

DECO  
ARCHITECTS

Somerset, Kentucky . (606)307-2561  
www.decoarchitects.co

SKY  
ENGINEERING

MECHANICAL • ELECTRICAL • PLUMBING

(270)-599-0182

1830 DESTINY LANE, SUITE 113 . BOWLING GREEN, KY

ACT JUSTLY . LOVE MERCY . WALK HUMBLY

MICAH 6:8

SITE

SEWELL INSPECTIONS,  
TESTING AND ENGINEERING

PO BOX 22851  
NASHVILLE, TN 37202  
PHONE (270) 779-3161

PROJECT ARCHITECT

MEP CONSULTANT

CIVIL ENGINEER



AN EDUCATIONAL FACILITY RENOVATION FOR  
TODD COUNTY MIDDLE SCHOOL  
ELKTON, KENTUCKY

GENERAL SERIES (DECO ARCHITECTS)

- G1.00 COVER SHEET  
G2.00 WATER BOTTLE FILLING STATION PLAN  
G3.00 GENERAL NOTES

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D1.01 DEMOLITION ENLARGED AREA A / B  
D1.02 DEMOLITION ENLARGED AREA C  
D1.03 DEMOLITION ENLARGED AREA D  
D1.04 DEMOLITION ENLARGED AREA E  
D1.05 DEMOLITION ENLARGED AREA F  
D1.06 DEMOLITION ENLARGED RESTROOM PLANS

ARCHITECTURAL SERIES (DECO ARCHITECTS)

- A1.00 MASTER FLOOR PLAN  
A1.01 ENLARGED AREA A / B  
A1.02 ENLARGED AREA C  
A1.03 ENLARGED AREA D  
A1.04 ENLARGED AREA E  
A1.05 ENLARGED AREA F  
A1.06 ENLARGED RESTROOM PLANS  
A1.07 ENLARGED RESTROOM ELEVATIONS / DETAILS  
A1.08 ENLARGED RESTROOM ELEVATIONS / DETAILS  
A1.09 REFLECTED CEILING PLAN - GYMNASIUM BAFFLES  
A4.00 SCHEDULES

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- M1.00 MECHANICAL DEMO PLAN  
M1.01 MECHANICAL ROOMS ENLARGED NEW/DEMO PLANS  
M1.02 MECHANICAL ROOMS ENLARGED NEW / DEMO PLAN  
M2.00 MECHANICAL NEW PLAN  
M2.01 MECHANICAL SCHEDULES

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- E0.01 ELECTRICAL SCHEDULES & LEGENDS  
E0.02 ELECTRICAL POWER DISTRIBUTION  
E1.00 ENLARGED MECH RM - ELECTRICAL DEMO AND NEW WORK  
E1.02 ELECTRICAL DEMO PLAN C&D  
E1.03 ELECTRICAL POWER AND LIGHTING AREA C&D  
E2.00 OVERALL FLOOR PLAN ELECTRICAL DEMO  
E2.01 OVERALL FLOOR PLAN - POWER AND LIGHTING  
E3.00 OVERALL FLOOR PLAN - FIRE ALARM AND PA SYSTEM  
E3.01 OVERALL FLOOR PLAN - CCTV AND ACCESS CONTROL

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- P1.01 PLUMBING ENLARGED FLOOR PLAN  
P1.02 PLUMBING ENLARGED FLOOR PLAN

FIRE PROTECTION SERIES (SKY ENGINEERING)

- FP1.01 FIRE INTENT PLAN, NOTES & DTL

NOTE TO PLAN REVIEWER

THE INTENT OF THIS PROJECT IS TO UPGRADE TO AN ACCESS CONTROL SYSTEM, RENOVATE SELECTED RESTROOMS AND MECHANICAL SYSTEMS, AND PERFORM VARIOUS MAINTENANCE UPGRADES IN SELECTED AREAS. NO ADDITIONAL SQUARE FOOTAGE WILL BE ADDED TO THE BUILDING.

OCCUPANCY.....	E
CONSTRUCTION TYPE.....	III-B
BUILDING AREA (ALL AREA UNDER ROOF).....	81,466 SQFT TOTAL
FIRST FLOOR.....	3,160 SQFT TOTAL
BASEMENT.....	

STORIES ABOVE GRADE.....	1
HEIGHT ABOVE GRADE.....	30'-0"
ALLOWABLE H&A PER 2018 KBC CHAPTER 5.....	2 STORIES (ABOVE GRADE)

OCCUPANT LOAD.....	1,404 OCCUPANTS
ALLOWABLE FIRE AREA PER SECTION 903.2.1.3.....	N/A
FIRE SUPPRESSION.....	YES, 100% SPRINKLERED BY EXISTING SYSTEM
FIRE RATINGS.....	N/A
FIRE ALARM REQUIRED PER SECTION 907.2.1.....	EXISTING SYSTEMS IN PLACE
SMOKE DETECTOR REQUIRED.....	EXISTING SYSTEMS IN PLACE
ALLOWABLE LENGTH OF DEAD END CORRIDORS PER 1018.4.....	50'-0"
ALLOWABLE EXT. ACCESS TRAVEL DISTANCE PER TABLE 1016.2.....	250'-0"
FIRE SEPARATION REQUIREMENTS PER TABLE 508.4.....	N/A

Aa = (A1 x I1) + (A2 x I2)  
Aa = 38,000 SQFT

PROJECT LOCATION WITHIN CITY LIMITS.....	YES, ELKTON
COUNTY.....	TODD COUNTY
NUMBER OF BUILDINGS IN THIS SUBMITTAL.....	1
USE OF BUILDING(S).....	<input checked="" type="checkbox"/> EDUCATIONAL
BUILDING(S) IN THIS PROJECT IS/ARE.....	<input checked="" type="checkbox"/> NEW FREESTANDING BUILDING
	<input checked="" type="checkbox"/> NEW ADDITION TO EXISTING STRUCTURE
	<input checked="" type="checkbox"/> RENOVATION ONLY
	<input type="checkbox"/> RENOVATION & ADDITION

TOTAL AREA IN NEW BUILDING OR ADDITION.....	N/A
NUMBER OF LEVELS (INCLUDING BASEMENT).....	2
BASEMENT.....	YES
TOTAL AREA IN EXISTING BUILDING.....	64,626 SQFT
DATE CONSTRUCTION TO BEGIN.....	ASAP
ESTIMATED COMPLETION DATE.....	ASAP

PLUMBING DATA

DESIGN CAPACITY OF BUILDING.....	NO INCREASE IN OCCUPANT LOAD
ARE RESTROOMS ACCESSIBLE TO PUBLIC.....	YES
ARE RESTROOMS ACCESSIBLE TO DISABLE.....	YES
SEWAGE DISPOSAL.....	<input checked="" type="checkbox"/> MUNICIPAL
	<input type="checkbox"/> PRIVATE
WATER SUPPLY.....	<input checked="" type="checkbox"/> PUBLIC
	<input type="checkbox"/> CISTERN
	<input type="checkbox"/> RILLED WELL
	<input type="checkbox"/> HAULED WATER
	<input type="checkbox"/> ROOF WATER
	<input type="checkbox"/> SPRING
	<input type="checkbox"/> STEAM
	IF PRIVATE INDICATE THE TYPE AND DESIGN

TABLE OF CONTENTS

RECIPIENT:

CLIENT REVIEW.....	<input type="checkbox"/>
DHBC.....	<input type="checkbox"/>
LOCAL.....	<input type="checkbox"/>
KDE.....	<input checked="" type="checkbox"/>

DOCUMENT TYPE:

PERMIT/ABRIDGED.....	<input type="checkbox"/>
PRIVATE BID.....	<input type="checkbox"/>
PUBLIC BID.....	<input checked="" type="checkbox"/>
DESIGN-BUILD.....	<input type="checkbox"/>

SCOPE OF SERVICES

PROJECT DATA

THE STATE OF KENTUCKY ENFORCES THE FOLLOWING BUILDING CODES (PROVIDED BY THE DEPARTMENT OF HOUSING, BUILDINGS AND CONSTRUCTION - DIVISION OF BUILDING CODES ENFORCEMENT):

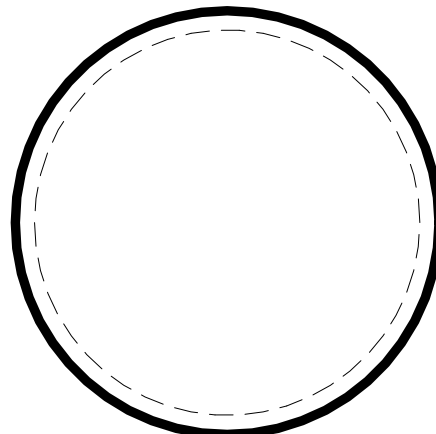
2018 KENTUCKY BUILDING CODE (BASED ON THE 2015 INTERNATIONAL BUILDING CODE)  
2018 KENTUCKY BUILDING RESIDENTIAL CODE (BASED ON THE 2012 INTERNATIONAL RESIDENTIAL CODE)  
2015 INTERNATIONAL MECHANICAL CODE  
2012 INTERNATIONAL FIRE CODE (NEW CONSTRUCTION PROJECTS, ONLY WHEN SPECIFICALLY REFERENCED BY THE BODY OF KBC)  
2012 INTERNATIONAL ENERGY CONSERVATION CODE  
2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES  
KENTUCKY STATE PLUMBING LAW, REGULATIONS & CODE (815 KAR CHAPTER 20)  
STATE BOILER REGULATION (KRS 226: 815 KAR 15)  
2012 NFPA 1 FIRE PREVENTION CODE (AS DIRECTED BY 815 KAR 10:60 KENTUCKY STANDARDS OF SAFETY)  
2010 NFPA 13- STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS  
2010 NFPA 13B- SPRINKLER SYSTEMS IN ONE- AND TWO-FAMILY DWELLINGS AND MANUFACTURED HOMES  
2010 NFPA 13B- STANDPIPE HOSE SYSTEMS  
2009 NFPA 54- NATIONAL FUEL GAS CODE  
2017 NFPA 70- NATIONAL ELECTRICAL CODE  
2010 NFPA 72- NATIONAL FIRE ALARM AND SIGNALING CODE  
2012 NFPA 101- LIFE SAFETY CODE (HEALTH CARE FACILITIES)  
GB-03-01- STRUCTURAL ENGINEERS ASSOCIATION OF KENTUCKY - SPECIAL INSPECTION GUIDELINES, THIRD EDITION, MARCH 2007.

THE ABOVE IS FOR REFERENCE ONLY AND IS ONLY REPRESENTATIVE OF THE MANY CODES AND STANDARDS CURRENTLY USED IN KENTUCKY. FOR SPECIFIC APPLICATIONS NOT LISTED ABOVE, CONTACT THE DEPARTMENT OF HOUSING, BUILDINGS AND CONSTRUCTION, DIVISION OF BUILDING CODES ENFORCEMENT AT (502) 573-0373 OR REFER TO CHAPTER 35 OF THE KBC.

KENTUCKY BUILDING CODES



DESIGN PROFESSIONAL



PLAN REVIEWER

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(IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PERMITS AND APPROVALS ARE OBTAINED PRIOR TO COMMENCING WORK.)

BY FAB, KCC, CLP, JEP

DATE 02/16/2021

SET CLIENT REVIEW



REVISION DESCRIPTION

1. DDMMYYYY REVISION DESCRIPTION

DECO  
ARCHITECTS

Somerset, Kentucky  
(606)687 - 9233  
www.decoarchitects.co

TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2021

515 W MAIN ST  
ELKTON, KENTUCKY 42220  
20200821

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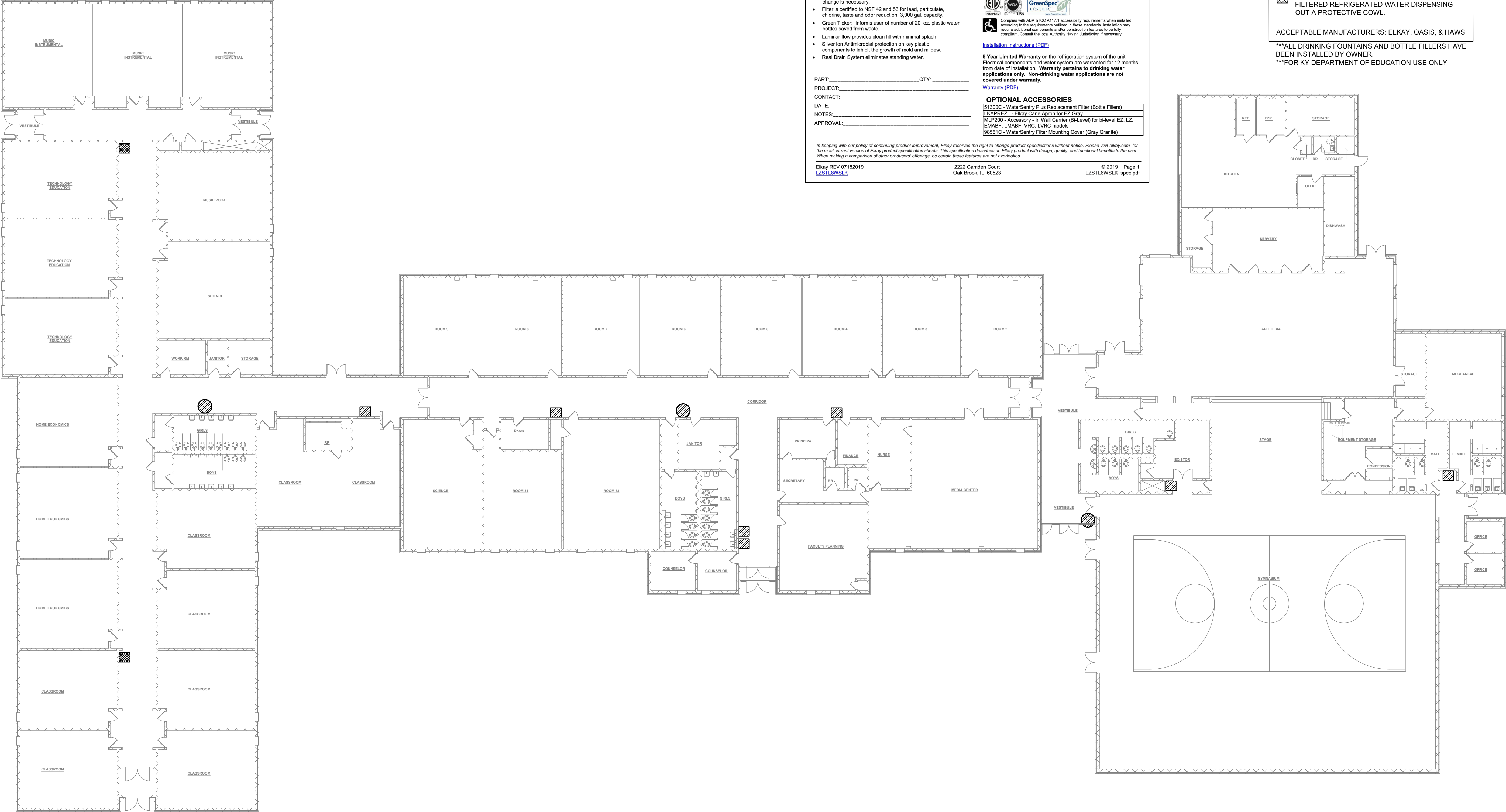
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COVER SHEET

G1.00

GENERAL





**ELKAY** ElKay EZH2O Bottle Filling Station & Versatile Bi-Level ADA Cooler  
SPECIFICATIONS Filtered 8 GPH Light Gray  
Model LZSTL8WSLK

**PRODUCT SPECIFICATIONS**  
ElKay ezH2O® Bottle Filling Station & Versatile Bi-Level ADA Cooler, Filtered 8 GPH Light Gray, Chilling Capacity of 8.0 GPH (gallons per hour) of 50° F drinking water, based on 80° F inlet water and 90° F ambient, per ASHRAE 18 testing. Features shall include Hands Free, Visual Filter Monitor, Filtered, Green Ticker™, Laminar Flow, Antimicrobial, Real Drain, Furnished with Flexi-Guard® Safety Bubbler, Electronic Bottle Filler Sensor With Electronic Front And Side Bubbler Pushbar activation. Product shall be Wall Mount (On Wall), for indoor applications, serving 2 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120. Unit shall be lead-free design which is certified to NSF/ANSI 61 & 372 (lead free) and meets Federal and State low-lead requirements.

<b>Special Features:</b>	Hands Free, Visual Filter Monitor, Filtered, Green Ticker™, Laminar Flow, Antimicrobial, Real Drain
<b>Finish:</b>	Light Gray Granite
<b>Power:</b>	115V/60Hz
<b>Bubbler Style:</b>	Flexi-Guard® Safety Bubbler
<b>Activation by:</b>	Electronic Bottle Filler Sensor With Electronic Front And Side Bubbler Pushbar
<b>Mounting Type:</b>	Wall Mount (On Wall)
<b>Chilling Option*:</b>	8.0 GPH
<b>Full Load Amps</b>	6
<b>Rated Watts:</b>	370
<b>Dimensions (L x W x H):</b>	36-3/4" x 19" x 39-1/16"
<b>Approx. Shipping Weight:</b>	104 lbs.
<b>Installation Location:</b>	Indoor
<b>No. of Stations Served:</b>	2

\*Based on 80° F inlet water & 90° F ambient air temp for 50° F chilled drinking water.  
**Special Note:** \*Coming soon: The ElKay ezH2O you know and love is getting a fresh look, as shown here. In stock models may have prior logo design.

- Visual Filter Monitor: LED Filter Status Indicator for when filter change is necessary.
- Filter is certified to NSF 42 and 53 for lead, particulate, chlorine, taste and odor reduction, 3,000 gal. capacity.
- Green Ticker: Informs user of number of 20 oz. plastic water bottles saved from waste.
- Laminar flow provides clean fill with minimal splash.
- Silver Ion Antimicrobial protection on key plastic components to inhibit the growth of mold and mildew.
- Real Drain System eliminates standing water.

PART: \_\_\_\_\_ QTY: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
CONTACT: \_\_\_\_\_  
DATE: \_\_\_\_\_  
NOTES: \_\_\_\_\_  
APPROVAL: \_\_\_\_\_

In keeping with our policy of continuing product improvement, ElKay reserves the right to change product specifications without notice. Please visit [elkay.com](http://elkay.com) for the most current version of ElKay product specification sheets. This specification describes an ElKay product with design, quality, and functional benefits to the user. When making a comparison of other products' offerings, be certain these features are not overlooked.

ElKay REV 07182019 2222 Camden Court © 2019 Page 1  
[LZSTL8WSLK](#) Oak Brook, IL 60053 LZSTL8WSLK\_spec.pdf



**AMERICAN PRIDE. A LIFETIME TRADITION.**  
Like your family, the ElKay family has values and traditions that endure. For almost a century, ElKay has been a family-owned and operated company, providing thousands of jobs that support our families and communities.

**Included with Product:** Water Cooler (LZSTL8WSLC), Bottle Filler (LZWSR), Filter

**▼ Ships in multiple boxes.**  
**PRODUCT COMPLIANCE**  
ADA & ICC A117.1  
ASME A112.19.3/CSA B45.4  
Buy American Act  
CAN/CSA C22.2 No. 120  
GreenSpec®  
NSF/ANSI 42, 53, 61, & 372 (lead free)  
UL 399



**5 Year Limited Warranty** on the refrigeration system of the unit. Electrical components and water system are warranted for 12 months from date of installation. **Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.**  
[Warranty \(PDF\)](#)

**OPTIONAL ACCESSORIES**  
UT300C - WaterSentry Plus Replacement Filter (Bottle Filler)  
LKAPREZL - ElKay Carafe Apron for EZ Gray  
MLP200 - Accessory - In Wall Carrier (Bi-Level) for bi-level EZ, LZ, EHA5F, LMA5F, VRC, LVIC models  
98551C - WaterSentry Filter Mounting Cover (Gray Granite)

**DRINKING FOUNTAIN CALCULATIONS**

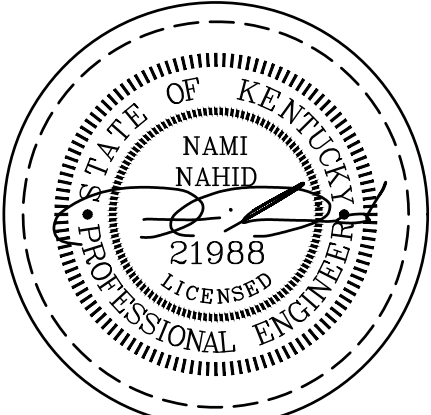
OCCUPANCY ESTIMATE = 484  
**REQUIREMENTS:**  
- 2 WATER BOTTLE FILLING STATION MIN.  
- 1 DRINKING FOUNTAIN OR BOTTLE FILLING STATIONS PER 75 STUDENTS.  
  
484 PEOPLE / 75 FOUNTAINS = 7 DRINKING FOUNTAINS.

**EXISTING PLAN:**  
- 3 WATER BOTTLE FILLING STATIONS  
- 5 SINGLE D.F. WATER COOLERS  
- 2 BI-LEVEL WATER COOLERS WHICH EQUALS A TOTAL OF 9 WATER COOLERS.

**PLUMBING LEGEND**

- SINGLE BOTTLE FILLER / DRINKING FOUNTAIN COMBO, WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.
- REGULAR SINGLE DRINKING FOUNTAIN WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.
- REGULAR BI-LEVEL DRINKING FOUNTAIN WITH FILTERED REFRIGERATED WATER DISPENSING OUT A PROTECTIVE COWL.

ACCEPTABLE MANUFACTURERS: ELKAY, OASIS, & HAWS  
\*\*\*ALL DRINKING FOUNTAINS AND BOTTLE FILLERS HAVE BEEN INSTALLED BY OWNER.  
\*\*\*FOR KY DEPARTMENT OF EDUCATION USE ONLY



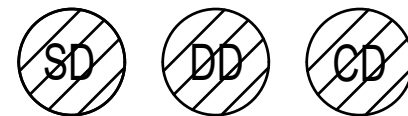
DESIGN PROFESSIONAL



PLAN REVIEWER

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BY: ACE  
DATE: 02/18/2021  
SET: CONSTRUCTION DOCUMENTS



REVISION	DESCRIPTION
DDMM/YYYY	REVISION DESCRIPTION



**TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2020**  
515 W MAIN ST  
ELKTON, KENTUCKY 42220  
20200821

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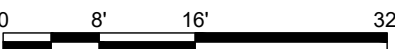
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**WATER BOTTLE FILLING  
STATION PLAN**

**G2.00**

PLUMBING

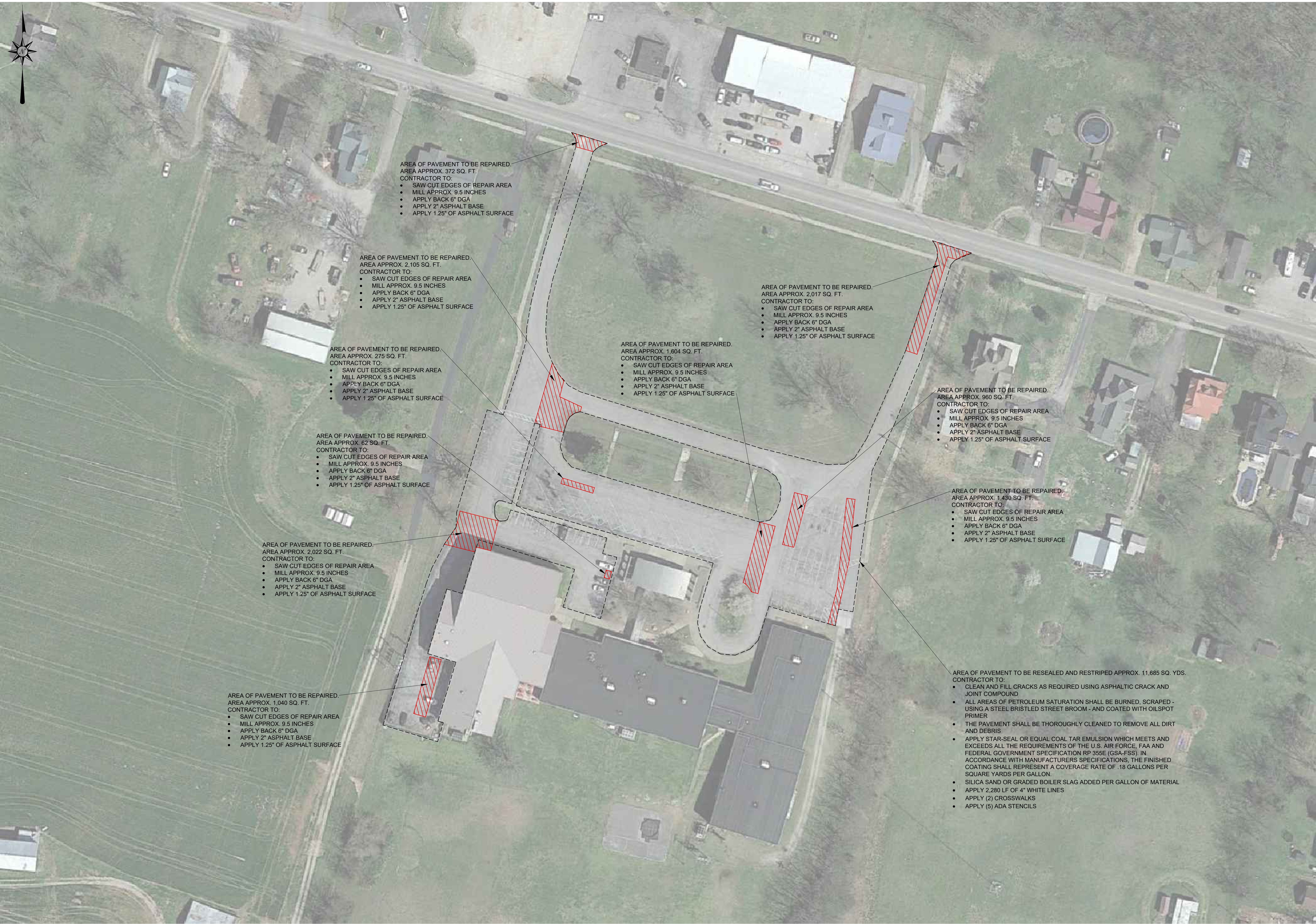
**1 OVERALL FIRST FLOOR - WATER BOTTLE FILLING STATION PLAN - KDE REFERENCE ONLY**  
SCALE: 1/16"=1'-0"











AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 372 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 2,105 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 275 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 62 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 2,022 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 1,040 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

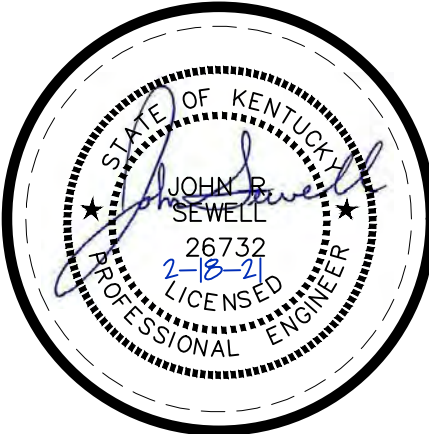
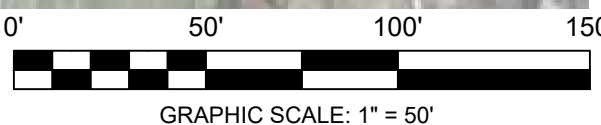
AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 1,604 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 2,017 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

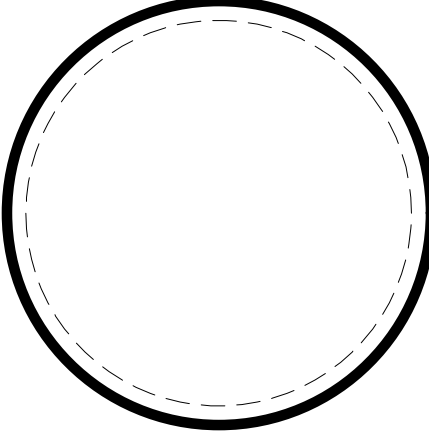
AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 980 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE REPAIRED.  
AREA APPROX. 1,430 SQ. FT.  
CONTRACTOR TO:  
• SAW CUT EDGES OF REPAIR AREA  
• MILL APPROX. 9.5 INCHES  
• APPLY BACK 6" DGA  
• APPLY 2" ASPHALT BASE  
• APPLY 1.25" OF ASPHALT SURFACE

AREA OF PAVEMENT TO BE RESEALED AND RESTRIPED APPROX. 11,685 SQ. YDS.  
CONTRACTOR TO:  
• CLEAN AND FILL CRACKS AS REQUIRED USING ASPHALTIC CRACK AND JOINT COMPOUND  
• ALL AREAS OF PETROLEUM SATURATION SHALL BE BURNED, SCRAPPED - USING A STEEL BRISTLED STREET BROOM - AND COATED WITH OILSPOT PRIMER  
• THE PAVEMENT SHALL BE THOROUGHLY CLEANED TO REMOVE ALL DIRT AND DEBRIS  
• APPLY STAR-SEAL OR EQUAL COAL TAR EMULSION WHICH MEETS AND EXCEEDS ALL THE REQUIREMENTS OF THE U.S. AIR FORCE, FAA AND FEDERAL GOVERNMENT SPECIFICATION RP 355E (GSA-FSS). IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS, THE FINISHED COATING SHALL REPRESENT A COVERAGE RATE OF .18 GALLONS PER SQUARE YARDS PER GALLON.  
• SILICA SAND OR GRADED BOILER SLAG ADDED PER GALLON OF MATERIAL  
• APPLY 2,280 LF OF 4" WHITE LINES  
• APPLY (2) CROSSWALKS  
• APPLY (5) ADA STENCILS



DESIGN PROFESSIONAL



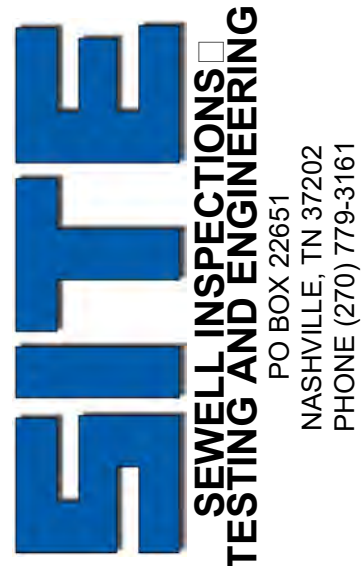
PLAN REVIEWER

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BY J. SEWELL  
DATE 02/18/2021  
SET CONSTRUCTION DOCUMENTS



REVISION	DESCRIPTION
1	DDMMYYYY REVISION DESCRIPTION



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RENOVATION 2020

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PAVEMENT  
REPAIRS &  
IMPROVEMENTS

C-5.00

CIVIL

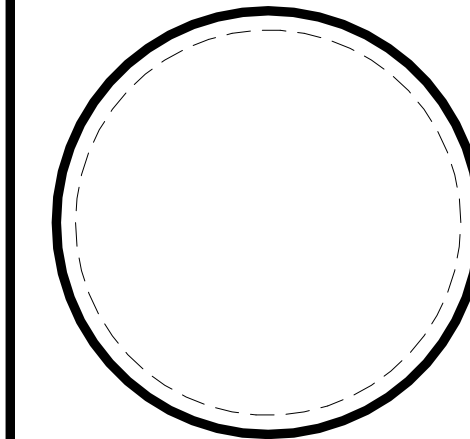




## KEY PLAN



DESIGN PROFESSIONAL



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BY	FAB, KCC, CLP, JEP
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DATE	02/16/2021
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SET	CLIENT REVIEW
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[illegible]TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2021

515 W MAIN ST  
ELKTON, KENTUCKY 42220  
20200821

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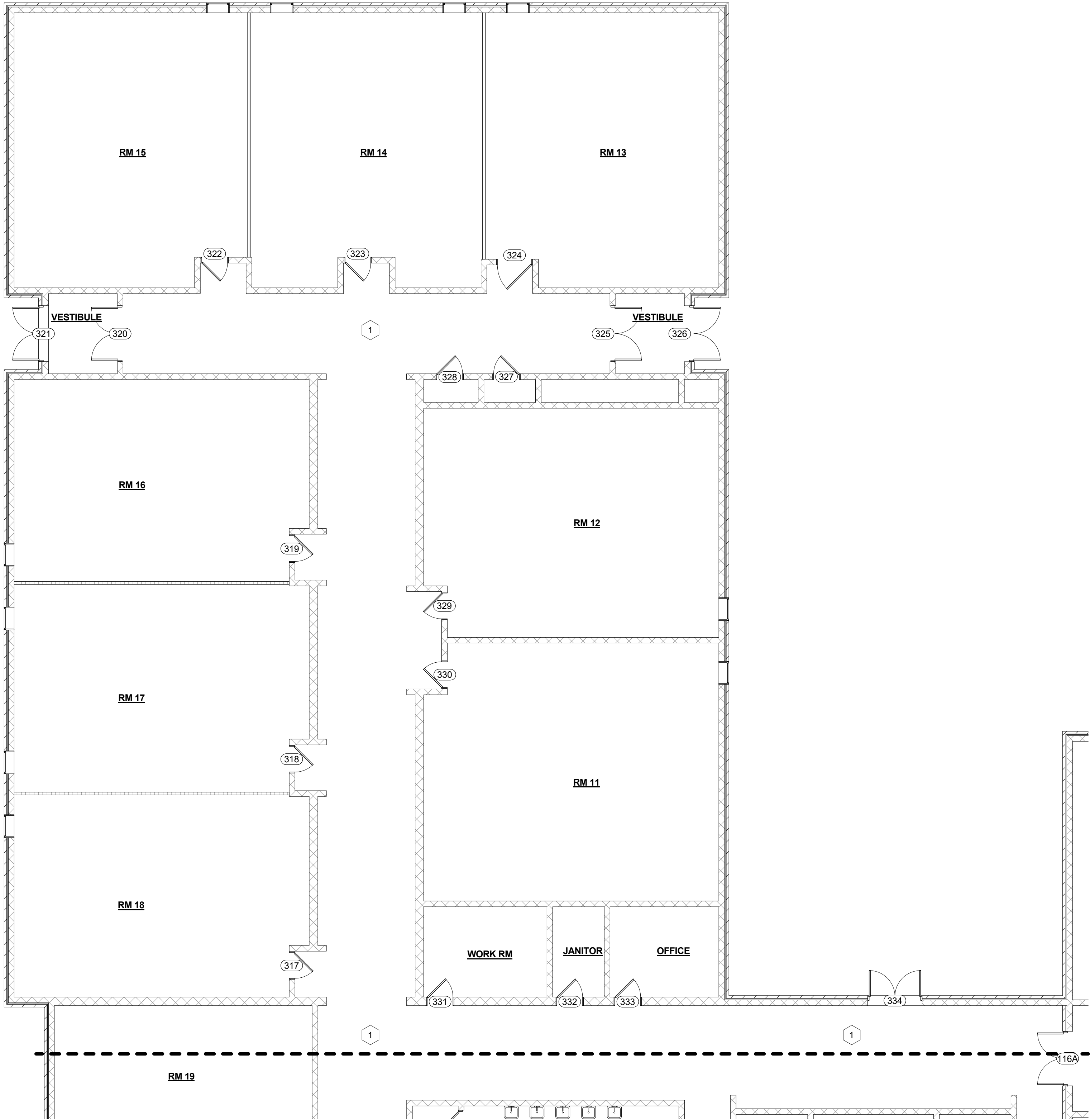
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## MASTER DEMO PLAN

