curing
- B. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- C. Begin curing after finishing concrete, but not before free water has disappeared from concrete surface.
- D. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound, or a combination of these as follows:
- 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
- a. Water.

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

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- b. Continuous water-fog spray.
- c. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive
- 2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during
- curing period using cover material and waterproof tape. 3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

3.9 PAVEMENT TOLERANCES

- A. Comply with tolerances of ACI 117 and as follows:
- 1. Elevation: 1/4 inch.
- 2. Thickness: Plus 3/8 inch, minus 1/4 inch. 3. Surface: Gap below 10-foot- long, unleveled straightedge not to exceed 1/4
- 4. Lateral Alignment and Spacing of Tie Bars and Dowels: 1 inch.
- 5. Vertical Alignment of Tie Bars and Dowels: 1/4 inch. 6. Alignment of Tie-Bar End Relative to Line Perpendicular to Pavement Edge: 1/2
- 7. Alignment of Dowel-Bar End Relative to Line Perpendicular to Pavement Edge:
- Length of dowel 1/4 inch per 12 inches.
- 8. Joint Spacing: 3 inches.
- 9. Contraction Joint Depth: Plus 1/4 inch, no minus.
- 10. Joint Width: Plus 1/8 inch, no minus.
- 3.10 FIELD QUALITY CONTROL
- A. Testing Agency: Engage a qualified independent testing and inspection agency to sample materials, perform tests, and submit test reports during concrete placement according to requirements specified in this Article.
- B. Testing Agency: Owner will engage a qualified testing and inspection agency to sample materials, perform tests, and submit test reports during concrete placement. Sampling and testing for quality control may include those specified in this Article.
- C. Testing Services: Testing shall be performed according to the following requirements:
- Sampling Fresh Concrete: Representative samples of fresh concrete shall be obtained according to ASTM C 172, except modified for slump to comply with ASTM C 94
- 2. Slump: ASTM C 143; one test at point of placement for each compressive-strength test, but not less than one test for each day's pour of each type of concrete. Additional tests will be required when concrete consistency changes.
- 3. Air Content: ASTM C 231, pressure method; one test for each compressive-strength test, but not less than one test for each day's pour of each type of air-entrained concrete.
- 4. Concrete Temperature: ASTM C 1064; one test hourly when air temperature is 40 deg F and below and when 80 deg F and above, and one test for each set of compressive-strength specimens.
- 5. Compression Test Specimens: ASTM C 31/C 31M; one set of four standard cylinders for each compressive-strength test, unless otherwise indicated. Cylinders shall be molded and stored for laboratory-cured test specimens unless field-cured test specimens are required.
- 6. Compressive-Strength Tests: ASTM C 39; one set for each day's pour of each concrete class exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd.. One specimen shall be tested at 7 days and two specimens at 28 days; one specimen shall be retained in reserve for later testing if required.
- 7. When frequency of testing will provide fewer than five compressive-strength tests for a given class of concrete, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are
- 8. When total quantity of a given class of concrete is less than 50 cu. yd., Architect may waive compressive-strength testing if adequate evidence of
- satisfactory strength is provided. 9. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, current operations shall be evaluated and corrective procedures shall be provided for protecting and curing in-place
- 10. Strength level of concrete will be considered satisfactory if averages of sets of three consecutive compressive-strength test results equal or exceed specified compressive strength and no individual compressive-strength test result falls below specified compressive strength by more than 500 psi.
- D. Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 24 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing agency, concrete type and class, location of concrete batch in pavement, design compressive strength at 28 days, concrete mix proportions and materials, compressive breaking strength, and
- Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as the sole basis for approval or rejection.

type of break for both 7- and 28-day tests.

- Additional Tests: Testing agency shall make additional tests of the concrete when test results indicate slump, air entrainment, concrete strengths, or other requirements have not been met, as directed by Architect. Testing agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42, or by other methods as directed.
- 3.11 REPAIRS AND PROTECTION
- A. Remove and replace concrete pavement that is broken, damaged, or defective, or does not meet requirements in this Section.
- B. Drill test cores where directed by Architect when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory pavement areas with portland cement concrete bonded to pavement with epoxy
- . Protect concrete from damage. Exclude traffic from pavement for at least 14 days after placement. When construction traffic is permitted, maintain pavement as clean as possible by removing surface stains and spillage of materials as they occur.
- D. Maintain concrete pavement free of stains, discoloration, dirt, and other foreign material. Sweep concrete pavement not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 02751

