

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 .0002" OF EPOXY PRIMER IS APPLIED, A MINIMUM .0004" 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 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. THE FOLLOWING SHALL APPLY:

1. CASTINGS TO BE MADE FROM GLASS FIBER REINFORCED CONCRETE (GFRG). 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 C38 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 .312" (5/16").

PERMALENE® PARTS: THESE PARTS SHALL BE MANUFACTURED FROM 34" 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 34" 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 NUMBER.

INSTALLATION DOCUMENTATION: ALL SHIPMENTS SHALL 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 OR WITHIN EACH CONTAINER.

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 (PALLET)S 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 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 SELFABRIK, ONE OF THE MOST EXPERIENCED MANUFACTURERS OF STEEL CABLES IN THE WORLD, WITH A GLOBAL REPUTATION FOR TOP QUALITY SINCE 1865.

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 SELFABRIK, ONE OF THE MOST EXPERIENCED MANUFACTURERS OF STEEL CABLES IN THE WORLD, WITH A GLOBAL REPUTATION FOR TOP QUALITY SINCE 1865.

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. ADVENTURES CAPES® BLACK CABLE ONLY, SPACELINK CLIMBER™ RED CABLE ONLY, PROVIDED BY BERLINER SELFABRIK, 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 DRILL 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

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

- A. 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).
 - 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.
 - 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.

- B. 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

- A. Aggregate Base - Crushed angular hard stone, ¾"minus compactible stone (not clean). (Refer to Section 3.2-B)
- B. Synthetic grass: 1.75 inch XGrass™ Play from XGrass, 210 Howell Drive : Dalton, GA 30721 : Phone (877) 881-8477 or approved equal
- a. Face Weight 50 oz/sy
- Face Yarn Type: Polyethylene
- c. Yarn Size 10800/7300
- d. Pile Height: 1.75 inches
- e. Color: Blend
- f. Construction: Broadloom tufted
- g. Stitch Rate: 8 per 3 inches
- h. Tufting Gauge: 1/4"
- i. Primary Backing: Stabilized dual layered woven polypropylene
- j. Secondary Backing 10 oz. DuraFlo
- k. Total Product Weight 68.7 oz/sy
- l. Finished Roll Width 180" untrimmed
- m. Warranty: 10-year fade
- C. 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
- b. Bulk Density: 5.0-8.0 lb/cu ft
- c. Effective Size 24 sq ft (net coverage)
- d. Tensile Strength 34-36 psi
- D. 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
- a. Grain shape: Hardness: 6-8 Mohs
- b. Curvature: 0.7+
- c. Specific Gravity: 1.76 g/cm3
- d. Bulk Density: 110 lb/cu ft
- e. Uniform coefficient 1.10 to 1.40
- f. Effective Size .84 -1.68 mm
- E. Splicing Material: 1000 denier coated nylon (Cordura®) 12" wide minimum.
- F. Adhesive: Synthetic Turf Adhesive (from XGrass)

PART 3 - EXECUTION

3.1 GENERAL PREPARATION

- A. General: The ground area to receive synthetic grass safety surface is indicated on the Drawings.
- B. 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 3%.
- B. 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 ¾" minus (compactable).
- C. 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.
- D. 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.
- E. Anchoring/Edging: Edges of turf will be secured to ground with edging as indicated.

PART 4 - WARRANTY

4.1 WARRANTY

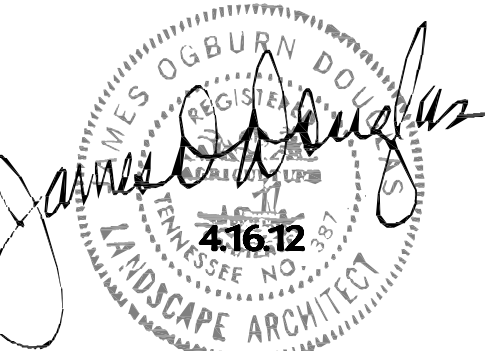
- A. Provide 12 month warranty for all materials, installation and performance.

BAUER | ASKEW
architecture, pllc

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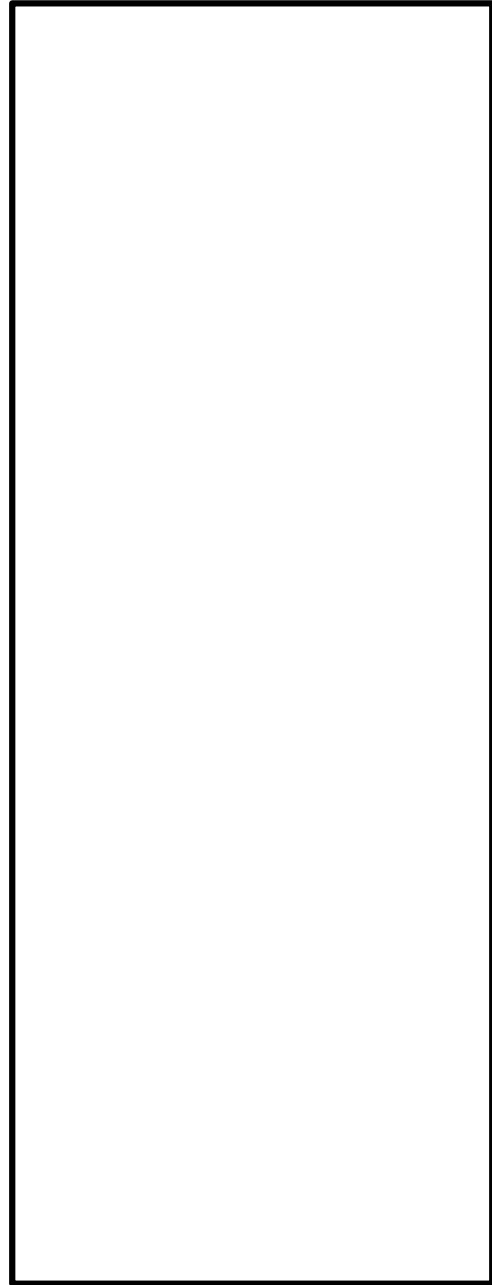
TENNESSEE STATE UNIVERSITY
DAYCARE CENTERS

SITE DETAILS

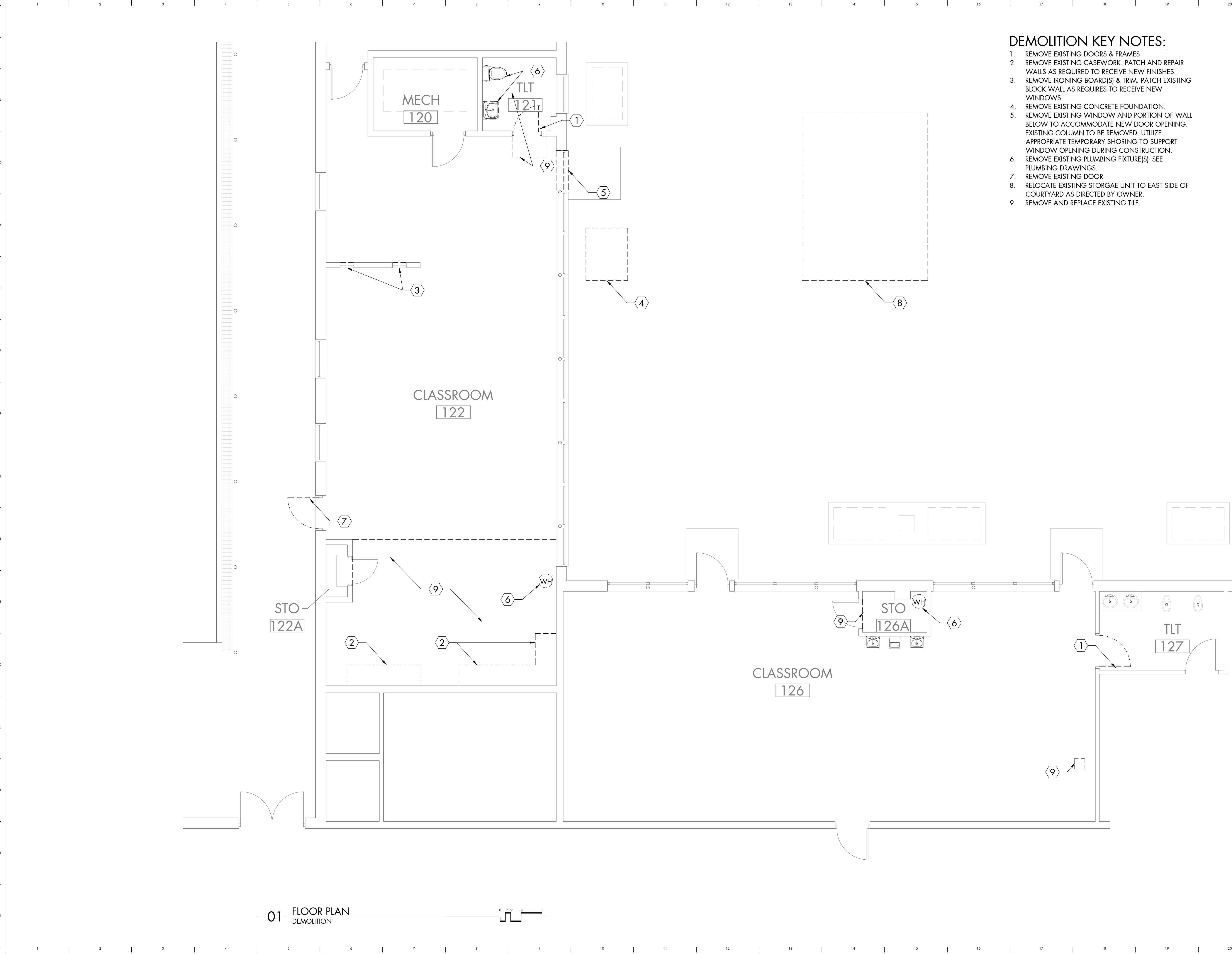
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16 APRIL 12
CONSTRUCTION DOCUMENTS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	SECTION 02751 - CEMENT CONCRETE PAVEMENT																			
A	PART 1 - GENERAL																			
	1.1 RELATED DOCUMENTS																			
	A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.																			
B	1.2 SUMMARY																			
	A. This Section includes exterior cement concrete pavement for the following:																			
	1. Bicycle Track																			
	1.3 DEFINITIONS																			
	A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, expansive hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume.																			
	1.4 SUBMITTALS																			
	A. Product Data: For each type of manufactured material and product indicated.																			
D	B. Design Mixes: For each concrete pavement mix. Include alternate mix designs when characteristics of materials, project conditions, weather, test results, or other circumstances warrant adjustments.																			
	C. Material Test Reports: From a qualified testing agency indicating and interpreting test results for compliance of the following with requirements indicated, based on comprehensive testing of current materials:																			
E	D. Material Certificates: Signed by manufacturers certifying that each of the following materials complies with requirements:																			
	1. Cementitious materials and aggregates.																			
	2. Steel reinforcement and reinforcement accessories.																			
	3. Fiber reinforcement.																			
	4. Admixtures.																			
	5. Curing compounds.																			
	6. Applied finish materials.																			
	7. Bonding agent or adhesive.																			
	8. Joint fillers.																			
	E. Minutes of preinstallation conference.																			
	1.5 QUALITY ASSURANCE																			
	A. Installer Qualifications: An experienced installer who has completed pavement work similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.																			
	B. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.																			
H	1. Manufacturer must be certified according to the National Ready Mix Concrete Association's Plant Certification Program.																			
	C. Testing Agency Qualifications: An independent testing agency, acceptable to authorities having jurisdiction, qualified according to ASTM C 1077 and ASTM E 329 to conduct the testing indicated, as documented according to ASTM E 548.																			
	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.																			
	E. ACI Publications: Comply with ACI 301, "Specification for Structural Concrete," unless modified by the requirements of the Contract Documents.																			
	F. Concrete Testing Service: Engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixes.																			
J	G. Mockups: Cast mockups of full-size sections of concrete pavement to demonstrate typical joints, surface finish, texture, color, and standard of workmanship.																			
	1. Build mockups in the location and of the size indicated or, if not indicated, as directed by Architect.																			
	2. Notify Architect seven days in advance of dates and times when mockups will be constructed.																			
	3. Obtain Architect's approval of mockups before starting construction.																			
	4. Maintain approved mockups during construction in an undisturbed condition as a standard for judging the completed pavement.																			
	5. Demolish and remove approved mockups from the site when directed by Architect.																			
	6. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.																			
L	H. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings."																			
	1. Before submitting design mixes, review concrete pavement mix design and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with concrete pavement to attend, including the following:																			
M	a. Contractor's superintendent.																			
	b. Independent testing agency responsible for concrete design mixes.																			
	c. Ready-mix concrete producer.																			
	d. Concrete subcontractor.																			
	1.6 PROJECT CONDITIONS																			
	A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.																			
N																				
O																				







- DEMOLITION KEY NOTES:**
- 1. REMOVE EXISTING DOORS & FRAMES
 - 2. REMOVE EXISTING CASEWORK. PATCH AND REPAIR WALLS AS REQUIRED TO RECEIVE NEW FINISHES.
 - 3. REMOVE IRONING BOARD(S) & TRIM. PATCH EXISTING BLOCK WALL AS REQUIRES TO RECEIVE NEW WINDOWS.
 - 4. REMOVE EXISTING CONCRETE FOUNDATION.
 - 5. REMOVE EXISTING WINDOW AND PORTION OF WALL BELOW TO ACCOMMODATE NEW DOOR OPENING. EXISTING COLUMN TO BE REMOVED. UTILIZE APPROPRIATE TEMPORARY SHORING TO SUPPORT WINDOW OPENING DURING CONSTRUCTION.
 - 6. REMOVE EXISTING PLUMBING FIXTURE(S)- SEE PLUMBING DRAWINGS.
 - 7. REMOVE EXISTING DOOR
 - 8. RELOCATE EXISTING STORGAE UNIT TO EAST SIDE OF COURTYARD AS DIRECTED BY OWNER.
 - 9. REMOVE AND REPLACE EXISTING TILE.

615
T 7 2 6 . 0 0 4 7
F 7 2 6 . 4 8 9 1
615

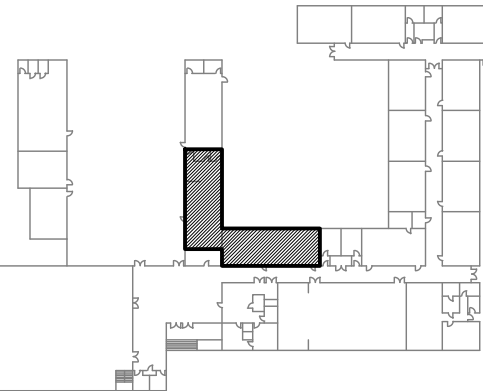
1615
s i x t e e n t h
a v e n u e s o u t h

n a s h v i l l e
t e n n e s s e e
3 7 2 1 2



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CENTRAL DAYCARE CENTER



PARIS . TENNESSEE

DEMOLITION PLAN

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D1.01
16 APRIL 12
CONSTRUCTION DOCUMENTS

CODE EVALUATIONS

STATE OF TENNESSEE:

2006 INTERNATIONAL BUILDING CODE (EXCLUDING CHAPTERS 11 & 27)
2006 INTERNATIONAL FIRE CODE
2006 INTERNATIONAL FUEL GAS CODE
2006 INTERNATIONAL MECHANICAL CODE
2006 NFPA 101 LIFE SAFETY CODE
2008 NFPA 70 NATIONAL ELECTRICAL CODE
TENNESSEE PUBLIC BUILDING ACCESSIBILITY ACT, REV. 2005
AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) 1991 W/ 1994 REVS

FEDERAL:

AMERICANS WITH DISABILITIES ACT (ADA), 28 CFR PART 36,
NONDISCRIMINATION ON BASIS OF DISABILITY BY PUBLIC
ACCOMMODATIONS AND IN COMMERCIAL FACILITIES

BUILDING OCCUPANCY CLASSIFICATION

THIS PROJECT CONSISTS OF AN INTERIOR RENOVATION OF EXISTING
DAYCARE FACILITY ADJACENT TO A BUSINESS OCCUPANCY WITHIN
THE SAME BUILDING.