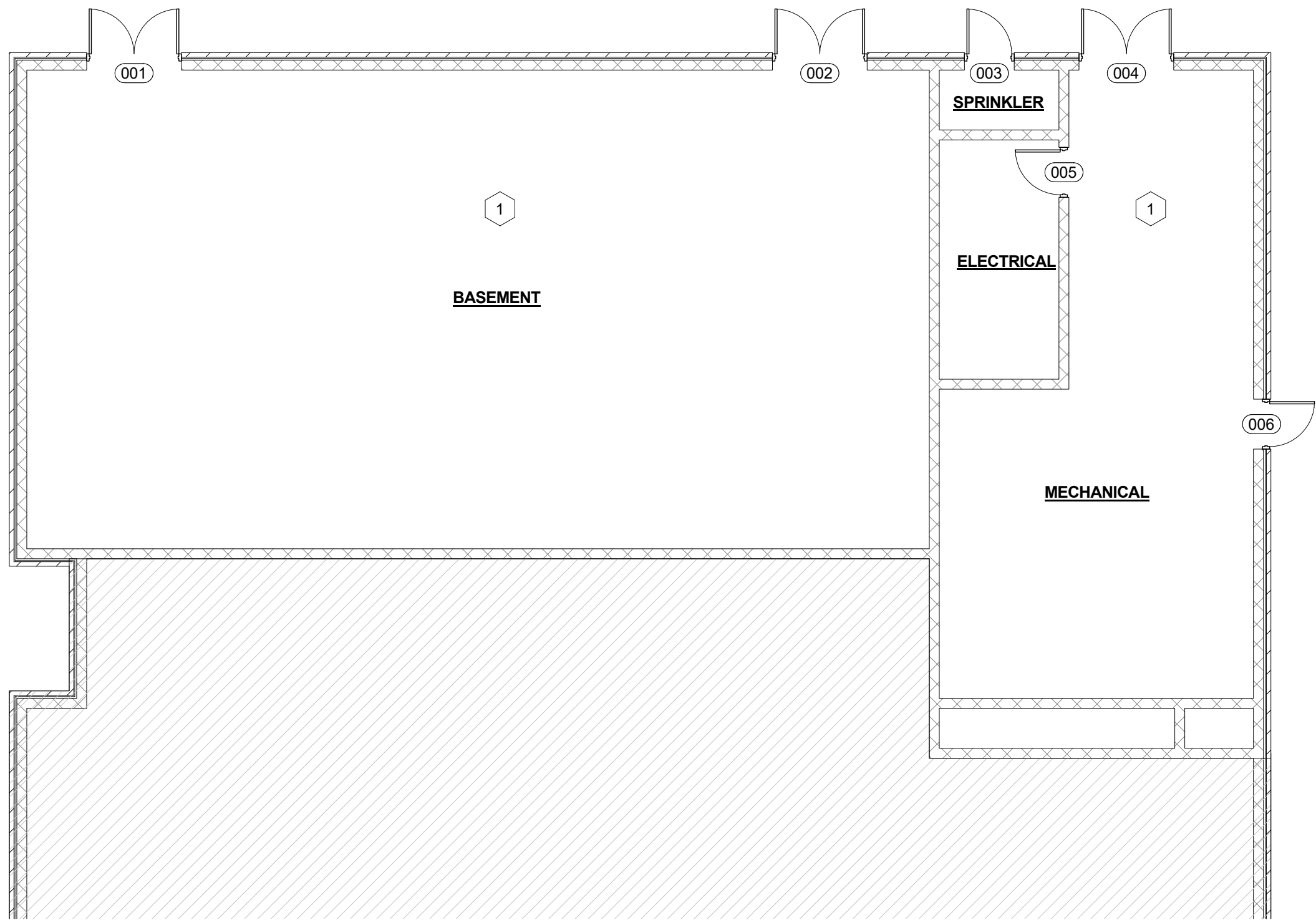
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## DEMOLITION

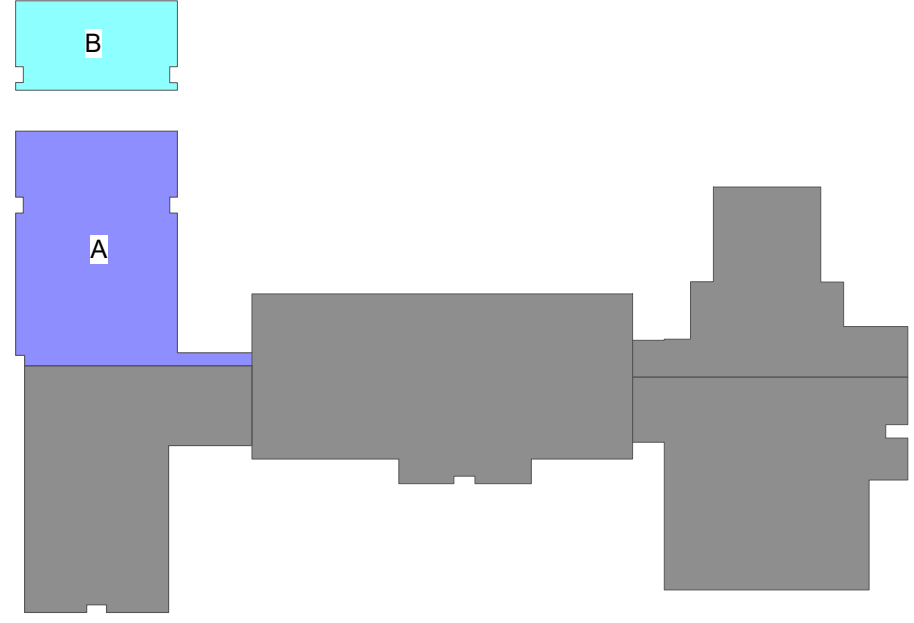




1 DEMO ENLARGED - AREA A  
1/8" = 1'-0"



2 DEMO ENLARGED - AREA B  
1/8" = 1'-0"



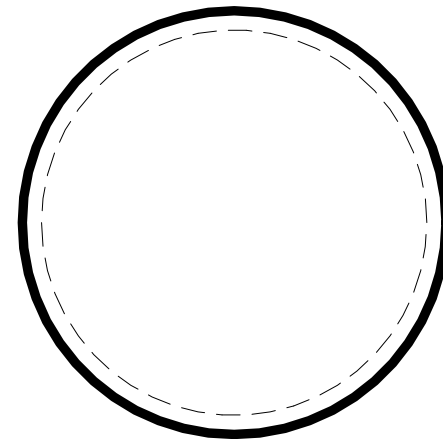
#### KEY PLAN

#### DEMO NOTES

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DESIGN PROFESSIONAL



PLAN REVIEWER

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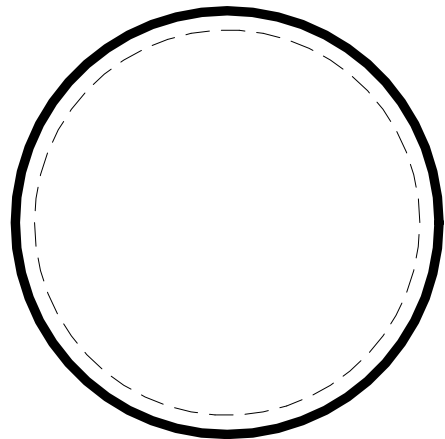
REVISION DESCRIPTION

1. DDMM/YYYY REVISION DESCRIPTION





DESIGN PROFESSIONAL



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DATE 02/16/2021

SET CLIENT REVIEW

SD

DD

CD

REVISION	DESCRIPTION
X	DDMMYYYY REVISION DESCRIPTION



TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2021

515 W MAIN ST  
ELKTON, KENTUCKY 42220  
20200821

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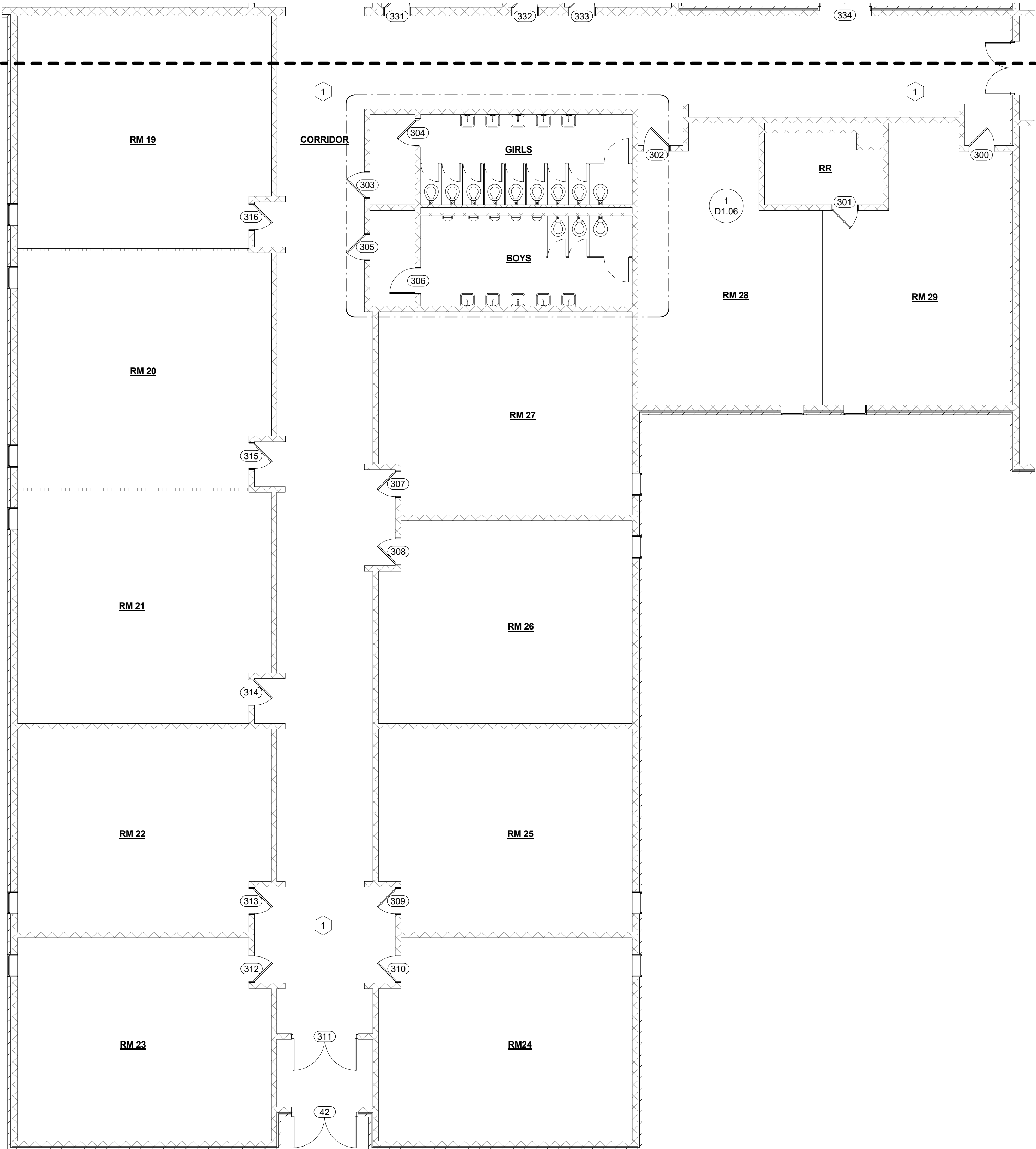
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DEMOLITION  
ENLARGED AREA C

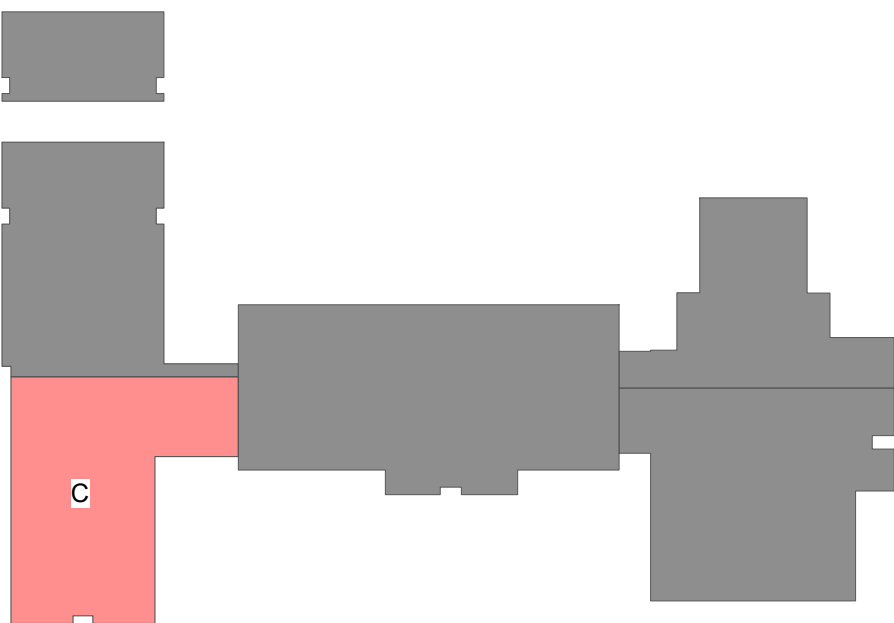
D1.02

DEMOLITION



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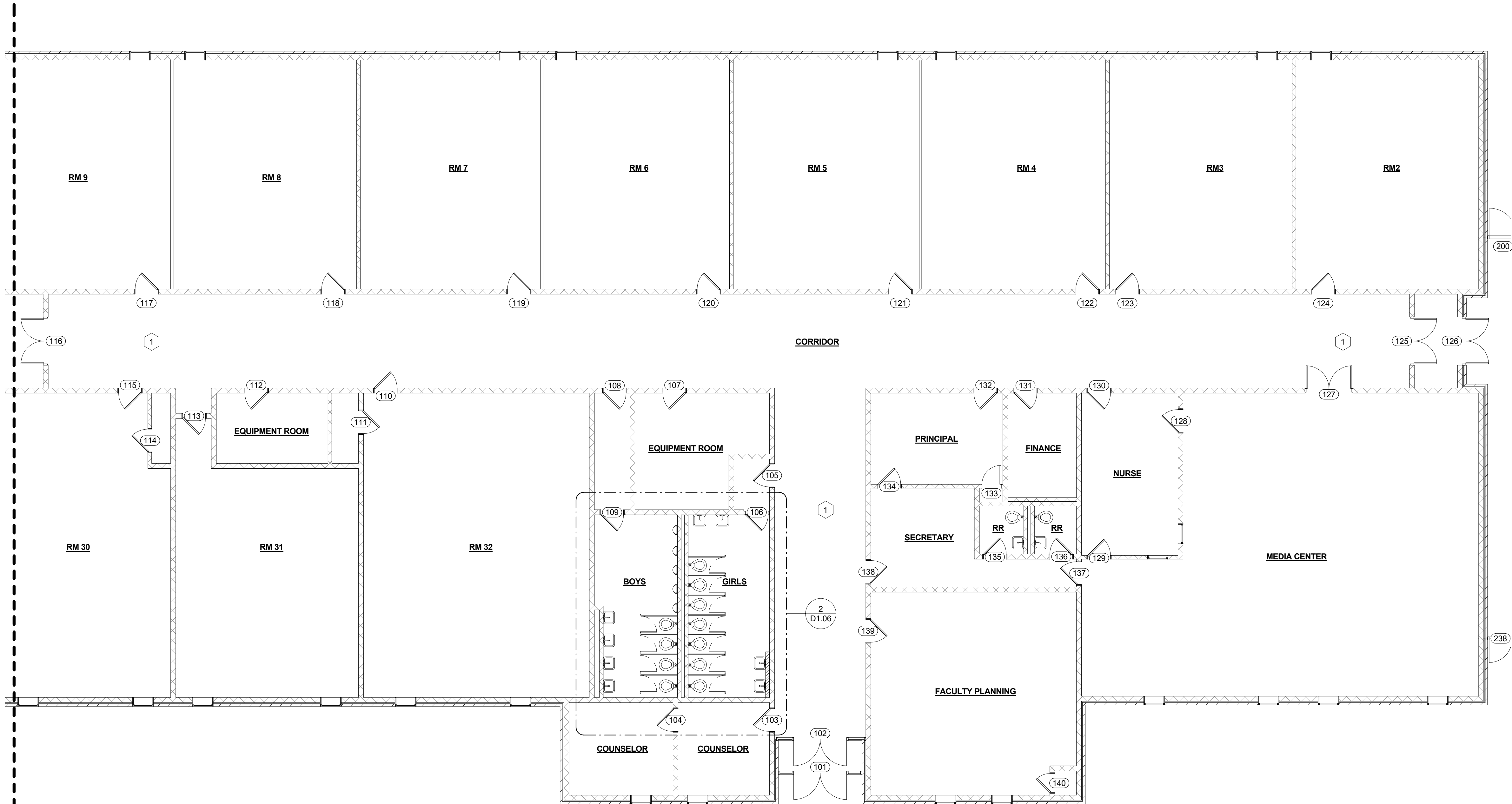


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DEMO ENLARGED - AREA C  
1/8" = 1'-0"

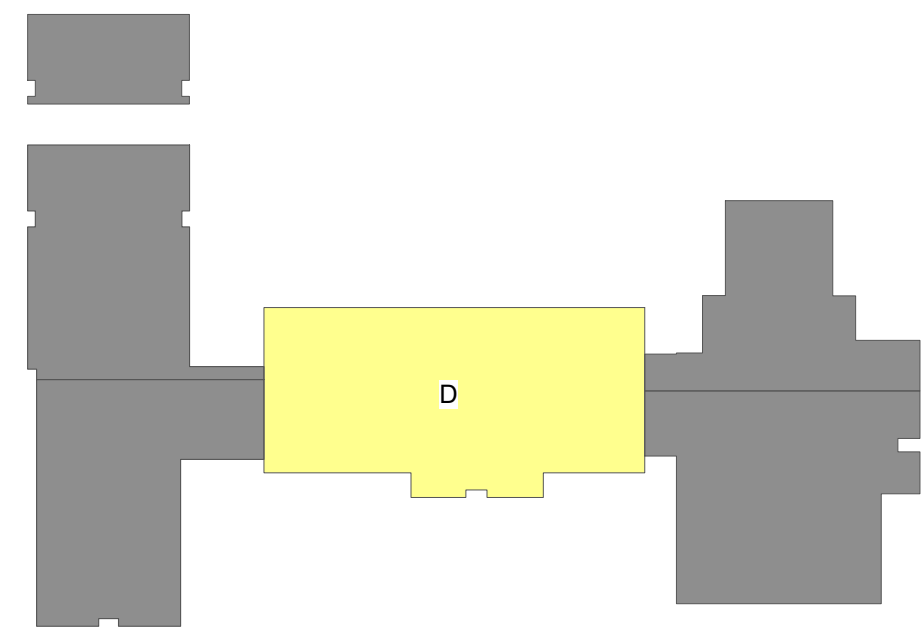
KEY PLAN



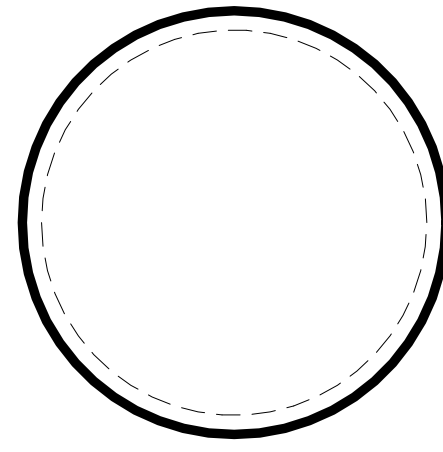


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DESIGN PROFESSIONAL



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BY FAB, KCC, CLP, JEP

DATE 02/16/2021

SET CLIENT REVIEW



REVISION DESCRIPTION

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TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2021

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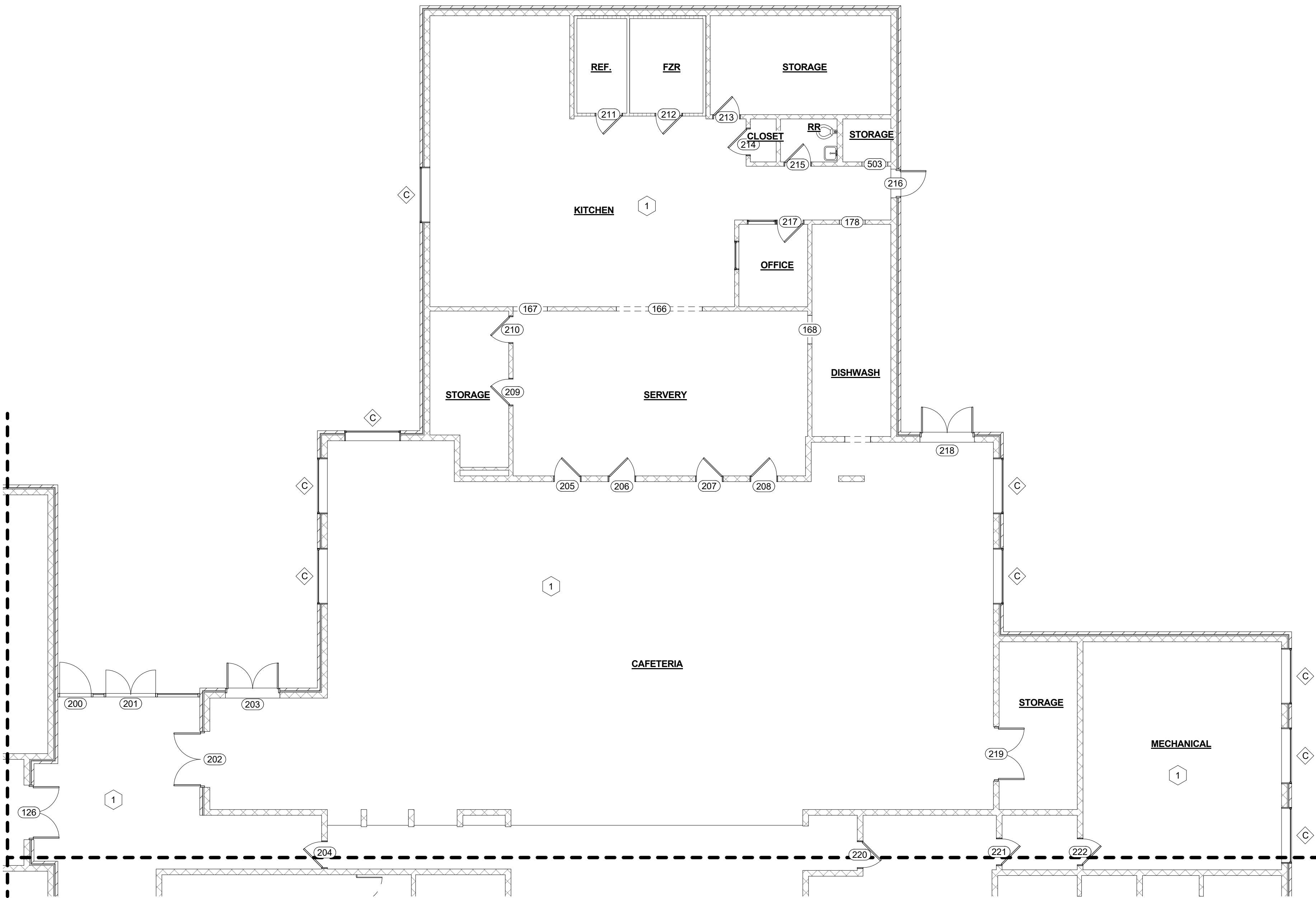
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DEMOLITION  
ENLARGED AREA D

D1.03

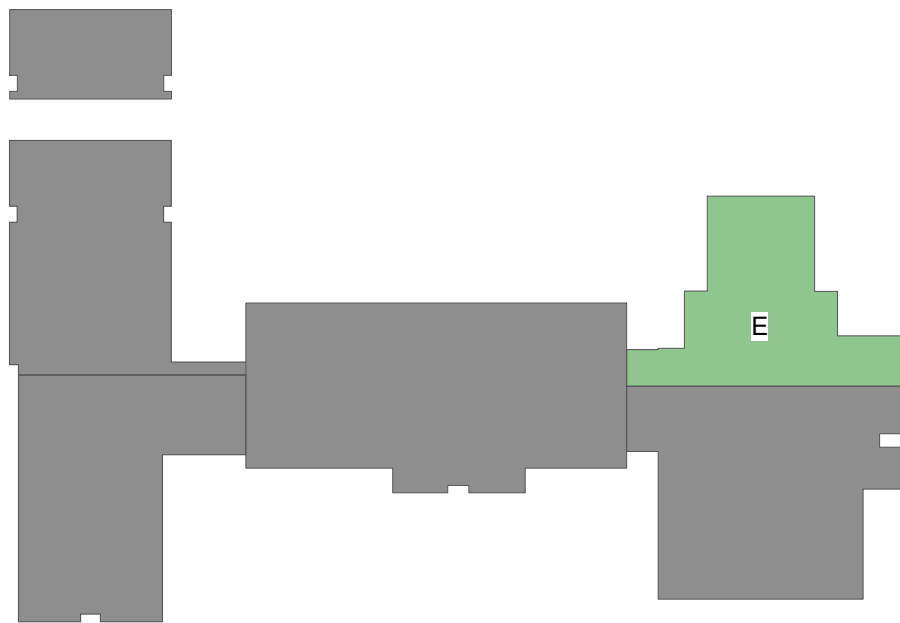
DEMOLITION



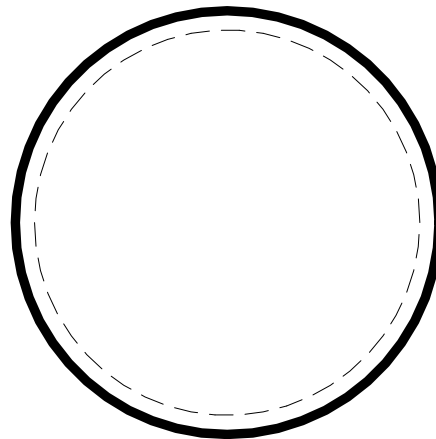


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CONTRACT.

DEMOLITION  
ENLARGED AREA E

D1.04

DEMOLITION

1

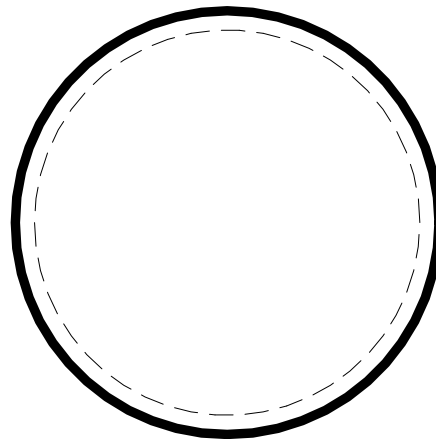
DEMO ENLARGED - AREA E  
1/8" = 1'-0"

KEY PLANS





DESIGN PROFESSIONAL



PLAN REVIEWER

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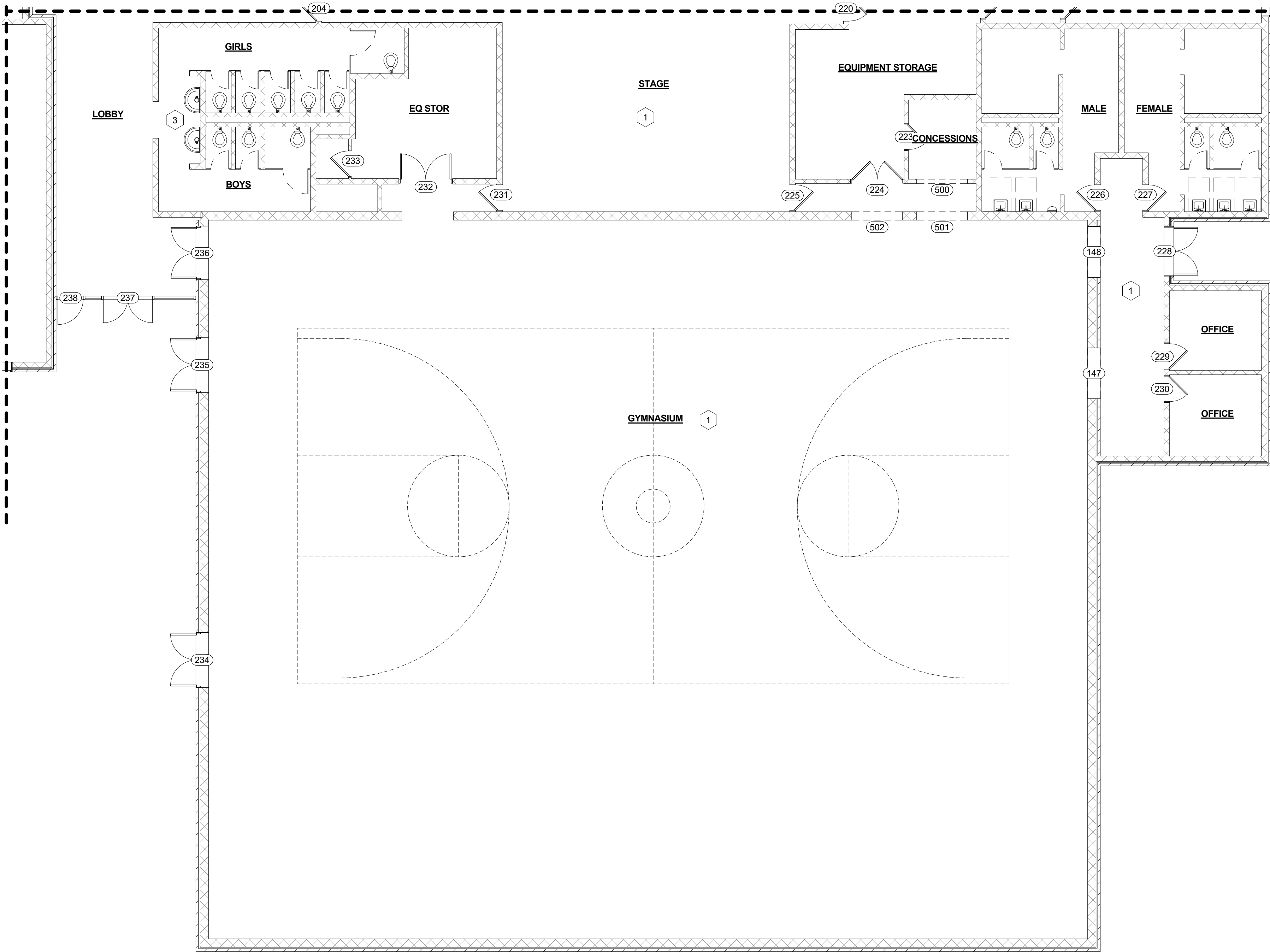
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DEMOLITION  
ENLARGED AREA F