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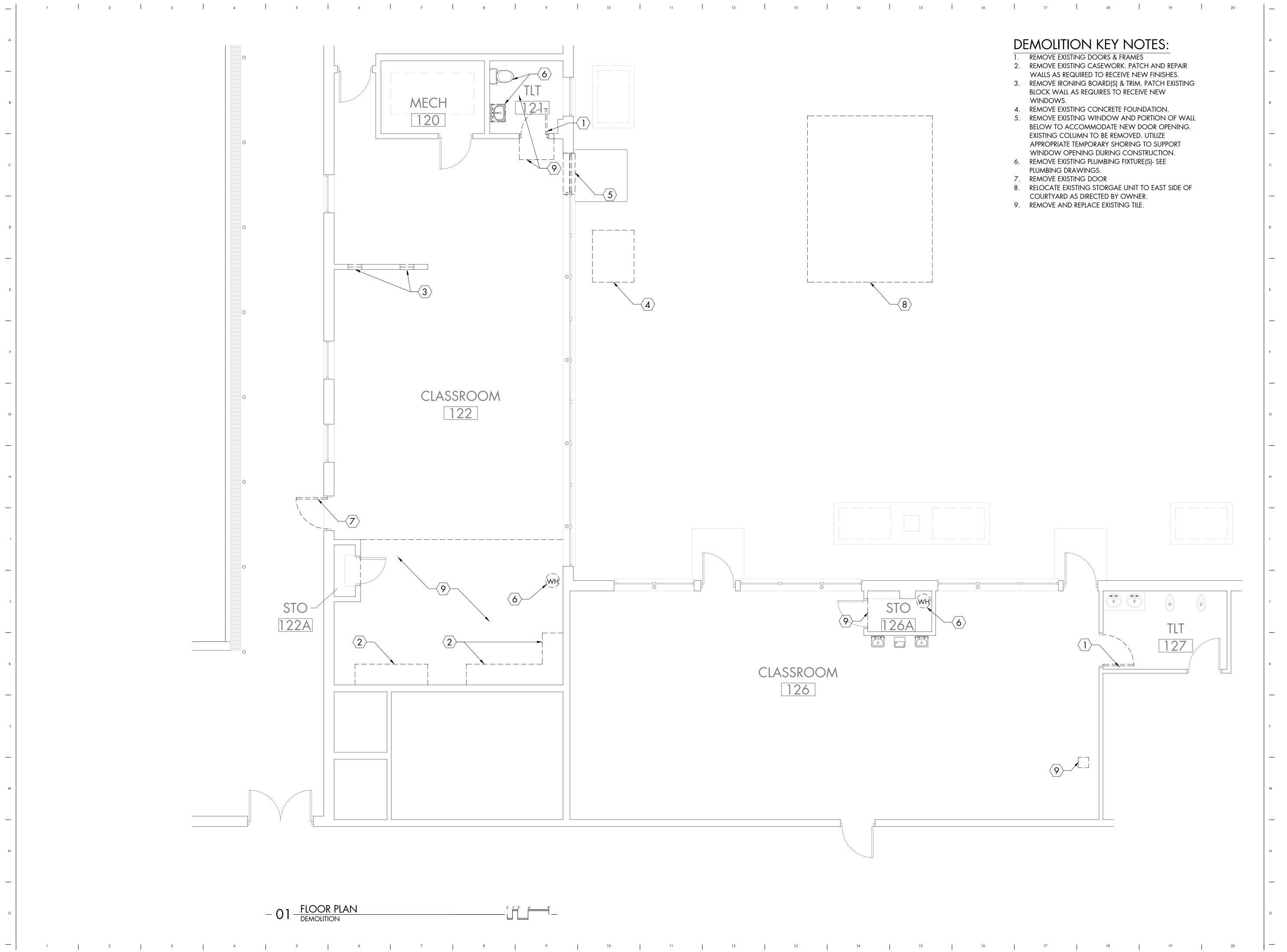
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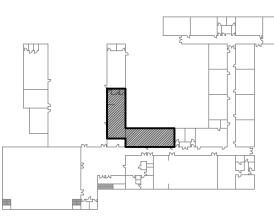
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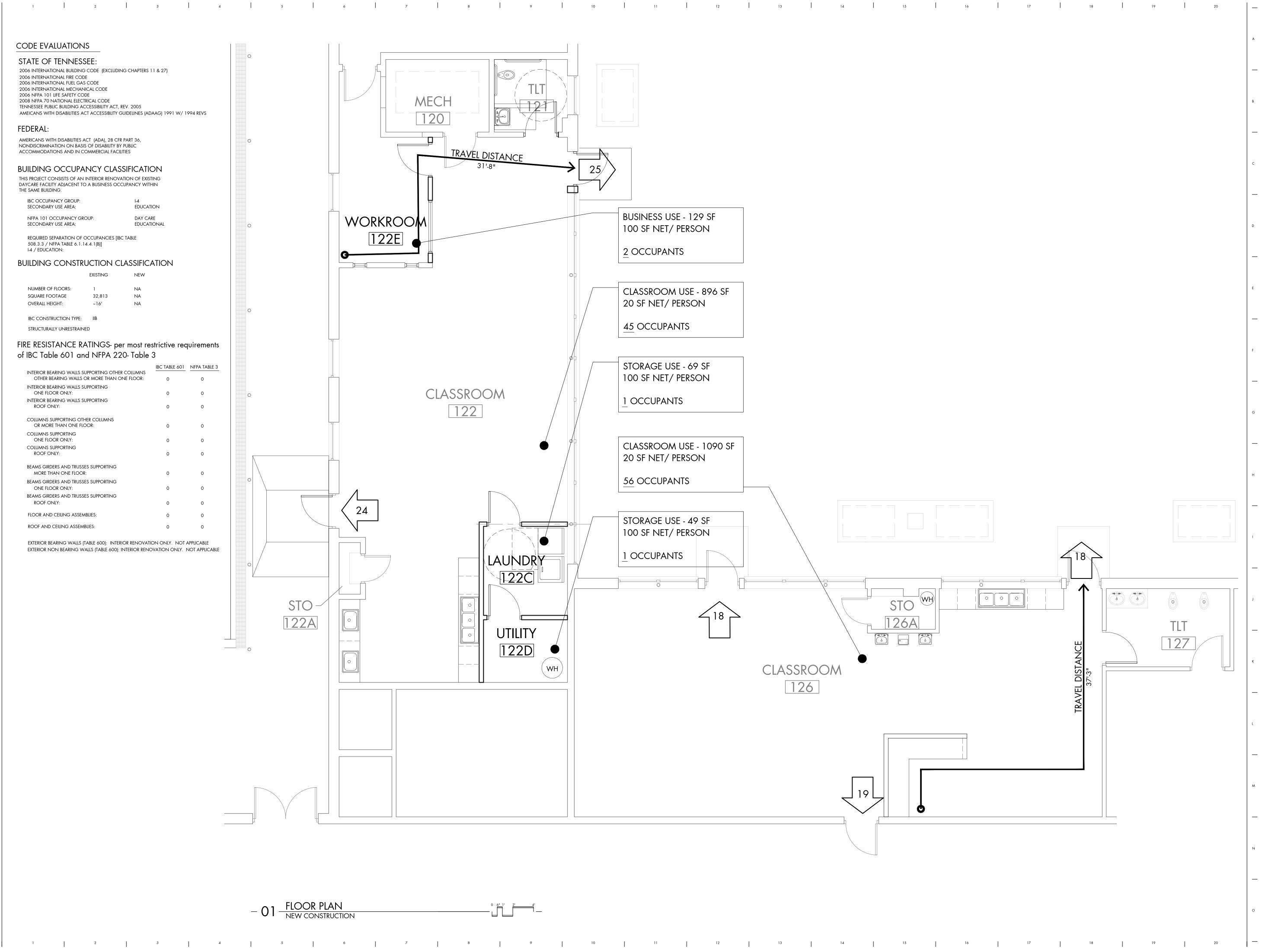
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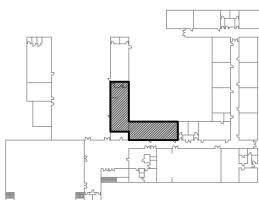
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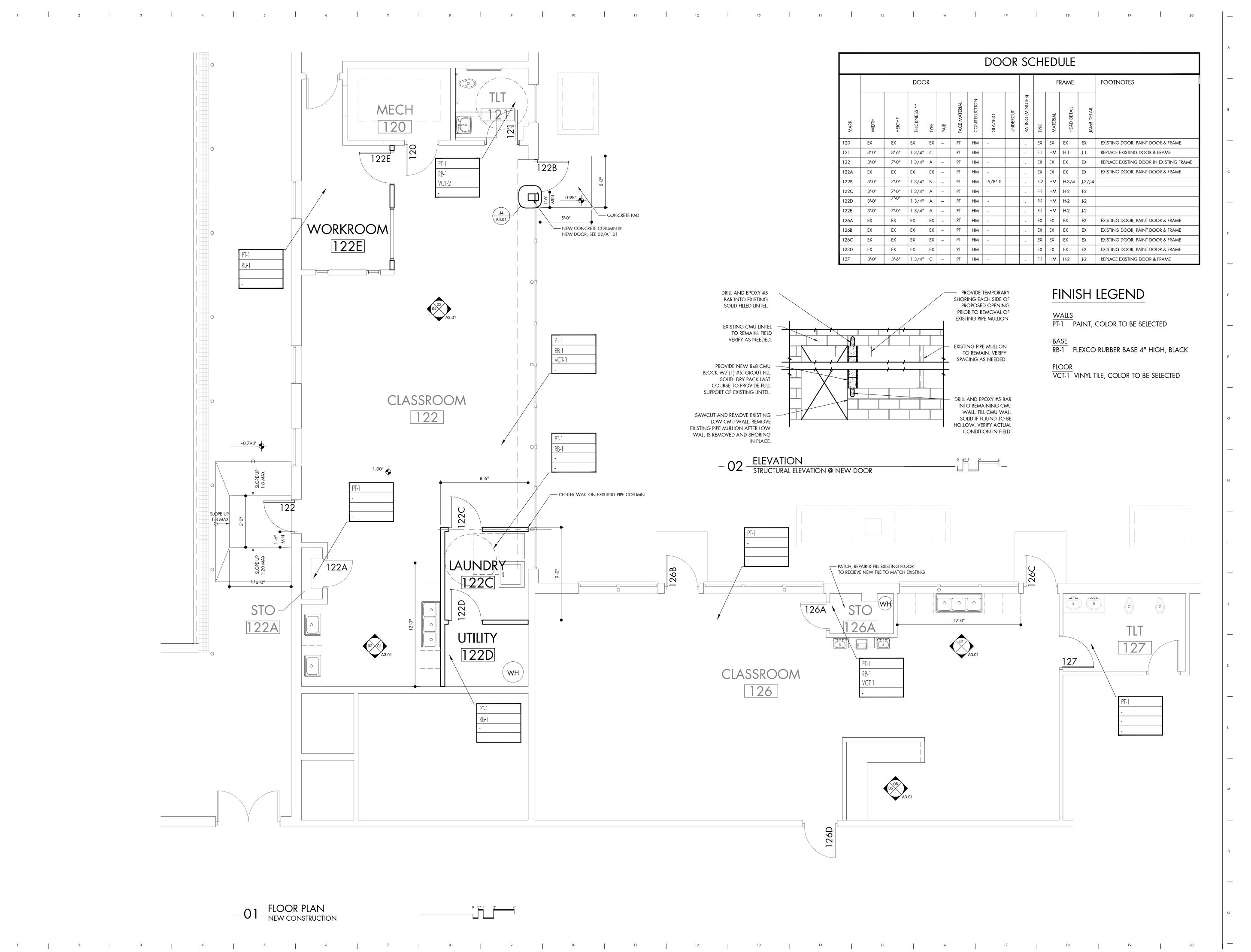