IBC OCCUPANCY GROUP: I-4
SECONDARY USE AREA: EDUCATION
NFPA 101 OCCUPANCY GROUP: DAY CARE
SECONDARY USE AREA: EDUCATIONAL

REQUIRED SEPARATION OF OCCUPANCIES [IBC TABLE
508.3.3 / NFPA TABLE 6.1.14.4.1(B)]
I-4 / EDUCATION:

BUILDING CONSTRUCTION CLASSIFICATION

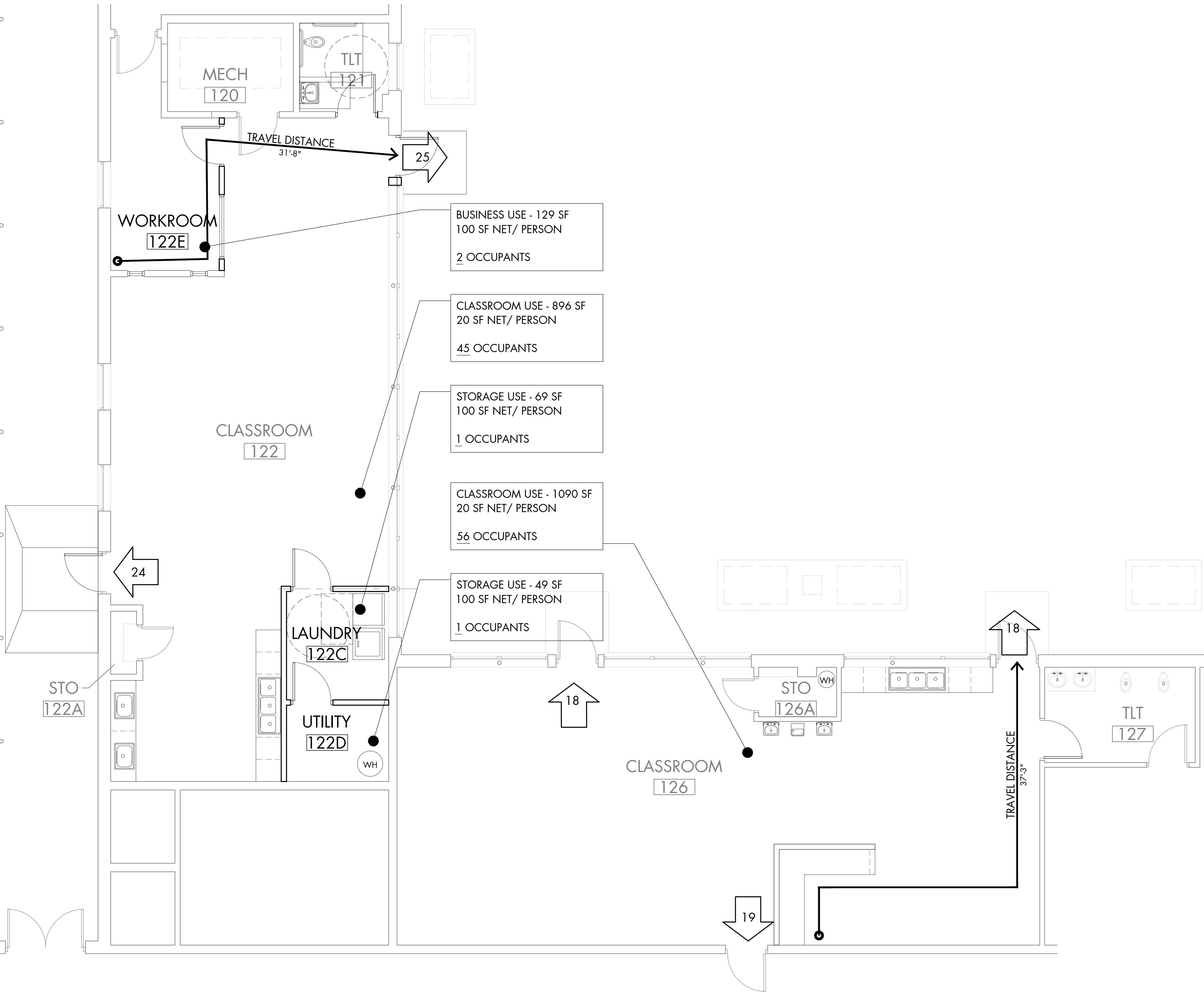
	EXISTING	NEW
NUMBER OF FLOORS:	1	NA
SQUARE FOOTAGE	32,813	NA
OVERALL HEIGHT:	~16'	NA

IBC CONSTRUCTION TYPE: IIB
STRUCTURALLY UNRESTRAINED

FIRE RESISTANCE RATINGS: per most restrictive requirements
of IBC Table 601 and NFPA 220- Table 3

	IBC TABLE 601	NFPA TABLE 3
INTERIOR BEARING WALLS SUPPORTING OTHER COLUMNS OTHER BEARING WALLS OR MORE THAN ONE FLOOR:	0	0
INTERIOR BEARING WALLS SUPPORTING ONE FLOOR ONLY:	0	0
INTERIOR BEARING WALLS SUPPORTING ROOF ONLY:	0	0
COLUMNS SUPPORTING OTHER COLUMNS OR MORE THAN ONE FLOOR:	0	0
COLUMNS SUPPORTING ONE FLOOR ONLY:	0	0
COLUMNS SUPPORTING ROOF ONLY:	0	0
BEAMS GIRDERS AND TRUSSES SUPPORTING MORE THAN ONE FLOOR:	0	0
BEAMS GIRDERS AND TRUSSES SUPPORTING ONE FLOOR ONLY:	0	0
BEAMS GIRDERS AND TRUSSES SUPPORTING ROOF ONLY:	0	0
FLOOR AND CEILING ASSEMBLIES:	0	0
ROOF AND CEILING ASSEMBLIES:	0	0

EXTERIOR BEARING WALLS (TABLE 600): INTERIOR RENOVATION ONLY. NOT APPLICABLE
EXTERIOR NON BEARING WALLS (TABLE 600): INTERIOR RENOVATION ONLY. NOT APPLICABLE



01 FLOOR PLAN
NEW CONSTRUCTION

615
T 7 2 6 . 0 0 4 7
F 7 2 6 . 4 8 9 1
615

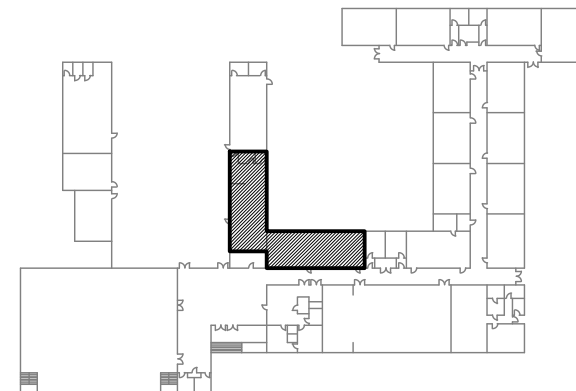
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s i x t e e n t h
a v e n u e s o u t h

n a s h v i l l e
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3 7 2 1 2



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PARIS, TENNESSEE

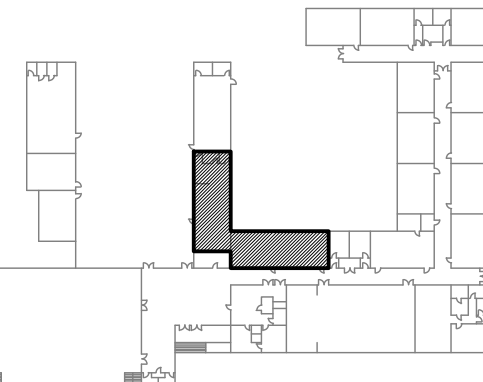
LIFE SAFETY PLAN

Sheet Number
LS.01
16 APRIL 12
CONSTRUCTION DOCUMENTS



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FLOOR PLAN

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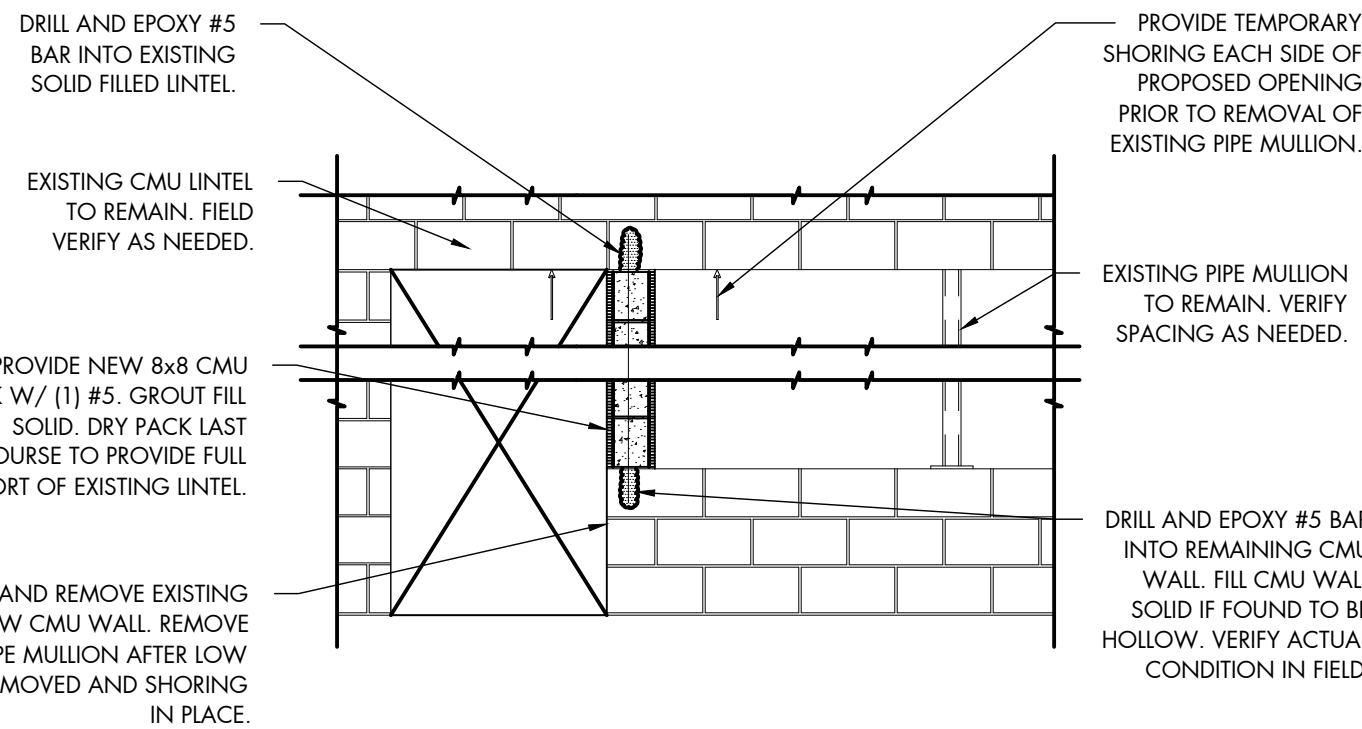
DOOR SCHEDULE															
MARK	DOOR								RATING (MINUTES)	FRAME				FOOTNOTES	
	WIDTH	HEIGHT	THICKNESS **	TYPE	PAIR	FACE MATERIAL	CONSTRUCTION	GLAZING		UNDERCUT	TYPE	MATERIAL	HEAD DETAIL		JAMB DETAIL
120	EX	EX	EX	EX	-	PT	HM	-		-	EX	EX	EX	EX	EXISTING DOOR, PAINT DOOR & FRAME
121	3'-0"	3'-6"	1 3/4"	C	-	PT	HM	-		-	F-1	HM	H-1	J-1	REPLACE EXISTING DOOR & FRAME
122	3'-0"	7'-0"	1 3/4"	A	-	PT	HM	-		-	EX	EX	EX	EX	REPLACE EXISTING DOOR IN EXISTING FRAME
122A	EX	EX	EX	EX	-	PT	HM	-		-	EX	EX	EX	EX	EXISTING DOOR, PAINT DOOR & FRAME
122B	3'-0"	7'-0"	1 3/4"	B	-	PT	HM	5/8" IT		-	F-2	HM	H-3/4	J-3/4	
122C	3'-0"	7'-0"	1 3/4"	A	-	PT	HM	-		-	F-1	HM	H-2	J-2	
122D	3'-0"	7'-0"	1 3/4"	A	-	PT	HM	-		-	F-1	HM	H-2	J-2	
122E	3'-0"	7'-0"	1 3/4"	A	-	PT	HM	-		-	F-1	HM	H-2	J-2	
126A	EX	EX	EX	EX	-	PT	HM	-		-	EX	EX	EX	EX	EXISTING DOOR, PAINT DOOR & FRAME
126B	EX	EX	EX	EX	-	PT	HM	-		-	EX	EX	EX	EX	EXISTING DOOR, PAINT DOOR & FRAME
126C	EX	EX	EX	EX	-	PT	HM	-		-	EX	EX	EX	EX	EXISTING DOOR, PAINT DOOR & FRAME
123D	EX	EX	EX	EX	-	PT	HM	-		-	EX	EX	EX	EX	EXISTING DOOR, PAINT DOOR & FRAME
127	3'-0"	3'-6"	1 3/4"	C	-	PT	HM	-		-	F-1	HM	H-2	J-2	REPLACE EXISTING DOOR & FRAME