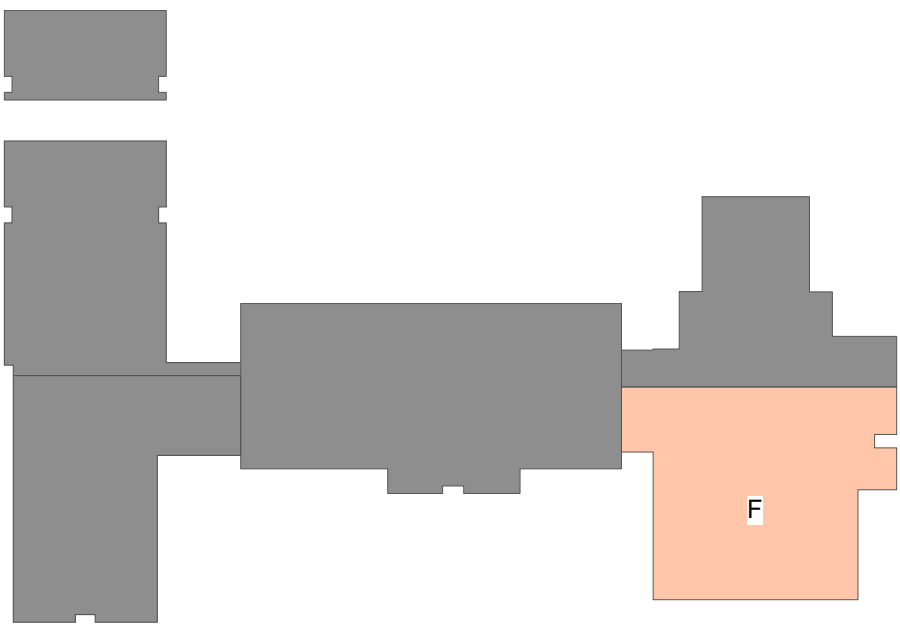
D1.05

DEMOLITION



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1 DEMO ENLARGED - AREA F

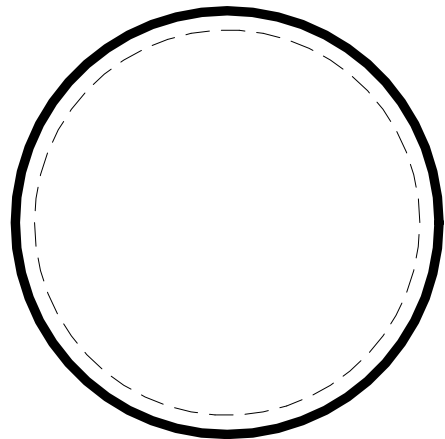
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KEY PLANS





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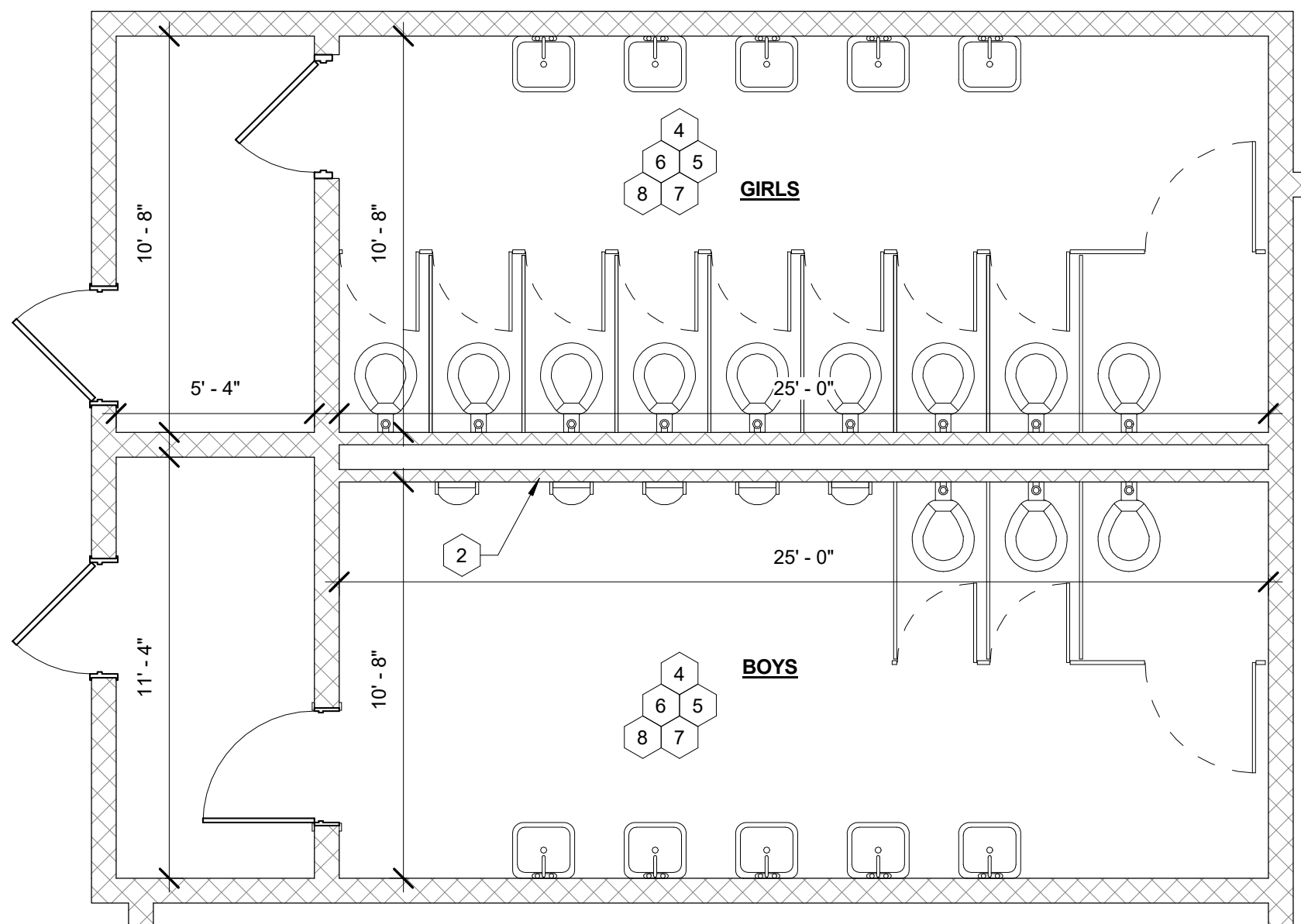
DEMOLITION  
ENLARGED RESTROOM  
PLANS

D1.06

DEMOLITION

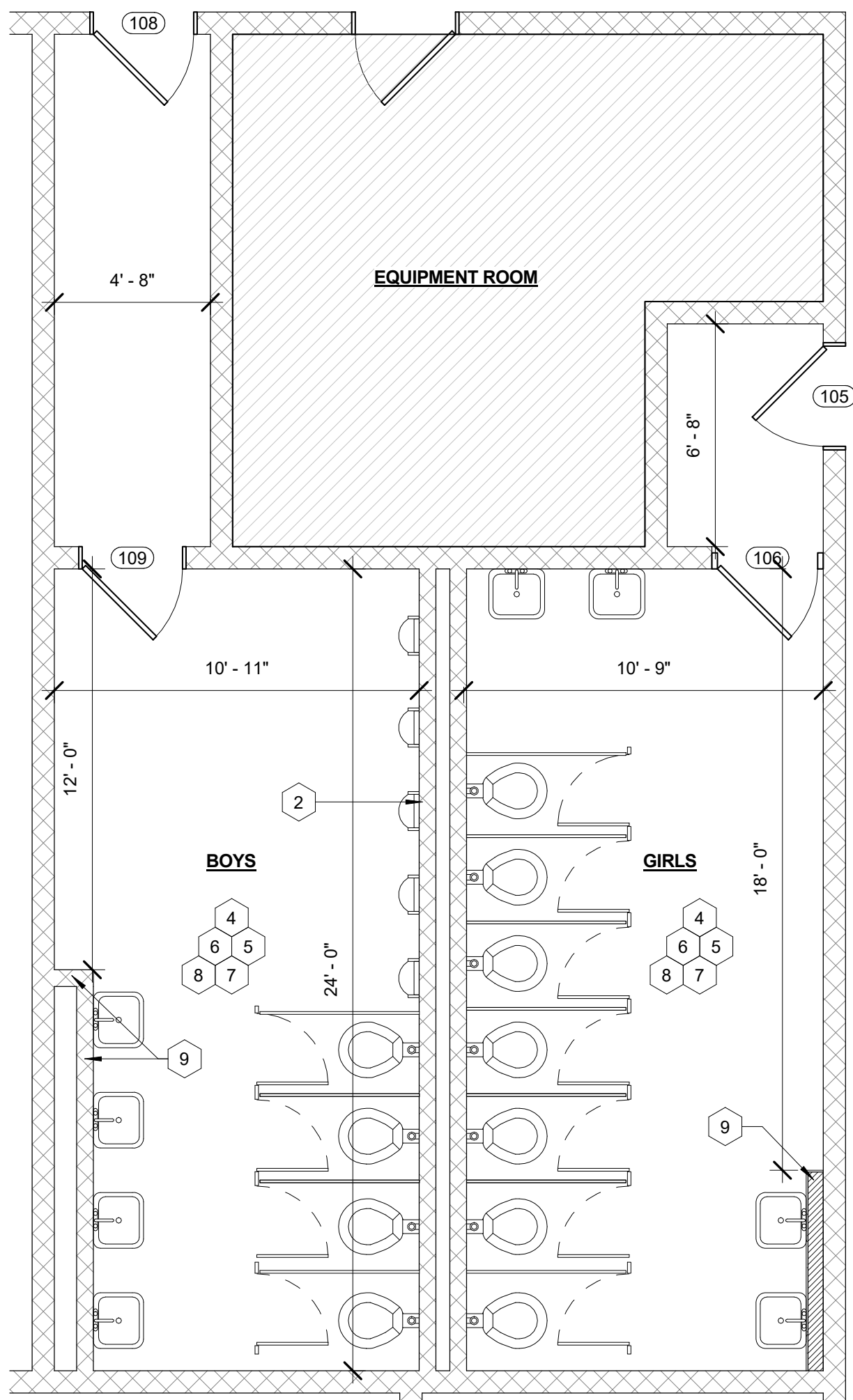
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1 DEMO ENLARGED PLAN - WEST WING RESTROOMS

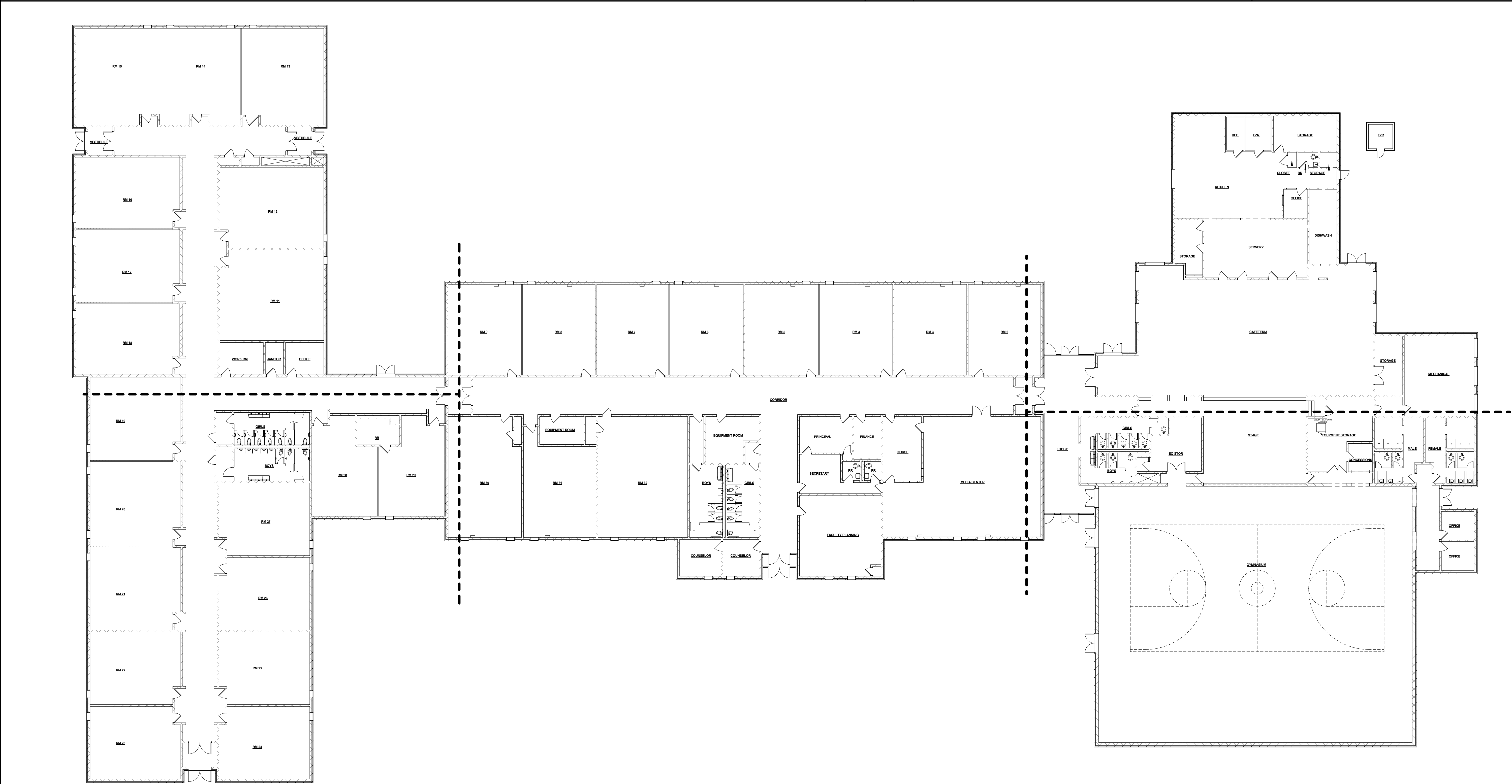
1/4" = 1'-0"



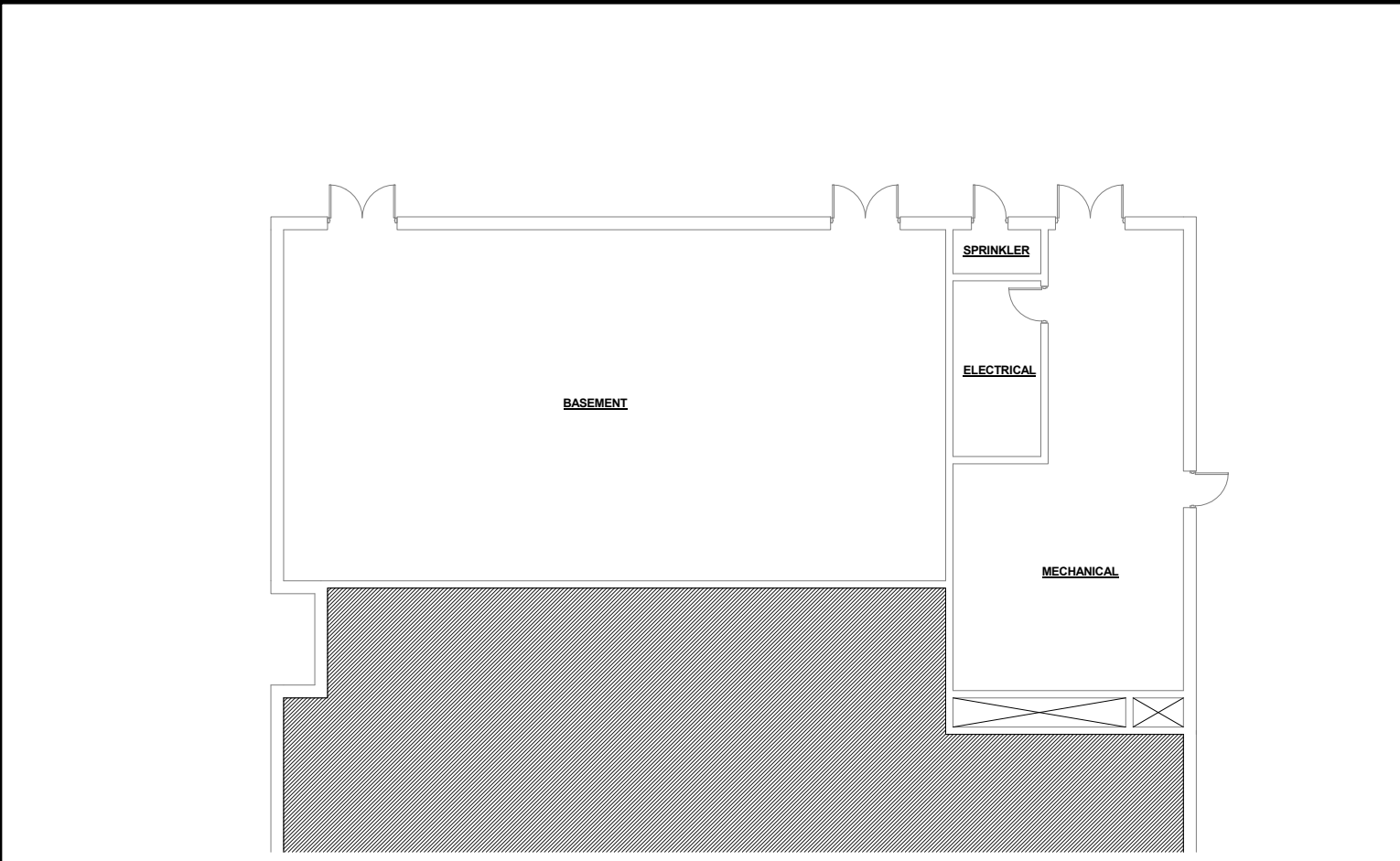
2 DEMO ENLARGED PLAN - FOYER RESTROOM

1/4" = 1'-0"

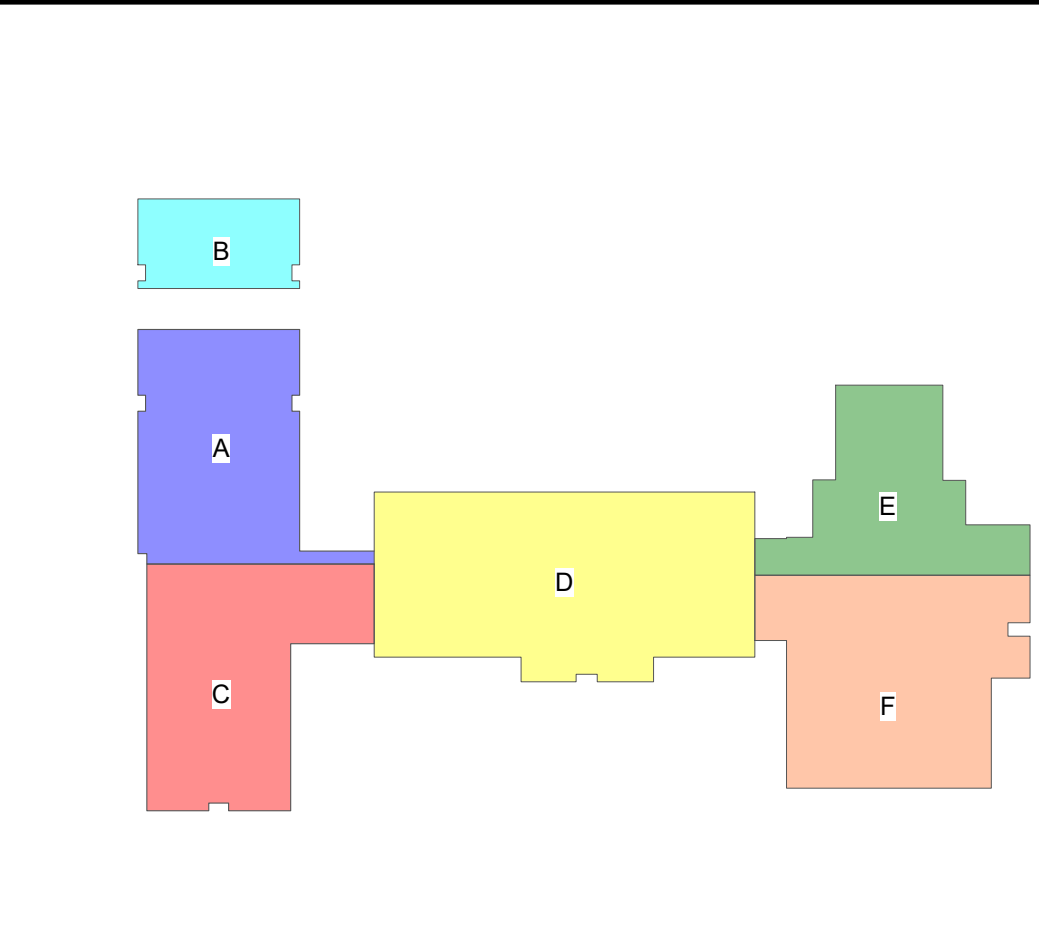




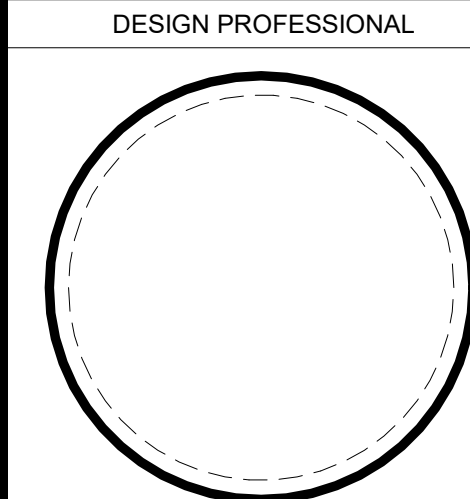
1 FLOOR PLAN - FIRST FLOOR  
1/16" = 1'-0"



2 FLOOR PLAN - BASEMENT  
1/16" = 1'-0"

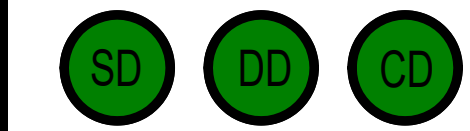


KEY PLAN



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REVISION	DESCRIPTION
X DDMMYYYY	REVISION DESCRIPTION

**DECO ARCHITECTS**  
Somerset, Kentucky  
(606)687 - 9233  
www.decoarchitects.co

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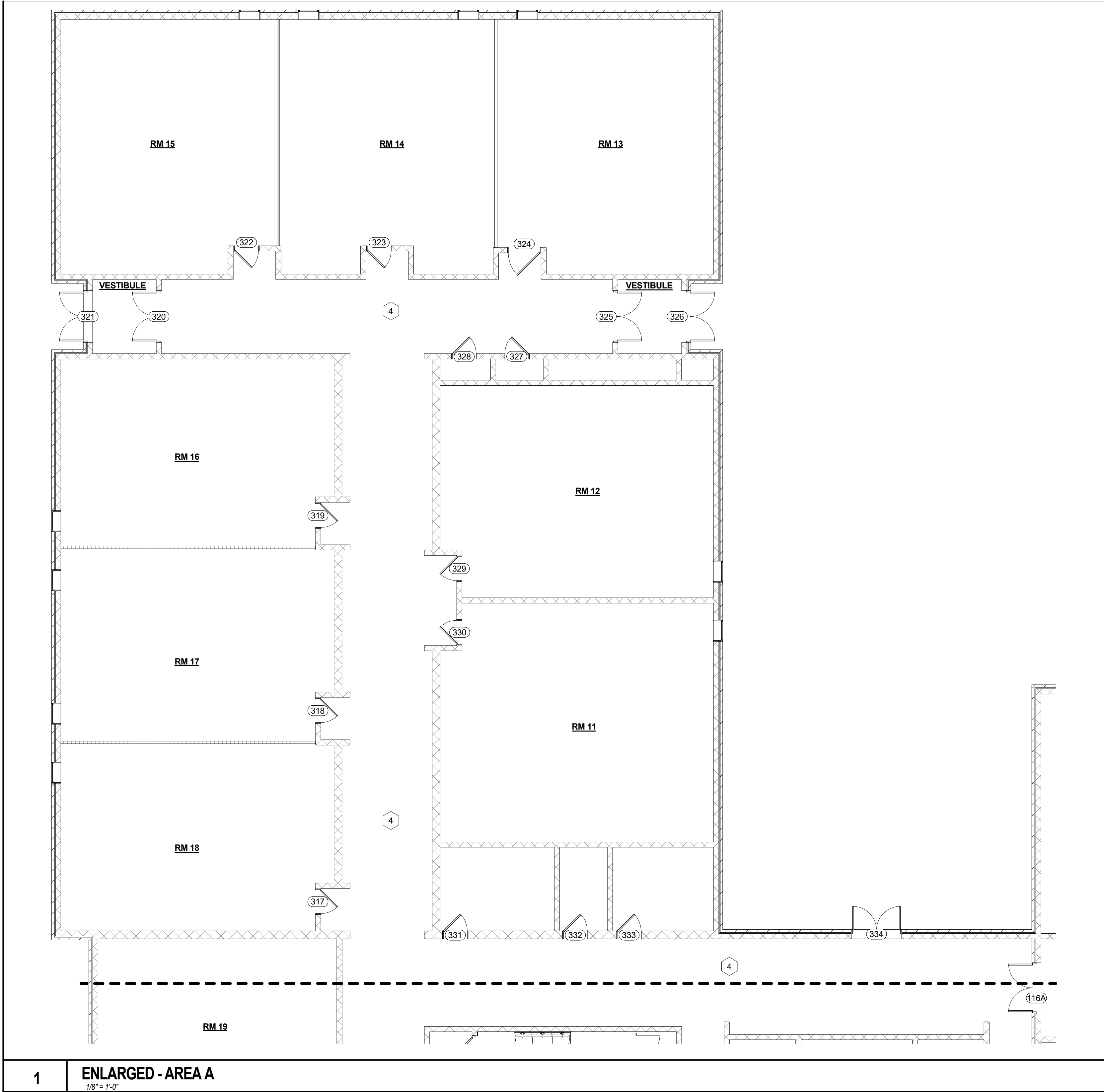
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MASTER FLOOR PLAN

A1.00

ARCHITECTURAL



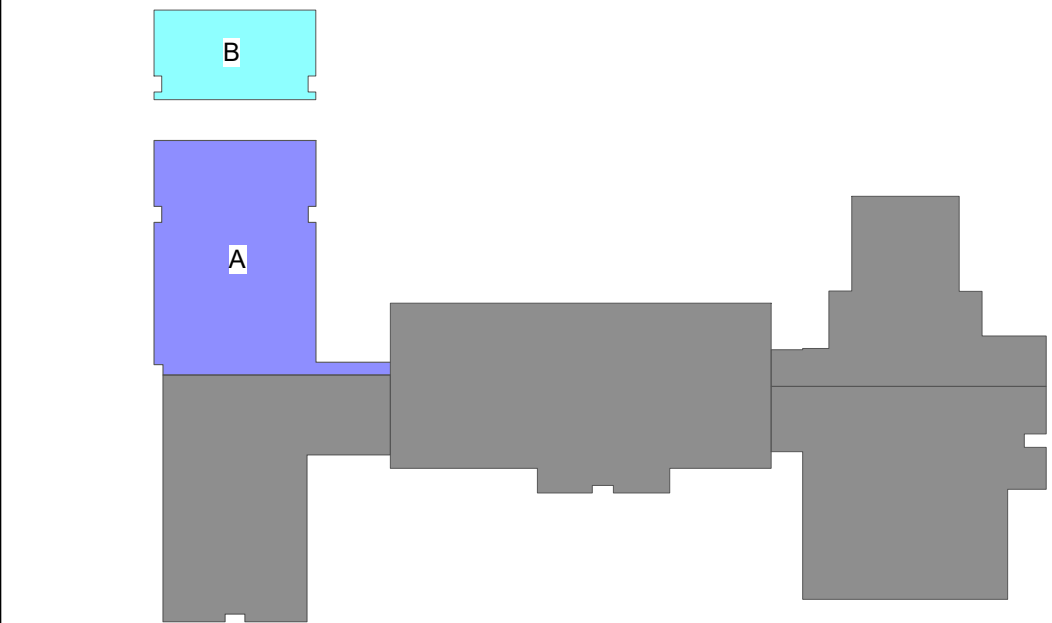


1

ENLARGED - AREA A  
1/8" = 1'-0"

3

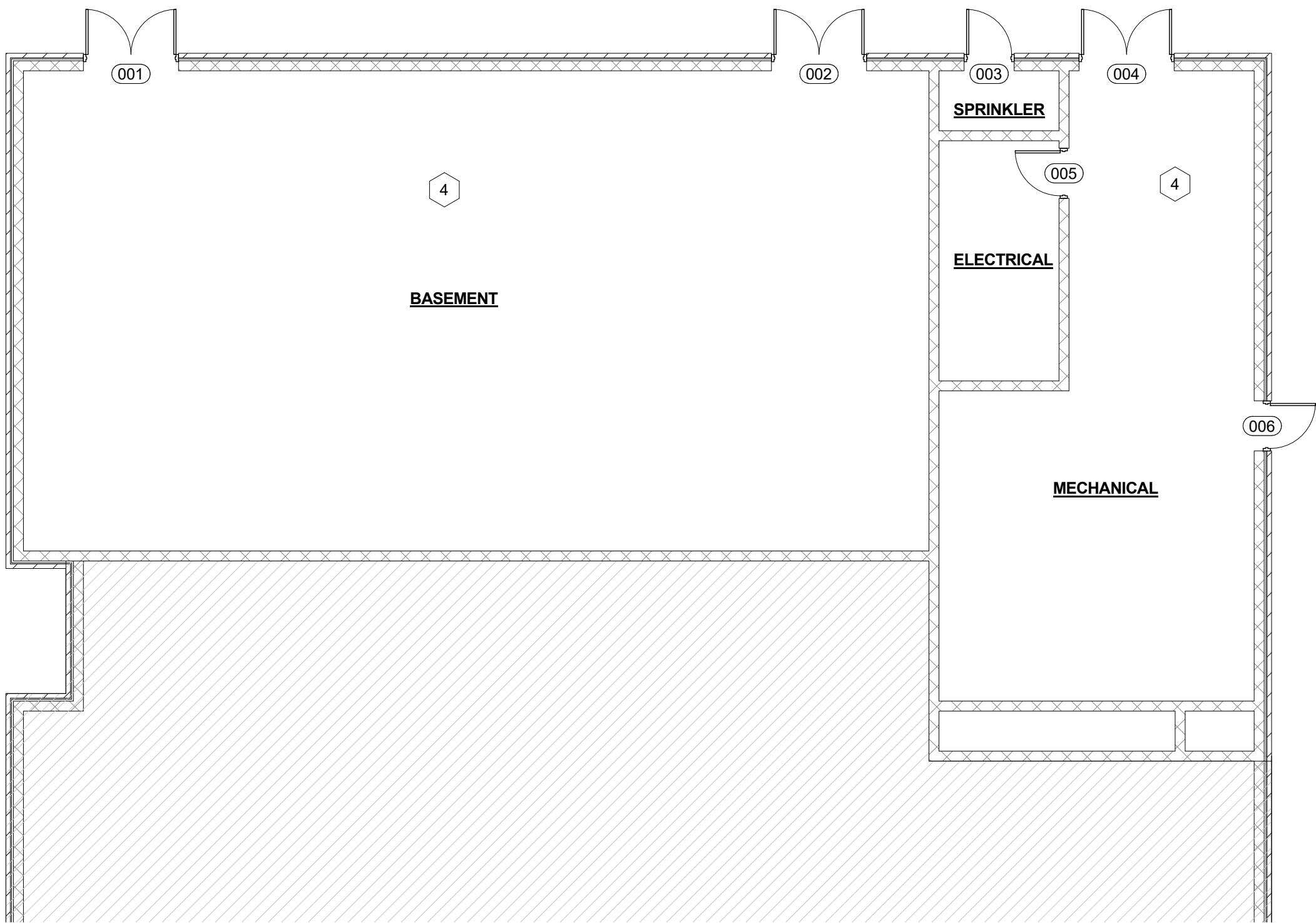
ENLARGED - AREA B (BASEMENT)  
1/8" = 1'-0"