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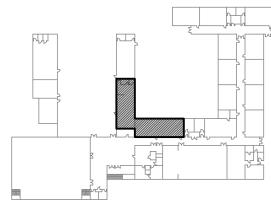
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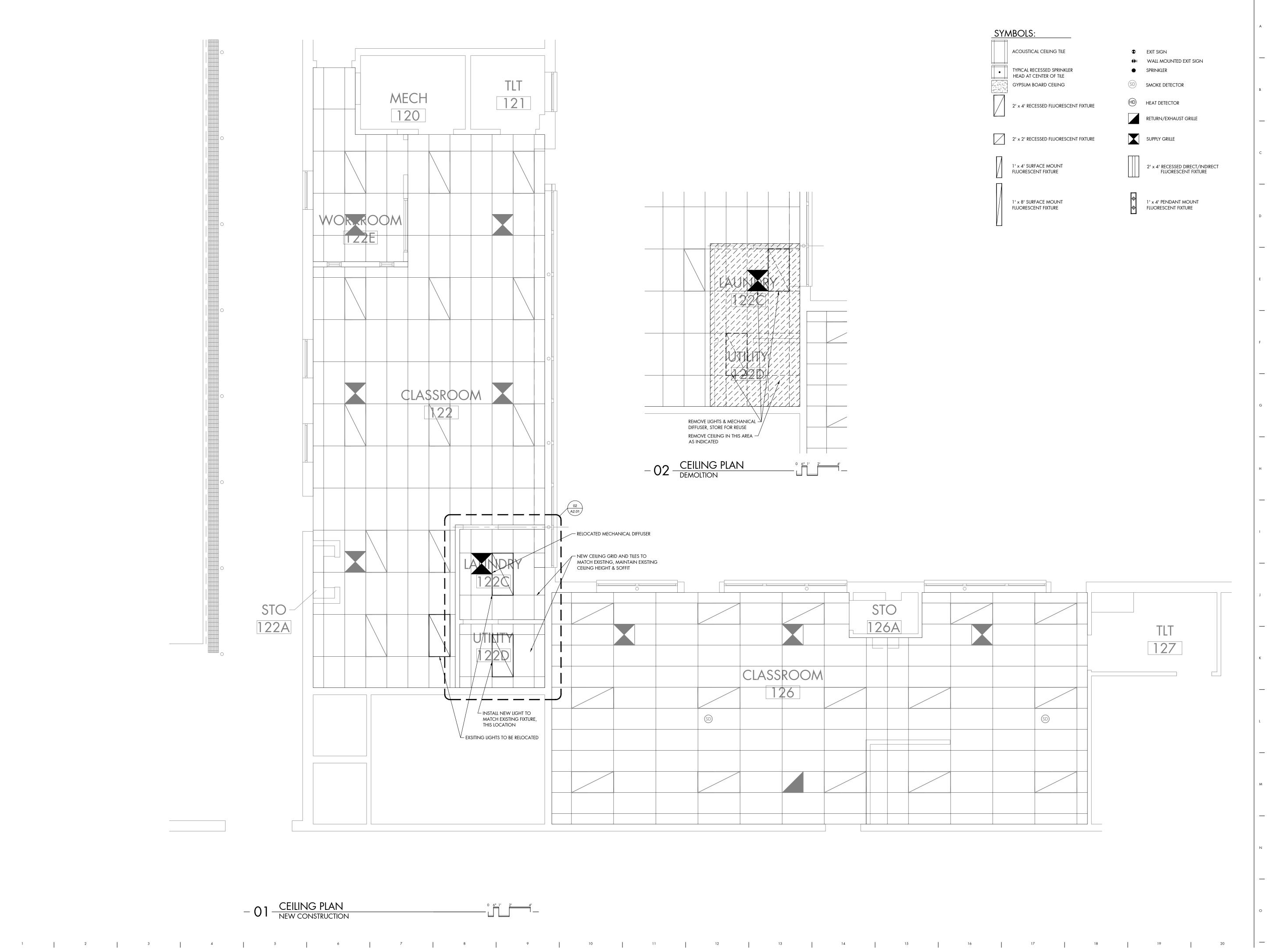
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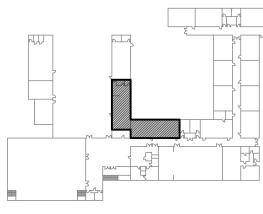
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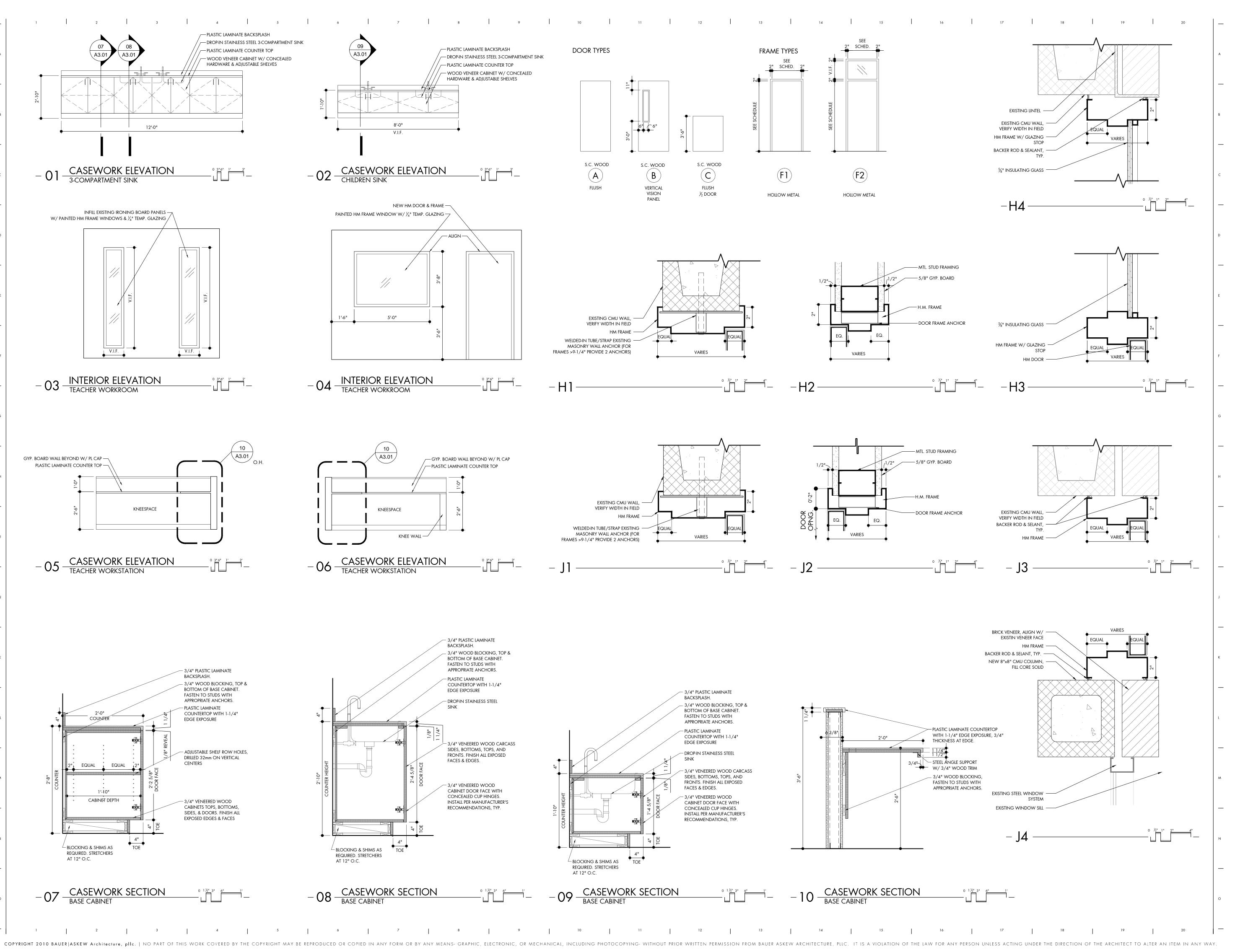