FINISH LEGEND

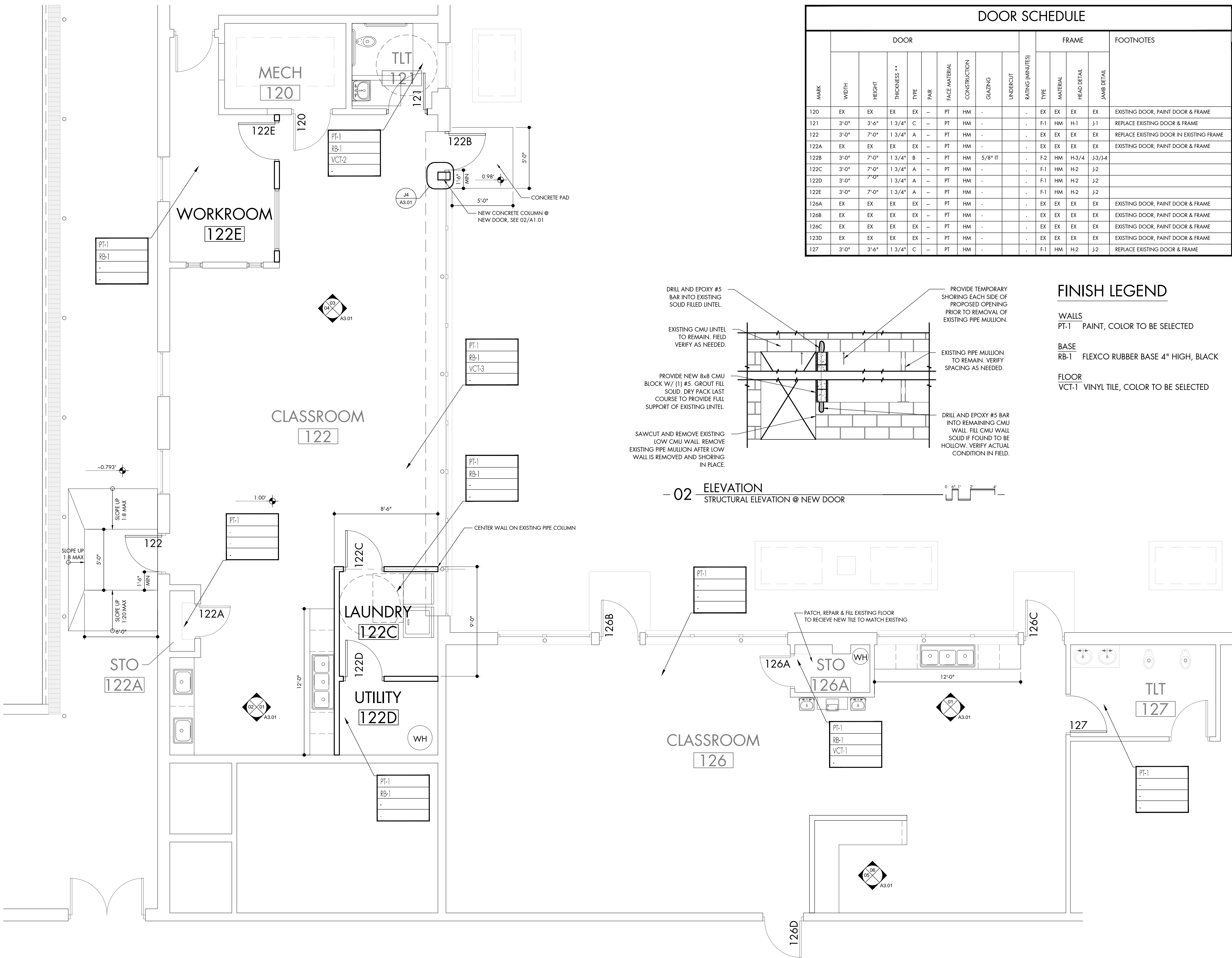
WALLS
PT-1 PAINT, COLOR TO BE SELECTED

BASE
RB-1 FLEXCO RUBBER BASE 4" HIGH, BLACK

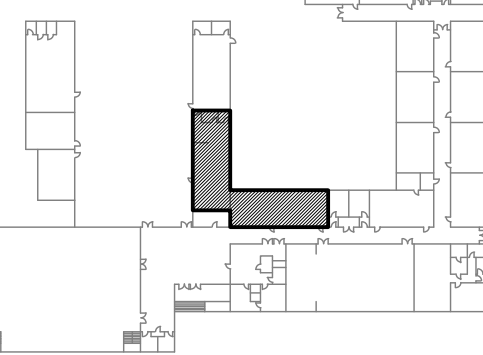
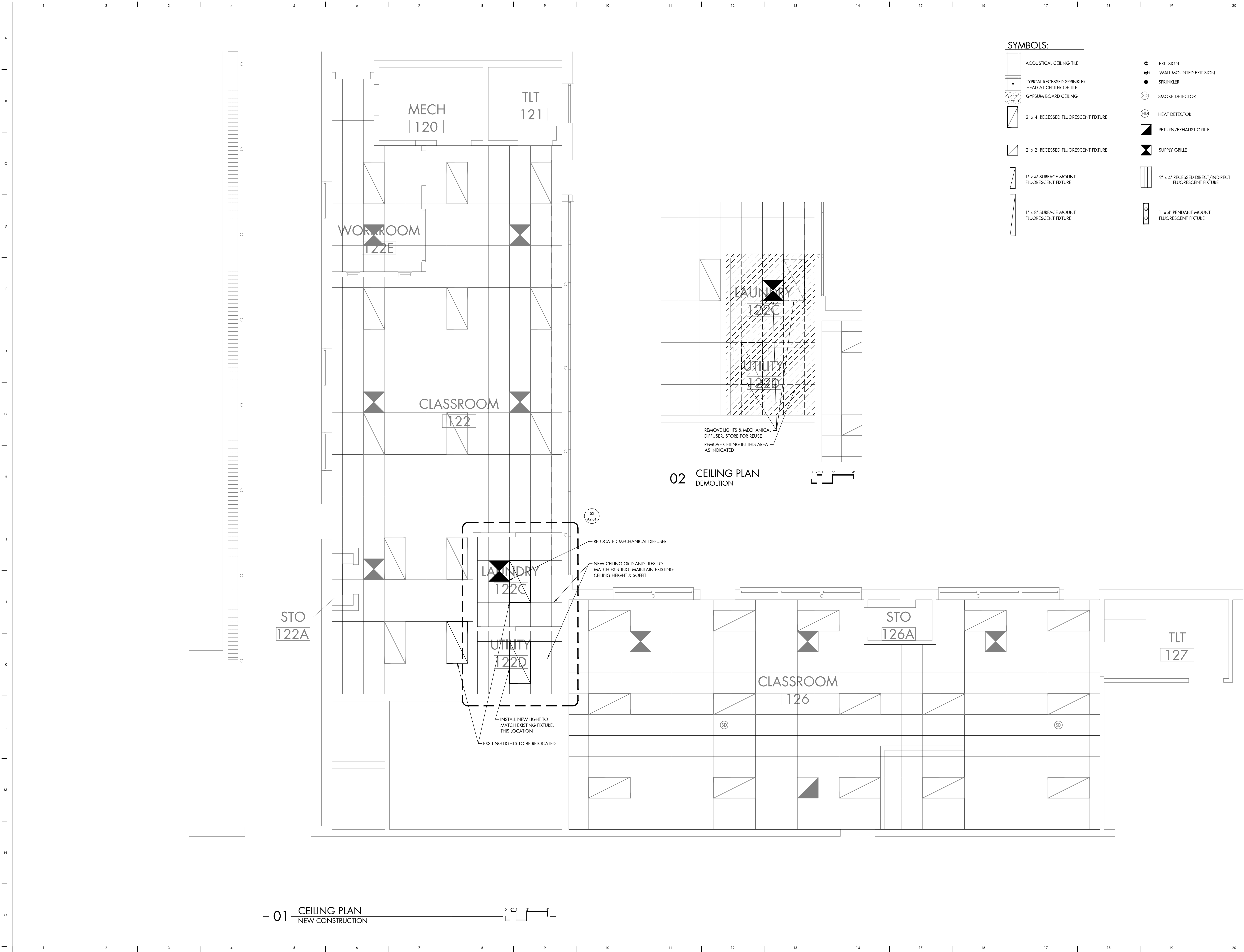
FLOOR
VCT-1 VINYL TILE, COLOR TO BE SELECTED



- 02 - ELEVATION
STRUCTURAL ELEVATION @ NEW DOOR



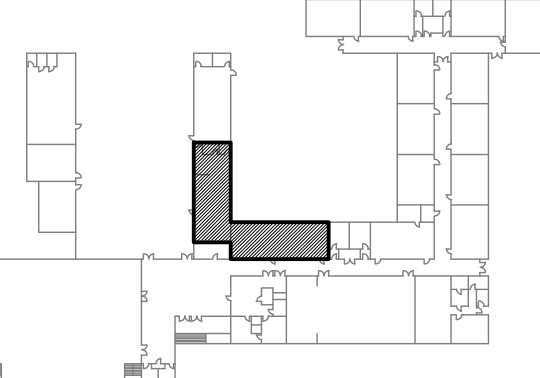
- 01 - FLOOR PLAN
NEW CONSTRUCTION





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CENTRAL DAYCARE CENTER



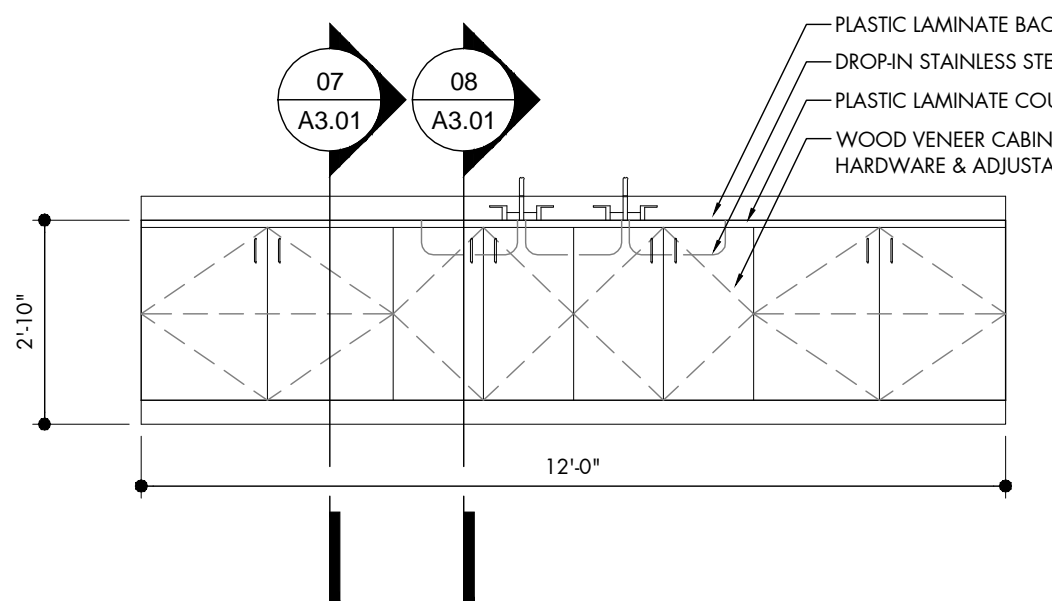
PARIS, TENNESSEE

CASEWORK
ELEVATIONS & DETAILS

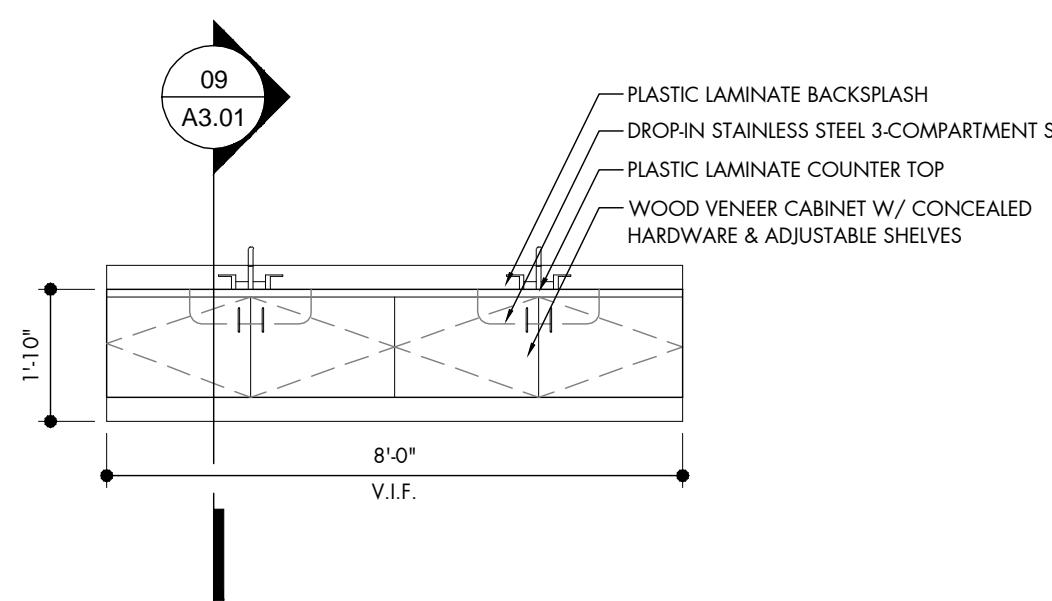
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A3.01

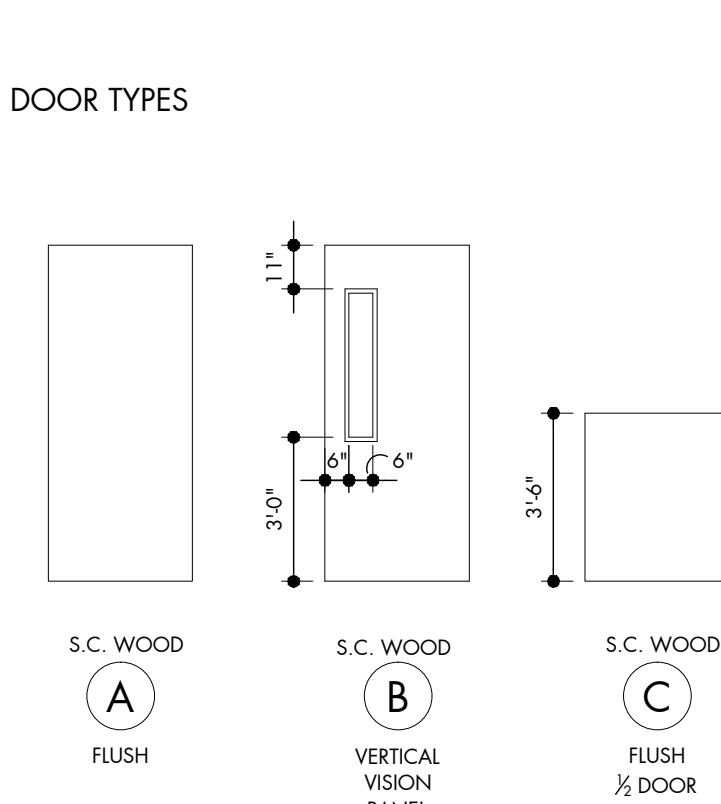
16 APRIL 12
CONSTRUCTION DOCUMENTS



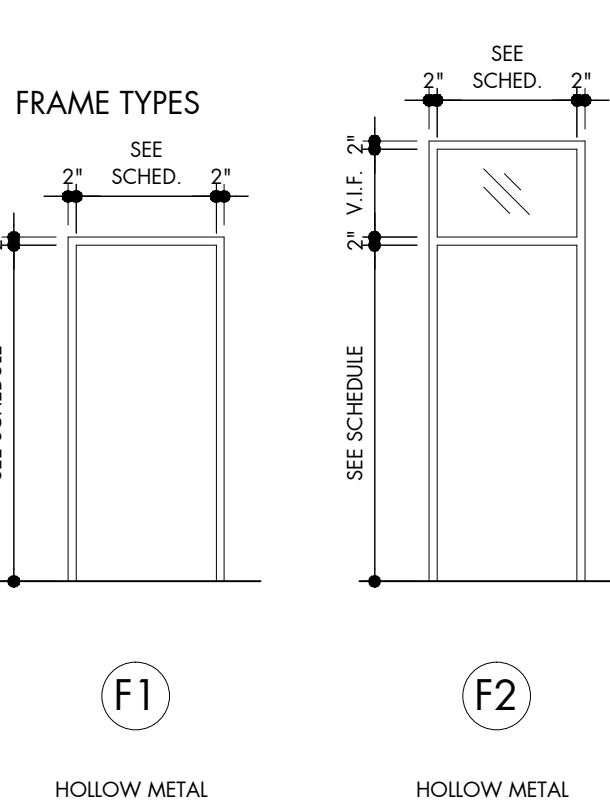
01 CASEWORK ELEVATION
3-COMPARTMENT SINK