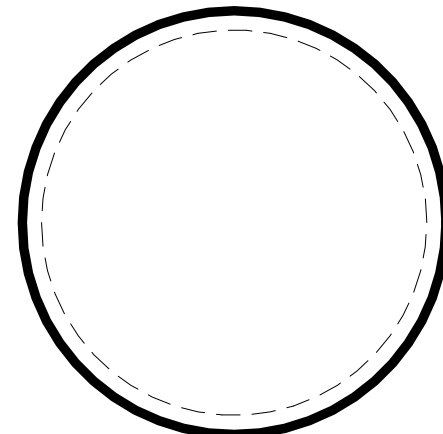
### KEY PLANS

### SHEET NOTES

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BY FAB, KCC, CLP, JEP

DATE 02/18/2021

SET CLIENT REVIEW



REVISION DESCRIPTION

Δ DDMMYYYY REVISION DESCRIPTION

TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2021

515 W MAIN ST

ELKTON, KENTUCKY 42220

20200821

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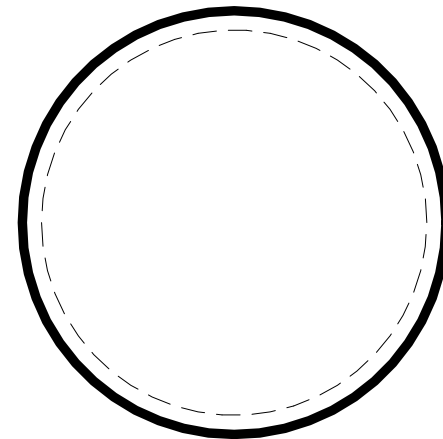
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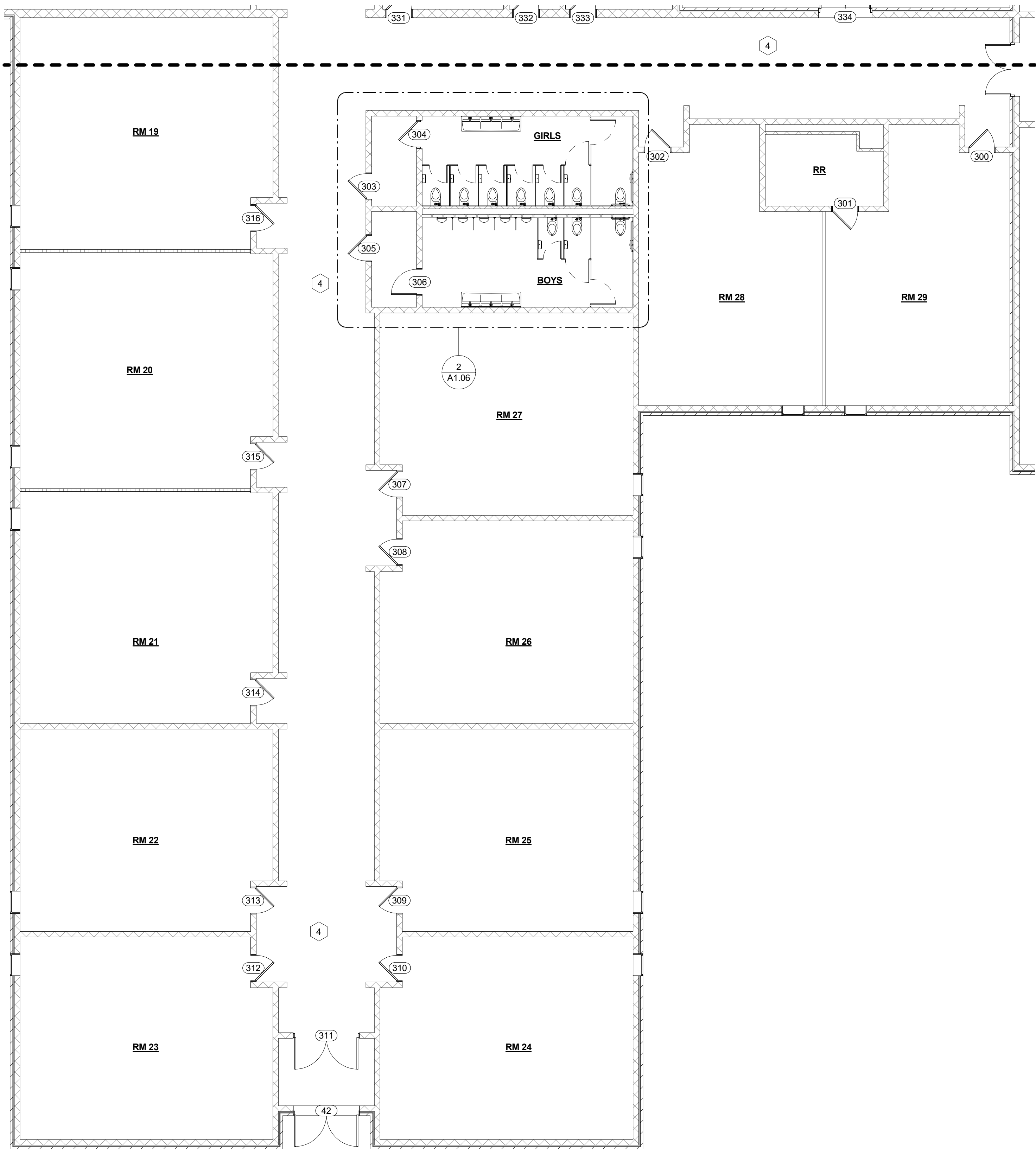
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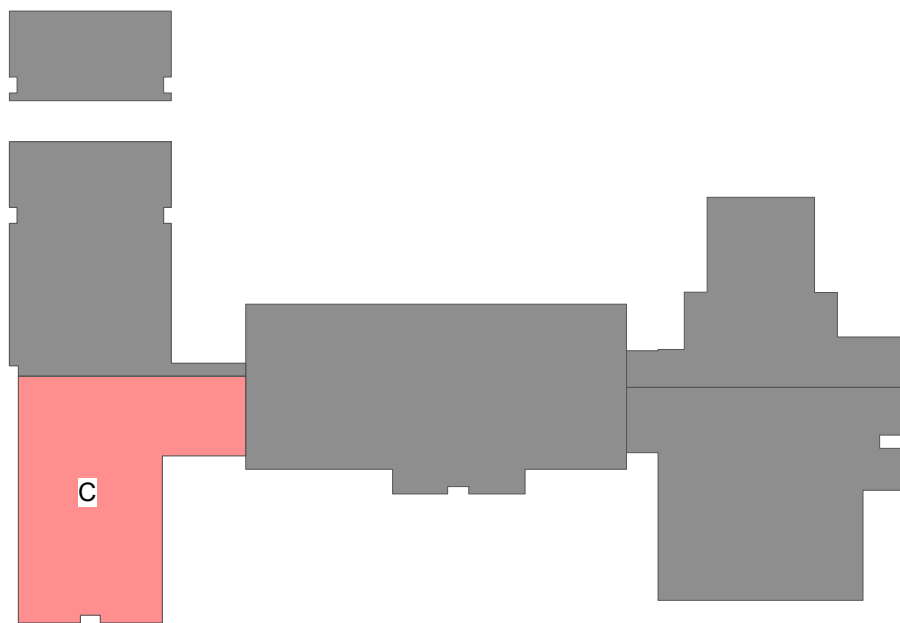
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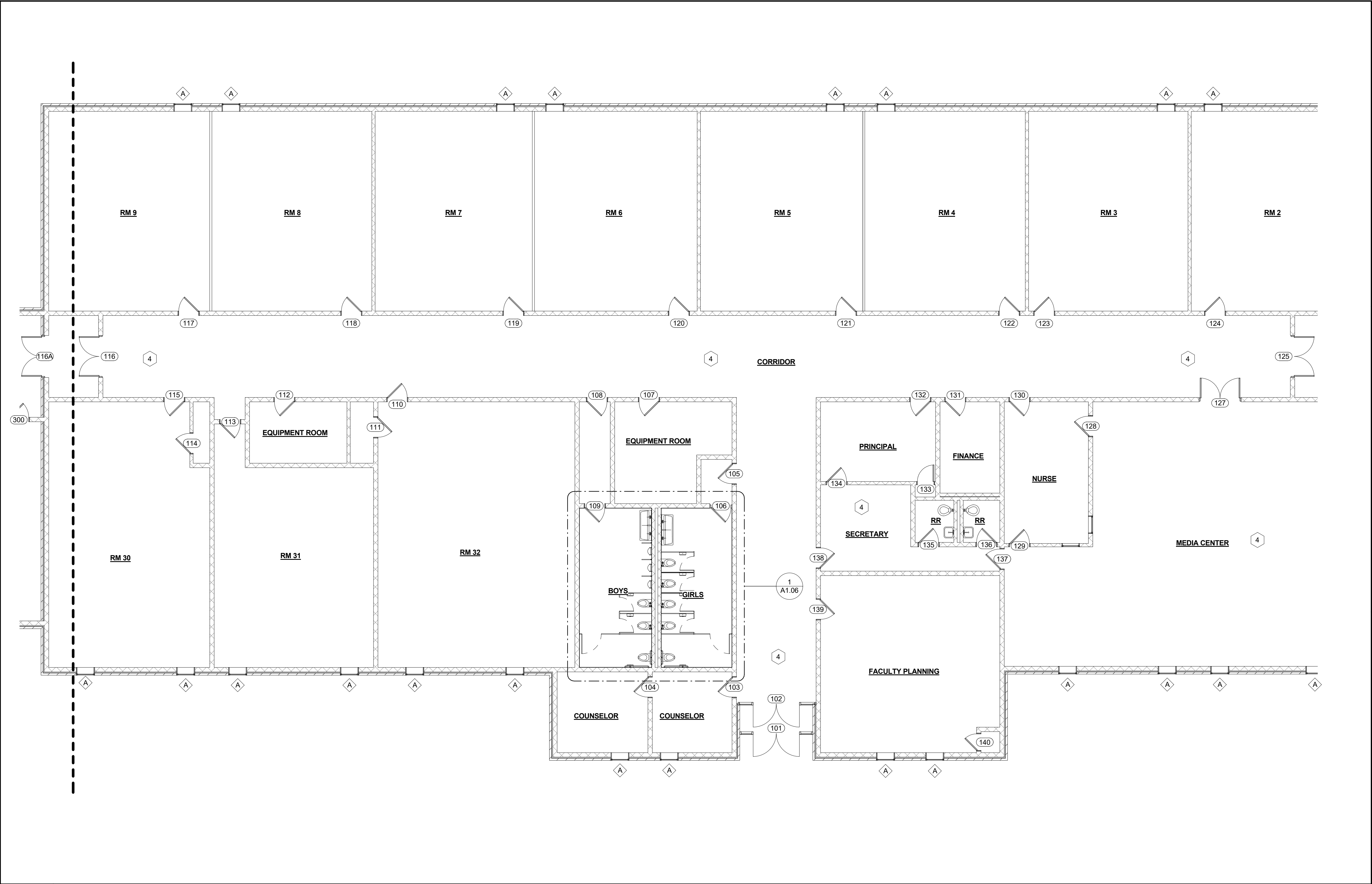


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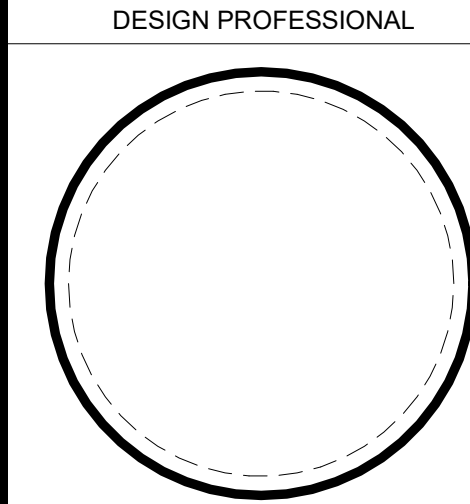
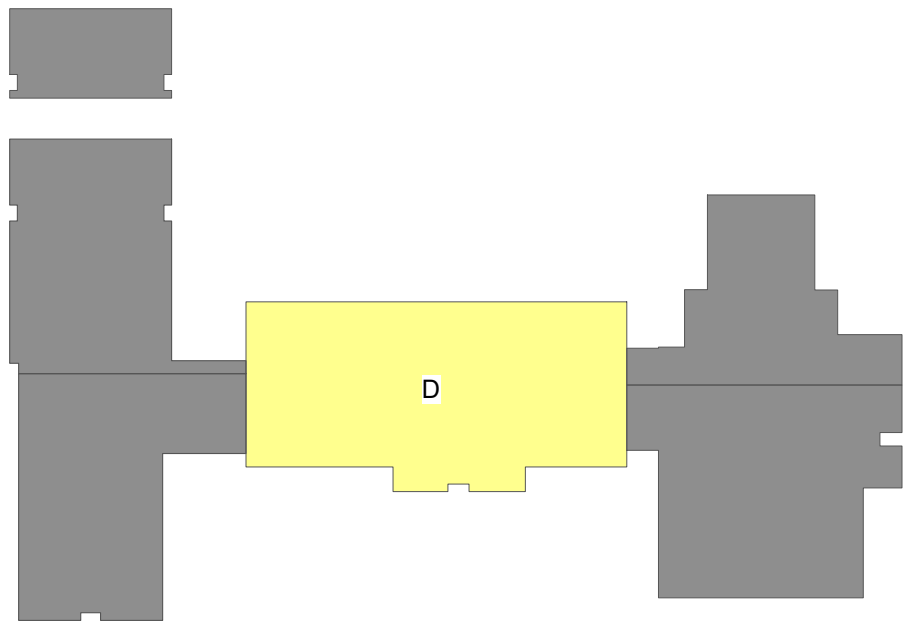
KEY PLANS





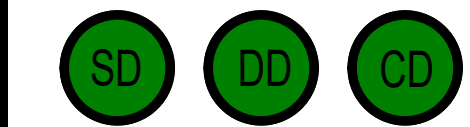
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BY	FAB, KCC, CLP, JEP
DATE	02/16/2021
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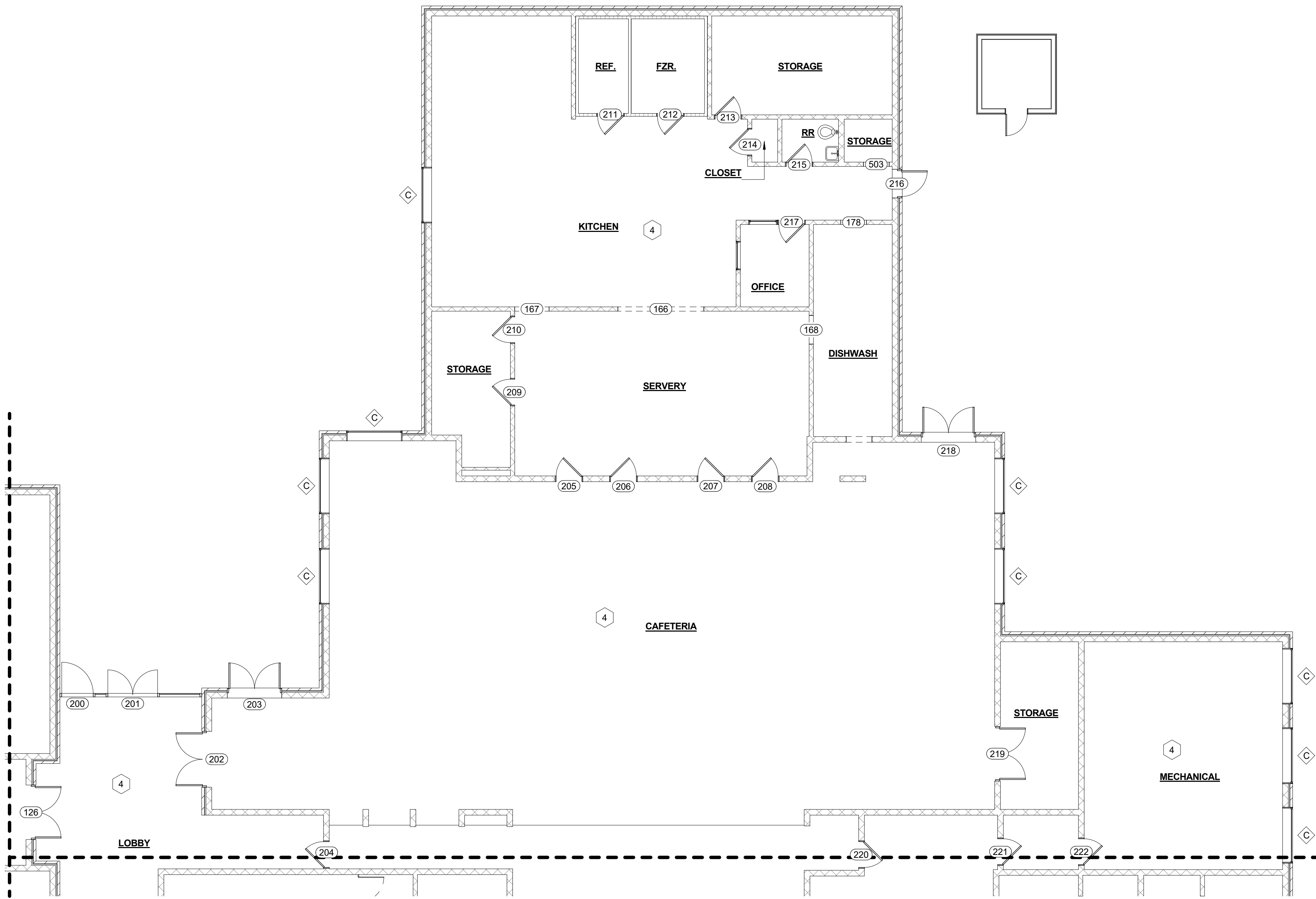
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ENLARGED AREA D

A1.03

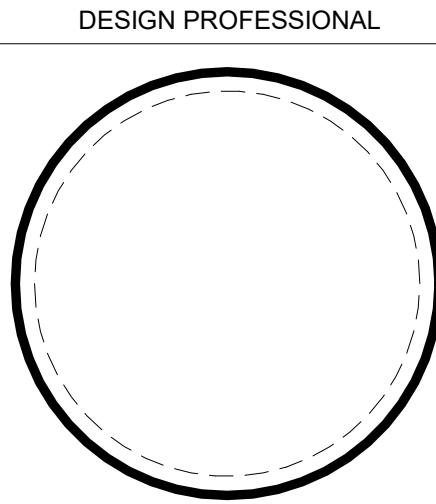
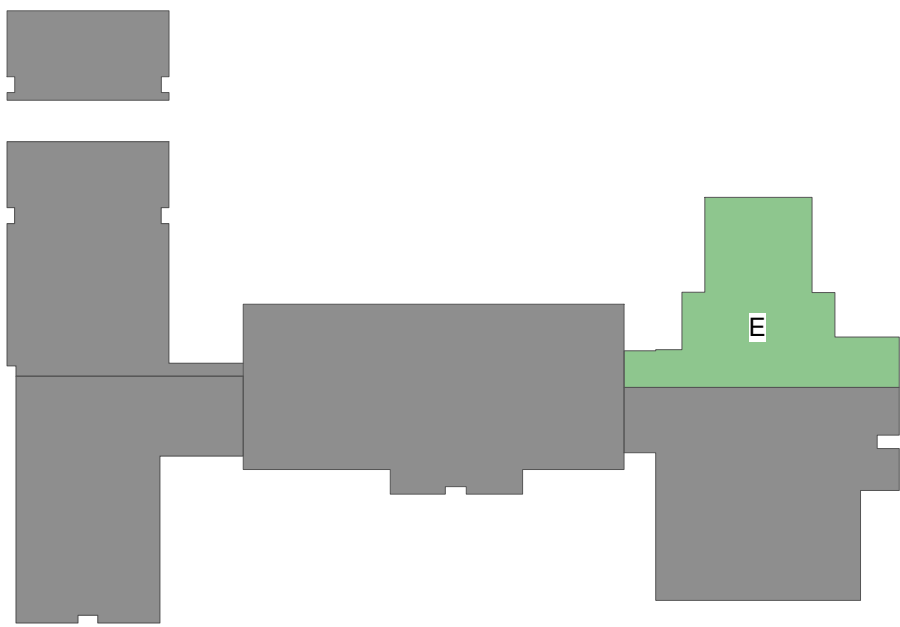
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ENLARGED AREA E

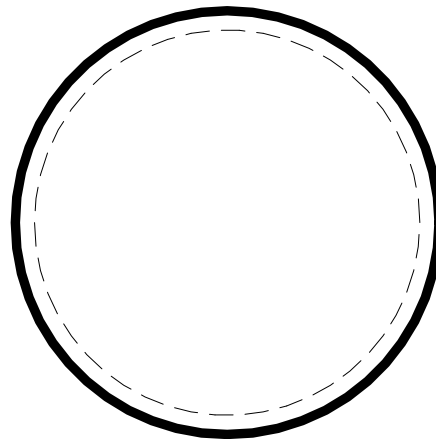
A1.04

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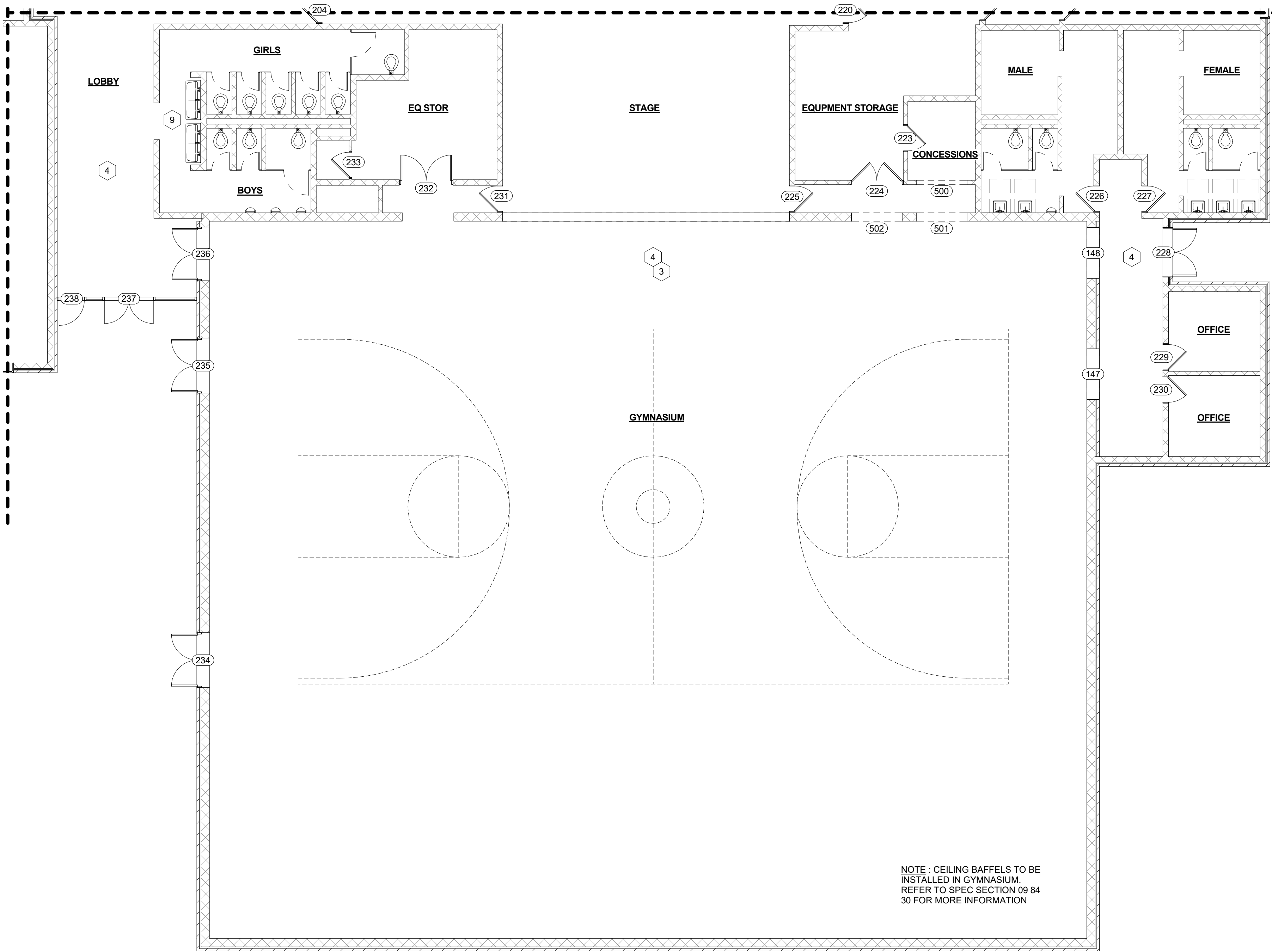
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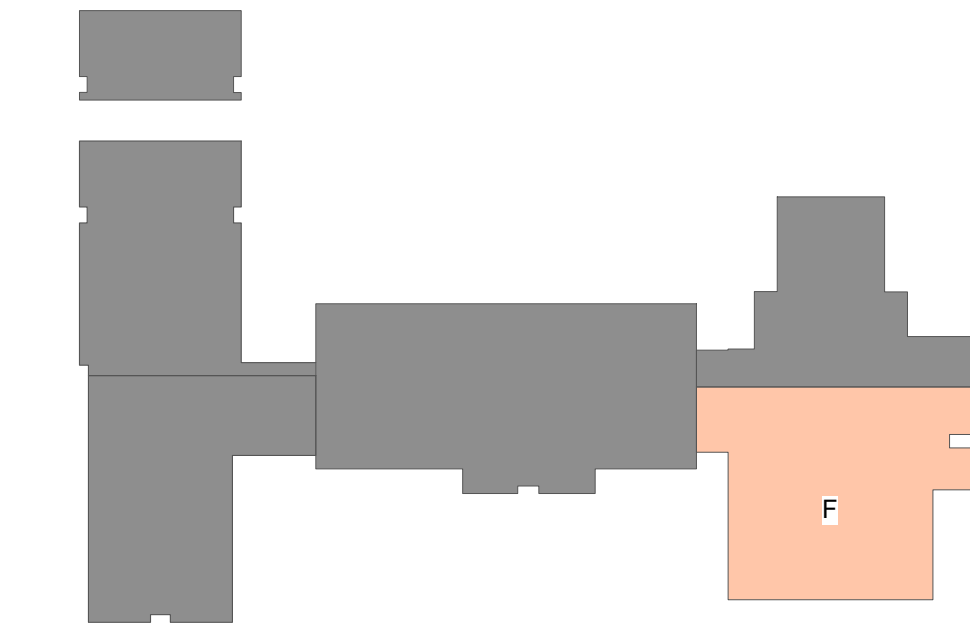
ENLARGED AREA F

A1.05

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NOTE : CEILING BAFFELS TO BE  
INSTALLED IN GYMNASIUM.  
REFER TO SPEC SECTION 09 84  
30 FOR MORE INFORMATION



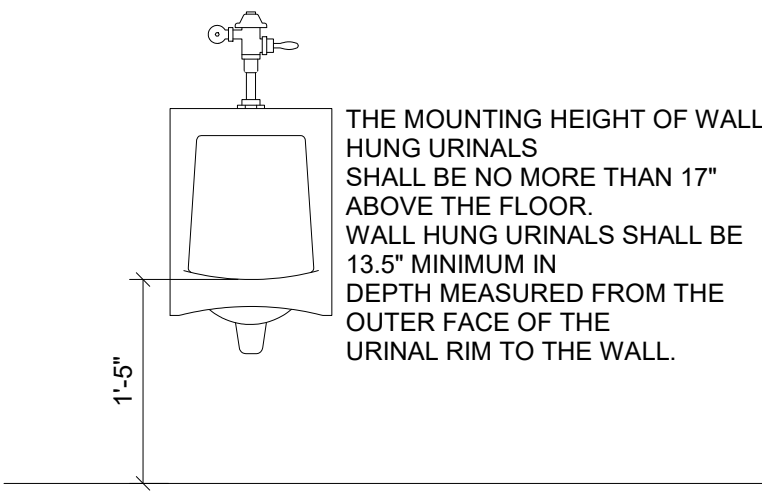
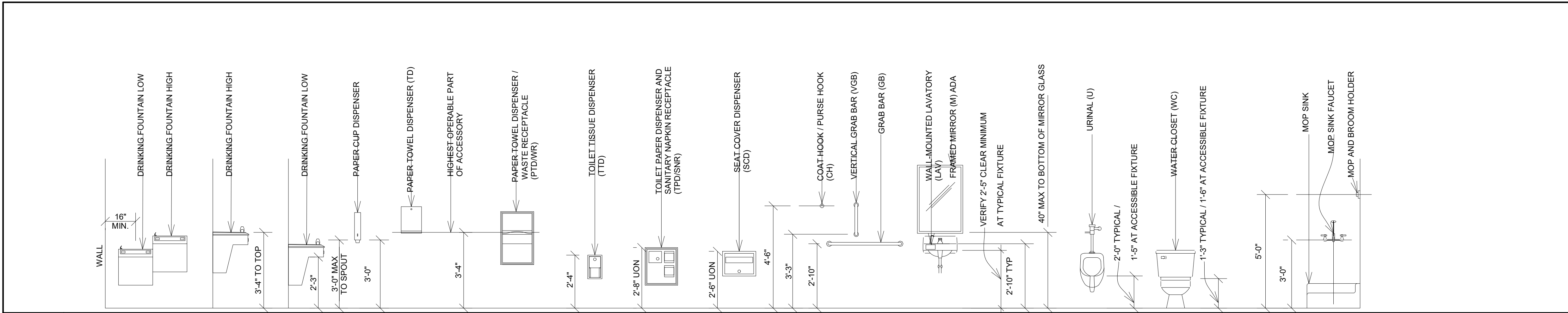
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ENLARGED - AREA F

1/8" = 1'-0"

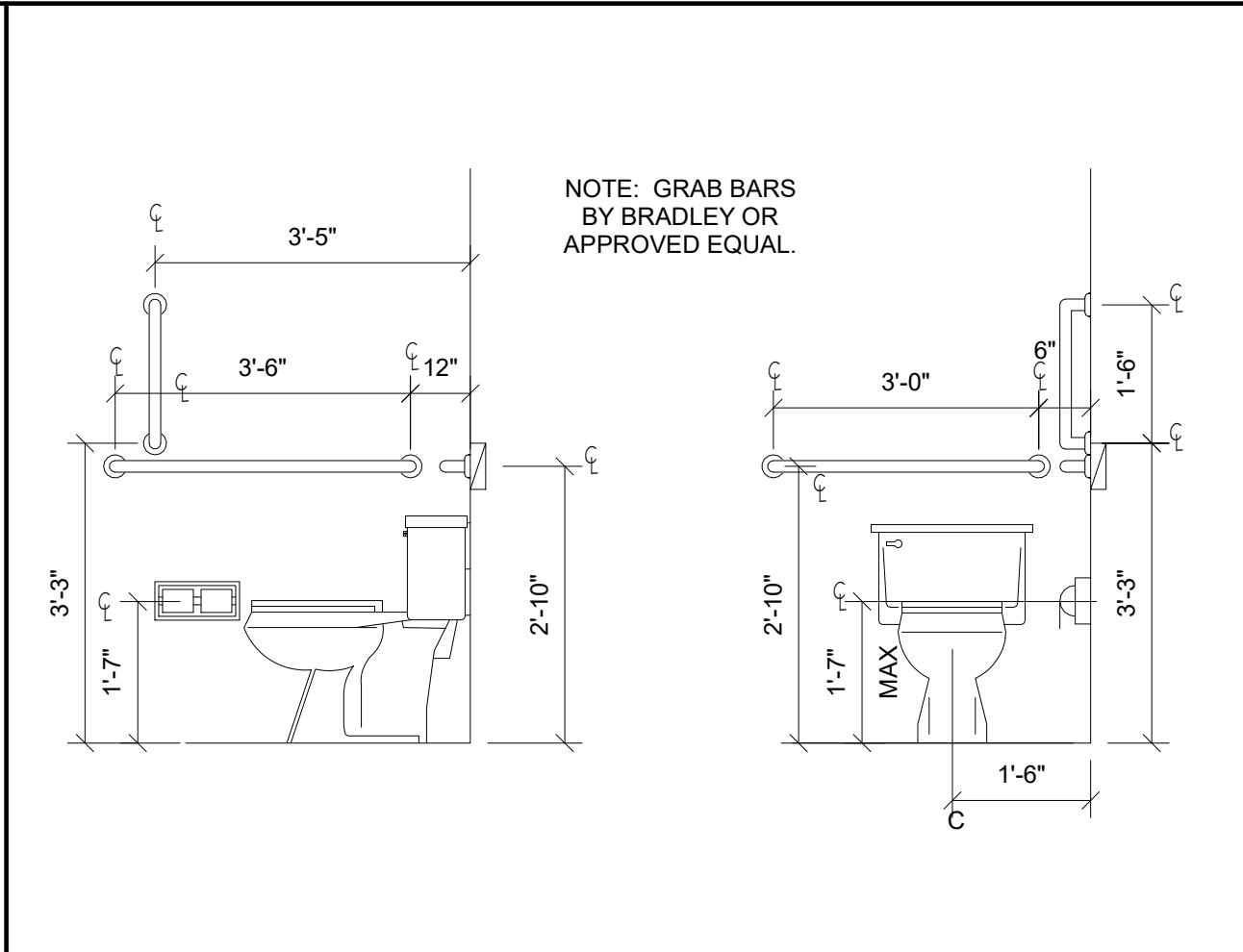
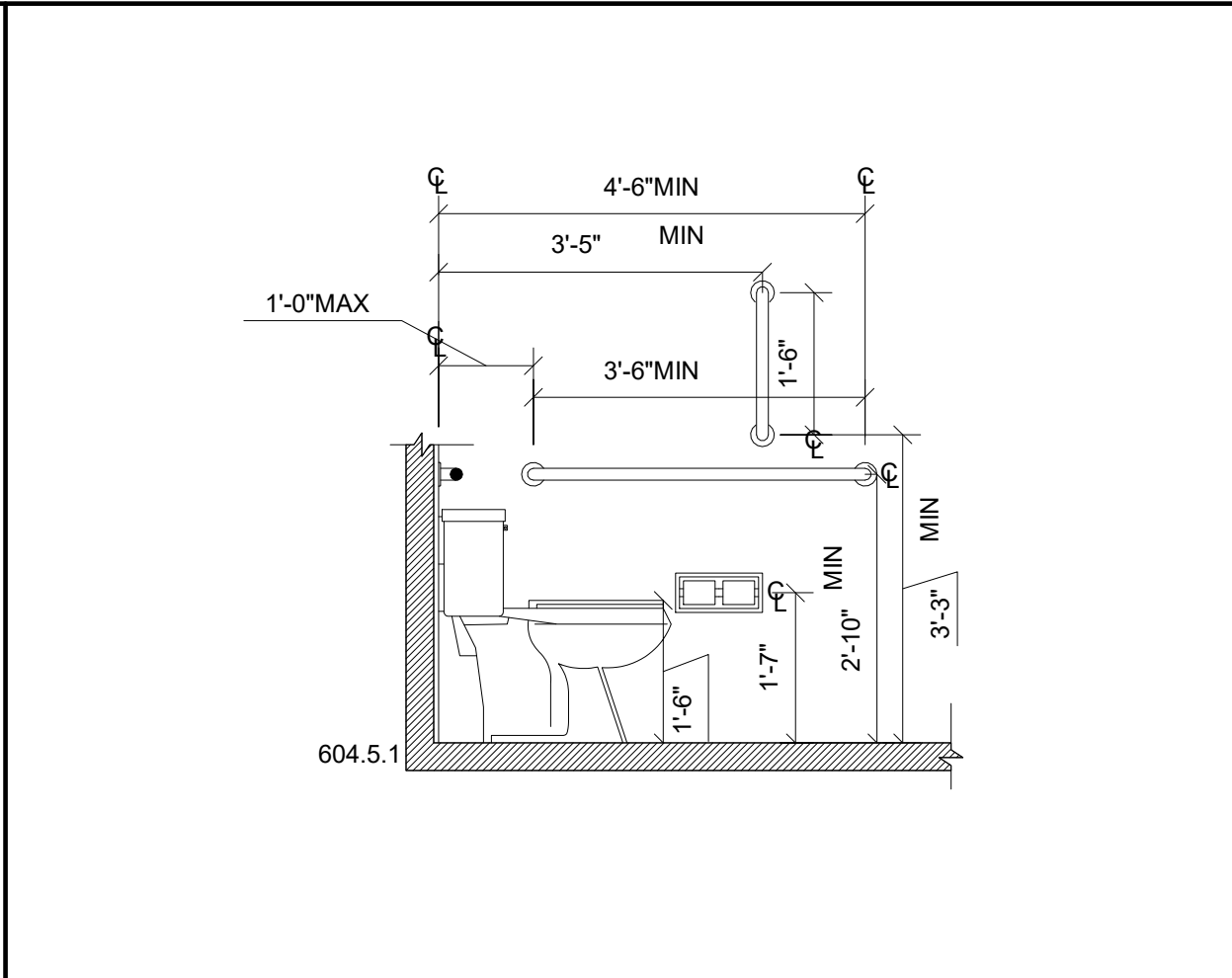
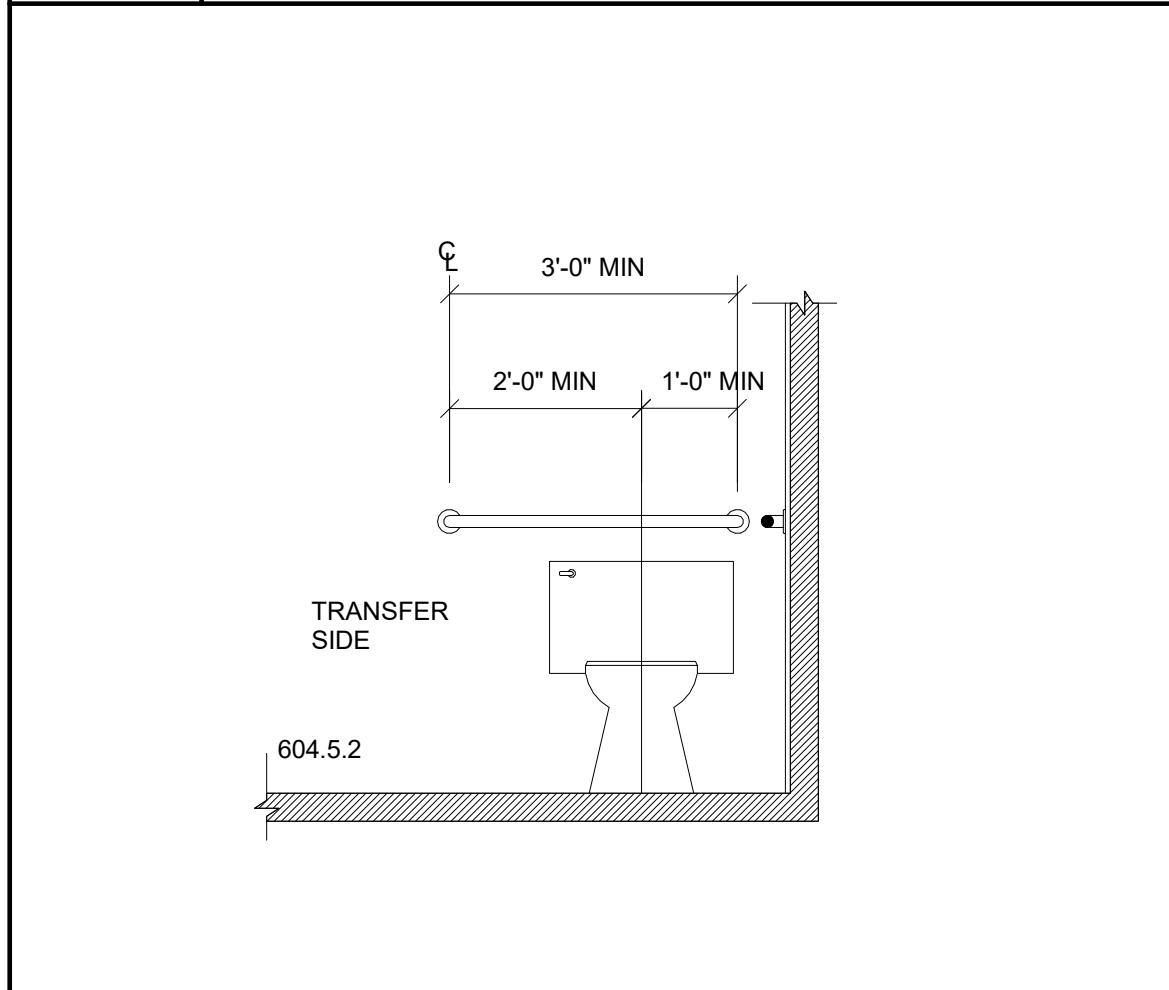
KEY PLANS