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FLOOR PLAN

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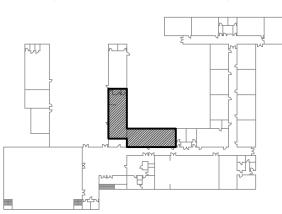
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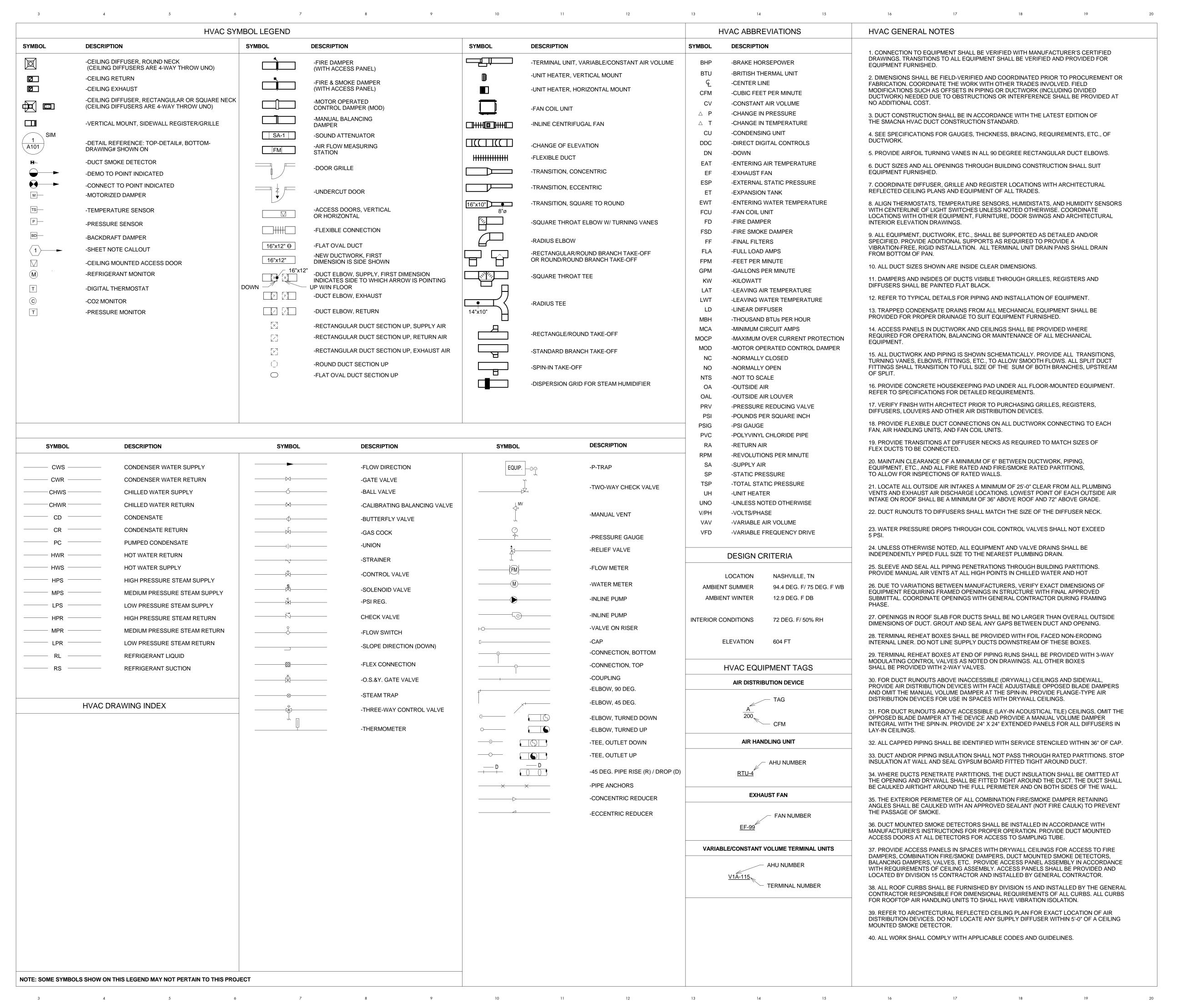
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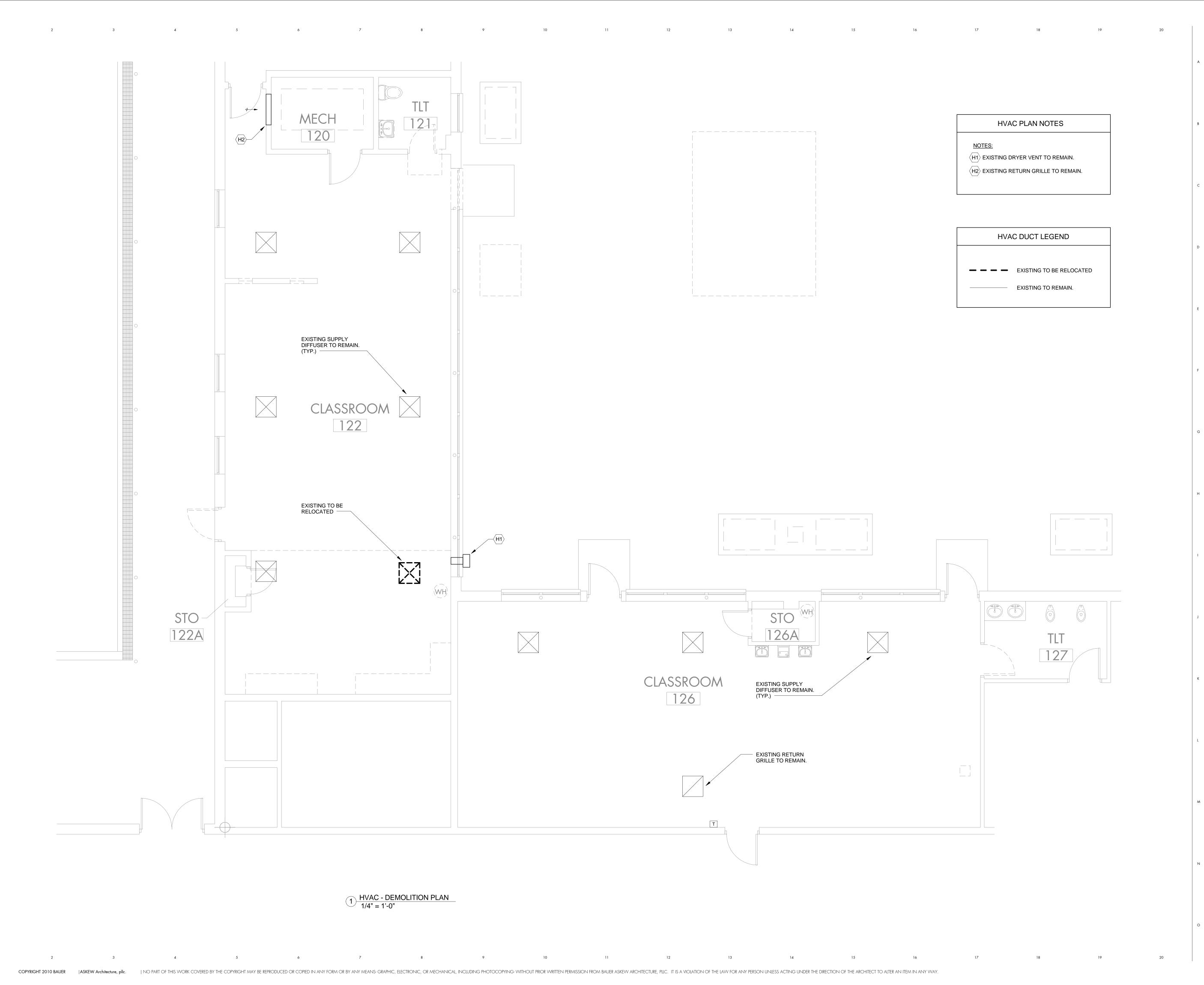
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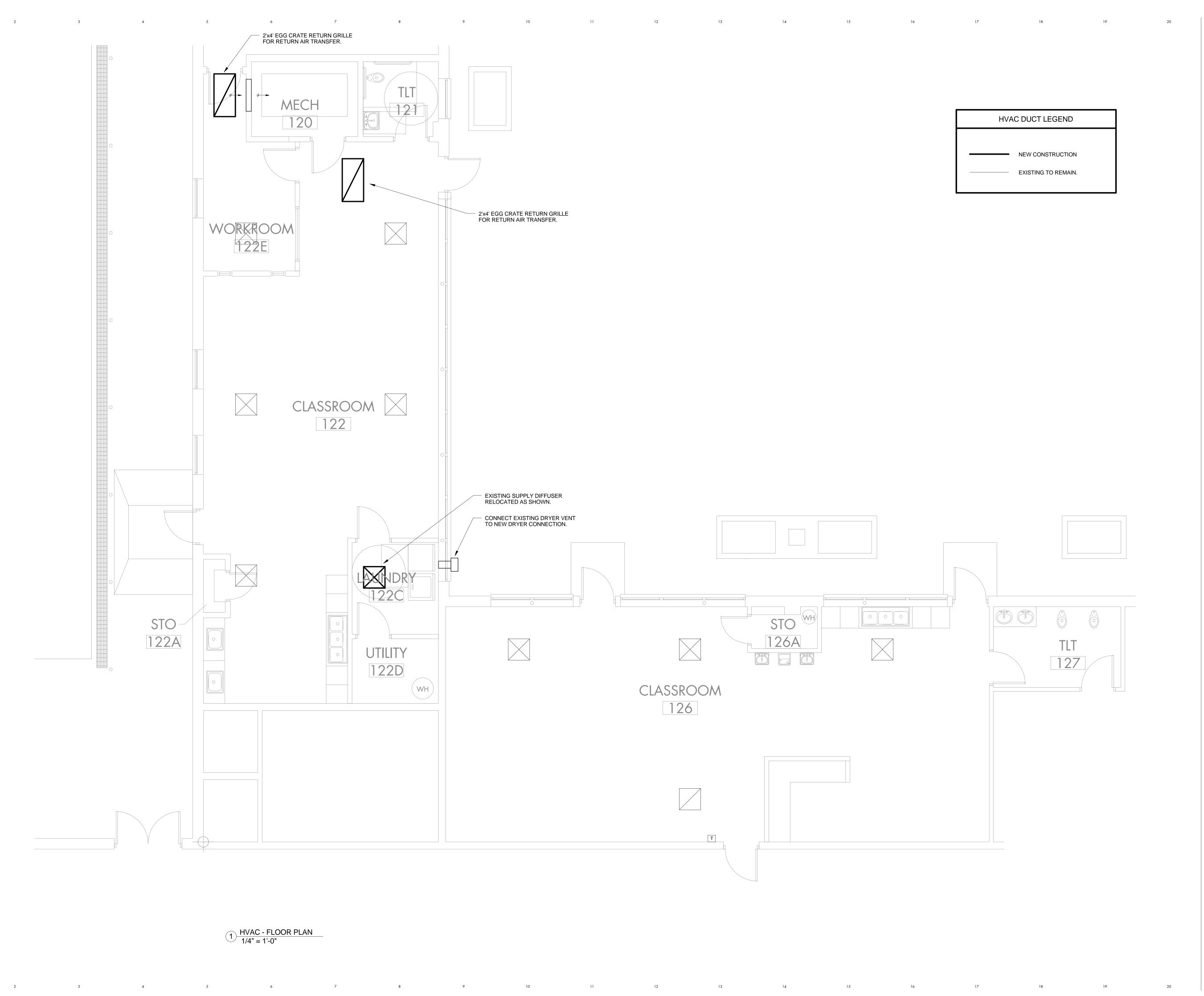
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HVAC - DEMOLITION
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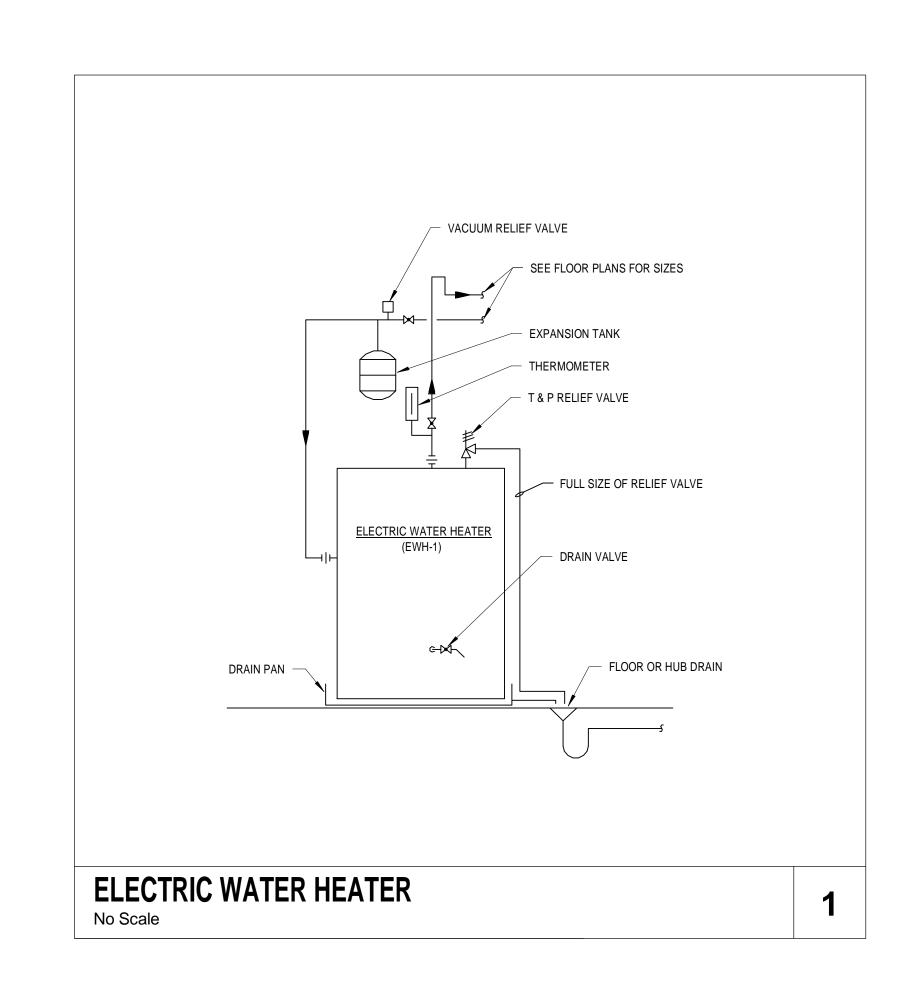
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						PLU	JMBING FIX	TURE SCHEDULE								
			FIXTURE	FAUG	CET	FLUSH V	ALVE	SEAT		CARF	RIER	STRAII	NER/TRAP	SUPPL	IES	
MAR	DESCRIPTION	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANFACTURER	MODEL	MANUFACTURER	MODEL	NOTES
WC-1	CHILD HEIGHT WATER CLOSET - FLOOR MOUNTED, VITREOUS CHINA, ROUND FRONT, 1.6 GPF	AMERICAN STANDARD	2282.010	N/A	N/A	SLOAN	ROYAL 111-1.6	OLSONITE	126-CC	N/A	N/A	N/A	N/A	N/A	N/A	
L-1	CHILD HEIGHT LAVATORY - WALL HUNG, VITREOUS CHINA, 4" CENTERS, WRIST BLADE HANDLES, 5-1/4" GOOSENECK	AMERICAN STANDARD	0355.012	CHICAGO	895-317-GN2A E35ABCP	N/A	N/A	N/A	N/A	ZURN	ZR-1200 SERIES	MCGUIRE	155A/8902	MCGUIRE	2165CC	INSTALL WITH RIM AT 24" A.F.F., PROVIDE .5 GPM AERATOR - CHICAGO E2605-5JKACP
S-1	SINK - SINGLE COMP., SELF-RIMMING, STAINLESS STEEL, 22" x 19" x 7-1/2" DP., 8" CENTERS, SINGLE LEVER, 10" SWING SPOUT		LR2219	CHICAGO	2300-8CP	N/A	N/A	N/A	N/A	N/A	N/A	MCGUIRE	8912	MCGUIRE	2165CC	
S-2	SINK - TRIPLE COMP., SELF-RIMMING, STAINLESS STEEL, 54" x 22" x 10" DP., 8" CENTERS, SINGLE LEVER, 10" SWING SPOUT	ELKAY	LTR542210	CHICAGO	2300-8CP	N/A	N/A	N/A	N/A	N/A	N/A	MCGUIRE	8912	MCGUIRE	2165CC	CONTINUOUS WASTE - ELKAY LK-76