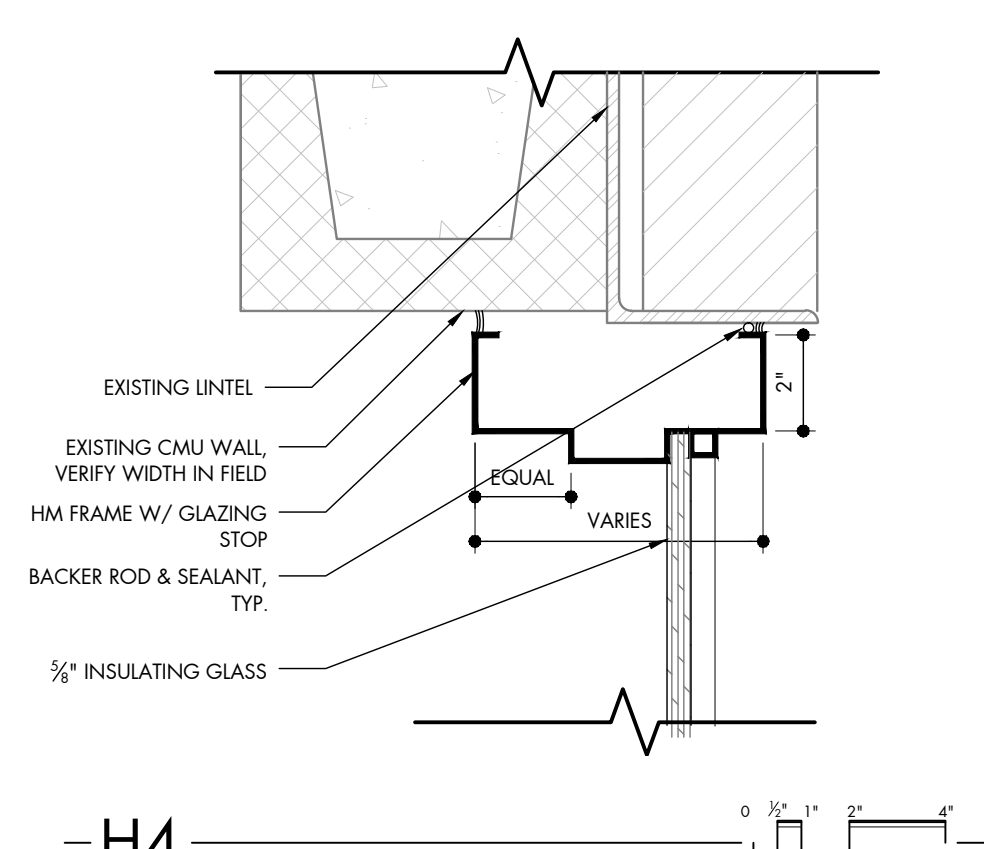
02 CASEWORK ELEVATION
CHILDREN SINK



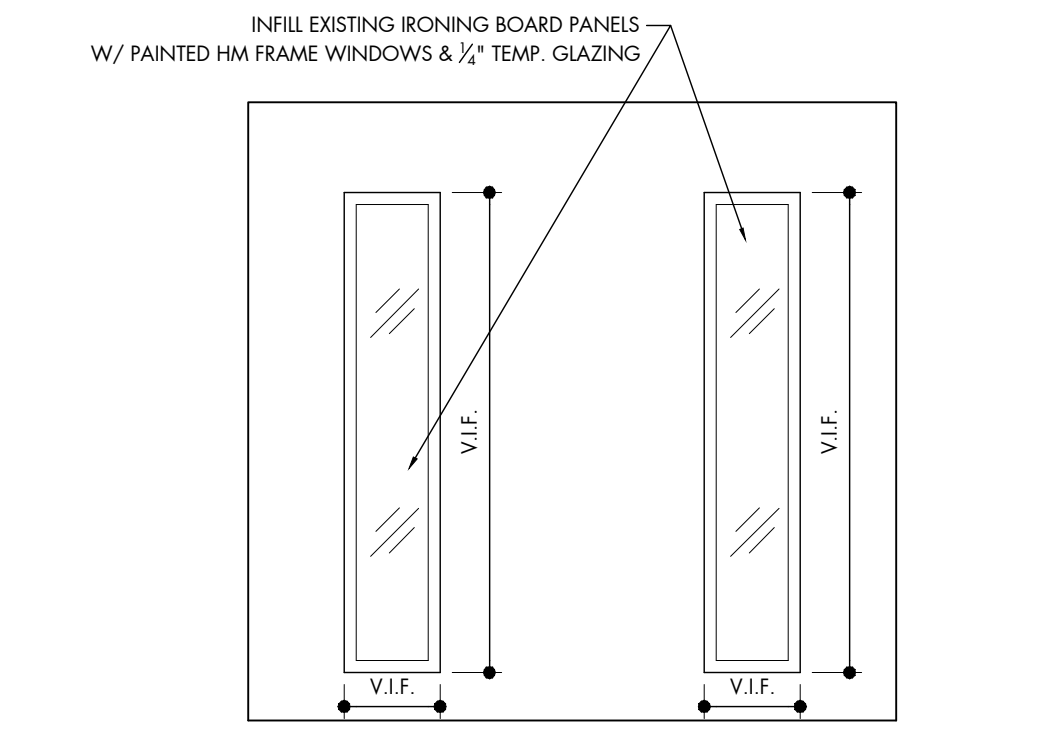
DOOR TYPES



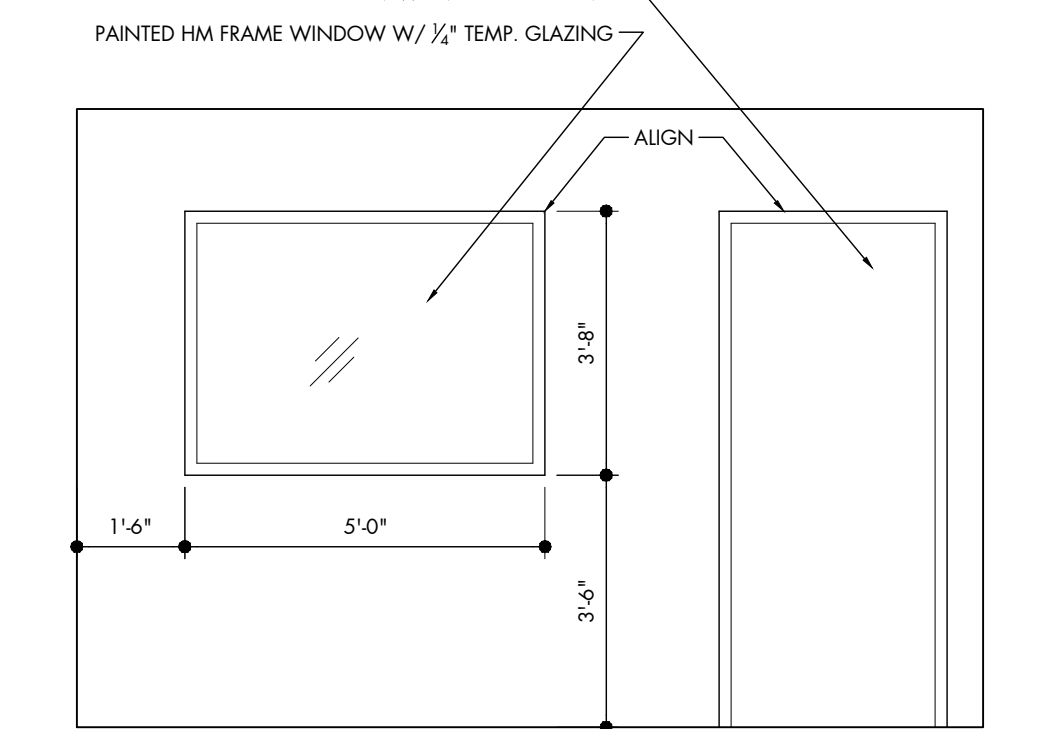
FRAME TYPES



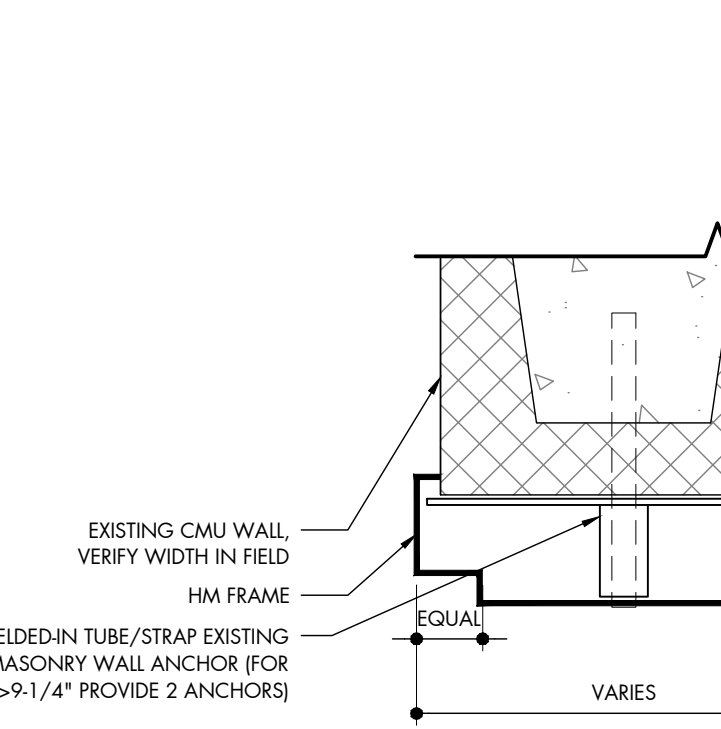
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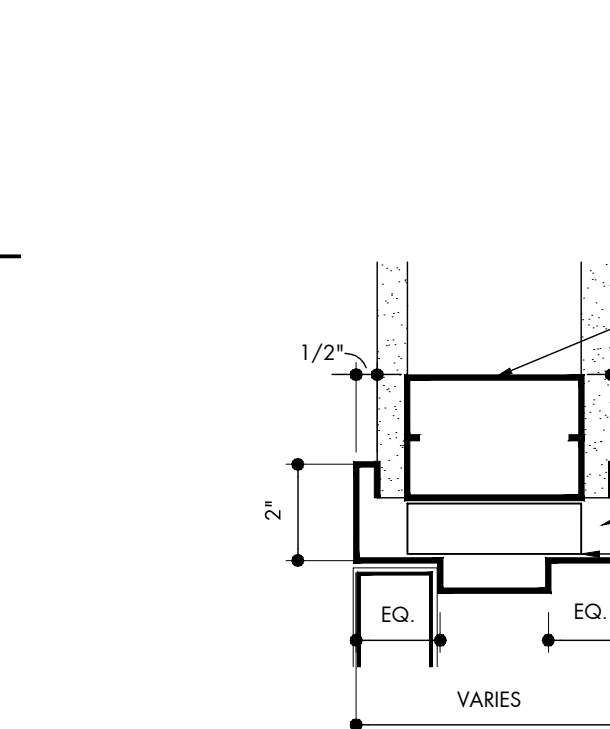
03 INTERIOR ELEVATION
TEACHER WORKROOM



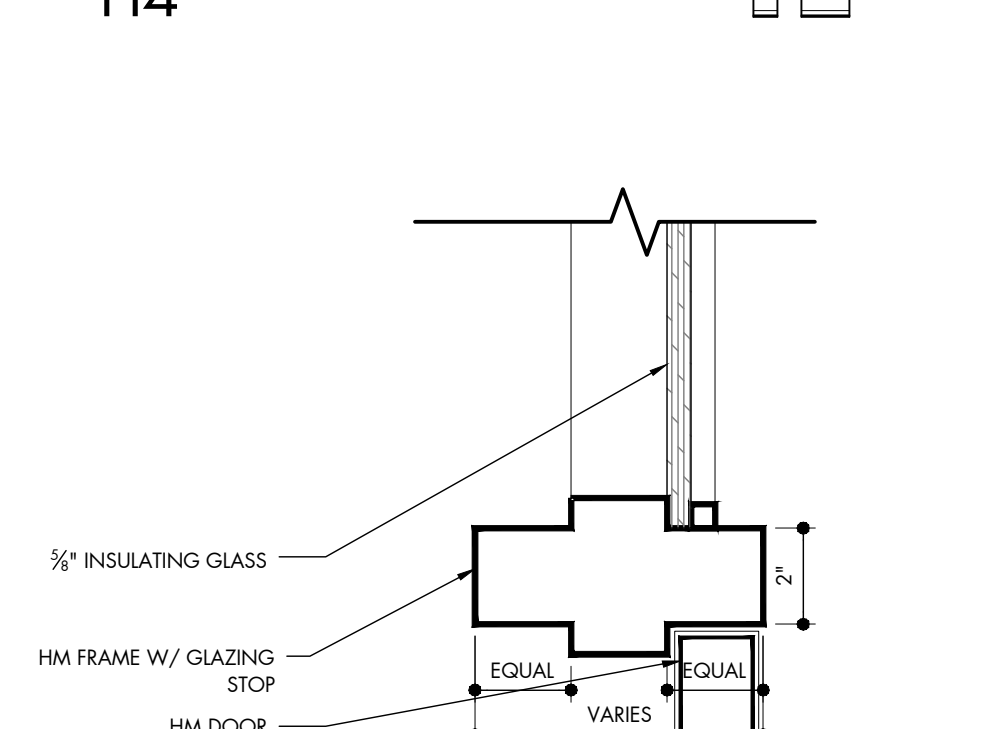
04 INTERIOR ELEVATION
TEACHER WORKROOM



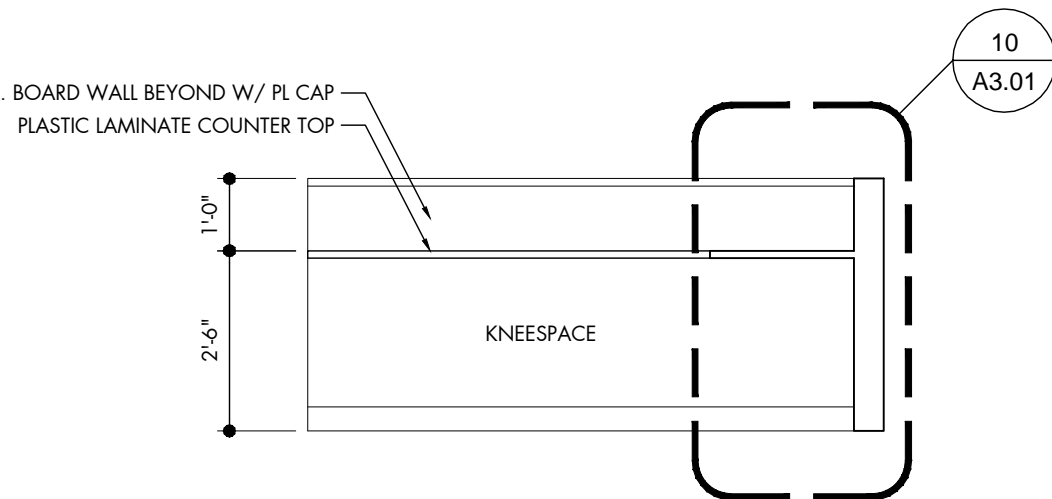
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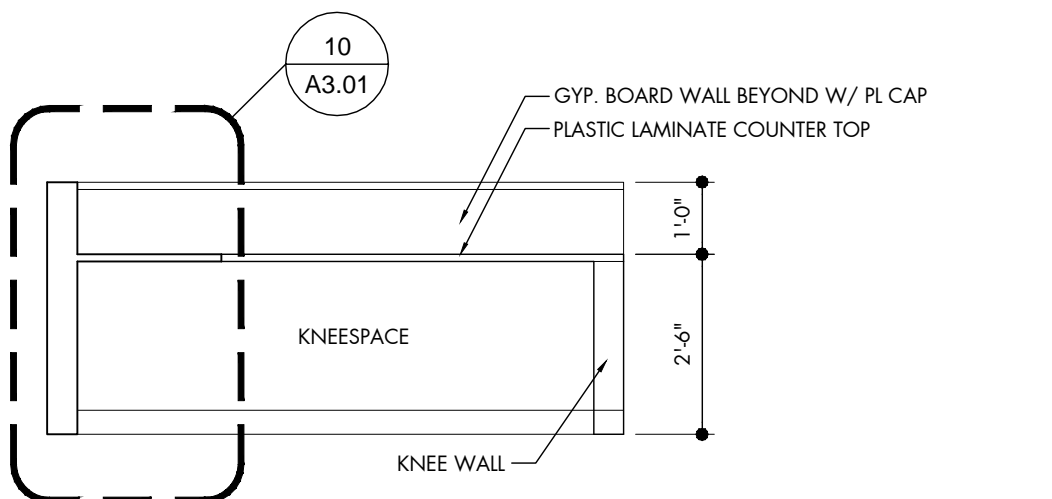
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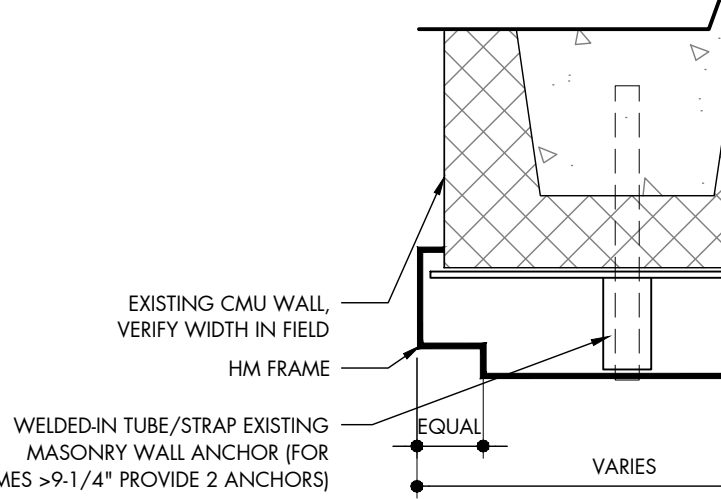
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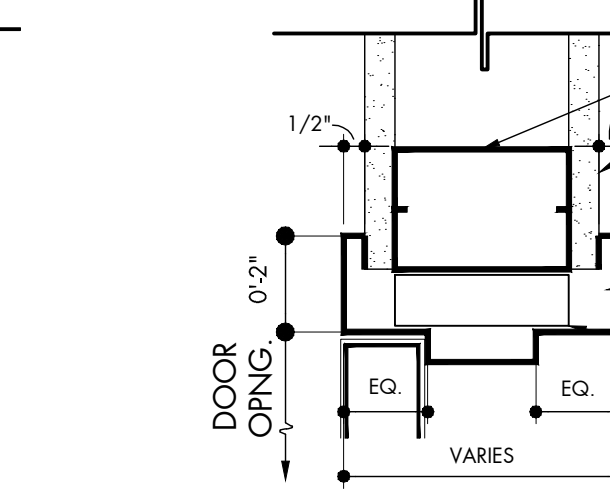
05 CASEWORK ELEVATION
TEACHER WORKSTATION