**3** **TYPICAL HEIGHTS**  
3/8" = 1'-0"

**4** **A1076 URINAL MOUNTING HEIGHT**  
3/4" = 1'-0"

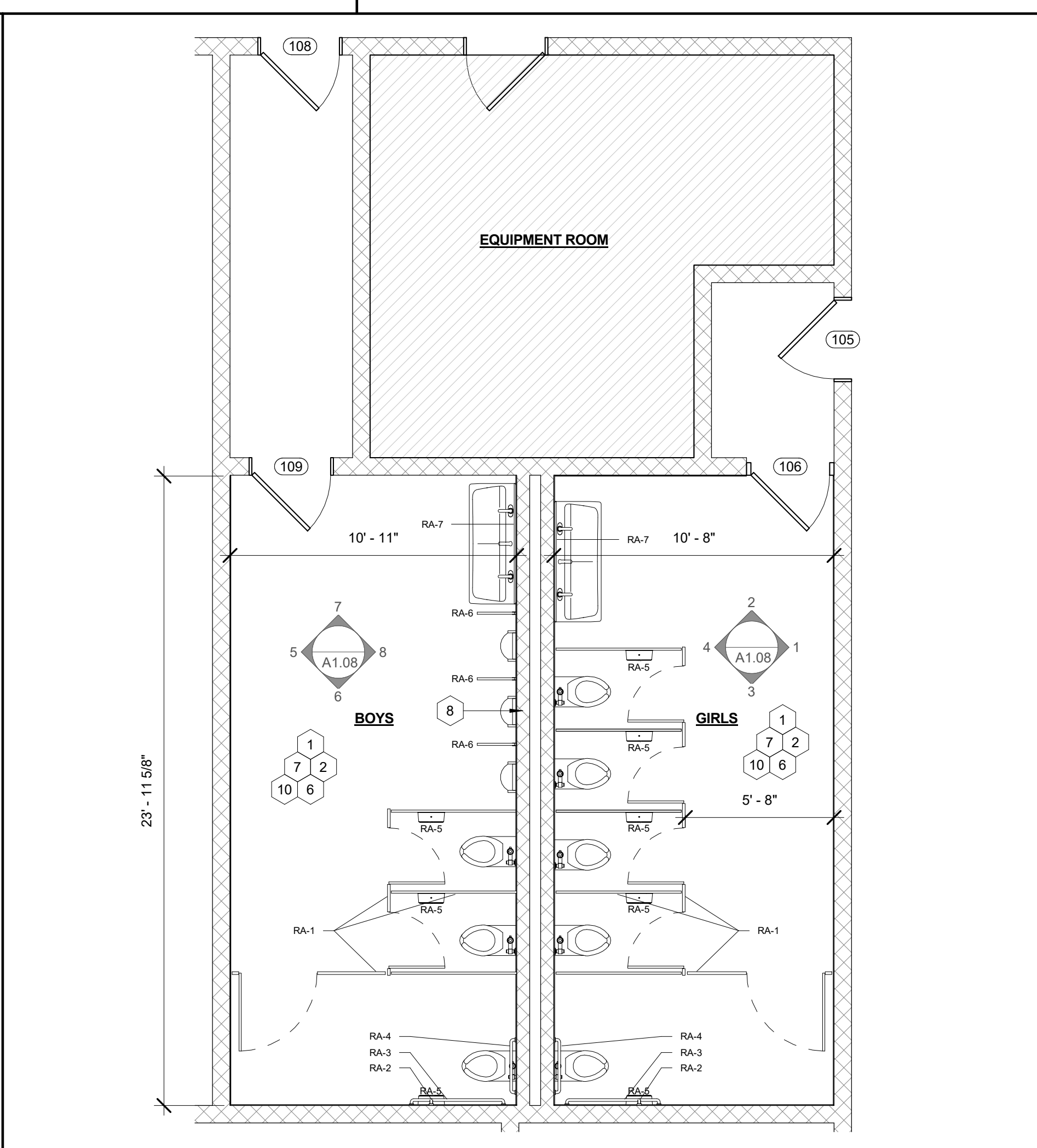
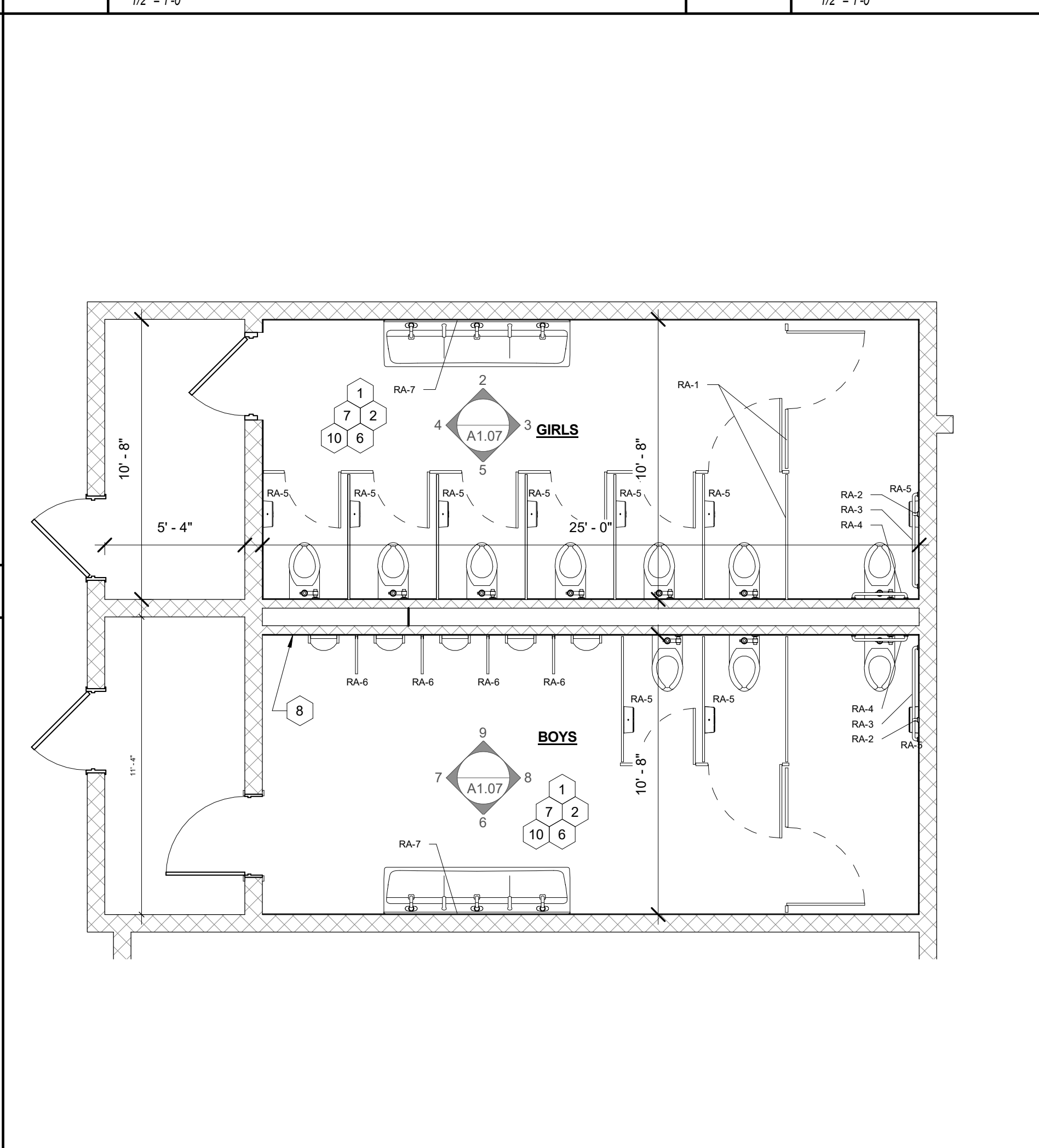
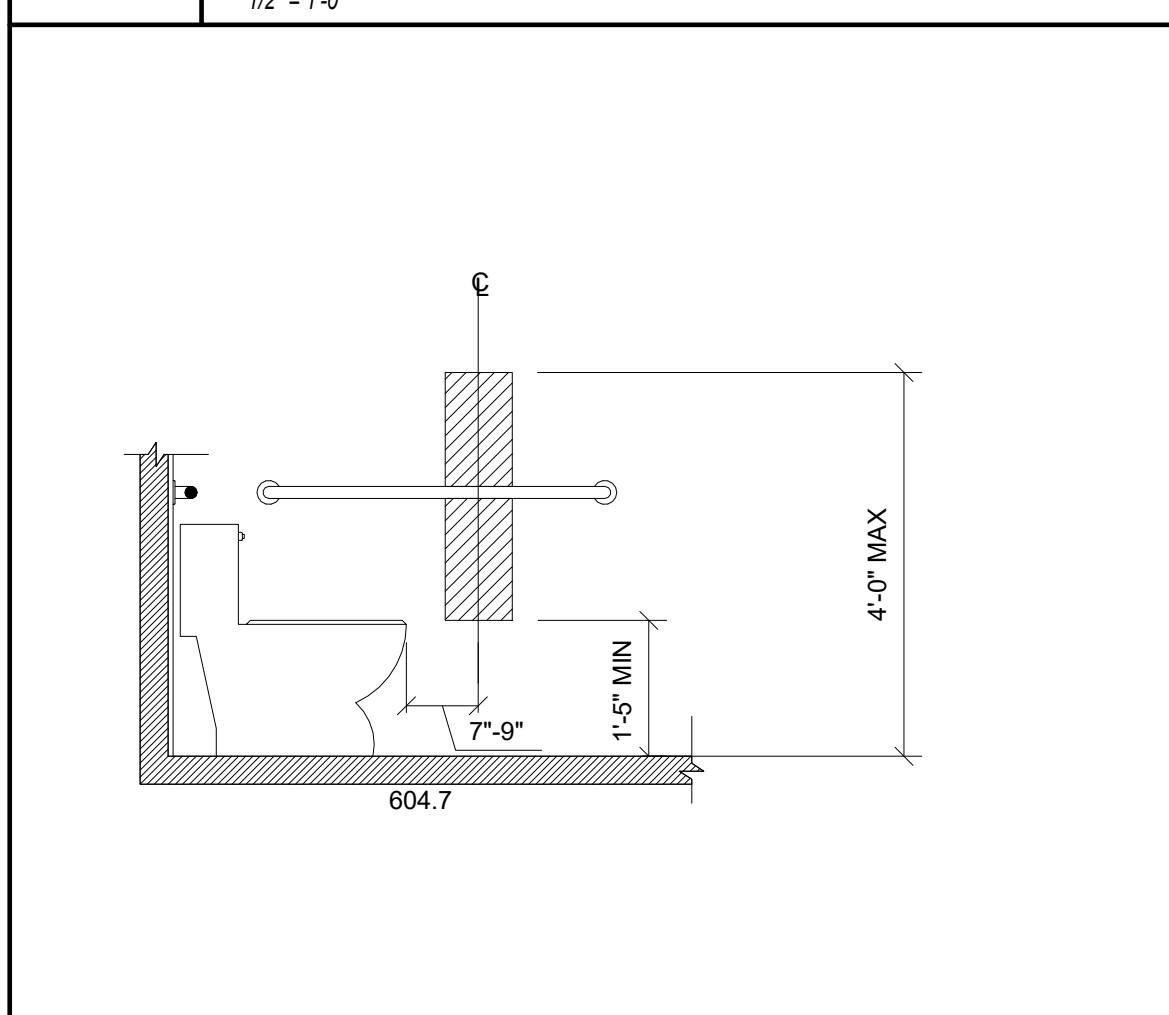


RESTROOM ACCESSORIES SCHEDULE				
CODE	DESCRIPTION	MANUFACTURER	PRODUCT	COMMENTS
RA-1	RESTROOM PARTITIONS	METPAR	TYPE FT700-FLOOR MOUNTED, S.S.	ENSURE ADA CLEARANCES ARE MET
RA-2	STAINLESS STEEL GRAB BARS	BOBRICK	B-580616 X 18	ADA VERTICAL GRAB BAR
RA-3	STAINLESS STEEL GRAB BARS	BOBRICK	B-580616 X 42	ADA HORIZONTAL GRAB BAR PARALLEL TO W.C.
RA-4	STAINLESS STEEL GRAB BARS	BOBRICK	B-580616 X 36	ADA HORIZONTAL GRAB BAR BEHIND W.C.
RA-5	TOILET TISSUE DISPENSER	BOBRICK	B-2890 JUMBO-ROLL DISPENSER	SURFACE MOUNT TO C.T. OR PARTITION
RA-6	URINAL SCREENS	METPAR	TYPE WH WALL HUNG URINAL SCREENS, S.S.	HEIGHT 48" T X24" D
RA-7	MIRROR UNIT	BOBRICK	B-165 2436 CHANNEL FRAME MIRROR	HEIGHT 36" T X24" W, 2 AT DOUBLE SINK, 3 AT TRIPLE

**8** **A1080 REAR WALL GRAB BAR AT WATER CLOSET**  
1/2" = 1'-0"

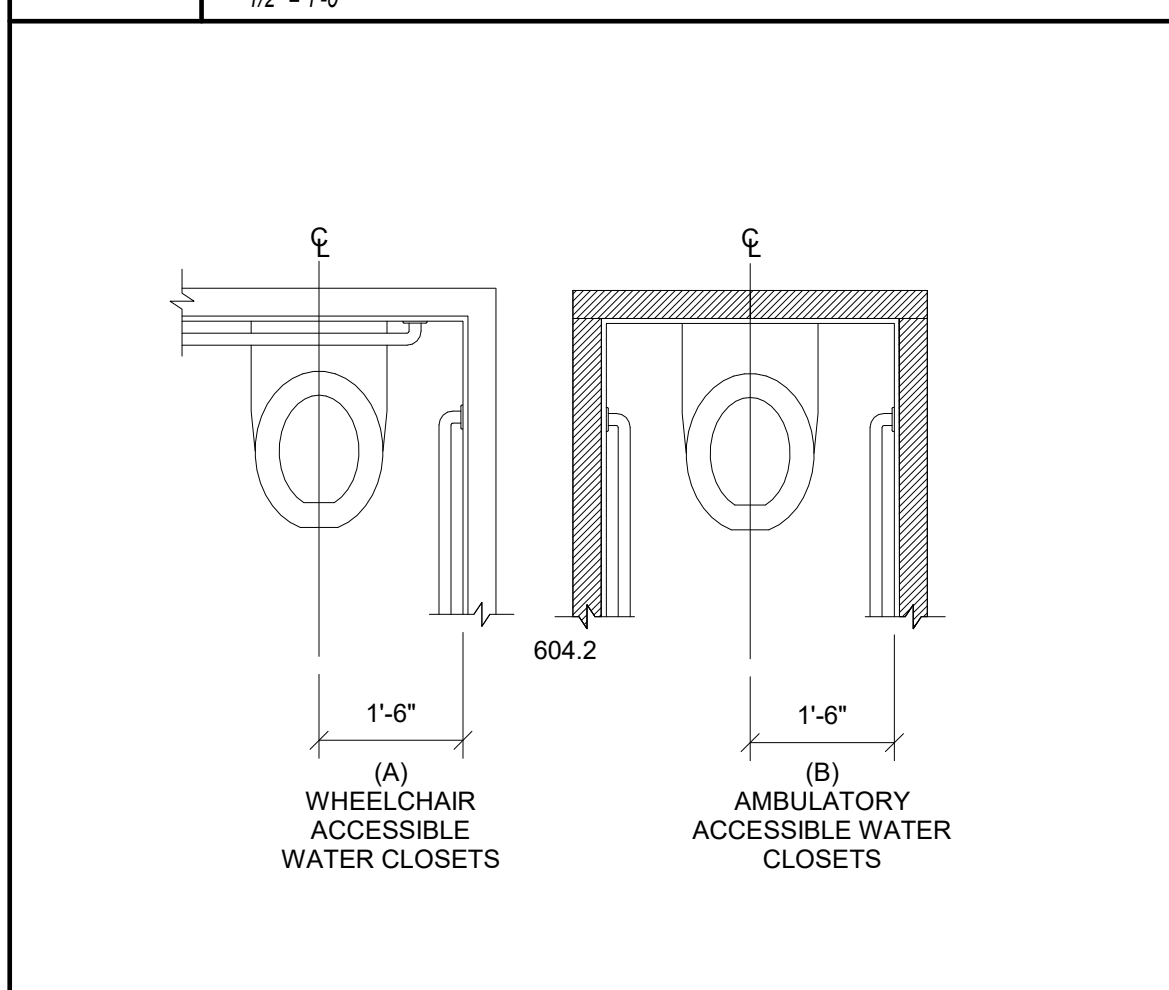
**7** **A1079 SIDE WALL GRAB BAR AT WATER CLOSET**  
1/2" = 1'-0"

**6** **A1078 WATER CLOSET CLEARANCES**  
1/2" = 1'-0"



**9** **A1081 DISPENSER OUTLET LOCATION**  
1/2" = 1'-0"

**5** **A1077 HEIGHT AND DEPTH OF URINALS**  
1/2" = 1'-0"



**2** **ENLARGED PLAN - WEST WING RESTROOMS**  
1/4" = 1'-0"

**1** **ENLARGED - FOYER RESTROOM**  
1/4" = 1'-0"

**SHEET NOTES**

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**PRELIMINARY:**  
**NOT FOR CONSTRUCTION**

DESIGN PROFESSIONAL

PLAN REVIEWER

BY: FAB, KCC, CLP, JEP  
DATE: 02/16/2021  
SET: CLIENT REVIEW

SD DD CD

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X	DDMMYYYY REVISION DESCRIPTION

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Somerset, Kentucky  
(606) 687 - 9233  
www.decoarchitects.co

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**ENLARGED RESTROOM PLANS**

**A1.06**

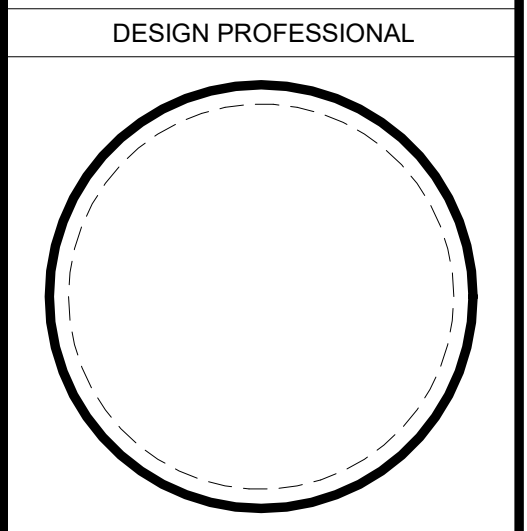
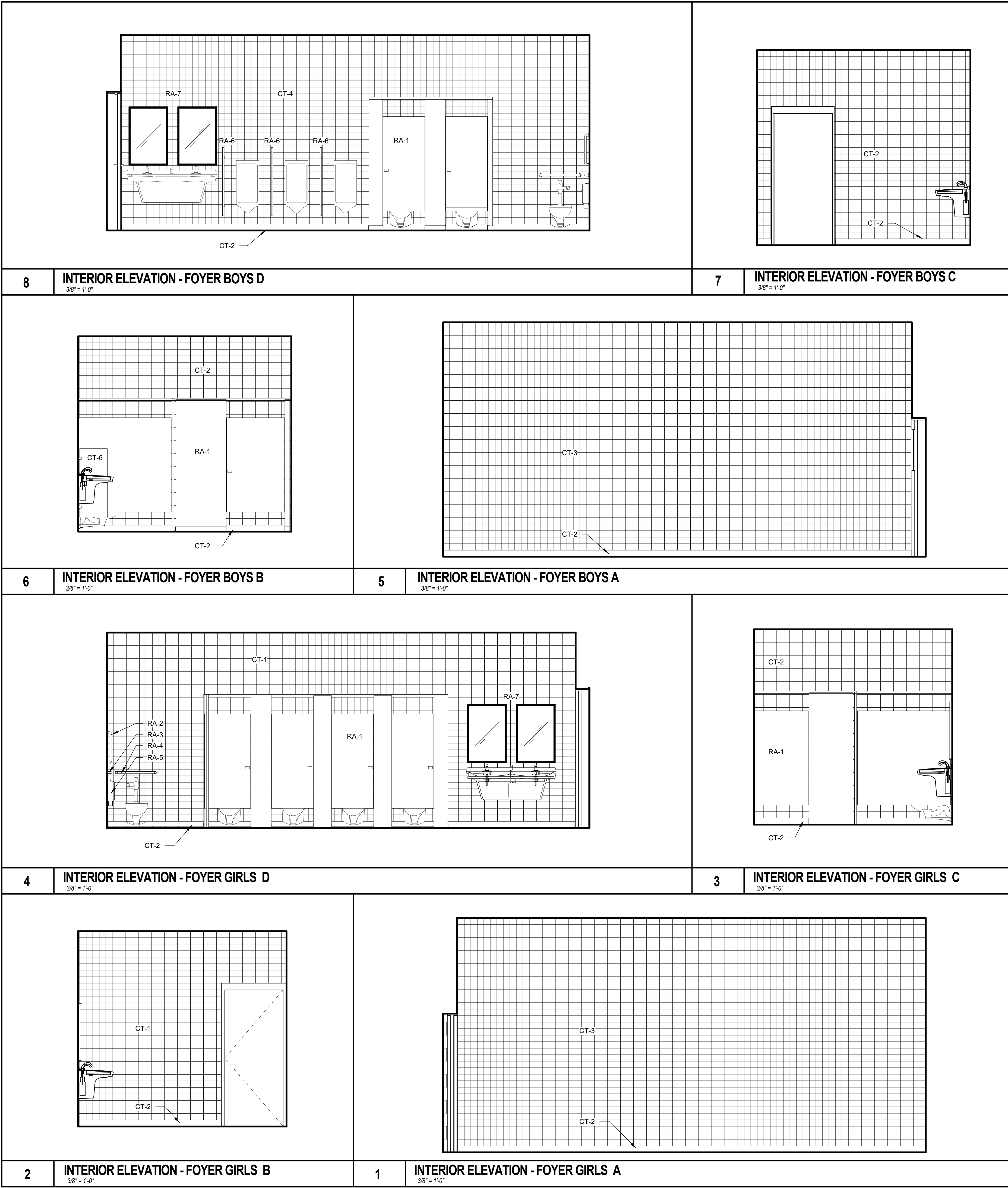
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RA-4	STAINLESS STEEL GRAB BARS	BOBRICK	B-580616 X 36	ADA HORIZONTAL GRAB BAR BEHIND W.C.
RA-5	TOILET TISSUE DISPENSER	BOBRICK	B-2890 JUMBO-ROLL DISPENSER	SURFACE MOUNT TO C.T. OR PARTITION
RA-6	URNAL SCREENS	METPAR	TYPE WH WALL HUNG URINAL SCREENS, S.S.	HEIGHT 48" T X 24" D
RA-7	MIRROR UNIT	BOBRICK	B-165 2436 CHANNEL FRAME MIRROR	HEIGHT 36" T X 24" W, 2 AT DOUBLE SINK, 3 AT TRIPLE



PLAN REVIEWER	
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BY	FAB, KCC, CLP, JEP
DATE	02/16/2021
SET	CLIENT REVIEW

REVISION	DESCRIPTION
X	DDMMYYYY REVISION DESCRIPTION



**TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2021**

515 W MAIN ST  
ELKTON, KENTUCKY 42220

20200821

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**ENLARGED RESTROOM  
ELEVATIONS / DETAILS**

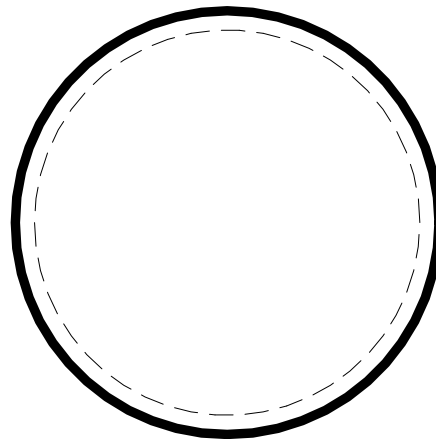
**A1.08**

**ARCHITECTURAL**





DESIGN PROFESSIONAL



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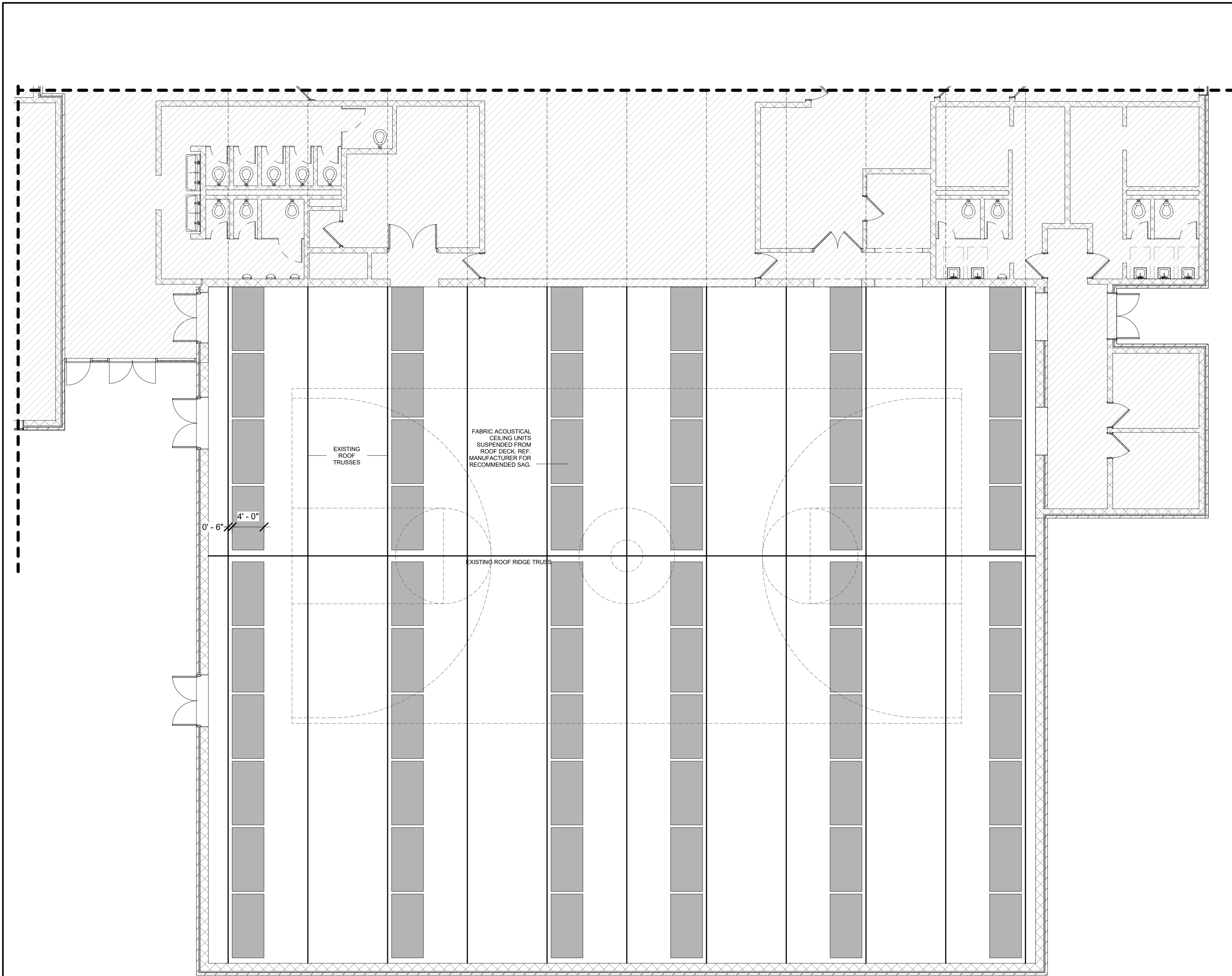
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REFLECTED CEILING  
PLAN - GYMNASIUM  
BAFFLES

A1.09

ARCHITECTURAL

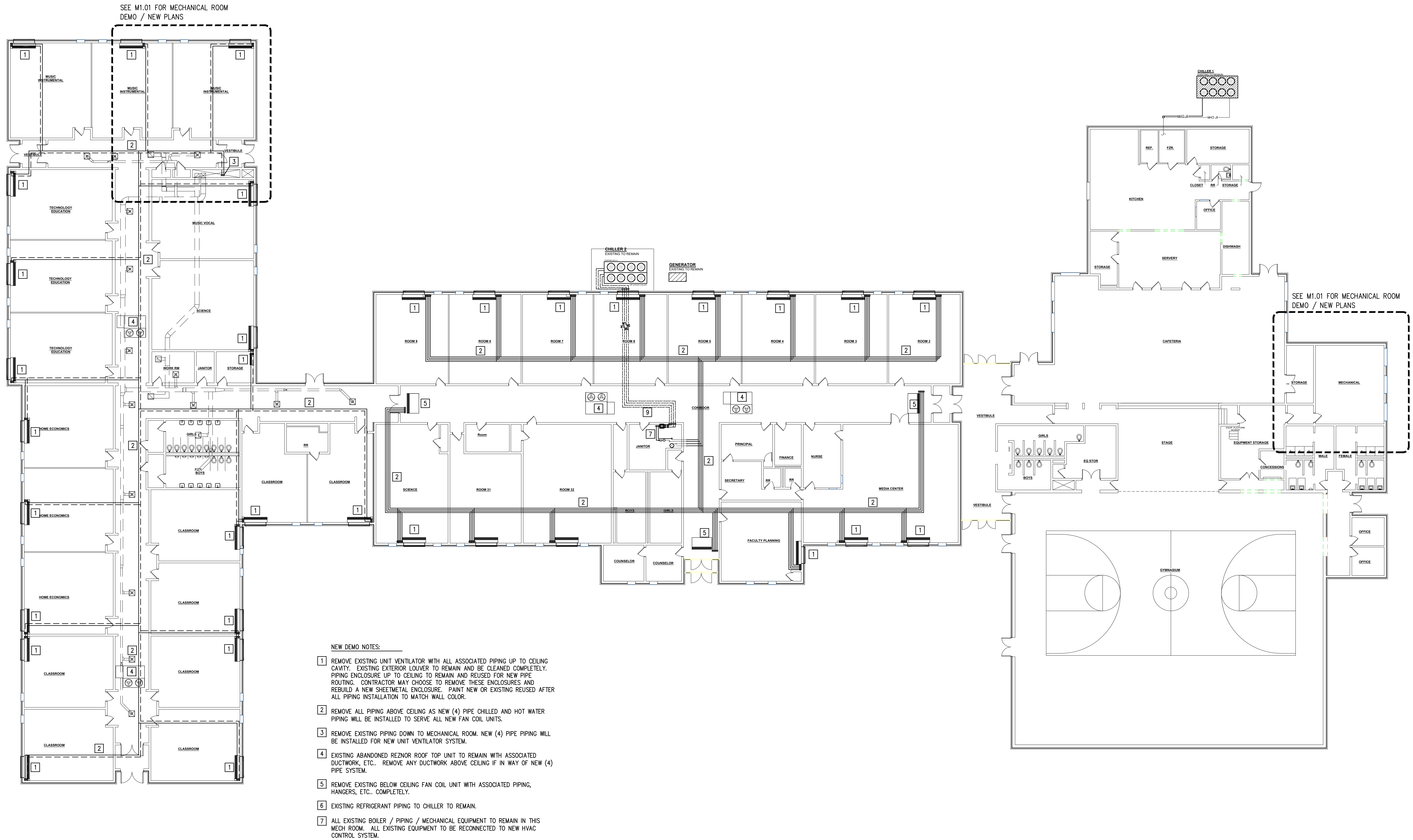
REFERENCE SPECIFICATION SECTION 09 84 00 -  
SOUND ABSORBING WALL AND CEILING UNITS  
FOR PRODUCT SPECIFICS. REF. MANUFACTURER  
FOR STANDARD DETAILS AND INSTALLATION  
PRACTICES.