	WATER HEATER SCHEDULE						
MARK	MANUFACTURER	MODEL NUMBER	RECOVERY	△ T (DEG F)	STORAGE (GALLONS)	POWER OR FUEL REQUIREMENTS	NOTES
EWH-1	STATE	PCE 40 20LSA	23 GPH	80 °	40 GAL	208V, 1PH, 4.5 KW	NON SIMULTANEOUS



PLUI	MBING ABBREVIATIONS	GENERAL NOTES
SYMBOL	DESCRIPTION	REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
		2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
AFF	- ABOVE FINISH FLOOR	
CFH	- CUBIC FEET PER HOUR	PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS     NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY
CO	- CLEANOUT - CONTINUATION	ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN
CW	- DOMESTIC COLD WATER	CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND
DN	- DOWN	OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
DWG	- DOWN - DRAWING	4. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
EXIST	- EXISTING	
°F	- DEGREE FAHRENHEIT	5. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
FCO	- FLOOR CLEANOUT	ROOME OF ACTIONEET NOTED.
GPH	- GALLONS PER HOUR	6. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE
GPM	- GALLONS PER MINUTE	NON-ACCESSIBLE CEILINGS.
НВ	- HOSE BIBB	7. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND
HW	- DOMESTIC HOT WATER	FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR
HWR	- DOMESTIC HOT WATER RECIRCULATING	EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS
IE	- INVERT ELEVATION	FOR FINAL FINISHES.
KW	- KILOWATT	8. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
LBS	- POUNDS	9. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
NTS	- NOT TO SCALE	
OD	- OUTSIDE DIAMETER	10. PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
PRV	- PRESSURE REDUCING VALVE	11. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES,
PSI	- POUNDS PER SQUARE INCH	DEVICES, APPLIANCES AND APPARATUS.
PVC	- POLYVINYL CHLORIDE PIPE	12. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
S	- SANITARY SEWER	12. THE EXTROGER IN EXTRAGORATION OF THE BE OF THE WELL BE OF THE BEAUTY
SH	- SHEET	13. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
V	- VENT	14. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL
VTR	- VENT THRU ROOF	CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
WCO	- WALL CLEANOUT	15. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS, SET
WTR	- WATER	FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
RO	- REVERSE OSMOSIS	(SLOPE NOT TO EXCEED 1/4" PER FOOT).
		16. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
		17. ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
		18. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.

PLUMBING	G SYMBOL LEGEND
SYMBOL	DESCRIPTION
	- DOMESTIC COLD WATER PIPING
X"HW	- DOMESTIC HOT WATER PIPING (120 DEG. F
	- SANITARY SEWER PIPING
X"S ====================================	- VENT PIPING
	- SHUTOFF VALVE
-	- HOSE BIBB OR WALL HYDRANT
<del> </del>	- CONNECTION, TOP
<del> </del>	- CONNECTION, BOTTOM
<u></u>	- ELBOW, TURNED UP/DOWN
<u> </u>	- TEE, TURNED UP/DOWN

	PLUMBING SHEET LIST
SHEET NUMBER	SHEET NAME
P0.00	PLUMBING SCHEDULES & NOTES
P1.01	PLUMBING PLAN - DEMOLITION
P2.01	UNDERGROUND PLAN - NEW WORK
P2.02	PLUMBING PLAN - NEW WORK