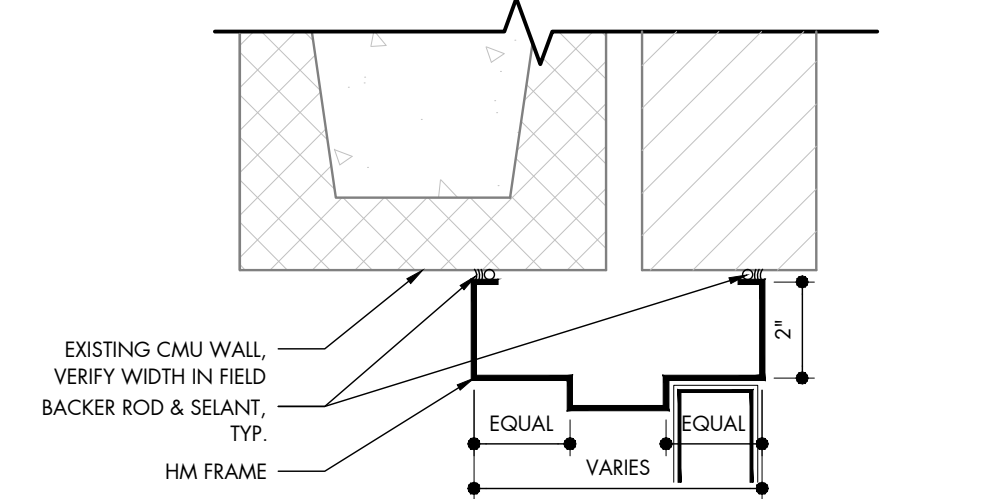
06 CASEWORK ELEVATION
TEACHER WORKSTATION



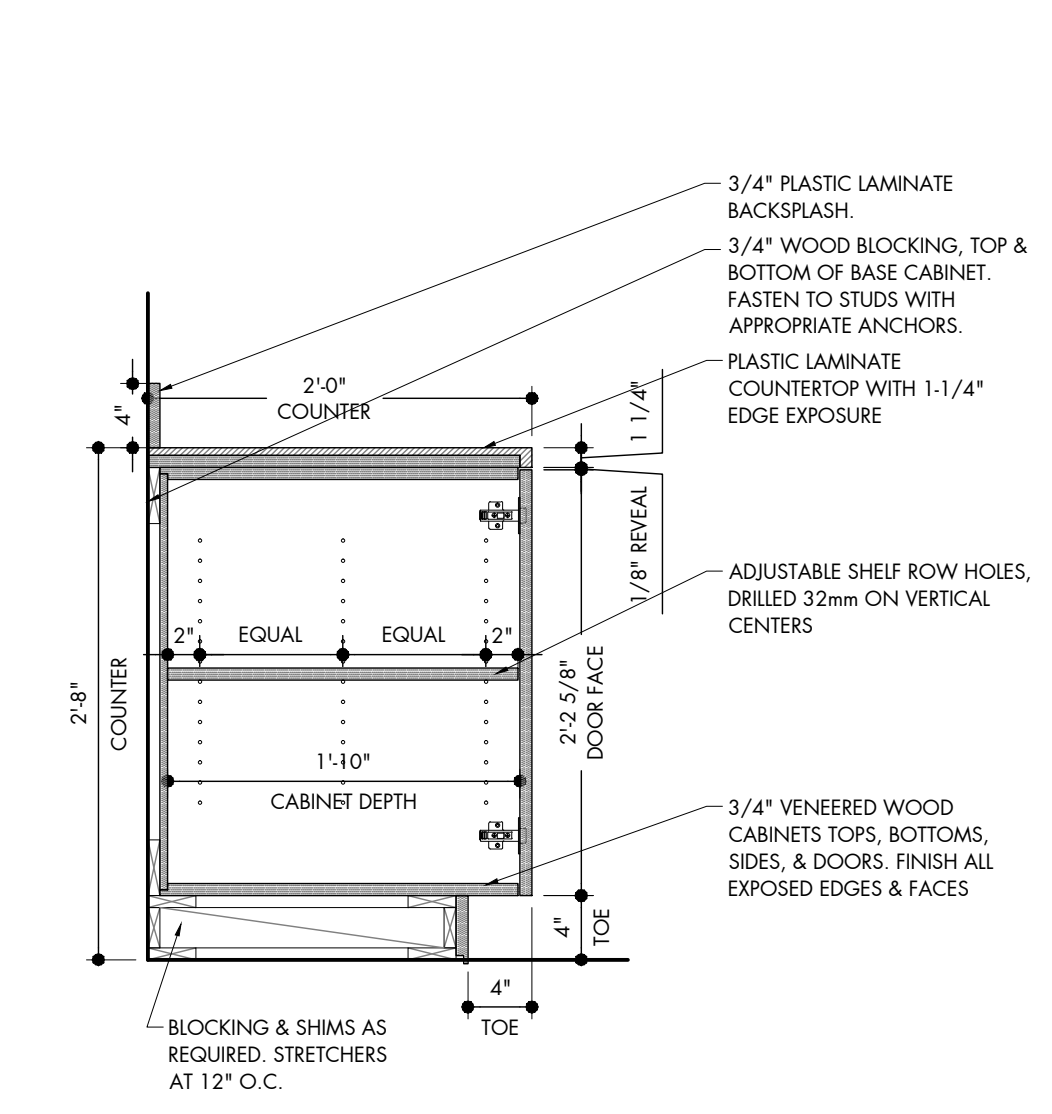
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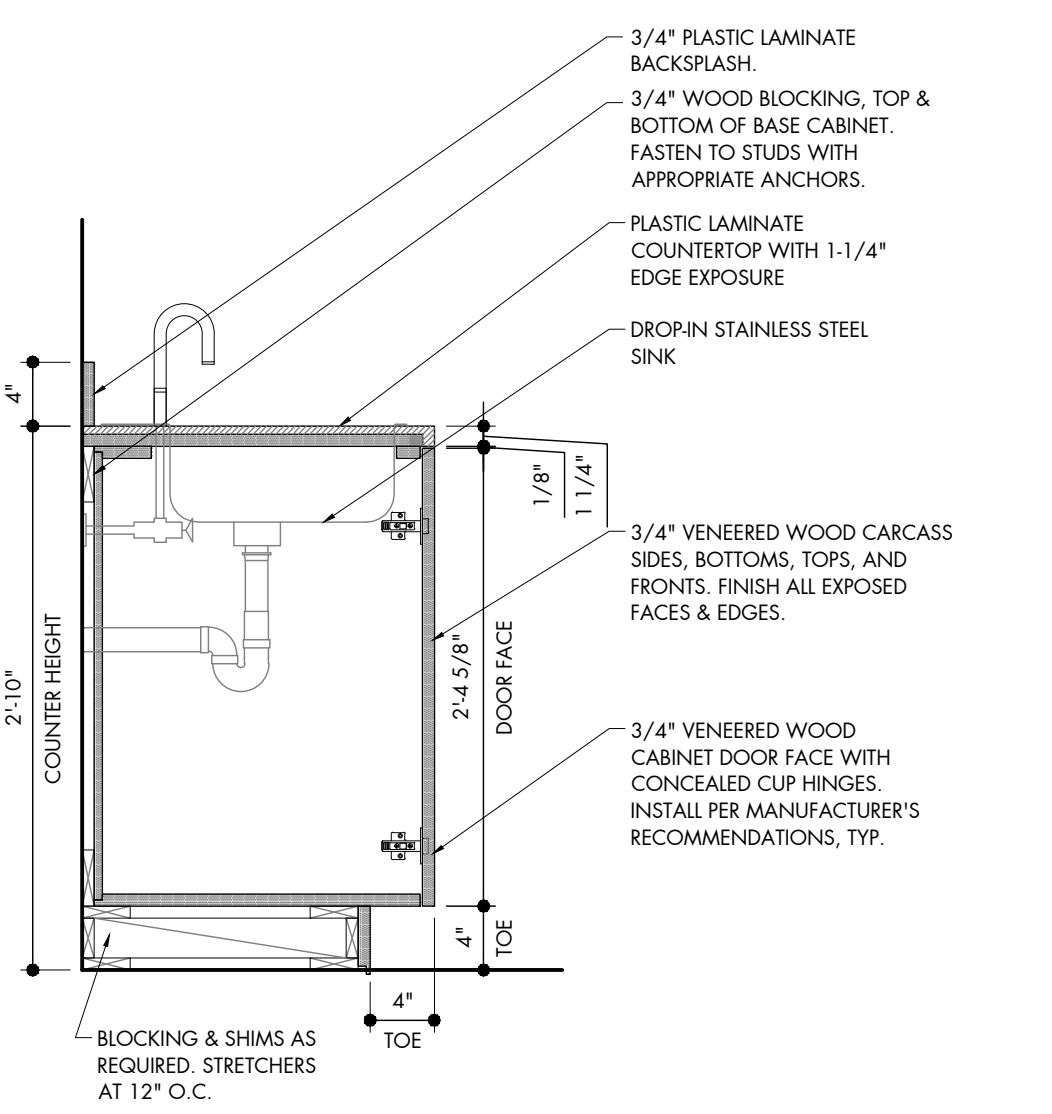
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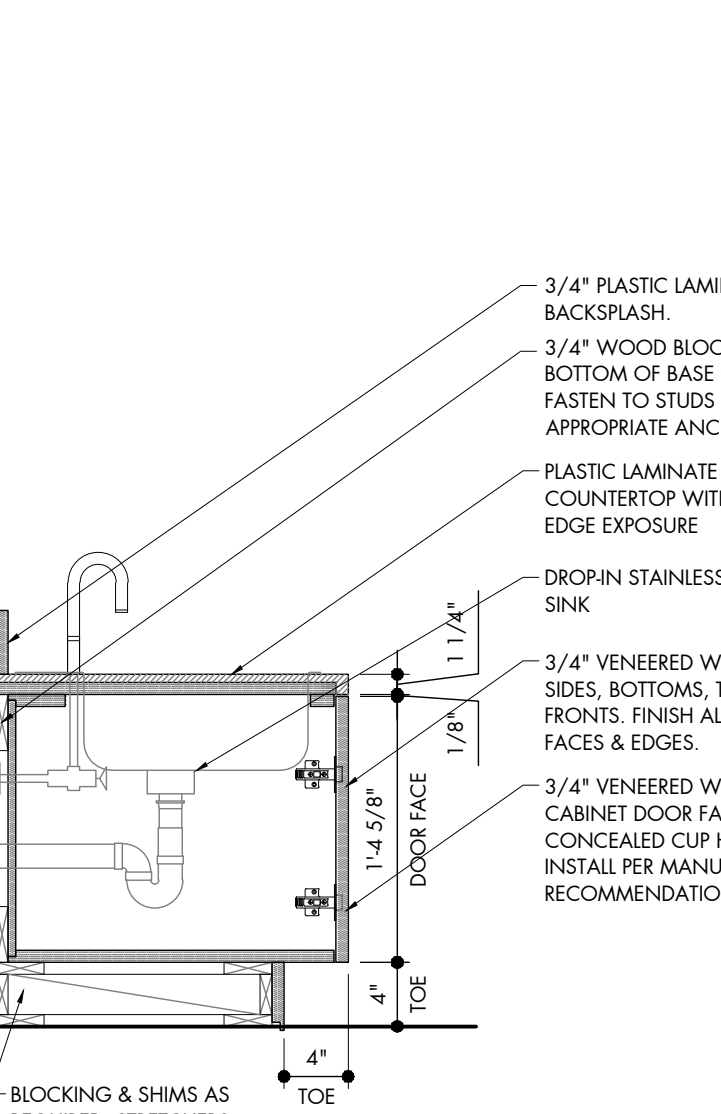
J3