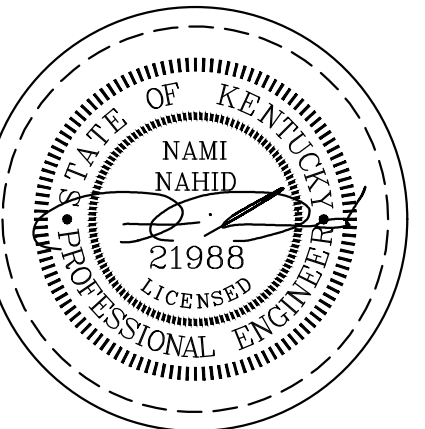
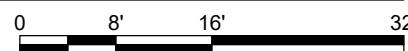
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REFLECTED CEILING - ENLARGED AREA F  
1/8" = 1'-0"





1 **OVERALL MECHANICAL DEMO PLAN**  
SCALE: 1/16"=1'-0"



DESIGN PROFESSIONAL



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DATE: 02/18/2021  
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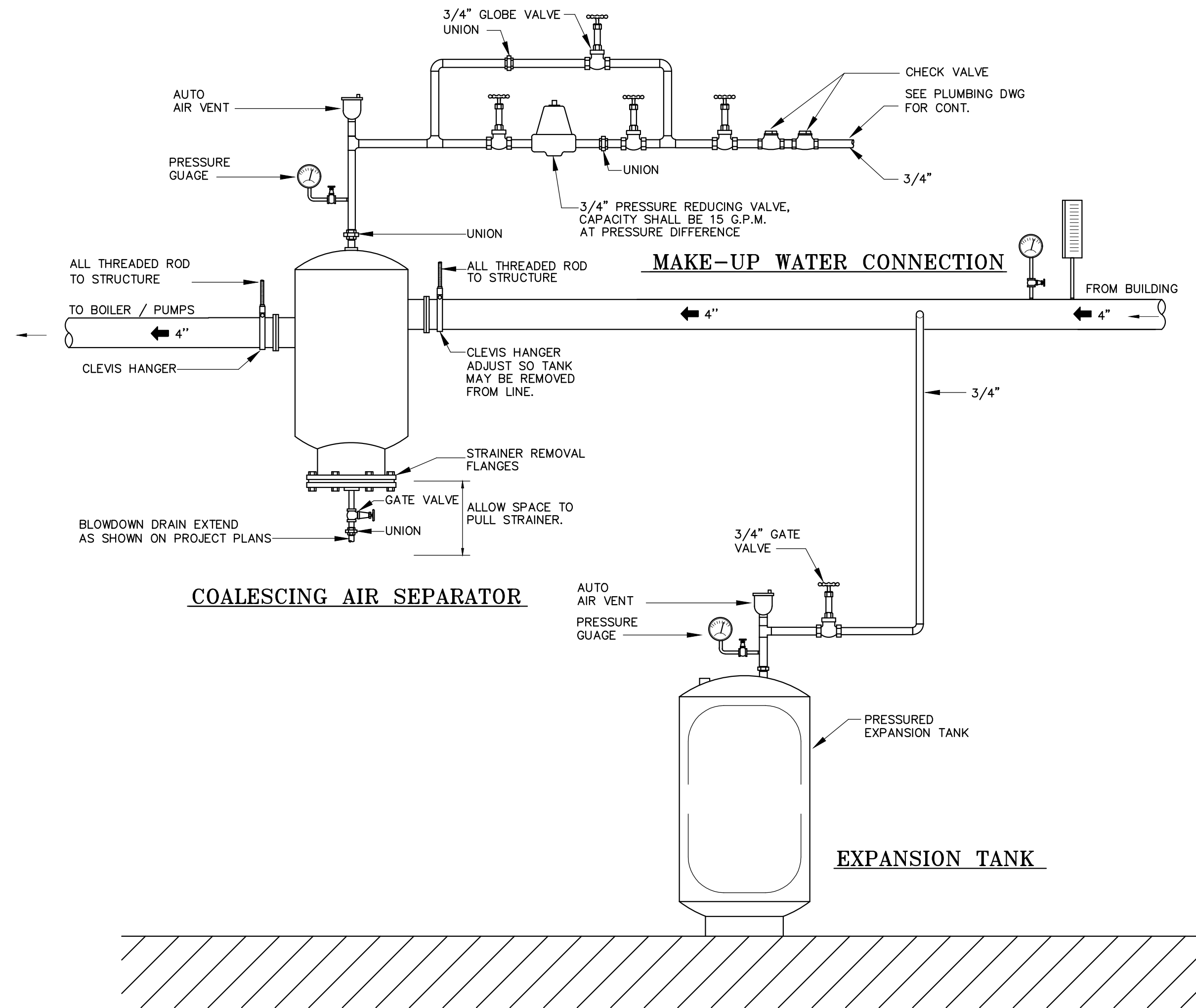
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MECHANICAL DEMO  
PLAN

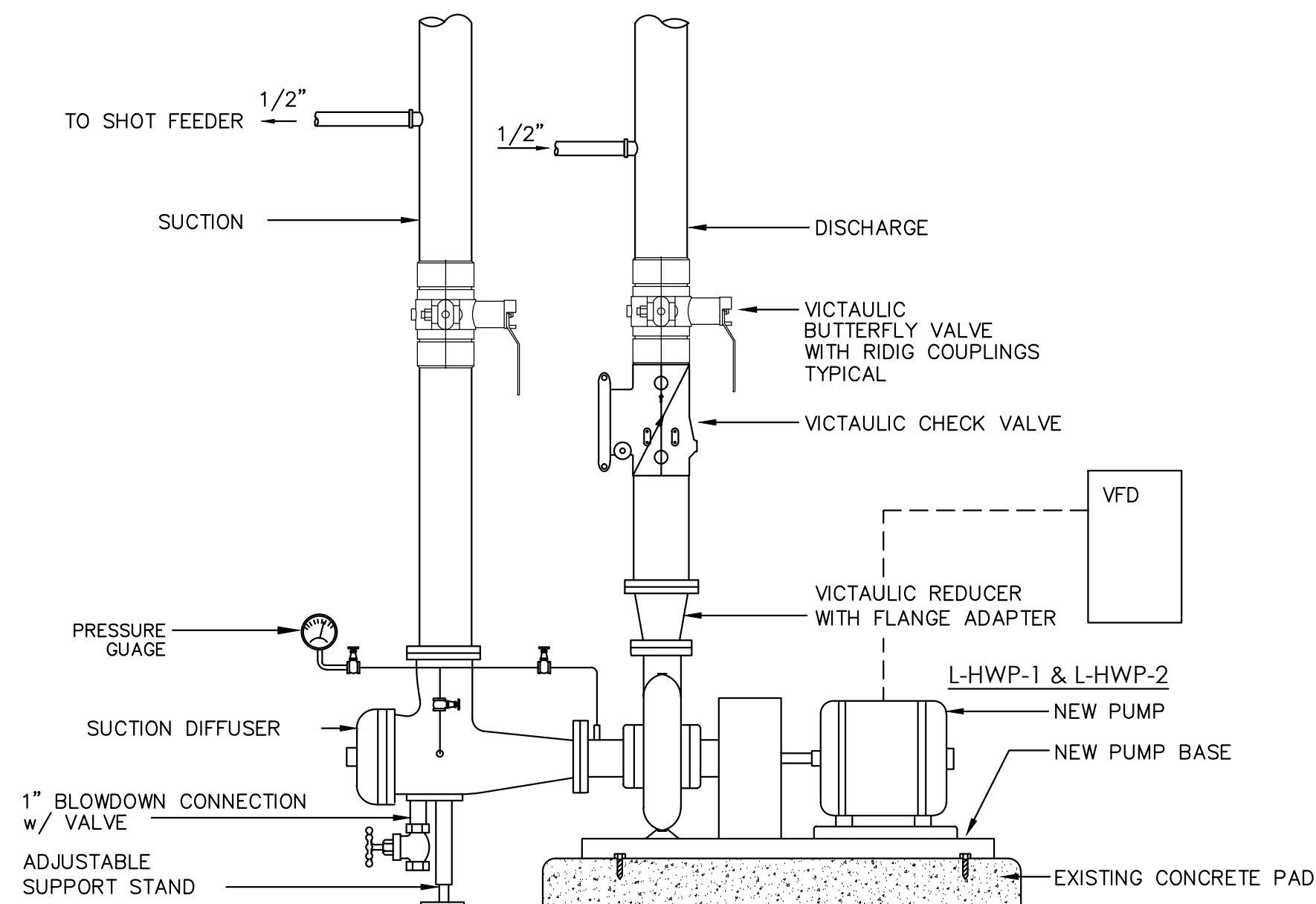
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MECHANICAL

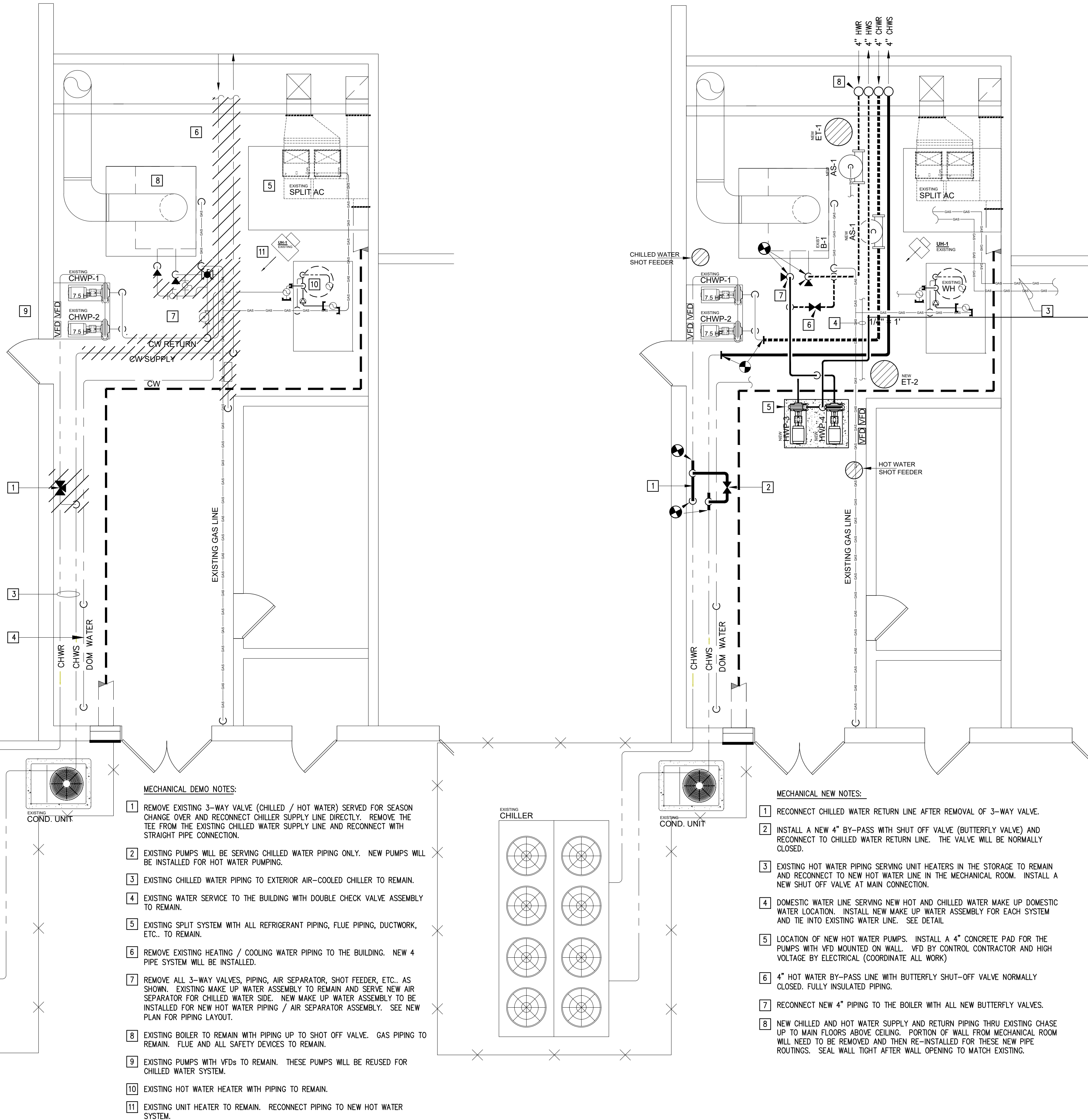




MAKE-UP WATER / AIR SEP. / EXP TANK PIPING SCHEMATIC  
FOR BOTH CHILLED AND HOT WATER SYSTEM



VFD CONTROLLED PUMP PIPING SCHEMATIC  
NOT TO SCALE



MECHANICAL DEMO NOTES:

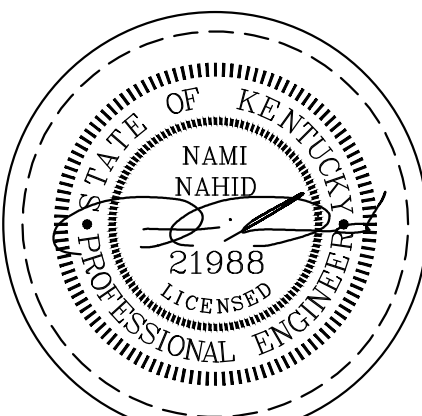
- 1 REMOVE EXISTING 3-WAY VALVE (CHILLED / HOT WATER) SERVED FOR SEASON CHANGE OVER AND RECONNECT CHILLER SUPPLY LINE DIRECTLY. REMOVE THE TEE FROM THE EXISTING CHILLED WATER SUPPLY LINE AND RECONNECT WITH STRAIGHT PIPE CONNECTION.
- 2 EXISTING PUMPS WILL BE SERVING CHILLED WATER PIPING ONLY. NEW PUMPS WILL BE INSTALLED FOR HOT WATER PUMPING.
- 3 EXISTING CHILLED WATER PIPING TO EXTERIOR AIR-COOLED CHILLER TO REMAIN.
- 4 EXISTING WATER SERVICE TO THE BUILDING WITH DOUBLE CHECK VALVE ASSEMBLY TO REMAIN.
- 5 EXISTING SPLIT SYSTEM WITH ALL REFRIGERANT PIPING, FLUE PIPING, DUCTWORK, ETC. TO REMAIN.
- 6 REMOVE EXISTING HEATING / COOLING WATER PIPING TO THE BUILDING. NEW 4 PIPE SYSTEM WILL BE INSTALLED.
- 7 REMOVE ALL 3-WAY VALVES, PIPING, AIR SEPARATOR, SHOT FEEDER, ETC., AS SHOWN. EXISTING MAKE UP WATER ASSEMBLY TO REMAIN AND SERVE NEW AIR SEPARATOR FOR CHILLED WATER SIDE. NEW MAKE UP WATER ASSEMBLY TO BE INSTALLED FOR NEW HOT WATER PIPING / AIR SEPARATOR ASSEMBLY. SEE NEW PLAN FOR PIPING LAYOUT.
- 8 EXISTING BOILER TO REMAIN WITH PIPING UP TO SHUT OFF VALVE. GAS PIPING TO REMAIN. FLUE AND ALL SAFETY DEVICES TO REMAIN.
- 9 EXISTING PUMPS WITH VFDs TO REMAIN. THESE PUMPS WILL BE REUSED FOR CHILLED WATER SYSTEM.
- 10 EXISTING HOT WATER HEATER WITH PIPING TO REMAIN.
- 11 EXISTING UNIT HEATER TO REMAIN. RECONNECT PIPING TO NEW HOT WATER SYSTEM.

MECHANICAL NEW NOTES:

- 1 RECONNECT CHILLED WATER RETURN LINE AFTER REMOVAL OF 3-WAY VALVE.
- 2 INSTALL A NEW 4" BY-PASS WITH SHUT OFF VALVE (BUTTERFLY VALVE) AND RECONNECT TO CHILLED WATER RETURN LINE. THE VALVE WILL BE NORMALLY CLOSED.
- 3 EXISTING HOT WATER PIPING SERVING UNIT HEATERS IN THE STORAGE TO REMAIN AND RECONNECT TO NEW HOT WATER LINE IN THE MECHANICAL ROOM. INSTALL A NEW SHUT OFF VALVE AT MAIN CONNECTION.
- 4 DOMESTIC WATER LINE SERVING NEW HOT AND CHILLED WATER MAKE UP DOMESTIC WATER LOCATION. INSTALL NEW MAKE UP WATER ASSEMBLY FOR EACH SYSTEM AND TIE INTO EXISTING WATER LINE. SEE DETAIL.
- 5 LOCATION OF NEW HOT WATER PUMPS. INSTALL A 4" CONCRETE PAD FOR THE PUMPS WITH VFD MOUNTED ON WALL. VFD BY CONTROL CONTRACTOR AND HIGH VOLTAGE BY ELECTRICAL (COORDINATE ALL WORK)
- 6 4" HOT WATER BY-PASS LINE WITH BUTTERFLY SHUT-OFF VALVE NORMALLY CLOSED. FULLY INSULATED PIPING.
- 7 RECONNECT NEW 4" PIPING TO THE BOILER WITH ALL NEW BUTTERFLY VALVES.
- 8 NEW CHILLED AND HOT WATER SUPPLY AND RETURN PIPING THRU EXISTING CHASE UP TO MAIN FLOORS ABOVE CEILING. PORTION OF WALL FROM MECHANICAL ROOM WILL NEED TO BE REMOVED AND THEN RE-INSTALLED FOR THESE NEW PIPE ROUTINGS. SEAL WALL TIGHT AFTER WALL OPENING TO MATCH EXISTING.

1 ENLARGED MECH ROOM - EXISTING / DEMO  
SCALE: 1/4"=1'-0"

2 ENLARGED MECH ROOM - NEW WORK  
SCALE: 1/4"=1'-0"



DESIGN PROFESSIONAL



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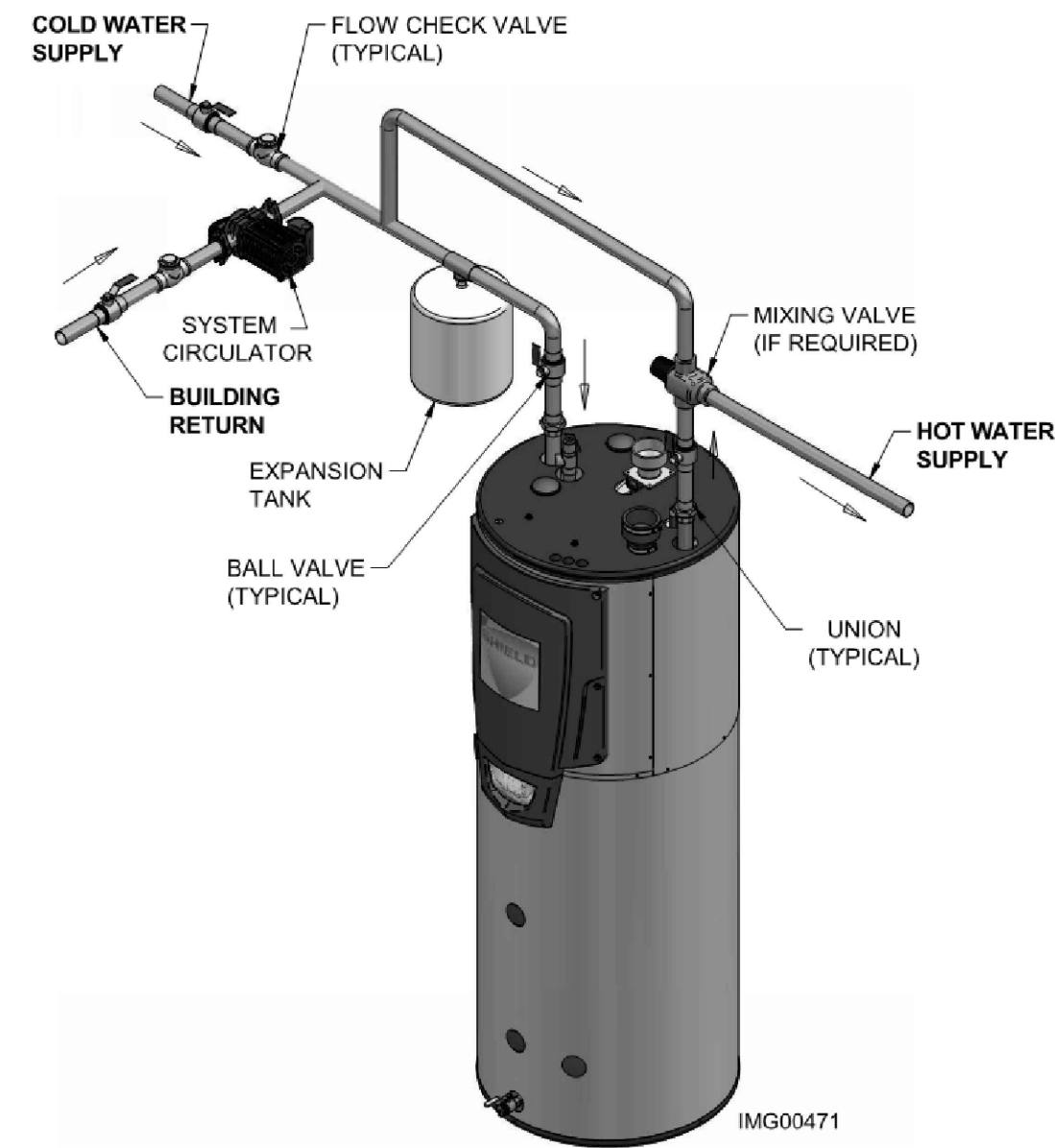
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MECHANICAL ROOMS  
ENLARGED NEW /  
DEMO PLAN

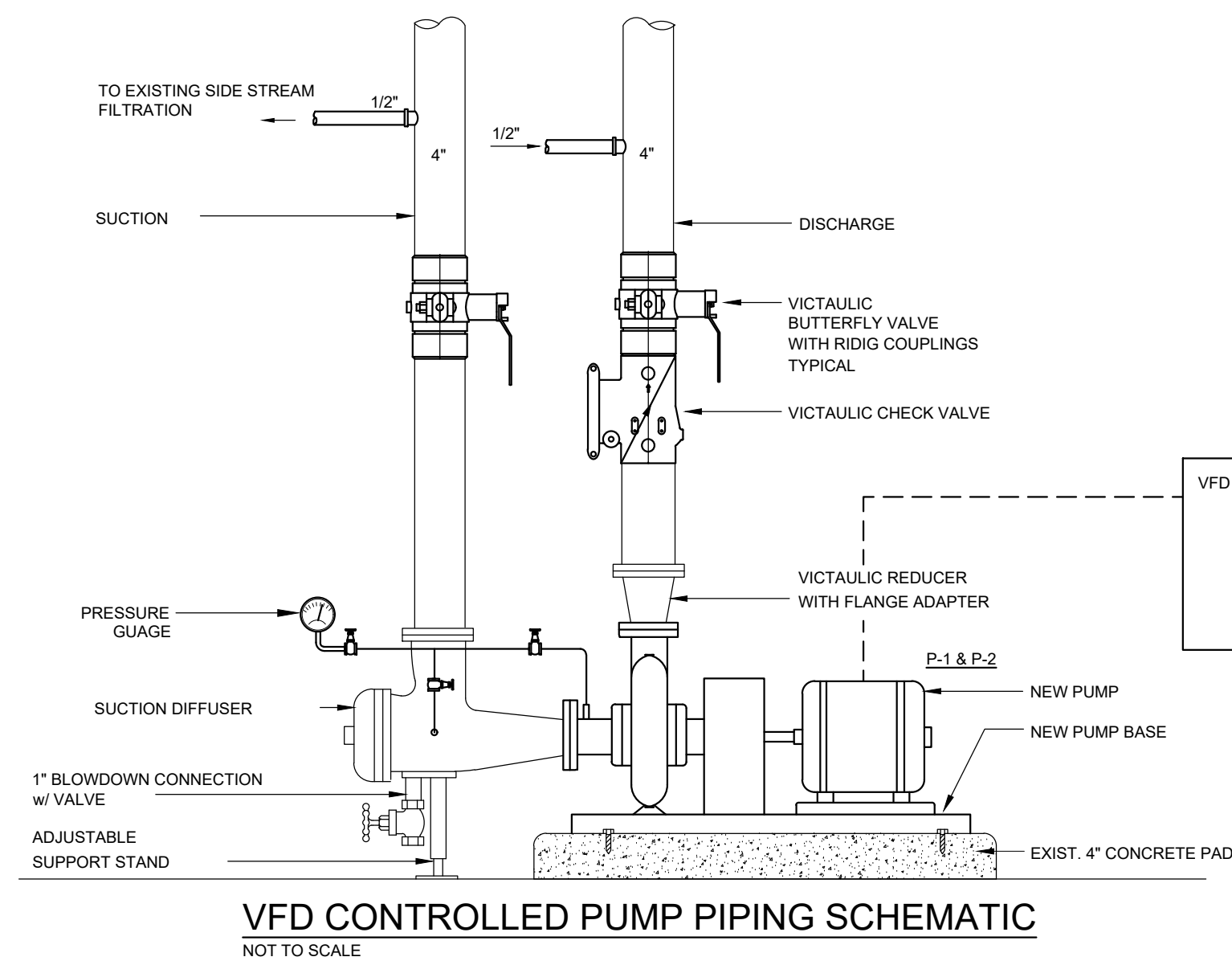
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MECHANICAL

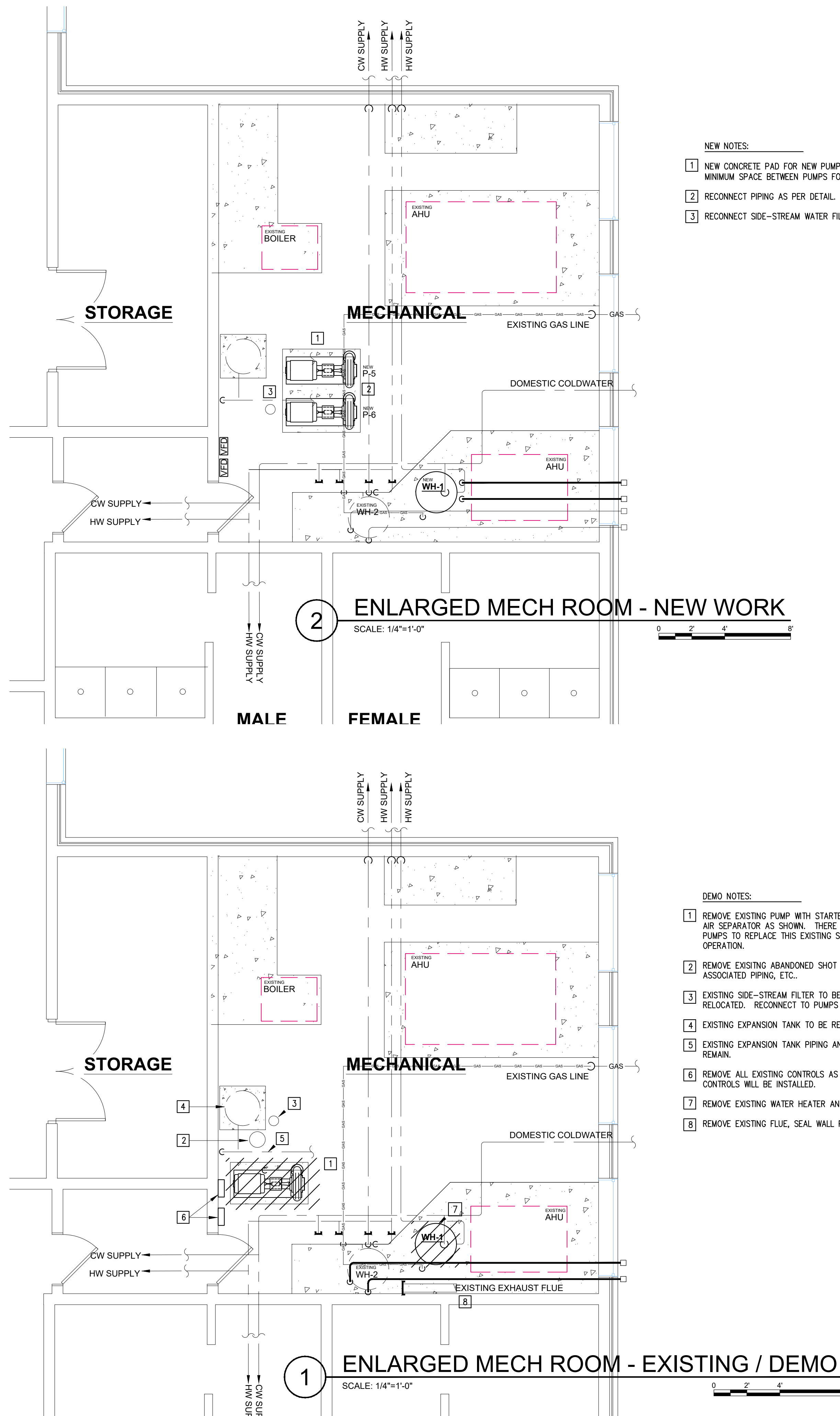




**WATER HEATER DETAIL**  
NO SCALE

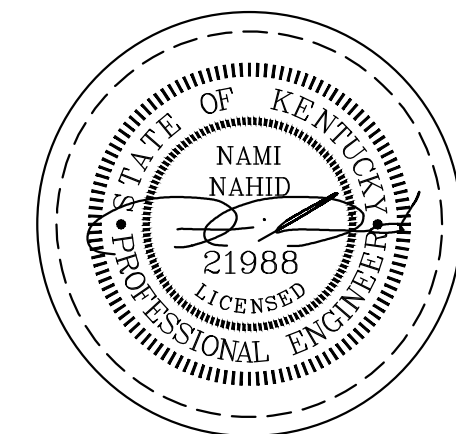


**VFD CONTROLLED PUMP PIPING SCHEMATIC**  
NOT TO SCALE



- NEW NOTES:**
- 1 NEW CONCRETE PAD FOR NEW PUMPS. PROVIDE 18\"/>

- DEMO NOTES:**
- 1 REMOVE EXISTING PUMP WITH STARTER AND PIPING UP TO AIR SEPARATOR AS SHOWN. THERE WILL BE TWO NEW VFD PUMPS TO REPLACE THIS EXISTING SINGLE PUMP OPERATION.
  - 2 REMOVE EXISTING ABANDONED SHOT FEEDER WITH ASSOCIATED PIPING, ETC..
  - 3 EXISTING SIDE-STREAM FILTER TO BE DISCONNECTED AND RELOCATED. RECONNECT TO PUMPS AT NEW LOCATION.
  - 4 EXISTING EXPANSION TANK TO BE REMAIN.
  - 5 EXISTING EXPANSION TANK PIPING AND MAKE UP WATER TO REMAIN.
  - 6 REMOVE ALL EXISTING CONTROLS AS NEW CAMPUS CONTROLS WILL BE INSTALLED.
  - 7 REMOVE EXISTING WATER HEATER AND REPLACE WITH NEW.
  - 8 REMOVE EXISTING FLUE, SEAL WALL PENETRATION.