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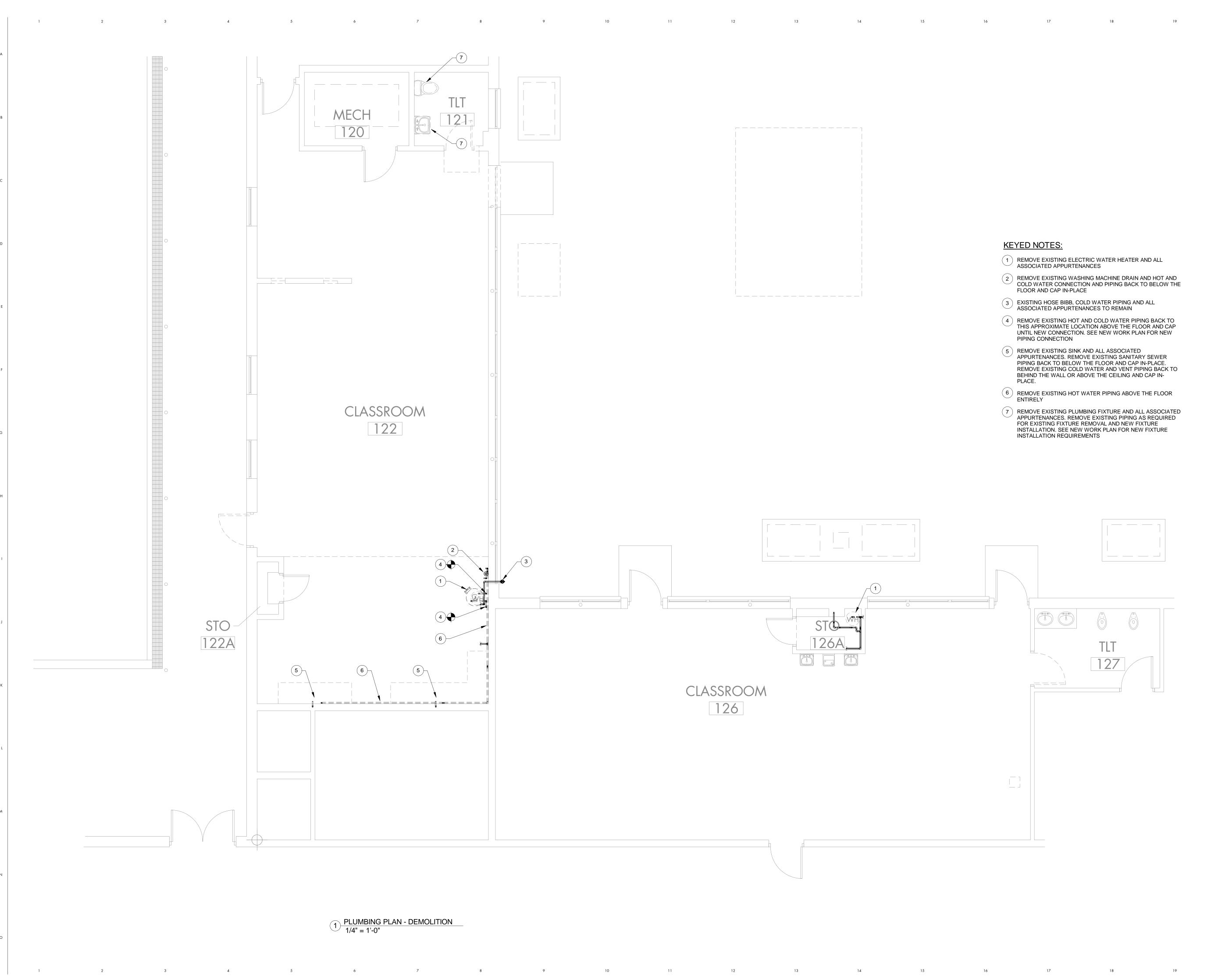
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# PLUMBING SCHEDULES & NOTES Sheet Number P0.00

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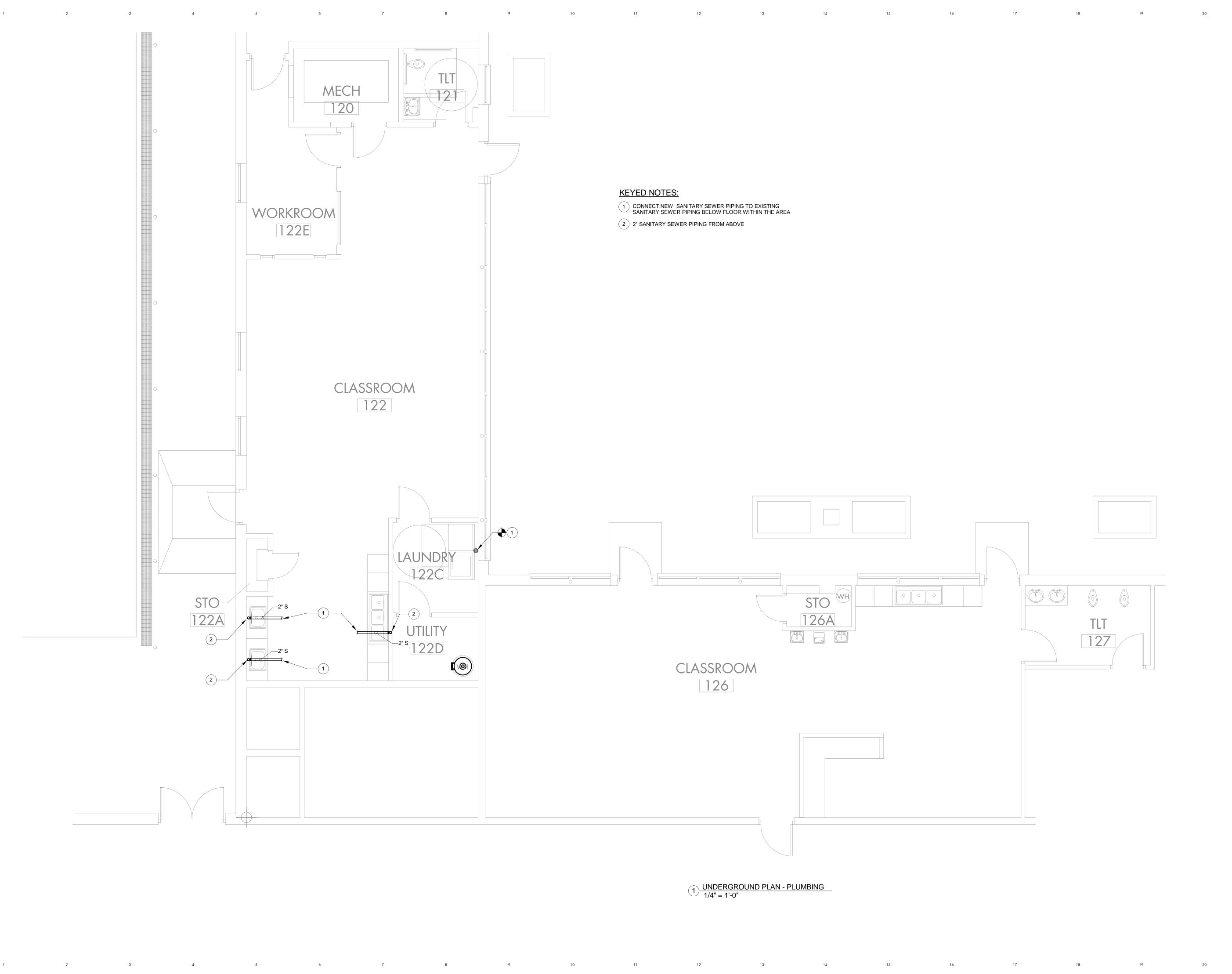
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PLUMBING PLAN DEMOLITION
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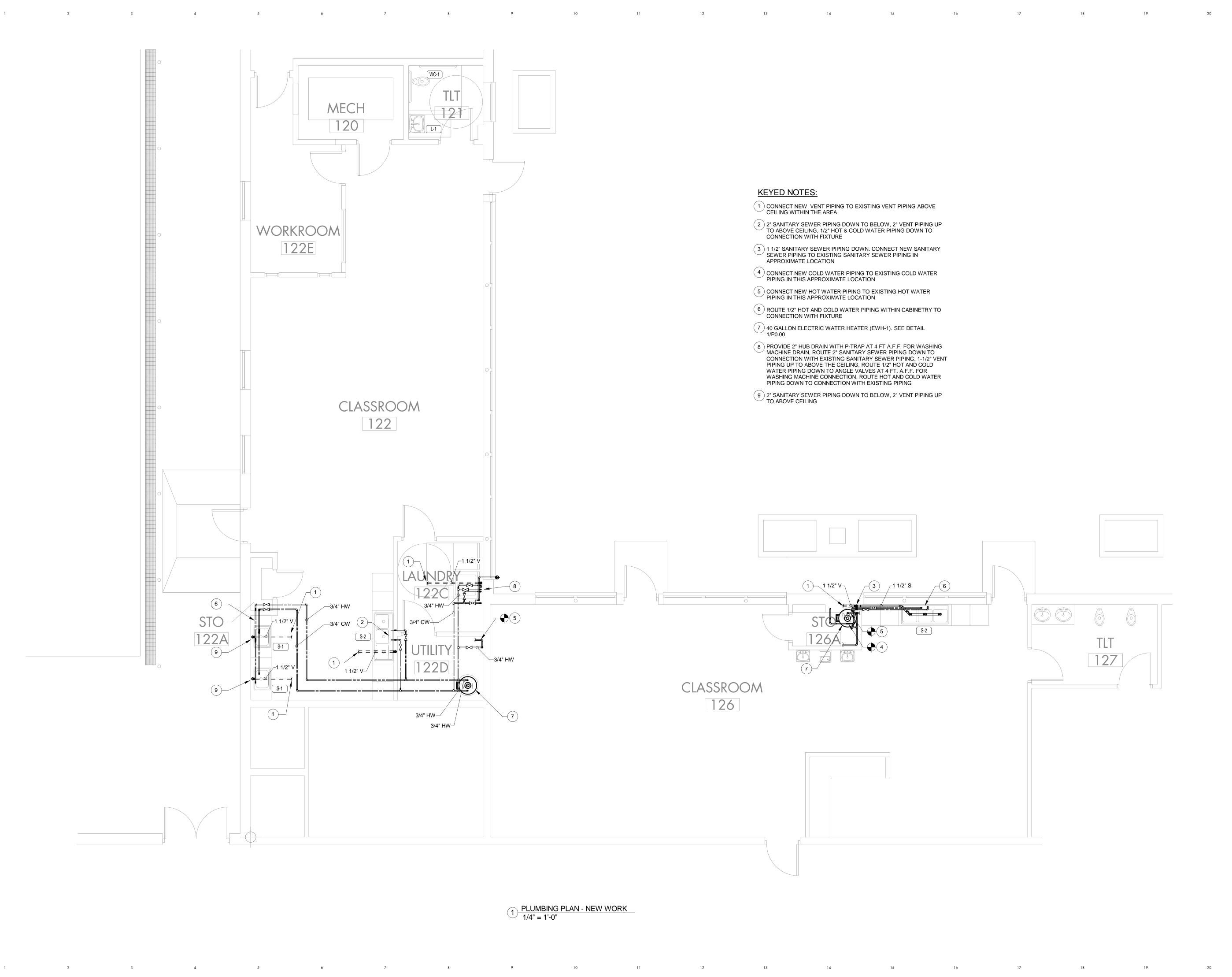
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UNDERGROUND PLAN - NEW WORK Sheet Number