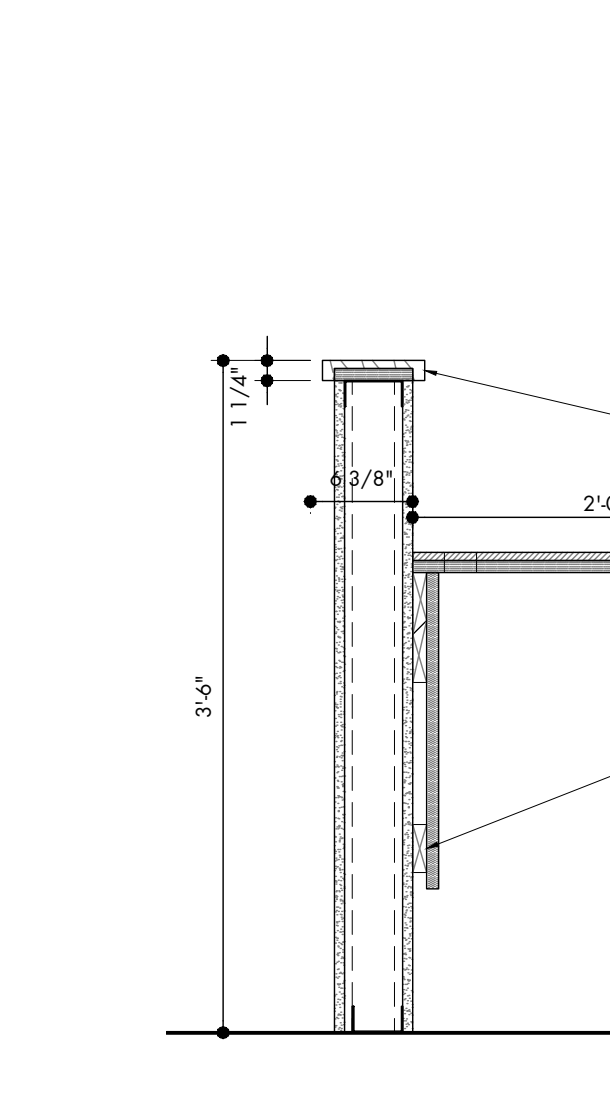
07 CASEWORK SECTION
BASE CABINET



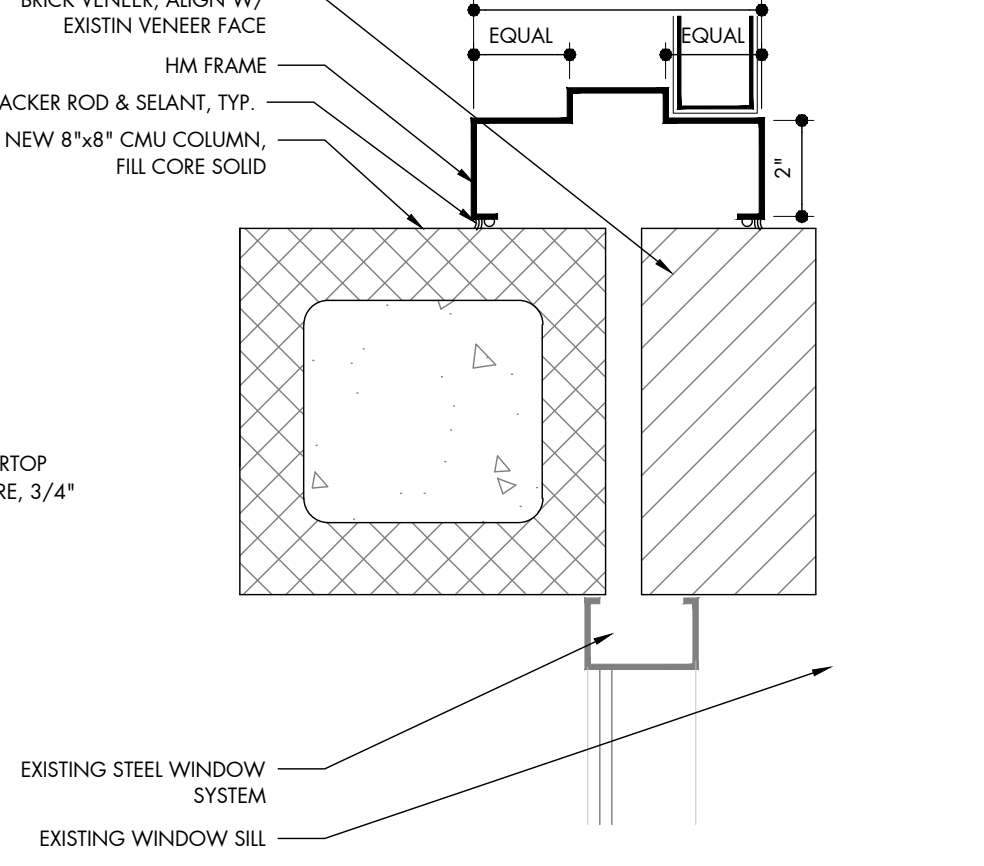
08 CASEWORK SECTION
BASE CABINET





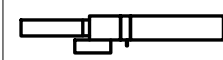










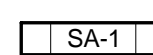
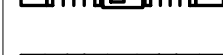

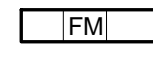

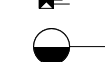
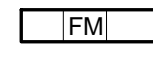


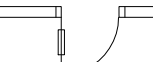
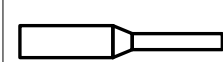
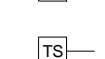


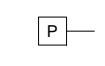

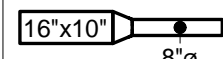
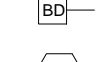

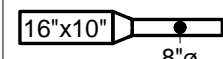
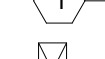
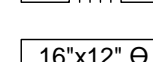
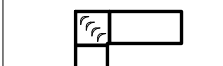

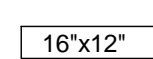

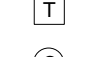
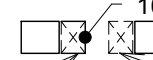





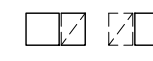


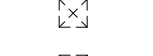
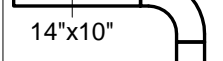

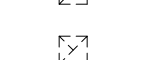
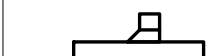


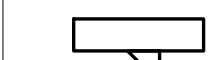

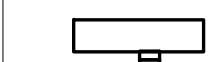
09 CASEWORK SECTION
BASE CABINET

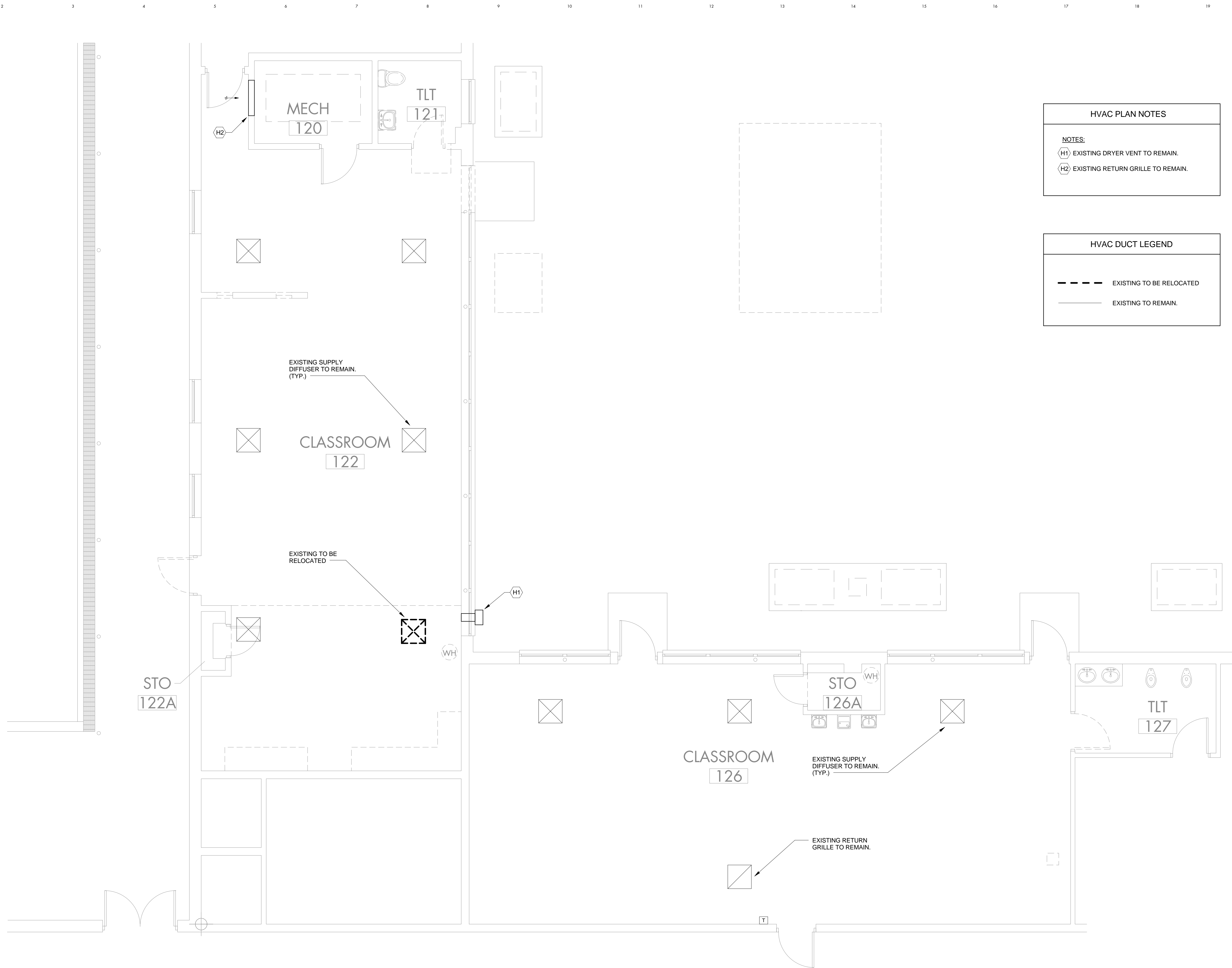


10 CASEWORK SECTION
BASE CABINET



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HVAC SYMBOL LEGEND				HVAC ABBREVIATIONS		HVAC GENERAL NOTES	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)		-FIRE DAMPER (WITH ACCESS PANEL)		-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME	BHP	-BRAKE HORSEPOWER
	-CEILING RETURN		-FIRE & SMOKE DAMPER (WITH ACCESS PANEL)		-UNIT HEATER, VERTICAL MOUNT	BTU	-BRITISH THERMAL UNIT
	-CEILING EXHAUST		-MOTOR OPERATED CONTROL DAMPER (MOD)		-UNIT HEATER, HORIZONTAL MOUNT	CL	-CENTER LINE
	-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)		-MANUAL BALANCING DAMPER		-FAN COIL UNIT	CFM	-CUBIC FEET PER MINUTE
	-VERTICAL MOUNT, SIDEWALL REGISTER/GRILLE		-MANUAL BALANCING DAMPER		-INLINE CENTRIFUGAL FAN	CV	-CONSTANT AIR VOLUME
	-DETAIL REFERENCE: TOP-DETAIL#, BOTTOM- DRAWING# SHOWN ON		-SOUND ATTENUATOR		-CHANGE OF ELEVATION	Δ P	-CHANGE IN PRESSURE
	-DUCT SMOKE DETECTOR		-AIR FLOW MEASURING STATION		-CHANGE IN TEMPERATURE	Δ T	-CHANGE IN TEMPERATURE
	-DEMO TO POINT INDICATED		-DOOR GRILLE		-FLEXIBLE DUCT	CU	-CONDENSING UNIT
	-CONNECT TO POINT INDICATED		-UNDERCUT DOOR		-TRANSITION, CONCENTRIC	DDC	-DIRECT DIGITAL CONTROLS
	-MOTORIZED DAMPER		-ACCESS DOORS, VERTICAL OR HORIZONTAL		-TRANSITION, ECCENTRIC	DN	-DOWN
	-TEMPERATURE SENSOR		-FLAT OVAL DUCT		-TRANSITION, SQUARE TO ROUND	EAT	-ENTERING AIR TEMPERATURE
	-PRESSURE SENSOR		-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN		-SQUARE THROAT ELBOW W/ TURNING VANES	EF	-EXHAUST FAN
	-BACKDRAFT DAMPER		-DUCT ELBOW, SUPPLY, FIRST DIMENSION INDICATES SIDE TO WHICH ARROW IS POINTING UP W/IN FLOOR		-RADIUS ELBOW	ESP	-EXTERNAL STATIC PRESSURE
	-SHEET NOTE CALLOUT		-DUCT ELBOW, EXHAUST		-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF	ET	-EXPANSION TANK
	-CEILING MOUNTED ACCESS DOOR		-RECTANGULAR DUCT SECTION UP, SUPPLY AIR		-SQUARE THROAT TEE	EWT	-ENTERING WATER TEMPERATURE
	-REFRIGERANT MONITOR		-RECTANGULAR DUCT SECTION UP, RETURN AIR		-RADIUS TEE	FCU	-FAN COIL UNIT
	-DIGITAL THERMOSTAT		-RECTANGULAR DUCT SECTION UP, EXHAUST AIR		-RECTANGLE/ROUND TAKE-OFF	FD	-FIRE DAMPER
	-CO2 MONITOR		-ROUND DUCT SECTION UP		-STANDARD BRANCH TAKE-OFF	FSD	-FIRE SMOKE DAMPER
	-PRESSURE MONITOR		-FLAT OVAL DUCT SECTION UP		-SPIN-IN TAKE-OFF	FF	-FINAL FILTERS
			-THERMOMETER		-DISPERSION GRID FOR STEAM HUMIDIFIER	FLA	-FULL LOAD AMPS
						FPM	-FEET PER MINUTE
						GPM	-GALLONS PER MINUTE
						KW	-KILOWATT
						LAT	-LEAVING AIR TEMPERATURE
						LWT	-LEAVING WATER TEMPERATURE
						LD	-LINEAR DIFFUSER
						MBH	-THOUSAND BTUs PER HOUR
						MCA	-MINIMUM CIRCUIT AMPS
						MOCP	-MAXIMUM OVER CURRENT PROTECTION
						MOD	-MOTOR OPERATED CONTROL DAMPER
						NC	-NORMALLY CLOSED
						NO	-NORMALLY OPEN
						NTS	-NOT TO SCALE
						OA	-OUTSIDE AIR
						OAL	-OUTSIDE AIR LOUVER
						PRV	-PRESSURE REDUCING VALVE
						PSI	-POUNDS PER SQUARE INCH
						PSIG	-PSI GAUGE
						PVC	-POLYVINYL CHLORIDE PIPE
						RA	-RETURN AIR
						RPM	-REVOLUTIONS PER MINUTE
						SA	-SUPPLY AIR
						SP	-STATIC PRESSURE
						TSP	-TOTAL STATIC PRESSURE
						UH	-UNIT HEATER
						UNO	-UNLESS NOTED OTHERWISE
						V/PH	-VOLTS/PHASE
						VAV	-VARIABLE AIR VOLUME
						VFD	-VARIABLE FREQUENCY DRIVE



HVAC PLAN NOTES

NOTES:

(H1) EXISTING DRYER VENT TO REMAIN.

(H2) EXISTING RETURN GRILLE TO REMAIN.

HVAC DUCT LEGEND

--- EXISTING TO BE RELOCATED

— EXISTING TO REMAIN.