DESIGN PROFESSIONAL



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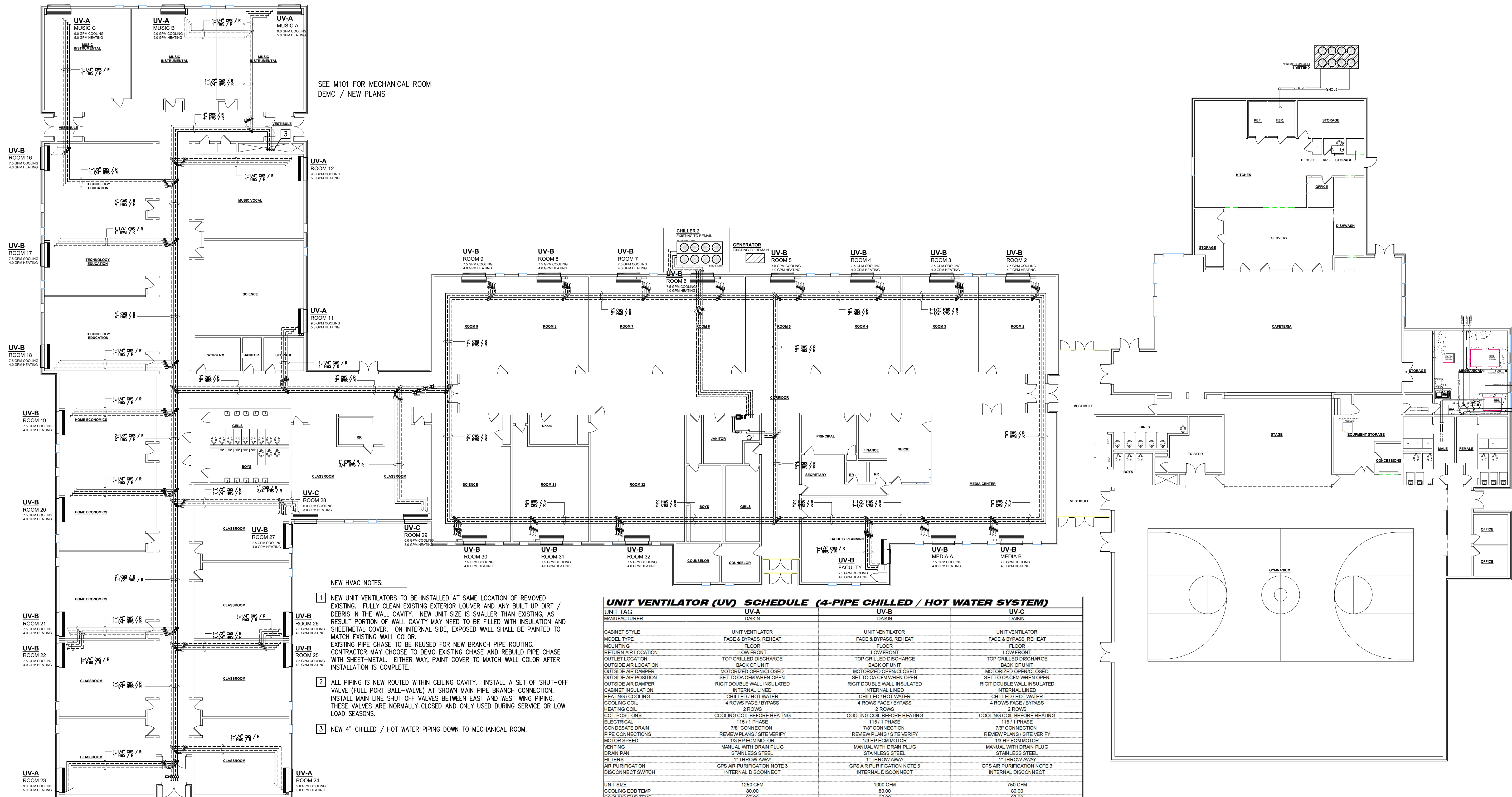
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MECHANICAL ROOMS  
ENLARGED NEW /  
DEMO PLAN

M1.02

MECHANICAL





SEE M101 FOR MECHANICAL ROOM DEMO / NEW PLANS

NEW HVAC NOTES:

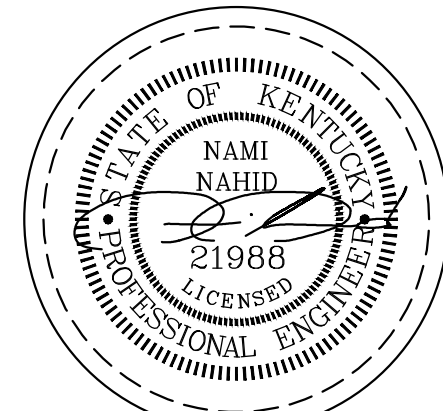
- 1 NEW UNIT VENTILATORS TO BE INSTALLED AT SAME LOCATION OF REMOVED EXISTING. FULLY CLEAN EXISTING EXTERIOR LOUVER AND ANY BUILT UP DIRT / DEBRIS IN THE WALL CAVITY. NEW UNIT SIZE IS SMALLER THAN EXISTING, AS RESULT PORTION OF WALL CAVITY MAY NEED TO BE FILLED WITH INSULATION AND SHEETMETAL COVER. ON INTERNAL SIDE, EXPOSED WALL SHALL BE PAINTED TO MATCH EXISTING WALL COLOR. EXISTING PIPE CHASE TO BE REUSED FOR NEW BRANCH PIPE ROUTING. CONTRACTOR MAY CHOOSE TO DEMO EXISTING CHASE AND REBUILD PIPE CHASE WITH SHEET-METAL. EITHER WAY, PAINT COVER TO MATCH WALL COLOR AFTER INSTALLATION IS COMPLETE.
- 2 ALL PIPING IS NEW ROUTED WITHIN CEILING CAVITY. INSTALL A SET OF SHUT-OFF VALVE (FULL PORT BALL-VALVE) AT SHOWN MAIN PIPE BRANCH CONNECTION. INSTALL MAIN LINE SHUT OFF VALVES BETWEEN EAST AND WEST WING PIPING. THESE VALVES ARE NORMALLY CLOSED AND ONLY USED DURING SERVICE OR LOW LOAD SEASONS.
- 3 NEW 4" CHILLED / HOT WATER PIPING DOWN TO MECHANICAL ROOM.

UNIT VENTILATOR (UV) SCHEDULE (4-PIPE CHILLED / HOT WATER SYSTEM)

UNIT TAG	UV-A	UV-B	UV-C
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN
CABINET STYLE	UNIT VENTILATOR	UNIT VENTILATOR	UNIT VENTILATOR
MODEL TYPE	FACE & BYPASS, REHEAT	FACE & BYPASS, REHEAT	FACE & BYPASS, REHEAT
MOUNTING	FLOOR	FLOOR	FLOOR
RETURN AIR LOCATION	LOW FRONT	LOW FRONT	LOW FRONT
OUTLET LOCATION	TOP GRILLED DISCHARGE	TOP GRILLED DISCHARGE	TOP GRILLED DISCHARGE
OUTSIDE AIR LOCATION	BACK OF UNIT	BACK OF UNIT	BACK OF UNIT
OUTSIDE AIR DAMPER	MOTORIZED OPEN/CLOSED	MOTORIZED OPEN/CLOSED	MOTORIZED OPEN/CLOSED
OUTSIDE AIR POSITION	SET TO 0A CFM WHEN OPEN	SET TO 0A CFM WHEN OPEN	SET TO 0A CFM WHEN OPEN
OUTSIDE AIR DAMPER	RIGHT DOUBLE WALL INSULATED	RIGHT DOUBLE WALL INSULATED	RIGHT DOUBLE WALL INSULATED
CABINET INSULATION	INTERNAL LINED	INTERNAL LINED	INTERNAL LINED
HEATING / COOLING	CHILLED / HOT WATER	CHILLED / HOT WATER	CHILLED / HOT WATER
COOLING COIL	4 ROWS FACE / BYPASS	4 ROWS FACE / BYPASS	4 ROWS FACE / BYPASS
HEATING COIL	2 ROWS	2 ROWS	2 ROWS
COIL POSITIONS	COOLING COIL BEFORE HEATING	COOLING COIL BEFORE HEATING	COOLING COIL BEFORE HEATING
ELECTRICAL	115 / 1 PHASE	115 / 1 PHASE	115 / 1 PHASE
CONDENSATE DRAIN	7/8" CONNECTION	7/8" CONNECTION	7/8" CONNECTION
PIPE CONNECTIONS	REVIEW PLANS / SITE VERIFY	REVIEW PLANS / SITE VERIFY	REVIEW PLANS / SITE VERIFY
MOTOR SPEED	1/3 HP ECM MOTOR	1/3 HP ECM MOTOR	1/3 HP ECM MOTOR
VENTILATING	MANUAL WITH DRAIN PLUG	MANUAL WITH DRAIN PLUG	MANUAL WITH DRAIN PLUG
DRAIN PAN	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
FILTERS	1" THROW-AWAY	1" THROW-AWAY	1" THROW-AWAY
AIR PURIFICATION	GPS AIR PURIFICATION NOTE 3	GPS AIR PURIFICATION NOTE 3	GPS AIR PURIFICATION NOTE 3
DISCONNECT SWITCH	INTERNAL DISCONNECT	INTERNAL DISCONNECT	INTERNAL DISCONNECT
UNIT SIZE	1250 CFM	1000 CFM	750 CFM
COOLING EDB TEMP	80.00	80.00	80.00
COOLING EWB TEMP	57.00	57.00	57.00
CHILLED WATER BNT	45.00	45.00	45.00
TOTAL COOLING MBH	43.3	35.8	24.5
COOLING GENS MBH	28.7	23.3	15.3
COOLING WATER FLOW IN GPM	9	7.5	6
HEATING EDB TEMP	60.00	60.00	60.00
HEATING EXTERIOR WATER TEMP	180	180	180
HEATING CAPACITY	26.18	26.18	26.18
HEATING WATER FLOW	5	5	5
MCA	6.25	6.25	6.25
FUSE SIZE	15	15	15
UNIT DIMENSIONS	86 X 22 X 30	74 X 22 X 30	62 X 22 X 30

- Notes:
1. UL LISTED / ARI CERTIFIED CHILLED WATER
  2. INSULATED UNIT BACK WITH BUILT IN PIPE TUNNEL
  3. INSTALL GPS AIR PURIFICATION ON DISCHARGE AIR TIED TO EQUIPMENT OPERATION
  4. DRAIN ROUTED TO EXTERIOR AND DISCHARGE AT GRADE
  5. UNIT WITH REMOTE THERMOSTAT AND INTERNAL BACKUP CONTROLLER
  6. UNIT WITH CHILLED AND HOT WATER HOSE KITS
  7. CONTROL CONTRACTOR PROVIDE AND INSTALL BELIMO CONTROL VALVES
  8. CHILLED WATER WITH 20% GLYCOL

1 OVERALL MECHANICAL NEW PLAN  
SCALE: 1/16"=1'-0"



DESIGN PROFESSIONAL



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MECHANICAL NEW  
PLAN

M2.00

MECHANICAL



AIR SEPARATOR SCHEDULE							
UNIT NO.	SERVICE	GPM	MAXIMUM VOLUME	INLET / OUTLET SIZE	MAXIMUM PRESSURE DROP (FT. OF HEAD)	MODEL NO.	NOTES
AS-1	HOT WATER	140	0.75 FT/SEC	4"	1.0	CRS-4	1
AS-2	CHILLED WATER	255	0.75 FT/SEC	4"	1.0	CRS-4	1
NOTES:							
1. BASED ON ITT BELL & GOSSETT COALESCING REMOVAL SEPARATOR							

EXPANSION TANK SCHEDULE (VERTICAL)						
UNIT NO.	SERVICE	TANK VOLUME	MAX OPERATING PRESSURE (PSI)	TYPE	MODEL NO.	NOTES
ET-1	CHILLED WATER	53	60	BLADDER	B-200	1
ET-2	HOT WATER	106	60	BLADDER	B-400	1
NOTES:						
1. BASED ON ITT BELL & GOSSETT COMPRESSION TANK WITH LEG ASSEMBLY.						

PUMP SCHEDULE		
UNIT NO.	HW P-3, P-4	P-5, P-6
MANUFACTURER	BELL & GOSSETT	BELL & GOSSETT
SERVICE	HOT WATER SYSTEM	WEST WING - GYM
SERIES	e-1510	e-1510
MODEL	28D	2.5BB
IMPELLER SIZE		
TYPE	BASE MOUNTED	BASE MOUNTED
PRESSURE (FT. OF HEAD)	70	75
GPM	140	275
FLUID	HEATING WATER	HEATING / COOLING
FLUID TEMP (DEG. F)	80 - 180	50 - 180
PUMP RPM	1750	1750
MIN. EFFICIENCY	72.0%	77.5%
MOTOR		
HP	5	10
PART WIND MOTOR	NO	NO
VOLT / PHASE	208 / 3	480 / 3
NOTES:		
1. HWP-3 & 4 will be new pumps for heating service to east wing of Middle School. 2. ALL NEW PUMPS WITH VFD PROVIDED AND INSTALLED BY CONTROL CONTRACTOR. 3. ALL PUMPS WITH SUCTION DIFFUSER AND VALVES AS PER DETAIL FOR ALL ACCESSORIES.		

PIPING, DUCTWORK AND INSULATION SCHEDULE

WEATHER EXPOSED PIPING AND INSULATION.  
EXPOSED WEATHER PIPING AT CHILLER CONNECTIONS SHALL BE STEEL ASTM A-53 WITH FIBERGLASS INSULATION. INSTALL ALUMINUM EXTERNAL JACKET OVER FIBERGLASS INSULATION TO MATCH EXISTING. PROVIDE PRE-MOLDED INSULATION OVER ALL EXTERNAL EXPOSED VALVES.

MECHANICAL ROOM PIPING MATERIAL AND INSULATION.  
STEEL ASTM A-53 WITH GROOVED VICTAULIC COUPLING FOR ALL PIPING ABOVE 2" 2" AND BELOW SHALL BE COPPER WITH SOLDERED JOINTS.  
ALL VALVE CONNECTIONS SHALL BE FLANGED WITH EPDM GASKET.  
INSULATION FIBERGLASS: ONE-PIECE MOLDED THREE POUND DENSITY (ASTM C547, CLASS 2) WITH FACTORY APPLIED ALL-SERVICE JACKET WITH SELF-SEALING LAP.  
INSULATION SUITABLE FOR PAINTING WITH LATEX PAINTS. INSULATION SUITABLE FOR PIPE TEMP. FROM 0 DEG. TO 850 DEG. JACKET WITH VAPOR BARRIER WITH A PERMEANCE OF LESS THAN 0.02 PERMS/IN. (ASTM E96)  
MECHANICAL ROOM INSULATION SHALL HAVE ADDITIONAL PVC JACKET.  
STENCIL ALL PIPING IN THE MECHANICAL ROOM WITH CONTENT AND DIRECTION EVERY 6' INTERVAL.

BUILDING PIPING AND INSULATION.  
STEEL ASTM A-53 WITH GROOVED VICTAULIC COUPLING FOR ALL PIPING ABOVE 2" 2" AND BELOW SHALL BE COPPER WITH SOLDERED JOINTS. DRAIN PIPES SHALL EITHER COPPER OR PVC WITH 1/2" BLACK FOAM INSULATION.  
INSULATION FIBERGLASS: ONE-PIECE MOLDED THREE POUND DENSITY (ASTM C547, CLASS 2) WITH FACTORY APPLIED ALL-SERVICE JACKET WITH SELF-SEALING LAP.  
INSULATION SUITABLE FOR PAINTING WITH LATEX PAINTS. INSULATION SUITABLE FOR PIPE TEMP. FROM 0 DEG. TO 850 DEG. JACKET WITH VAPOR BARRIER WITH A PERMEANCE OF LESS THAN 0.02 PERMS/IN. (ASTM E96)

DUCTWORK AND AIR DEVICES INSULATION.  
DUCTWORK AS PER LATEST SMACNA GUIDELINES FOR LOW PRESSURE SYSTEM.  
INSULATED ALL (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR) WITH DOUBLE BUBBLE WRAP TYPE (R-8)  
ALL DIFFUSERS AND GRILLES SHALL HAVE ABOVE DIFFUSER MOLDED INSULATION ON FACE PLATES.

MISC. INSULATION.  
ALL PUMPS, AIR-SEPARATORS, AND EXPANSION TANKS. INSULATED WITH BLACK FOAM INSULATION.  
ALL CHILLED AND HOT WATER VALVES WITHIN THE PIPINGS. ONE PIECE PRE-MOLDED INSULATION.

REFRIGERANT LINE INSULATION:  
INSULATE ALL REFRIGERANT LINES WITH 3/4" PRE-MOLDED BLACK FOAM INSULATION.  
ALL EXTERIOR EXPOSED REFRIGERANT LINES SHALL HAVE ADDITIONAL PVC JACKET INSULATION.

VRV DRAIN PIPING  
ALL INDOOR UNITS SHALL HAVE PVC CONDENSATE DRAIN PIPING ROUTED TO NEAREST FLOOR / JAN. SINK.  
PIPING CAN BE COMBINED FOR MULTIPLE INDOOR UNITS. SLOPE PIPING FOR GRAVITY DRAIN.

MISC MECH ROOM EQUIPMENT  
PROVIDE ALL MISC ITEMS IN MECHANICAL ROOM SUCH AS MAKE UP WATER ASSEMBLY, CHEMICAL SHOT FEEDER, CONTROL VALVES, TEMP AND FLOW CONNECTIONS NIPPLES, ETC..

HVAC CONTROLS SYSTEM

Building Automation System:  
BUILDING WITH ALL NEW CONTROL SYSTEM BASED ON RELIABLE CONTROLS.  
MAIN CONTROL TOUCHSCREEN PANEL INSTALLED IN MAIN MECHANICAL ROOM AND TIED TO NEW CAMPUS WIDE ON-LINE CONTROL SYSTEM.  
MAIN MECH ROOM CONTROLLER SHALL BE A UL CABINET WITH A TOUCHSCREEN PAD TO ACCESS HIGH SCHOOL HVAC SYSTEM OPERATION.

Mechanical Room Controls (BASEMENT)  
Furnish and install new UL listed DDC control panel to control 2(ea) chill water pump VFD (Existing), including current transducers for status, 2(ea) hot water pumps VFD (New), including current transducers for pump status, 1(ea) boiler, 1(ea) chillers (Existing), outside air temperature sensor, building hot water supply and return temperature sensors, boiler supply temperature sensor, building chill supply and return temperature sensors.  
Provide any required programming for mechanical system.  
Tie directly into building MAIN controller.

Mechanical Room Controls (Center Classrooms)  
Furnish and install new UL listed DDC control panel to control 1(ea) chill water pump (Existing), including current transducers for status, 1(ea) hot water pump1 (Existing), including current transducers for pump status, 1(ea) boiler, 1(ea) boiler feed pump, 1(ea) chillers (Existing), outside air temperature sensor, building hot water supply and return temperature sensors, boiler supply temperature sensor, building chill supply and return temperature sensors.  
Provide any required programming for mechanical system.  
Tie directly into building MAIN controller.

Mechanical Room Controls (Gymnasium)  
Furnish and install new UL listed DDC control panel to control 2(ea) dual temp water pump (NEW), including current transducers for status, 1(ea) boiler, 1(ea) boiler feed pump, 1(ea) chillers (Existing), outside air temperature sensor, building hot water supply and return temperature sensors, boiler supply temperature sensor, building chill supply and return temperature sensors.  
Provide any required programming for mechanical system.  
Tie directly into building MAIN controller.

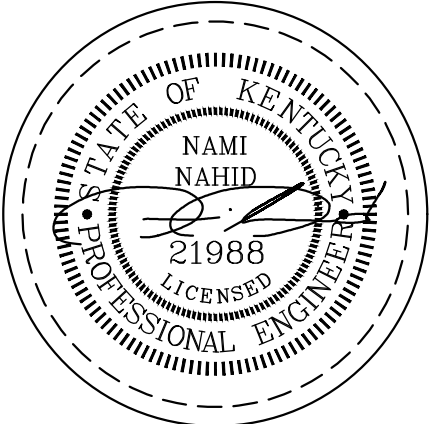
Gymnasium section Controls Upgrade  
Replace all AHUs control module, local thermostat and tie back into new building control system.  
Replace all chilled / hot water valves at the main AHUs and multiple fan coil units. Field verify exact location and systems.

Classrooms Unit Ventilators / Misc FCUs:  
Furnish and install new Reliable digital thermostat and RH sensor for each unit tied to main controller  
Each Unit Ventilator / FCU furnished with BACnet module for control contractor to tie into.  
CONTROL CONTRACTOR TO FURNISH AND INSTALL 3-WAY MODULATING VALVES ON BOTH CHILLED AND HOT WATER PIPING KIT PROVIDED BY FCU MANUFACTURER.

EXISTING PACKAGED RTU SERVING OFFICE AREA  
Existing PACKAGED RTUs BE UPDATED WITH NEW BACnet CONTROL MODULES WITH NEW WALL THERMOSTAT / CONTROLLERS AND TIED TO NEW RELIABLE CONTROL SYSTEM.

NEW EXHAUST FANS:  
FANS TO OPERATE AS PER DEDICATED SPACE SENSORS / SWITCHES.  
MAIN CONTROLLER WITH SYSTEM GRAPHICS TO MONITOR ALL FAN OPERATIONS STATUS WITH OVERRIDES.  
ALARM WHEN FAN FAILURE.  
SPACES WITH TEMPERATURE ACTIVATION. SHOW TEMPERATURE AT THE ZONE ON GRAPHICS WITH FAN STATUS.  
MAIN GANG TOILET EXHAUST FANS TO RUN CONTINUOUSLY AS PER SCHEDULE (8AM TO 5PM) ADJUSTABLE.

WALK-IN FREEZER / COOLER  
INSTALL NEW TEMP SENSORS IN WALK IN FREEZER AND COOLER WITH MONITORING AT MAIN CONTROL SYSTEM.  
PROGRAM TO ALERT USER THRU TEXT WHEN TEMP RISE ABOVE SETPOINT.



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY	NN
DATE	02/08/2021
SET	CONSTRUCTION DOCUMENTS



REVISION	DESCRIPTION
X DDMM/YYYY	REVISION DESCRIPTION



TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2020  
515 W MAIN ST  
ELKTON, KENTUCKY 42220  
20200821

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MECHANICAL  
SCHEDULES

M2.01

MECHANICAL



ELECTRICAL LEGEND □ LIGHTING

SYMBOL	DESCRIPTION
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	REMOTE HEAD, CONTROLLED BY EXIT LIGHT.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE SYMBOL. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE REQUIREMENTS.
	OUTLET BOX AND 20-AMP, SINGLE-POLE SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.

	OUTLET BOX AND 20-AMP, THREE-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, FOUR-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.

	OUTLET BOX AND 20-AMP, SINGLE-POLE DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
--	---

	OUTLET BOX AND 20-AMP, COMBINATION SWITCH AND OCCUPANCY SENSOR. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-OCCUPANCY SENSOR SWITCHES.
--	---

	OUTLET BOX AND 10-AMP, COMBINATION SWITCH AND LOW-VOLTAGE (0-10V) DIMMER. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-DIMMER SWITCHES.
--	---

	CEILING-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.
--	--

	WALL-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.
--	---

ELECTRICAL LEGEND □ POWER

SYMBOL	DESCRIPTION
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED OUTLET WITH 20A, 125V DUPLEX RECEPTACLE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH SIMPLEX RECEPTACLE AS NOTED ON POWER PLANS.
	FLOOR OUTLET WITH DUPLEX RECEPTACLE AND 2 PORT DATA OUTLET.
	FLOOR OUTLET WITH DOUBLE-DUPLEX RECEPTACLE AND 2 PORT DATA OUTLET.

GFCl	SYMBOL INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.
WP	SYMBOL INDICATES WESTHER-PROOF WHILE-IN-USE TYPE ENCLOSURE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.

1,3,5,...	NUMBER TEXT INDICATES CIRCUIT NUMBERS WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.
a,1,3,5,...	LOWER-CASE LETTER TEXT INDICATES CIRCUIT SWITCHING ARRANGEMENT WHEN SHOWN WITHIN OR ADJACENT TO SYMBOLS ON PLAN.

-48"	NUMBER TEXT INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF OUTLET BOX WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.
------	--

	WALL-MOUNT JUNCTION BOX AS NOTED ON PLANS.
	CEILING-MOUNT JUNCTION BOX AS NOTED ON PLANS.

	JUNCTION BOX WITH PHOTO EYE.
	WALL-MOUNT PUSH BUTTON FOR ADA DOORS. MOUNTED AT ADA REQUIRED HEIGHTS.

30A/3 NEMA 3R	NON-FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
30A/3 NEMA 3R	FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
30A/3 NEMA 3R	COMBINATION MOTOR STARTER AND DISCONNECT WITH THERMAL OVERLOADS.

	CIRCUIT. NUMBER OF CROSSBARS INDICATE QUANTITY OF CONDUCTORS REQUIRED. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH TRADE SIZE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG.
	HOME RUN TO PANEL. NUMBER OF ARROW HEADS INDICATES NUMBER OF CIRCUITS. PREFIX INDICATES PANEL NOMENCLATURE. NUMBERS INDICATE CIRCUIT NUMBERS.

FIRE ALARM LEGEND

TAG	DESCRIPTION	MOUNTING
	PHOTO ELECTRIC SMOKE DETECTOR	REPLACE CURRENT
	AUDIO VISUAL NOTIFICATION DEVICE	REPLACE CURRENT
	VISUAL NOTIFICATION DEVICE	REPLACE CURRENT
	HEAT DETECTOR ROR AND FIXED	REPLACE CURRENT
	MANUAL PULL STATION	REPLACE CURRENT
	ADDRESSABLE FIRE ALARM CONTROL PANEL	REPLACE CURRENT
	NOTIFICATION DEVICE POWER SUPPLY	REPLACE CURRENT
	ANNUNCIATOR PANEL	REPLACE CURRENT
	AUDIO-VISUAL NOTIFICATION DEVICE	SINGLE GANG 80-96" TO BOTTOM AFF
	NEW LOCATION - VISUAL NOTIFICATION DEVICE	SINGLE GANG 80-96" TO BOTTOM AFF
	NEW LOCATION - MANUAL PULL STATION	SINGLE GANG 42" TO BOTTOM AFF
	SPRINKLER WATERFLOW MONITOR	REPLACE CURRENT
	SPRINKLER TAMPER VALVE MONITOR	REPLACE CURRENT

1. E 34in □ 3re a arm de 3ce location. Remo a de 3ce and wifin □ 3re 34in □ 34in □ 34in.

PA SYSTEM LEGEND

TAG	DESCRIPTION	MOUNTING
INT	INTERCOM HEADEND - REPLACE WITH QUANTITY OF ZONES AND AMPLIFIERS TO ACCOMMODATE SYSTEM. MINIMUM 16 ROOM POINTS WITH CLASSROOM CALL IN.	RACK MOUNT
PH	INTERCOM SYSTEM PHONE - PERFORM FUNCTIONS OF NEW INTERCOM SYSTEM	DESK MOUNT
DP	DOOR PHONE - CALL IN STATION TO RING OFFICE INTERCOM PHONE	SURFACE MOUNT 44" TO BOTTOM AFF
	EXISTING INTERCOM SPEAKER. REUSE SPEAKER AND EXISTING CABLING.	CEILING
CB	CLASSROOM CALL IN BUTTON - NEW LOCATION	SINGLE GANG
	VANDAL RESISTANT SURFACE MOUNT SPEAKER - NEW LOCATION	SURFACE
	2X2 LAY-IN CEILING SPEAKER - NEW LOCATION	CEILING
H	OUTDOOR HORN - NEW LOCATION	SURFACE

ACCESS CONTROL LEGEND

TAG	DESCRIPTION	MOUNTING
	WIRELESS LOCKSET	REPLACE CURRENT LOCKSET
	PANEL INTERFACE MODULE	SURFACE MOUNT ABOVE CEILING
	CARD READER	SINGLE GANG 44" TO BOTTOM AFF
	ELECTRONIC DOOR HARDWARE	NA
	REQUEST TO EXIT DEVICE	SINGLE GANG ABOVE DOOR HEADER
	DOOR POSITION SWITCH	3/4" HOLE IN FRAME AND DOOR
	DOOR POWER SUPPLY	SURFACE MOUNT 48" TO BOTTOM AFF
	ACCESS CONTROL HEADEND	SURFACE MOUNT 48" TO BOTTOM AFF

1. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE.

CCTV LEGEND

TAG	DESCRIPTION	MOUNTING
	OUTDOOR BULLET CAMERA - SMP	SURFACE MOUNT BOX INCLUDED
	INDOOR DOME CAMERA - SMP	CEILING MOUNT
	FISHEYE CAMERA - 12MP	CEILING MOUNT
	VMS SERVER - HDD AND CHANNELS TO ACCOMMODATE ALL CAMERAS	RACK MOUNT

HAND DRYER SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	SERIES	WATTAGE	VOLTAGE	REMARKS
	ADA COMPLIANT SURFACE MOUNTED HAND DRYER.	EXCEL	THIN-AIR	375 WATTS	110V/120V OR 208-277V	1. COORDINATE DRYER MODEL, FINISH, AND ACCESSORY SELECTIONS WITH THE OWNER.
		WORLD DRYER	SLIMDRI	300 WATTS	120/208/240V	2. HAND DRYER SHALL BE INSTALLED WITH NO HEAT OPTION/HEAT OFF OPTION.
		SLOAN	OPTIMA	375 WATTS	110V/120V OR 208-277V	3. HAND DRYER POWER SUPPLY SELECTION SHALL MATCH CIRCUITRY INDICATED ON SHEET E1.03 AND PANEL SCHEDULES ON SHEET E0.02. 4. HAND DRYERS SHALL BE INSTALLED AT ADA HEIGHT, PER MANUFACTURER RECOMMENDATIONS.

OCCUPANCY SENSOR SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	SERIES	MAX. LOAD	VOLTAGE	REMARKS
	DUAL TECHNOLOGY LINE VOLTAGE CEILING SENSOR.	WATTSTOPPER	DT-355	800 WATTS □ 120VAC	120/230/277/347 VAC	1. COORDINATE OCCUPANCY SENSOR SELECTION AND FINISH WITH THE OWNER.
		LITHONIA	CMR PDT 9	800 WATTS □ 120VAC	120/277VAC	2. OCCUPANCY SENSORS SHALL BE INSTALLED TO SWITCH A 120VAC LINE.
		HUBBELL	OMNI	16 AMPS □ 120VAC	120-277VAC	

LIGHTING FIXTURE SCHEDULE

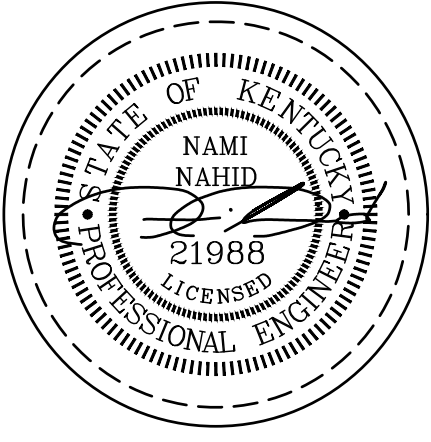
SYMBOL	DESCRIPTION	MANUFACTURER	FIXTURE SERIES	TYPE	LAMP QTY. PER FIXTURE	WATTS	FIXTURE VOLTAGE	BALLAST	MOUNTING	LIGHT CONTROL			REMARKS
										LENS	REFLECTOR	LOUVER FINISH	
	2X2 FLAT PANEL.	WILLIAMS BARRON TRACE-LITE C-LITE	LP-22 LPA22 C-TR-C-FP22	LED 4000K ± 4000 LUMENS 80 CRI	AS REQD.	±34 SYSTEM WATTS	120-277V	---	RECESSED/ GRID	---	---	---	1. COORDINATE STYLE & FINISH WITH THE OWNER.
	SAME FIXTURE AS SCHEDULED ABOVE. EXCEPT WITH EMERGENCY BACKUP OPTION.	WILLIAMS BARRON TRACE-LITE C-LITE	LP-22 LPA22 C-TR-C-FP22	LED 4000K ± 4000 LUMENS 80 CRI	AS REQD.	±34 SYSTEM WATTS	120-277V	---	RECESSED/ GRID	---	---	---	1. COORDINATE STYLE & FINISH WITH THE OWNER. 2. TO BE INSTALLED WITH EMERGENCY BATTERY PACK.
	2X4 FLAT PANEL.	WILLIAMS BARRON TRACE-LITE C-LITE	LP-24 LPA24 C-TR-C-FP24	LED 4000K ± 5000 LUMENS 80 CRI	AS REQD.	±43 SYSTEM WATTS	120-277V	---	RECESSED/ GRID	---	---	---	1. COORDINATE STYLE & FINISH WITH THE OWNER.
	SAME FIXTURE AS SCHEDULED ABOVE. EXCEPT WITH EMERGENCY BACKUP OPTION.	WILLIAMS BARRON TRACE-LITE C-LITE	LP-24 LPA24 C-TR-C-FP24	LED 4000K ± 5000 LUMENS 80 CRI	AS REQD.	±43 SYSTEM WATTS	120-277V	---	RECESSED/ GRID	---	---	---	1. COORDINATE STYLE & FINISH WITH THE OWNER. 2. TO BE INSTALLED WITH EMERGENCY BATTERY PACK.