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PLUMBING PLAN - NEW
WORK
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#### ELECTRICAL GENERAL NOTES:

THE REUSE OF EXISTING CONDUIT, RACEWAYS, AND BACKBOXES SHALL BE PERMITTED WHERE FEASIBLE. WHERE THE REUSE OF EXISTING RACEWAYS OCCURS, CONTRACTOR SHALL ENSURE THAT PROPER SEPARATION OF WIRING CLASSIFICATIONS IS MAINTAINED THROUGHOUT THE ENTIRE CIRCUIT. WHERE CO-MINGLING OCCURS, CONTRACTOR SHALL PROVIDE SEPARATE RACEWAYS TO MAINTAIN THE REQUIRED SEPARATION. THE CONTRACTOR SHALL INVESTIGATE THE EXISTING ELECTRICAL SYSTEM IN ENTIRETY PRIOR TO BID TO DETERMINE THE EXTENT OF ALL REQUIRED WORK.

ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. EXISTING CONDUIT, RACEWAYS, AND BOXES BEING REUSED SHALL BE DEMOLISHED/REWORKED IN A NEAT AND WORKMANLIKE MANNER.

EXISTING CONDITIONS SHOWN IN THESE DRAWINGS ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION/REWORK. FIELD CONDITIONS SHALL GOVERN.

THE PLANS ARE NOT INCLUSIVE OF ALL DEVICES WITHIN THE BUILDING. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION AND REWORK WHETHER SHOWN ON THE PLANS OR NOT.

ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.

ALL CONDUIT SHALL BE IDENTIFIED PER FACILITY STANDARDS. COORDINATE STANDARDS WITH FACILITY.

VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.

ALL DEVICES SHALL BE MOUNTED VERTICAL, UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO

COMMENCING WORK AND DURING CONSTRUCTION FOR POWER AND/OR

SYSTEM OUTAGES AS WELL AS GENERAL REQUIREMENTS.

EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.

WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 408.

ALL NEW AND EXISTING PANELS AFFECTED BY THIS PROJECT SHALL BE PROVIDED WITH A NEW TYPE WRITTEN DIRECTORY.

MINIMUM WIRE SIZE IS #12 UNLESS NOTED OTHERWISE.

BRANCH CIRCUIT "RECIRCUITING" REQUIREMENTS:

ALL BRANCH CIRCUITS BEING USED FOR "RECIRCUITING" SHALL BE FULLY INVESTIGATED BY THE CONTRACTOR PRIOR TO PERFORMING THE REQUIRED WORK. "RECIRCUITING" SHALL INCLUDE, BUT NOT LIMITED TO DEMOLISHING EXISTING ELECTRICAL DEVICES SHOWN AS BEING REMOVED AND REUSING THAT BRANCH CIRCUIT TO FEED NEW ELECTRICAL DEVICES

INTENT OF "RECIRCUITING" IS TO INTERCEPT THE EXISTING BRANCH CIRCUITS AT THE NEAREST, MOST CONVENIENT OVERHEAD JUNCTION BOX FOR EXTENSION TO NEW ELECTRICAL DEVICES SHOWN.

THE REUSE OF EXISTING RACEWAYS SHALL BE PERMITTED TO THE FULLES EXTENT POSSIBLE PROVIDED THAT THE RACEWAYS ARE METALLIC AND PROPERLY SUPPORTED PER THE NEC. CONTRACTOR SHALL ENSURE THAT SUCH RACEWAYS ARE SUPPORTED, AND IF REQUIRED, ADD ADDITIONAL SUPPORTS.

ALL WIRING DEVICE'S COVERPLATES INCLUDING BUT NOT LIMITED TO RECEPTACLES AND SWITCHES SHALL BE REPLACED WITH NEW COVERPLATES.

#### DESCRIPTION DESCRIPTION SYMBOL FLUORESCENT STRIP FIXTURE SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED) FIXTURE DESIGNATION SINGLE POLE SWITCH WITH DIMMER FLUORESCENT FIXTURE THREE-WAY SWITCH FLUORESCENT FIXTURE, SWITCHED WITH BATTERY PACK OCCUPANCY SWITCH FLUORESCENT FIXTURE, NON-SWITCHED WITH BATTERY PACK MANUAL MOTOR STARTER WITH OVERLOAD HEATERS DOWN LIGHT FIXTURE DUPLEX RECEPTACLE "IG" INDICATES ISOLATED GROUND EXIT LIGHT FIXTURE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER DIRECTION ARROWS AS SHOWN (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE) GFI RECEPTACLE. WP DENOTES WEATHERPROOF COVER. WALL MOUNTED EXIT LIGHT FIXTURE GFI RECEPTACLE MOUNTED ABOVE COUNTER BATTERY PACK WITH TWIN HEADS TWO DUPLEX RECEPTACLES WITH COMMON COVER PHOTOCELL BPI: BASE POWER INLET - CONNECTION FOR MODULAR FURNITURE, PROVIDE CEILING SMOKE DETECTOR, PHOTO-ELECTRIC BACKBOX FOR POWER AND A SEAPRATE BACKBOX FOR DATA, PROVIDE (2) TYPE UNLESS OTHERWISE NOTED CAT 6 CABLES BACK TO SERVER ROOM E = ELEVATOR WITH RECALL CONTACTS MAGNETIC MOTOR STARTER OR CONTACTOR I = IONIZATIONSIZE AS NOTED HEAT DETECTOR MOTOR CONNECTION, NUMBER DENOTES HORSEPOWER DUCT SMOKE DETECTOR VARIABLE FREQUENCY DRIVE R = RETURNS = SUPPLYDIRECT DIGITAL CONTROL PANEL SUPERVISED CONTROL RELAY TRANSFORMER COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICE AUTOMATIC TRANSFER SWITCH NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED MANUAL PULL STATION NF DENOTES NON-FUSED COMBINATION AUDIBLE/VISUAL AND PULL STATION FUSED DISCONNECT AR DENOTES AMP RATING OF SWITCH VISUAL SIGNALING UNIT, WALL MOUNTED (NO AUDIO DEVICE) AF DENOTES AMP FUSE SIZE FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED SIZE COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED 3 POLE UNLESS OTHERWISE NOTED FIRE ALARM CONTROL PANEL - FLUSH MOUNTED ENCLOSURE NEMA 1 UNLESS NOTED VOICE/DATA OUTLET BACK BOX, PROVIDE CAT 6 WIRE TO SERVER ROOM NEMA STARTER SIZE C = ABOVE THE COUNTER W = WALL MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, CONDUIT = PROVIDE CONDUIT AND CAT6 WIRE TO SERVER ROOM SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, SURFACE MOUNTED BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. CONDUIT SHALL INCLUDE PHASE, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED FOR CIRCUITS (UNLESS OTHERWISE NOTED). BRANCH CIRCUIT CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR. BRANCH CIRCUIT CONDUIT EXPOSED GROUND OR GROUND ROD AS NOTED FLEXIBLE CONDUIT