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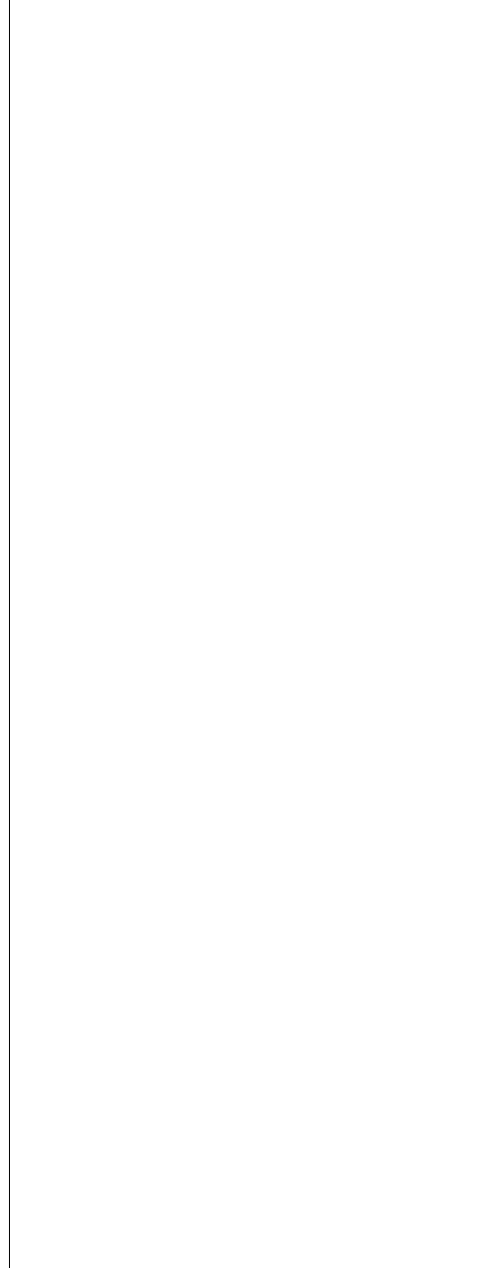
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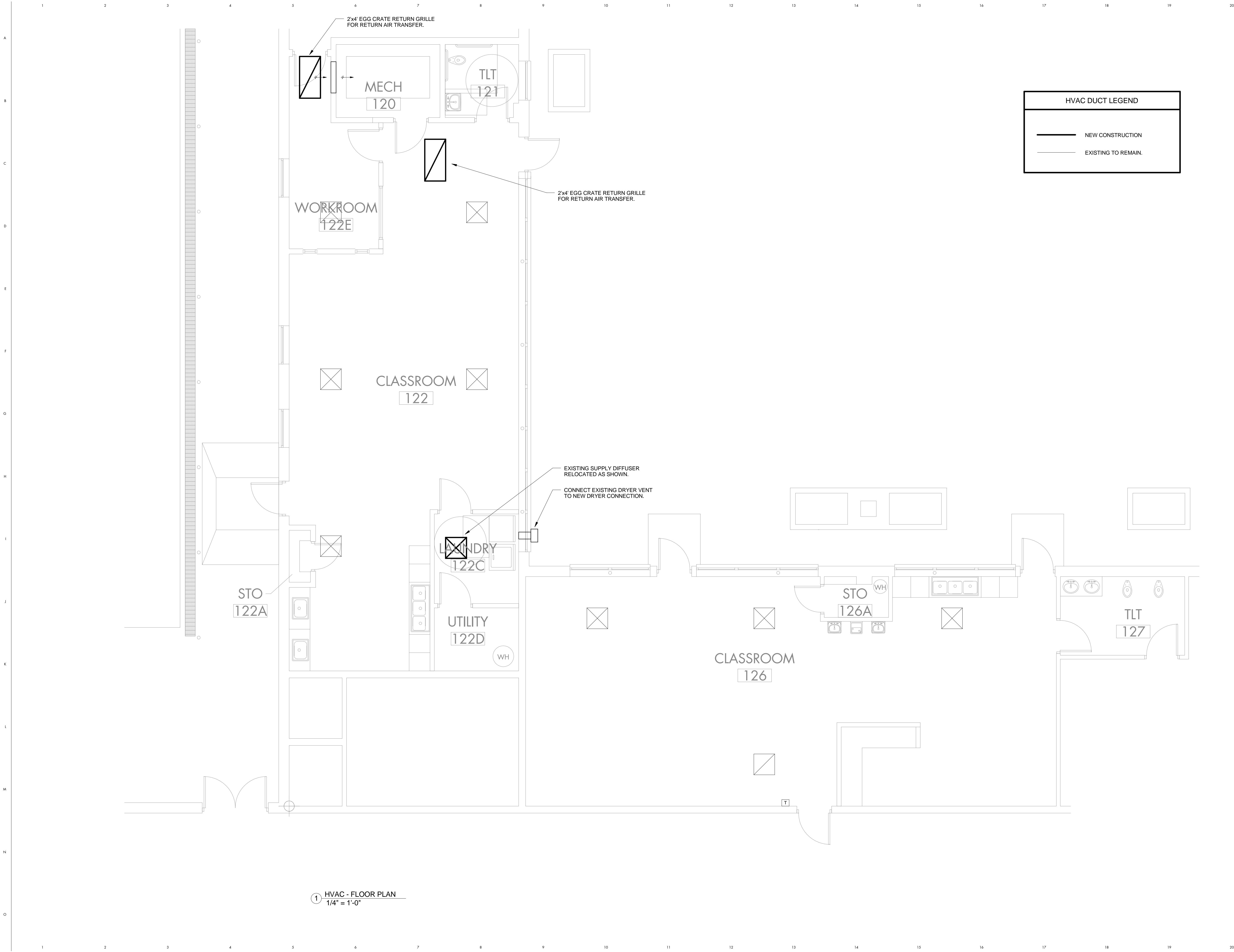


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HVAC - DEMOLITION
PLAN
Sheet Number
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1 HVAC - DEMOLITION PLAN
1/4" = 1'-0"



1 HVAC - FLOOR PLAN
1/4" = 1'-0"

HVAC DUCT LEGEND	
	NEW CONSTRUCTION
	EXISTING TO REMAIN.

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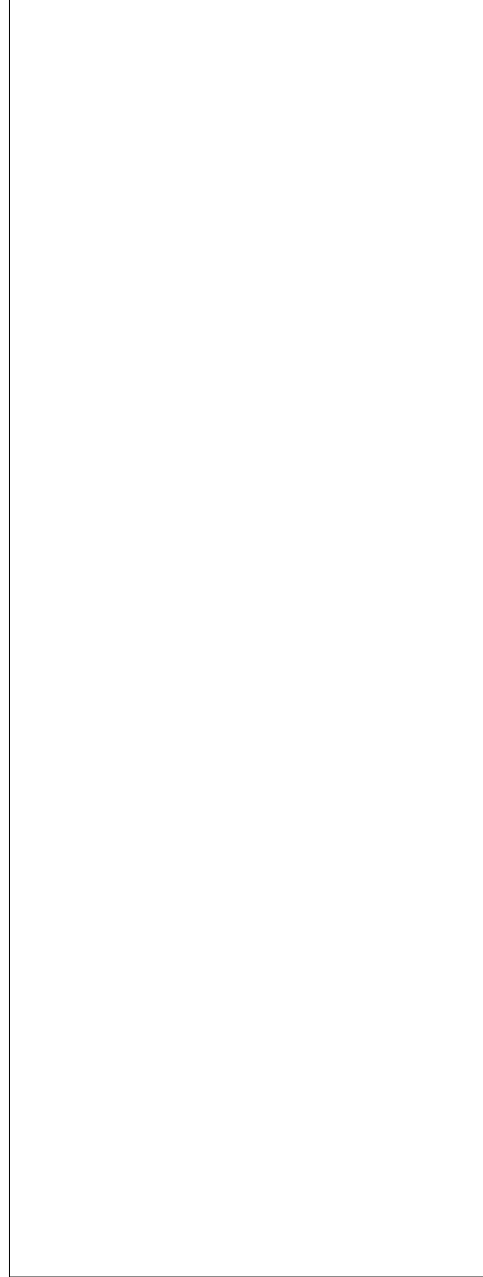
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HVAC - FLOOR PLAN

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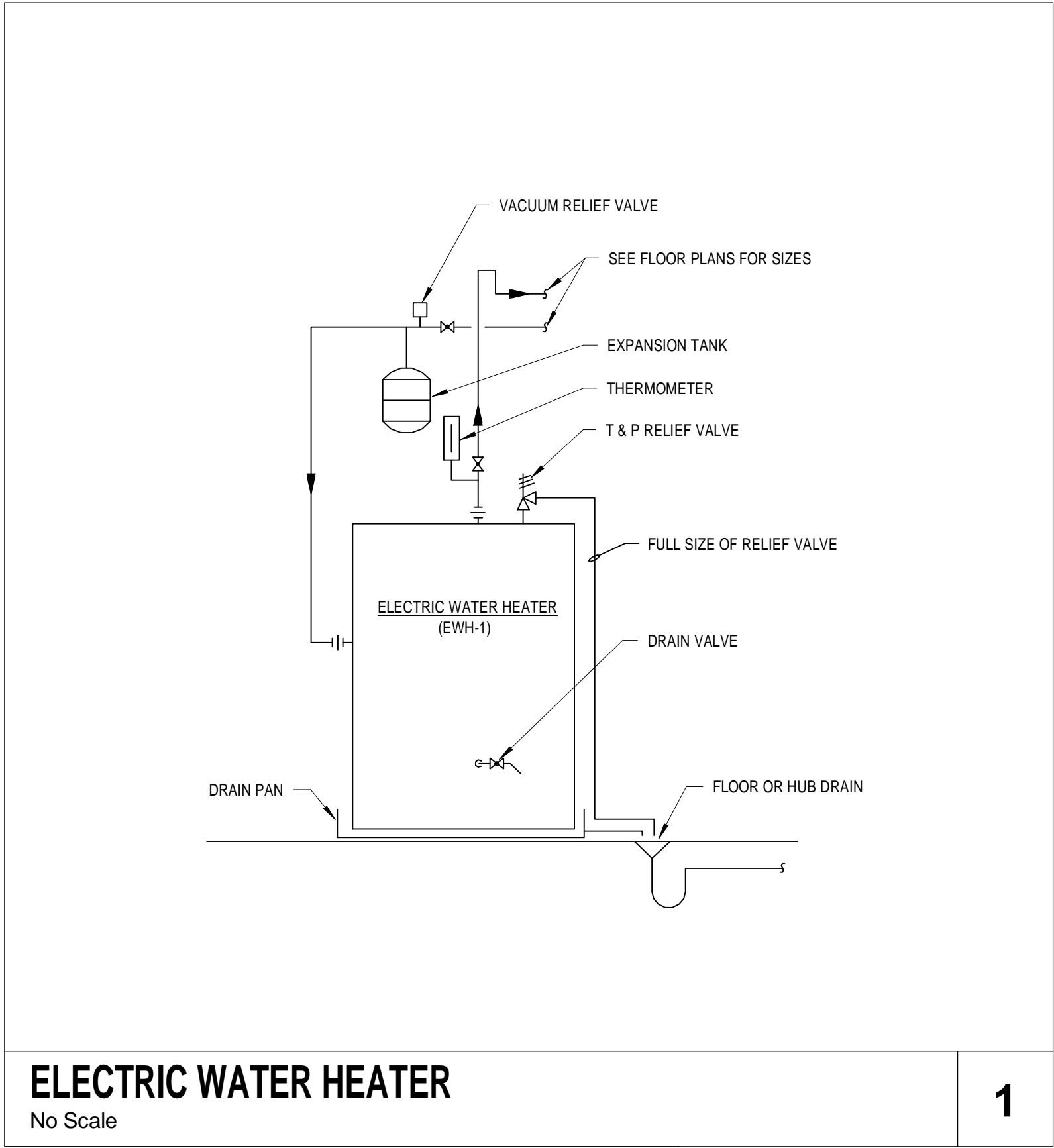
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PLUMBING FIXTURE SCHEDULE																
MARK	DESCRIPTION	FIXTURE		FAUCET		FLUSH VALVE		SEAT		CARRIER		STRAINER/TRAP		SUPPLIES		NOTES
		MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	MANUFACTURER	MODEL	
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 E36ABCP	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 E2805-SJKACP
S-1	SINK - SINGLE COMP., SELF-RIMMING, STAINLESS STEEL, 22" x 19" x 7-1/2" DP., 8" CENTERS, SINGLE LEVER, 10" SWING SPOUT	ELKAY	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



PLUMBING ABBREVIATIONS		GENERAL NOTES
SYMBOL	DESCRIPTION	<ol style="list-style-type: none">REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.FLASH AND COUNTER-FLASH ROOF PENETRATIONS.SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN. (SLOPE NOT TO EXCEED 1/4" PER FOOT).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.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.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.
AFF	- ABOVE FINISH FLOOR	
CFH	- CUBIC FEET PER HOUR	
CO	- CLEANOUT	
CONT	- CONTINUATION	
CW	- DOMESTIC COLD WATER	
DN	- DOWN	
DWG	- DRAWING	
EXIST	- EXISTING	
°F	- DEGREE FAHRENHEIT	
FCO	- FLOOR CLEANOUT	
GPH	- GALLONS PER HOUR	
GPM	- GALLONS PER MINUTE	
HB	- HOSE BIBB	
HW	- DOMESTIC HOT WATER	
HWR	- DOMESTIC HOT WATER RECIRCULATING	
IE	- INVERT ELEVATION	
KW	- KILOWATT	
LBS	- POUNDS	
NTS	- NOT TO SCALE	
OD	- OUTSIDE DIAMETER	
PRV	- PRESSURE REDUCING VALVE	
PSI	- POUNDS PER SQUARE INCH	
PVC	- POLYVINYL CHLORIDE PIPE	
S	- SANITARY SEWER	
SH	- SHEET	
V	- VENT	
VTR	- VENT THRU ROOF	
WCO	- WALL CLEANOUT	
WTR	- WATER	
RO	- REVERSE OSMOSIS	

PLUMBING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	- DOMESTIC COLD WATER PIPING
	- DOMESTIC HOT WATER PIPING (120 DEG. F.)
	- SANITARY SEWER PIPING
	- VENT PIPING
	- SHUTOFF VALVE
	- HOSE BIBB OR WALL HYDRANT
	- CONNECTION, TOP
	- CONNECTION, BOTTOM
	- ELBOW, TURNED UP/DOWN
	- 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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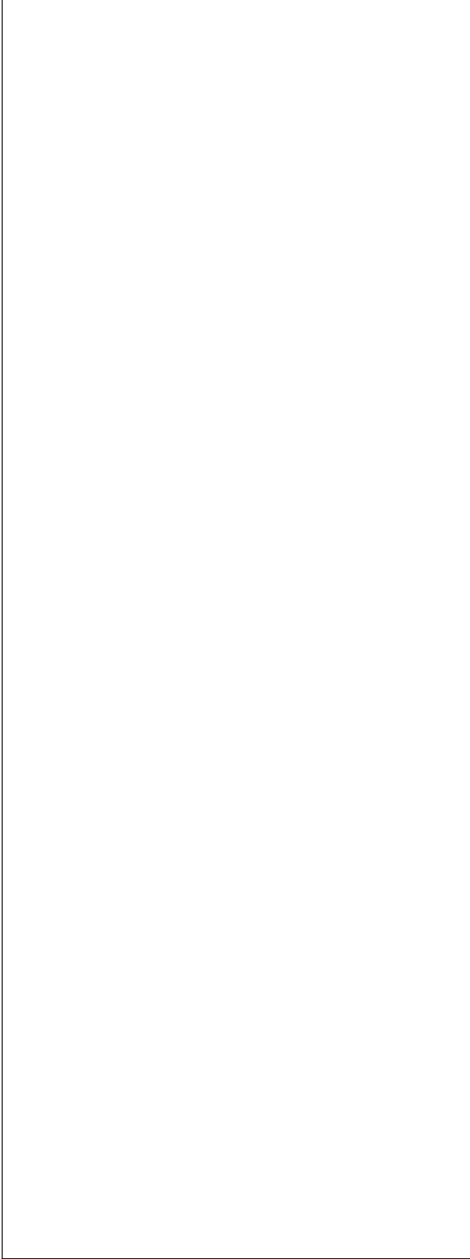
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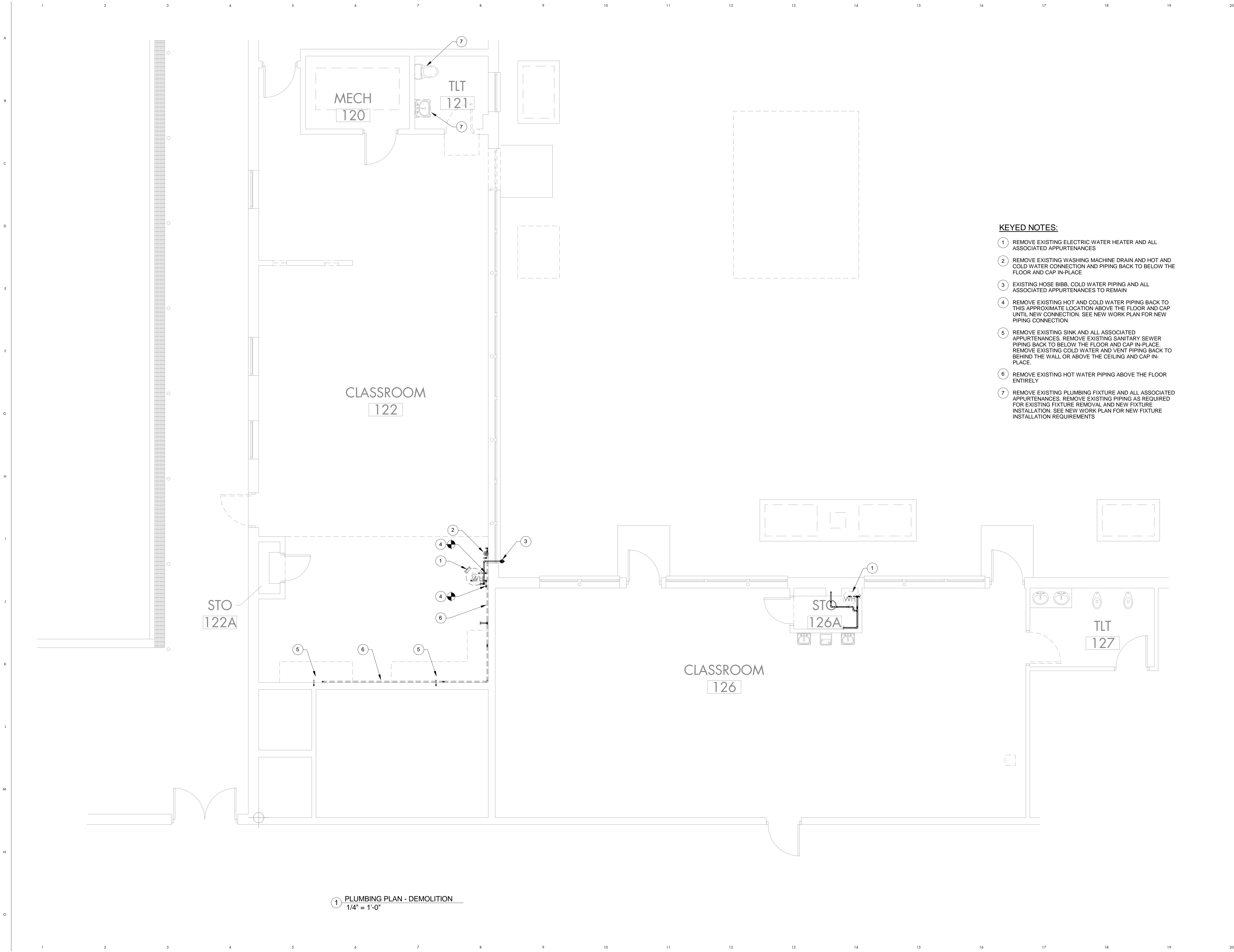
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PLUMBING
SCHEDULES & NOTES

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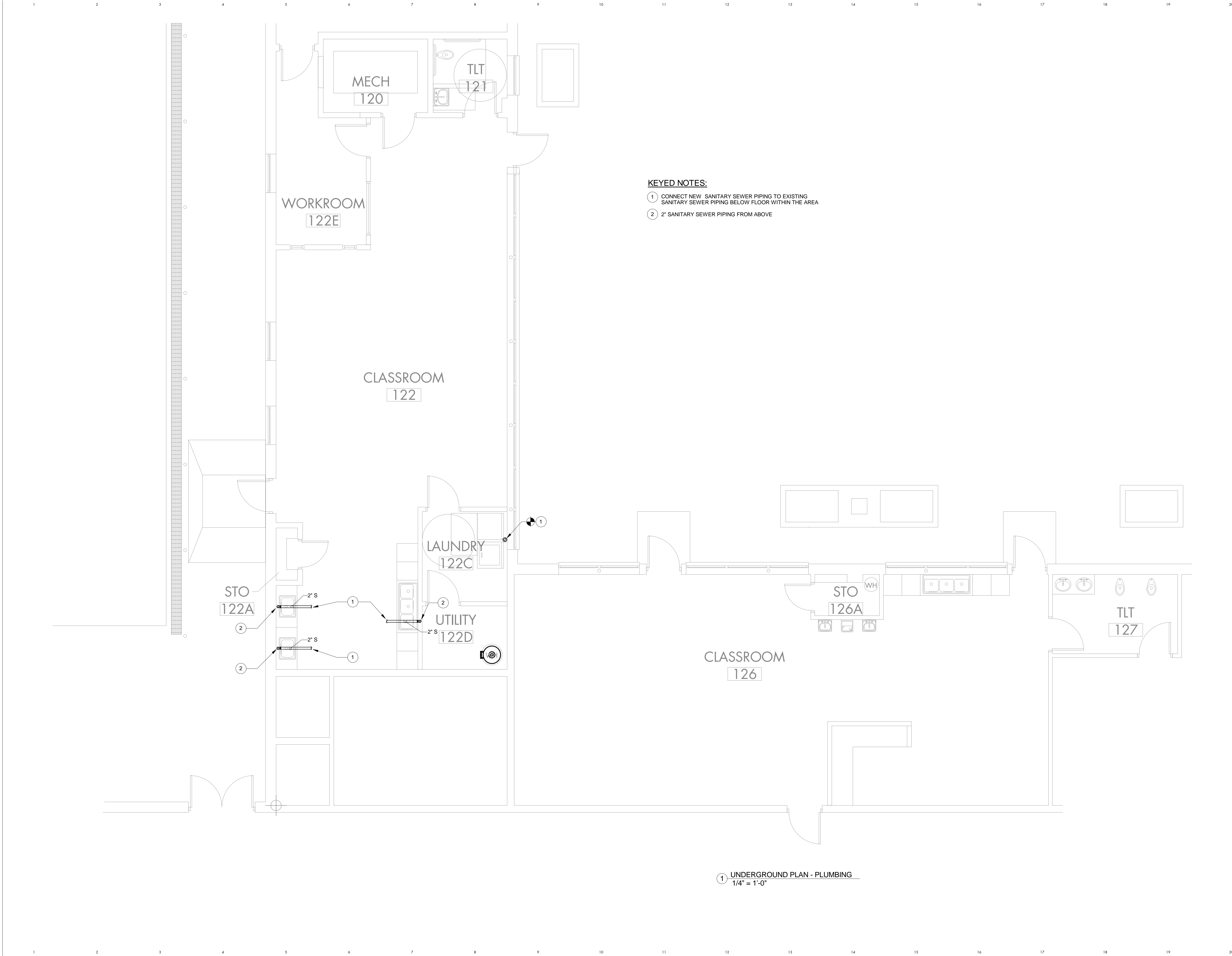
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PLUMBING PLAN -
DEMOLITION

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- KEYED NOTES:
- 1 CONNECT NEW SANITARY SEWER PIPING TO EXISTING SANITARY SEWER PIPING BELOW FLOOR WITHIN THE AREA
 - 2 2" SANITARY SEWER PIPING FROM ABOVE

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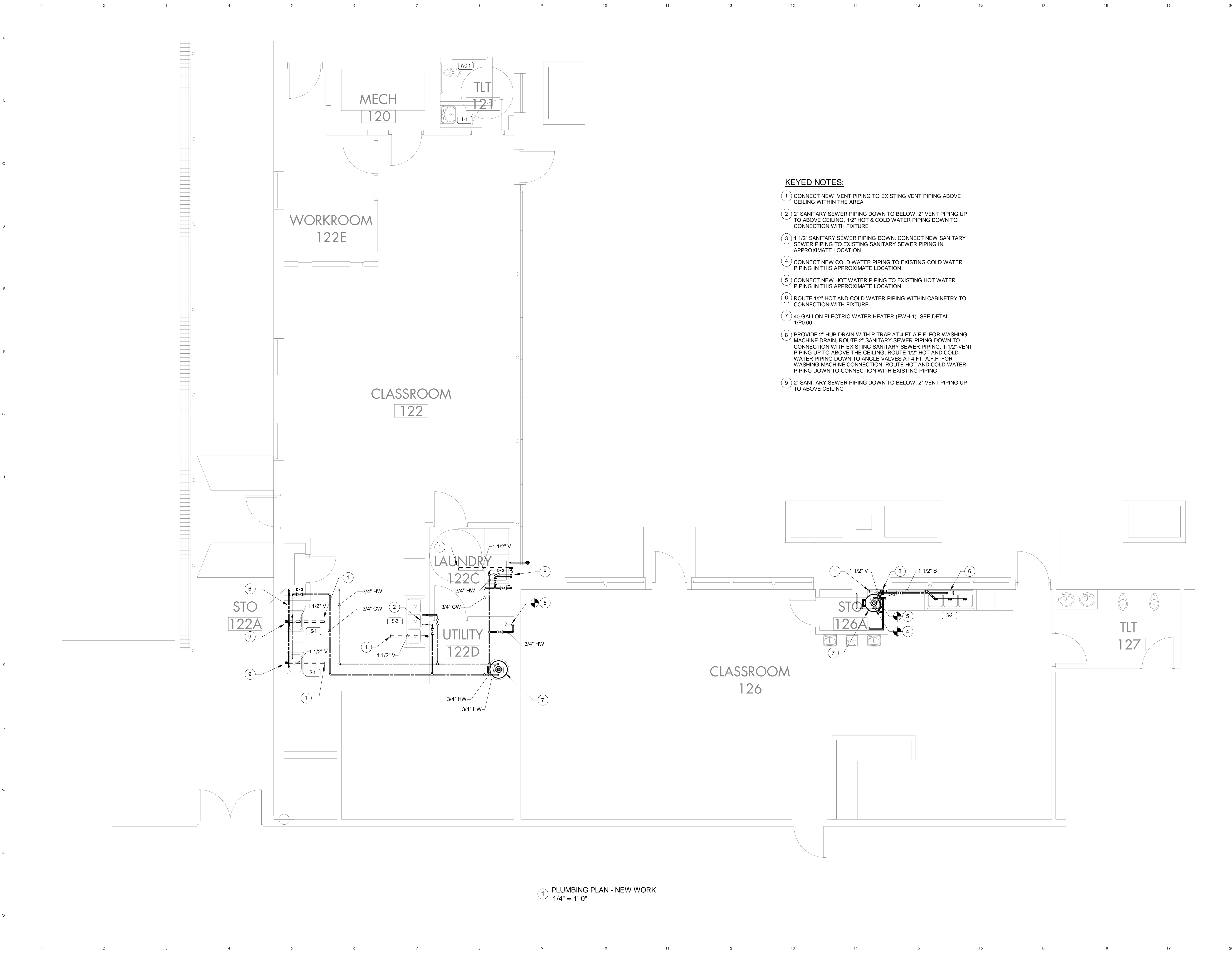
UNDERGROUND PLAN
- NEW WORK

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PLUMBING PLAN - NEW
WORK

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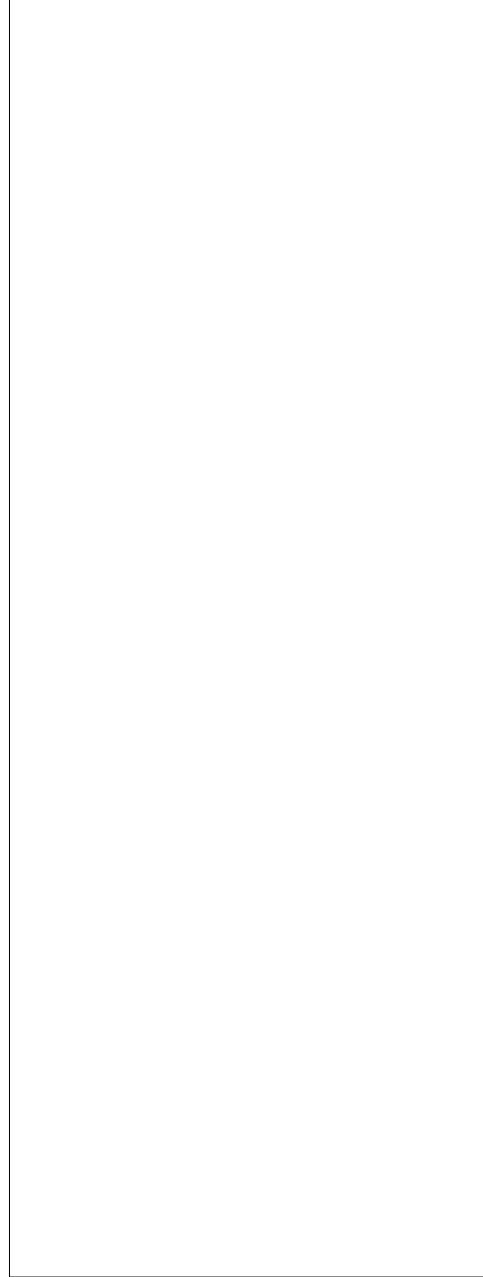
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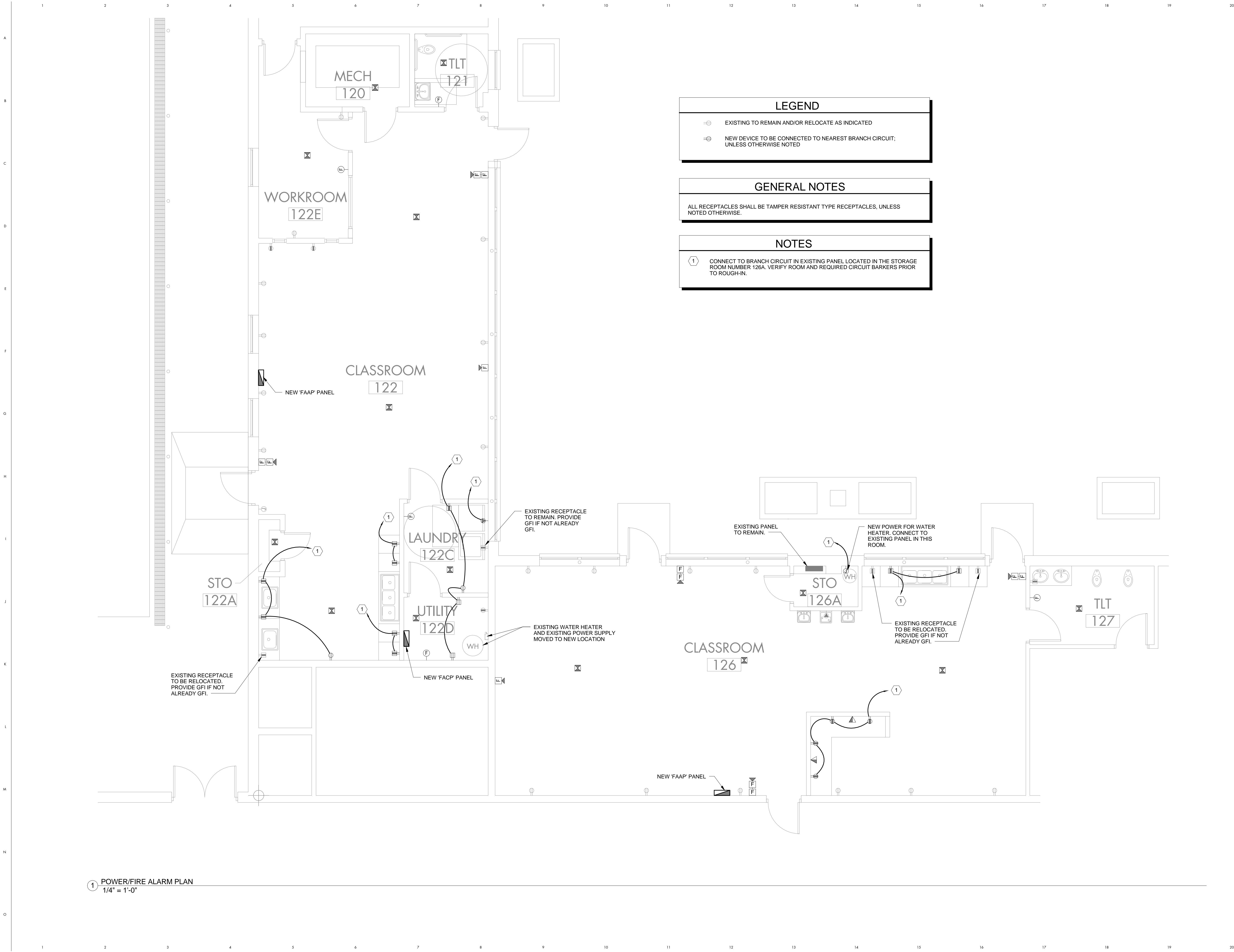
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LIGHTING PLAN

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POWER/FIRE ALARM
PLAN

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