ELECTRICAL SYMBOL LEGEND

	Li	ghting Fixture Schedule
Type	Description	Type Comments
Α	2' X 4', NEW LIGHT FIXTURE	MATCH EXISTING 2' X 4' LIGHT FIXTURES ON SITE
AX	2' X 4', EXISTING LIGHT FIXTURE	
В	EXISTING BATHROOM LIGHT FIXTURE	
HH	EMERGENCY WALL PACK	MATCH EXISTING EMERGENCY WALL PACKS ON SITE
Х	EXIT SIGN	MATCH EXISTING EXIT SIGNS ON SITE

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

	Sheet List
Sheet Number	Sheet Name
E0.01	ELECTRICAL LEGEND AND NOTES
E1.01	LIGHTING PLAN
E2.01	POWER/FIRE ALARM PLAN

**BAUER ASKEW** architecture.pllc

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1615 sixteenth avenue south

nashville tennessee 37212





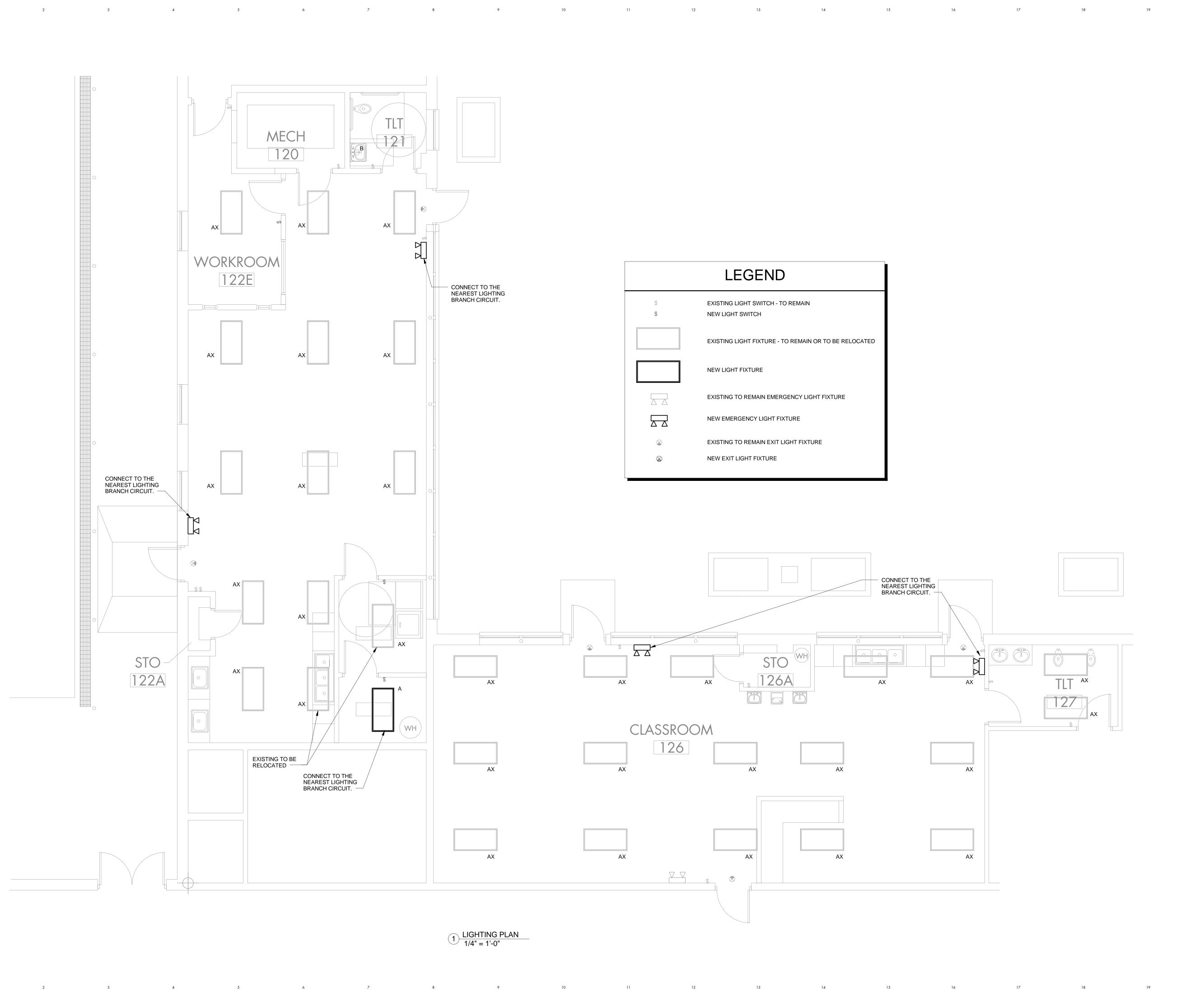
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ELECTRICAL
LEGEND AND NOTES
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CONSTRUCTION DOCUMENTS



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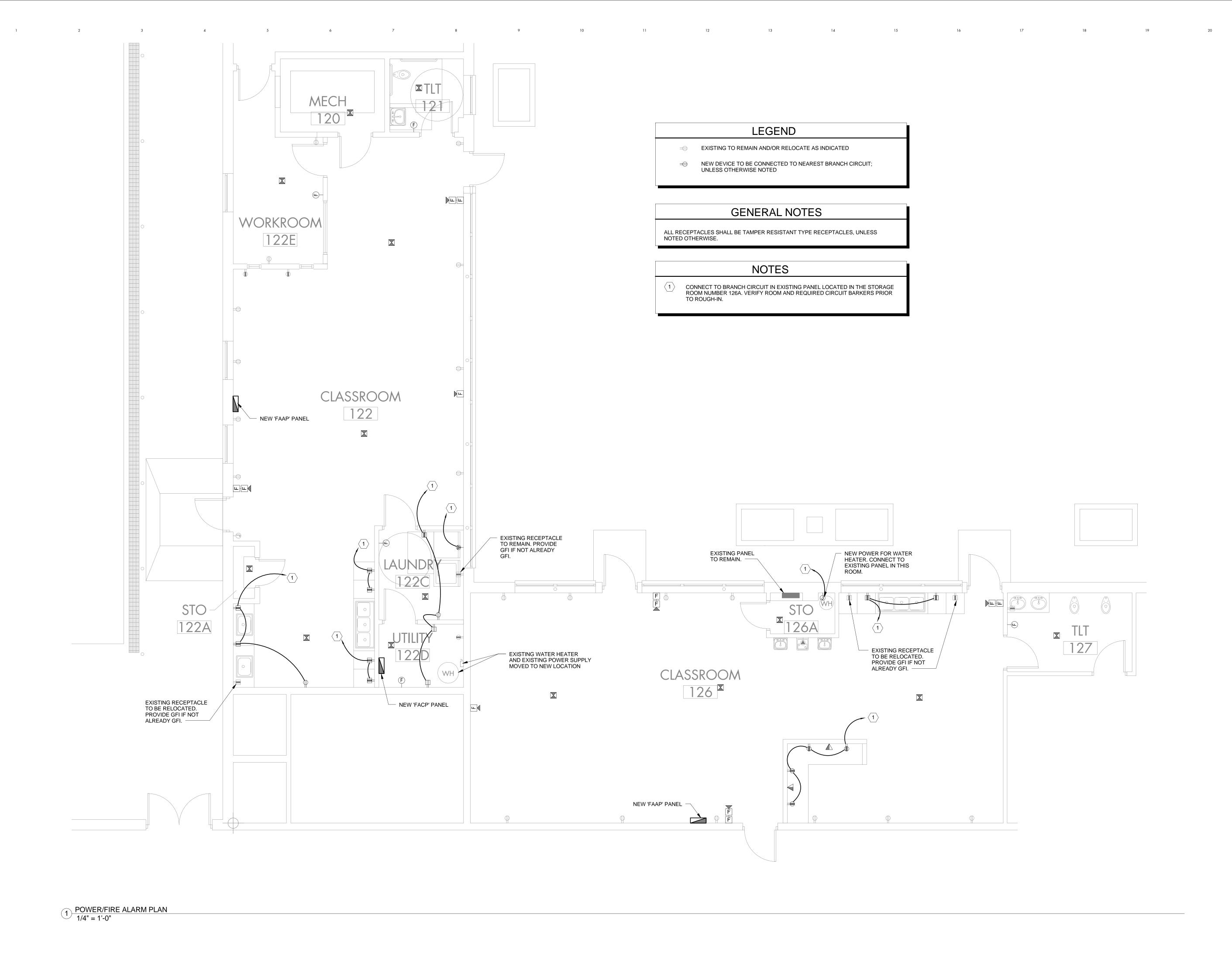
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LIGHTING PLAN

Sheet Number E1.01

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POWER/FIRE ALARM
PLAN
Sheet Number

E2.01
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CONSTRUCTION DOCUMENTS