ELECTRICAL LEGEND □ TELCOM

SYMBOL	DESCRIPTION
	VOICE/DATA OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE IF PRESENT) OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE. PROVIDE 1 INCH CONDUIT WITH PULLSTRING FROM OUTLET BOX TO NEAREST ACCESSIBLE CEILING CAVITY. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE. "W" TEXT ADJACENT TO SYMBOL DENOTES WALL PHONE LOCATION (MOUNT AT 56 INCHES A.F.F. TO CENTER), WHERE SHOWN ADJACENT TO A POWER RECEPTACLE, INSTALL OUTLET AT SAME HEIGHT, WITHIN 6 INCHES OF RECEPTACLE, UNLESS OTHERWISE NOTED.
	VIDEO MONITOR OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE). PROVIDE 1 INCH CONDUIT FROM OUTLET BOX TO NEAREST ACCESSIBLE ATTIC SPACE. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED COMMUNICATIONS OUTLET BOX FOR WIRELESS ACCESS POINT. OUTLET BOX SHALL BE FOUR INCHES WITH A SINGLE GANG PLASTER RING.

GENERAL NOTES:

- ALL WORK SHALL BE DONE BY A LICENSED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTES OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- ALL TRADES SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COST, AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES, INCLUDING THE NEC.
- SECURITY CONTRACTOR IS RESPONSIBLE FOR RACEWAYS, WIREWAYS, AND CONDUIT REQUIRED FOR THE INSTALLATION OF SECURITY DEVICES.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY	KELI EIS
DATE	02/18/2021
SET	CONSTRUCTION DOCUMENTS



REVISION	DESCRIPTION
	DDMM/YYYY REVISION DESCRIPTION




TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2020  
515 W MAIN ST  
ELKTON, KENTUCKY 42220  
20200821

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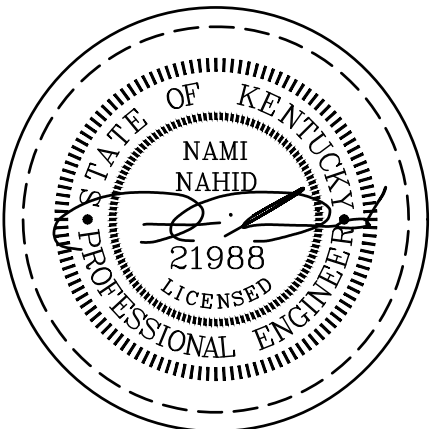
ELECTRICAL  
SCHEDULES  
LEGENDS

E0.01

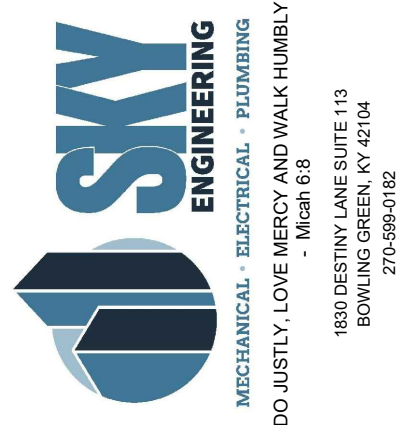
ELECTRICAL







DESIGN PROFESSIONAL



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BY KELI ELS

DATE 02/18/2021

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1 DDDMMYYYY REVISION DESCRIPTION



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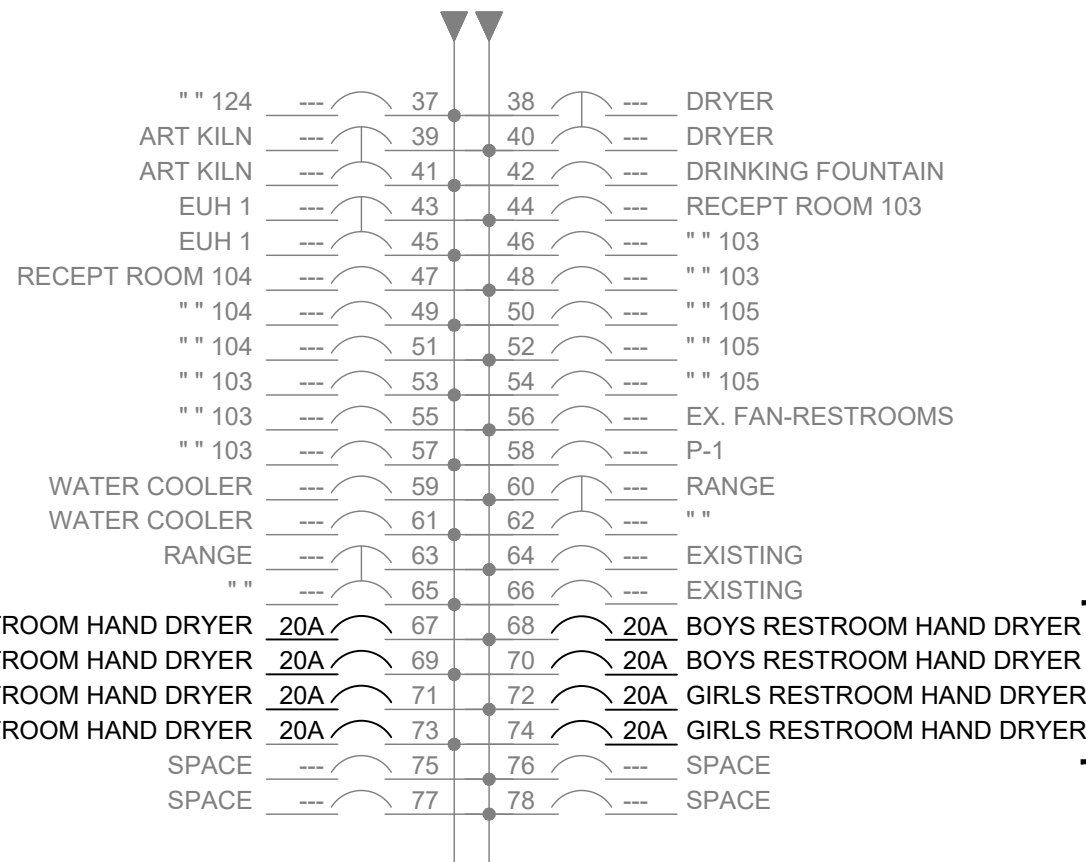
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ELECTRICAL  
POWER DISTRIBUTION

E0.02

ELECTRICAL

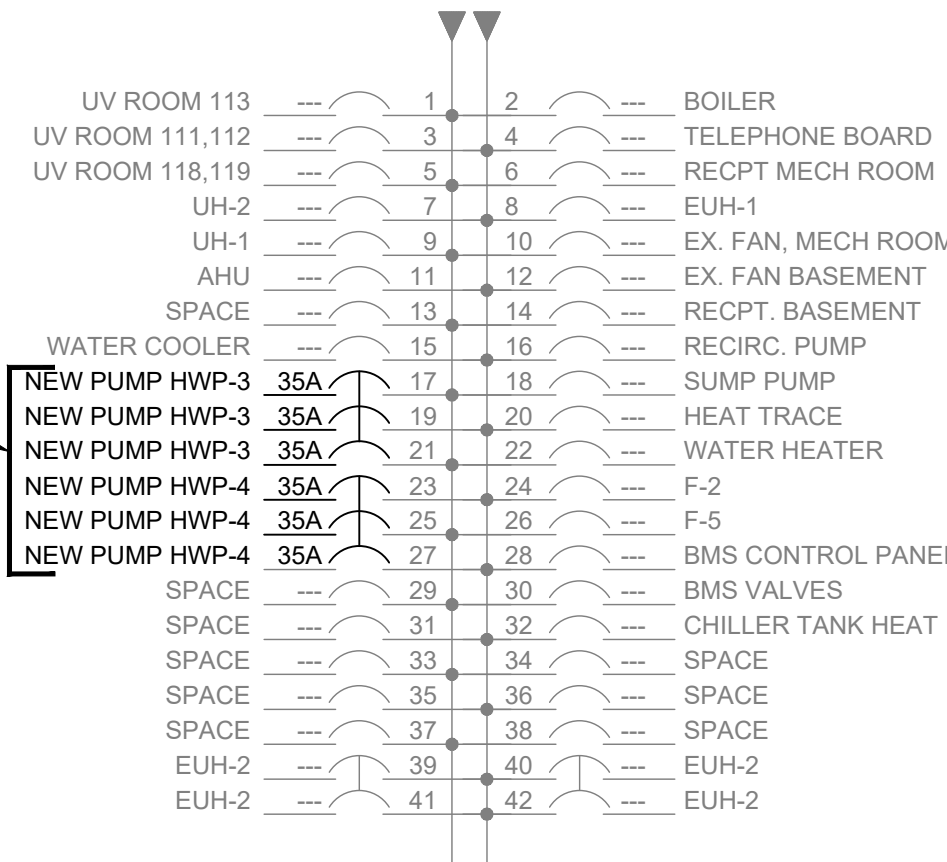
(4) NEW BRANCH  
CIRCUITS TO BE  
INSTALLED ON (4)  
NEW 20A BREAKERS.



PANEL "C" EXISTING  
400A, 120/240V, 1PH, 3W.  
FLUSH MOUNT  
42 SPACE  
CHALLENGER PANELBOARD  
PRL1 SERIES

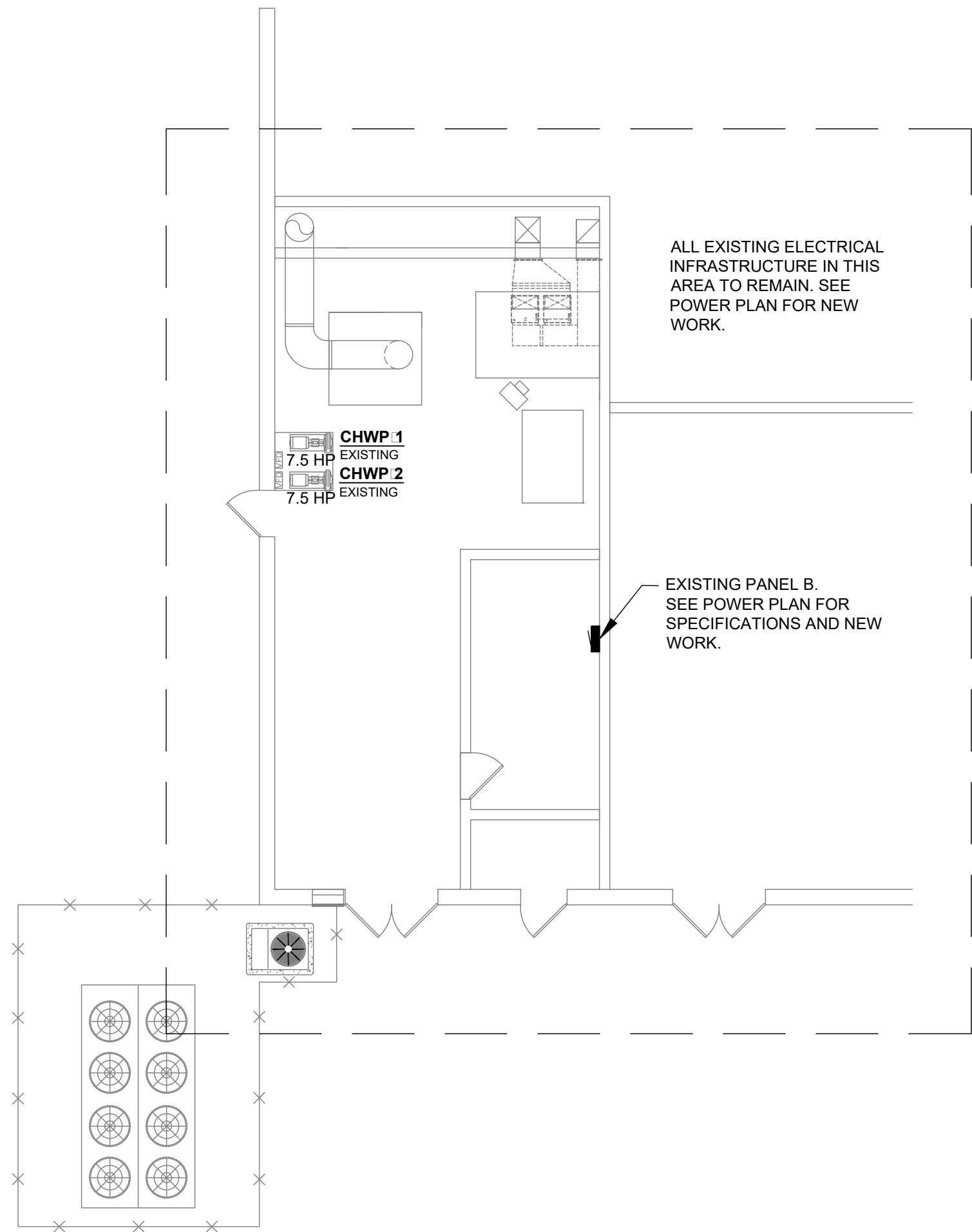
(4) NEW BRANCH  
CIRCUITS TO BE  
INSTALLED ON (4)  
NEW 20A BREAKERS.

(2) NEW BRANCH  
CIRCUITS TO FEED NEW  
PUMPS IN BASEMENT  
MECH. ROOM TO BE  
INSTALLED ON (2) NEW  
35A, 3 POLE BREAKERS.



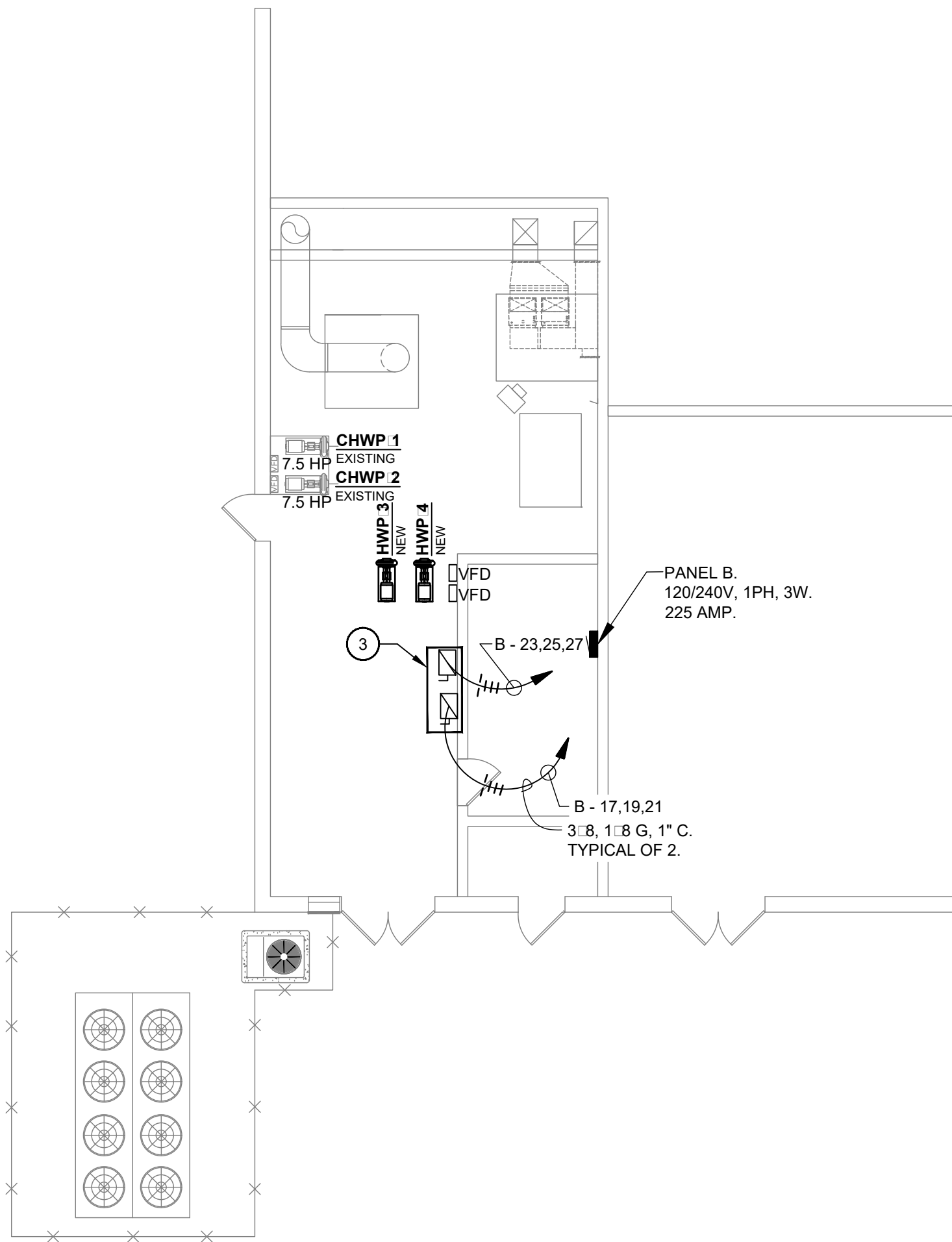
PANEL "B" EXISTING  
225A, 120/240V, 1PH, 3W.  
SURFACE MOUNT  
42 SPACE  
CHALLENGER PANELBOARD  
PRL1 SERIES





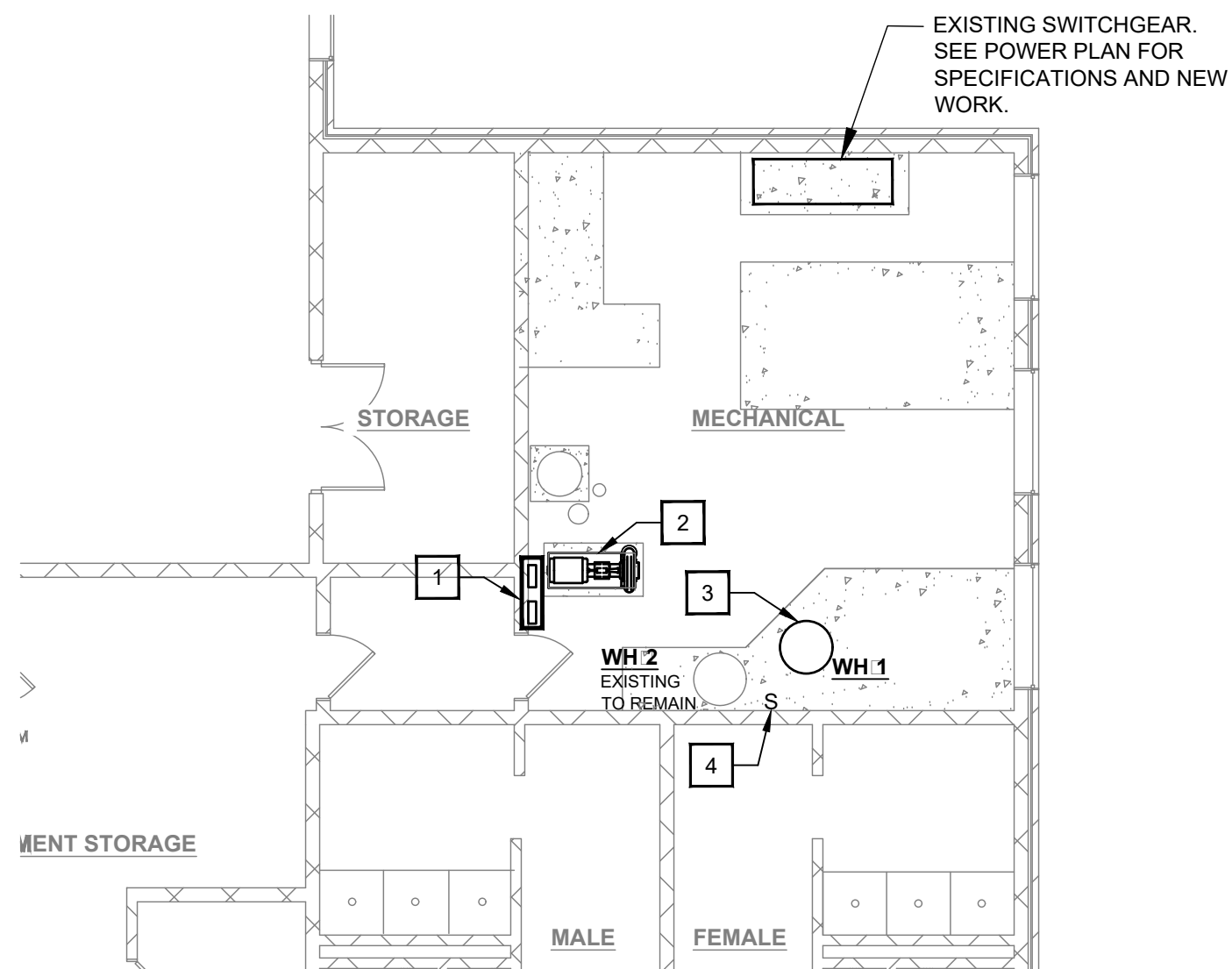
BASEMENT MECH RM.  
ELECTRICAL DEMO PLAN

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



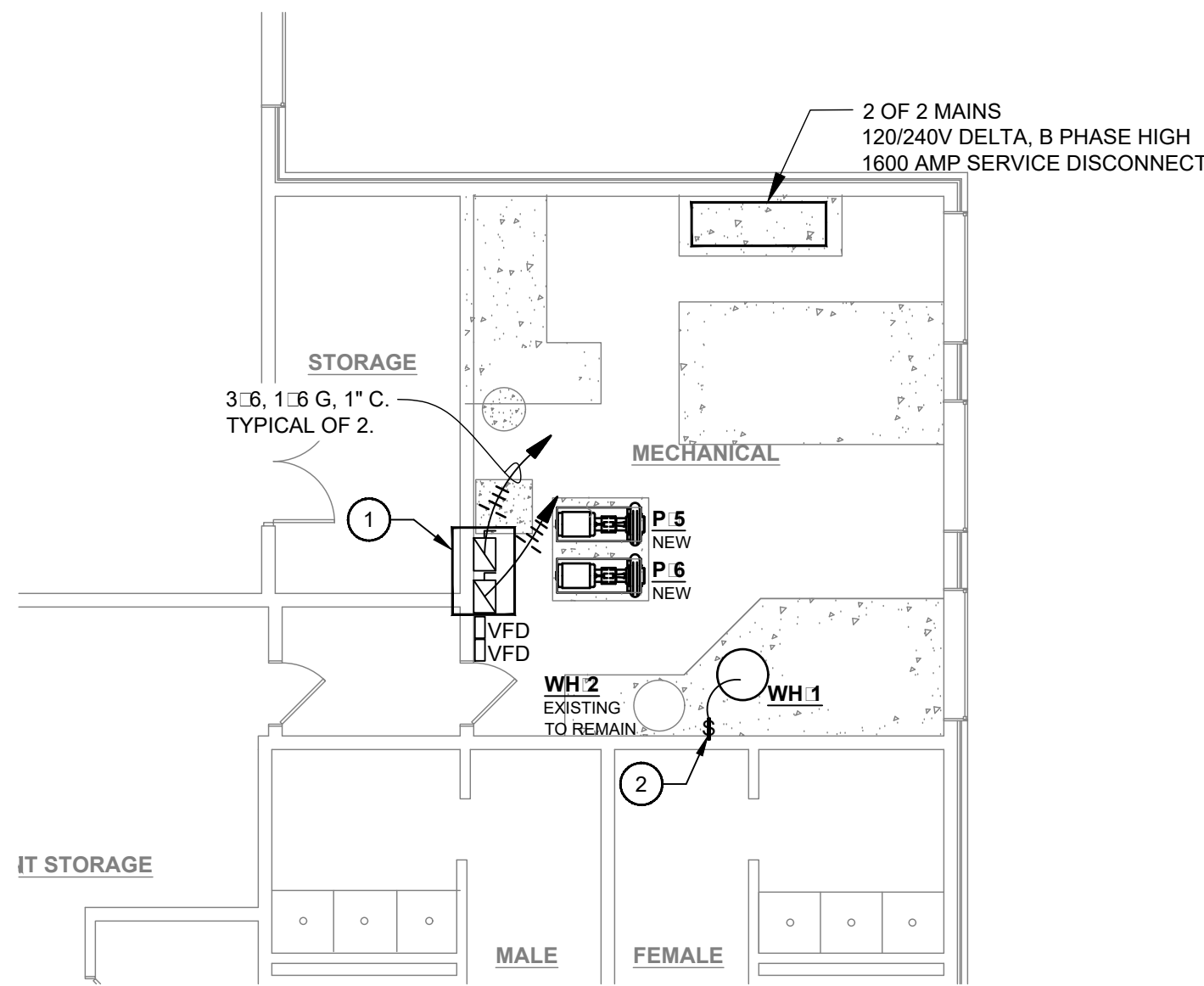
BASEMENT MECH RM.  
ELECTRICAL POWER PLAN

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



GYM MECH RM.  
ELECTRICAL DEMO PLAN

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



GYM MECH RM.  
ELECTRICAL POWER PLAN

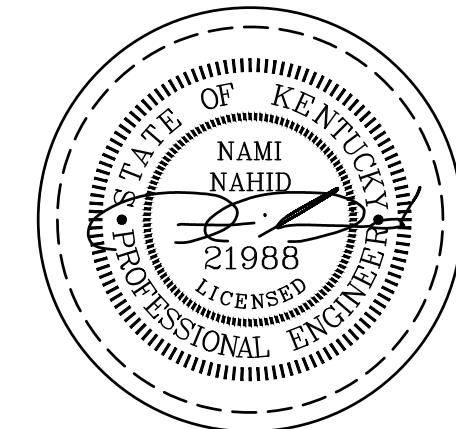
SCALE: 1/8"=1'-0"

MECH RM. DEMO NOTES:

1. INSTALL (2) VFD'S FOR NEW PUMPS. (VFD'S PROVIDED BY MECHANICAL CONTRACTOR). WIRE PUMP AND VFD'S TO MANUFACTURER'S SPECIFICATIONS. COMPLETELY REMOVE ALL ASSOCIATED CIRCUITRY. REWORK RACEWAY BETWEEN THE VFD'S AND NEW PUMPS AS NECESSARY FOR NEW INSTALL, REUSING EXISTING RACEWAY WHERE APPLICABLE.
2. COMPLETELY REMOVE ALL CIRCUITRY AND DISCONNECTS ASSOCIATED WITH EXISTING PUMP. REWORK RACEWAY BETWEEN THE VFD'S AND NEW PUMPS AS NECESSARY FOR NEW INSTALL, REUSING EXISTING RACEWAY WHERE APPLICABLE.
3. DISCONNECT ELECTRICAL CIRCUIT FOR EXISTING WATER HEATER. LEAVING CIRCUIT IN PLACE FOR NEW WATER HEATER TO BE INSTALLED IN SAME SPACE. COORDINATE WITH PLUMBING FOR ANY ADDITIONAL REQUIREMENTS FOR REMOVING EXISTING WATER HEATER.
- 3a) FIELD VERIFY PROPER WORKING CONDITION OF EXISTING CIRCUITRY TO BE REUSED FOR NEW EQUIPMENT.
4. COMPLETELY REMOVE EXISTING WATER HEATER DISCONNECT SWITCH. SEE NEW WORK FOR REPLACEMENT DETAILS.

MECH RM. POWER NOTES:

1. PROVIDE (2) NEW 60A, 3 PHASE, NON-FUSIBLE DISCONNECTS TO DE-ENERGIZE NEW PUMPS "P-5" AND "P-6". INSTALL (2) NEW 60 AMP I-LINE BREAKERS IN THE EXISTING SWITCHGEAR (2 OF 2 MAINS), AND FEED EACH DISCONNECT FROM ITS OWN 60 AMP BREAKER.
2. PROVIDE A SINGLE POLE, 20 AMP, TOGGLE TYPE SAFETY-DISCONNECT SWITCH, WITH LOCK-OUT TAG-OUT ACCESSORY AS A DISCONNECTING MEANS TO NEW WATER HEATER. REWORK REUSABLE CIRCUITRY AND RACEWAY AS NECESSARY TO ACCOMMODATE NEW WATER HEATER INSTALL. COORDINATE FINAL CONNECTIONS WITH PLUMBING.
3. PROVIDE (2) NEW 60A, 3 PHASE, NON-FUSIBLE DISCONNECTS TO DE-ENERGIZE NEW PUMPS "HWP-3" AND "HWP-4". INSTALL (2) NEW 35 AMP, 3 POLE BREAKERS IN PANEL B (EXISTING), AND FEED EACH DISCONNECT FROM ITS OWN 35 AMP BREAKER. REFER TO PANEL SCHEDULES ON SHEET E0.02. WIRE PUMPS AND VFD'S TO MANUFACTURER'S SPECIFICATIONS.



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY KELI EIS  
DATE 02/18/2021  
SET CONSTRUCTION DOCUMENTS



REVISION	DESCRIPTION
1	DDMM/YYYY REVISION DESCRIPTION



TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2020  
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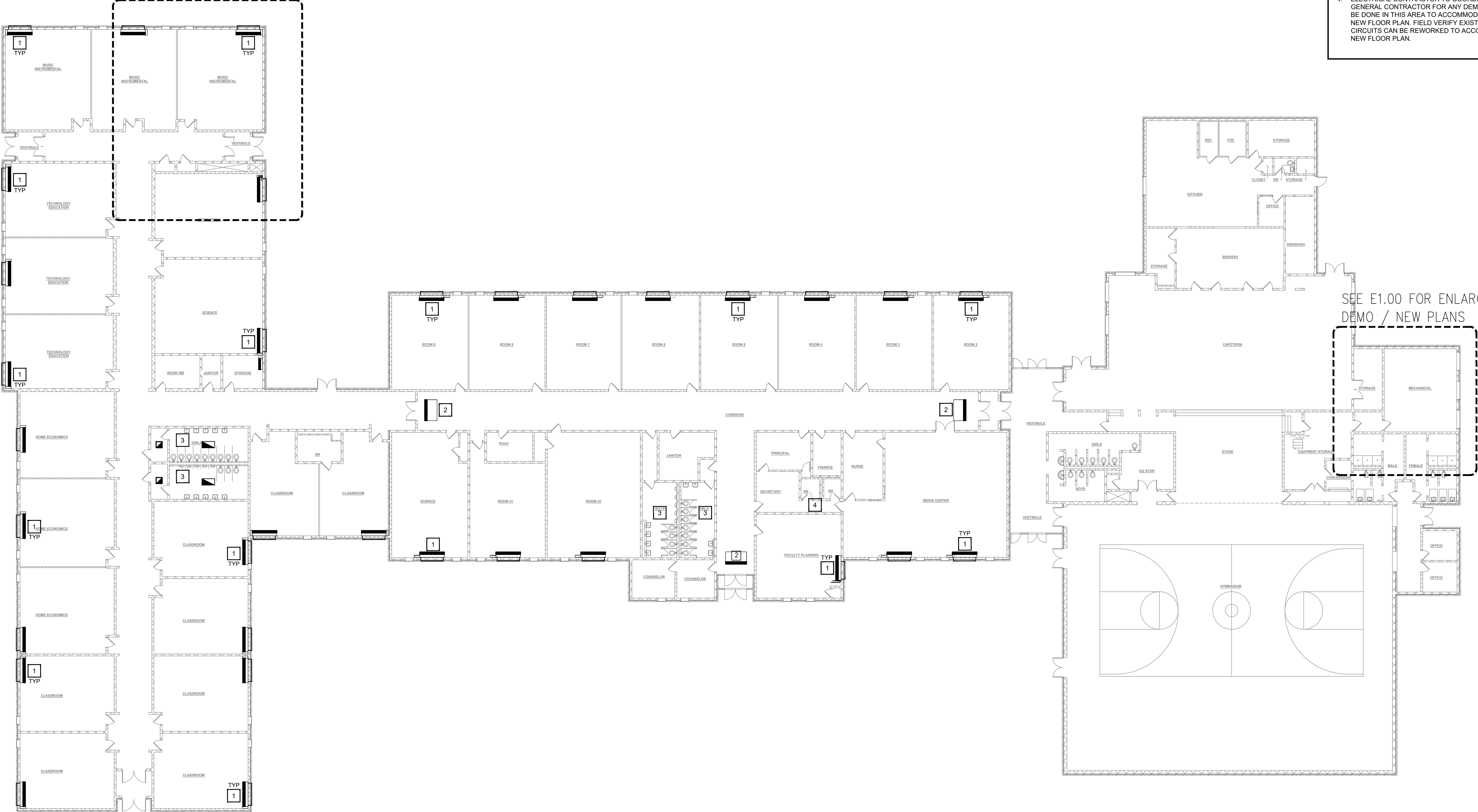
ENLARGED MECH RM  
ELECTRICAL DEMO AND  
NEW WORK

E1.00

ELECTRICAL

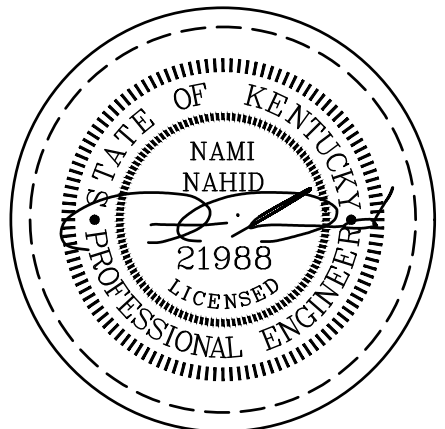


SEE E1.00 FOR BASEMENT MECH  
ROOM DEMO / NEW PLANS



#### DEMO NOTES:

1. DISCONNECT ELECTRICAL CIRCUIT FOR EXISTING UNIT VENTILATOR, LEAVING CIRCUIT IN PLACE FOR NEW UNIT VENTILATOR TO BE INSTALLED IN SAME SPACE. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY ADDITIONAL REQUIREMENTS FOR REMOVING EXISTING UNIT VENTILATORS.  
  
1a) FIELD VERIFY PROPER WORKING CONDITION OF EXISTING CIRCUITRY AND DISCONNECTS TO BE REUSED FOR NEW EQUIPMENT.
2. DISCONNECT AND COMPLETELY REMOVE ELECTRICAL CIRCUITS FOR EXISTING BELOW CEILING FAN COIL UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY ADDITIONAL REQUIREMENTS FOR REMOVAL OF EXISTING BELOW CEILING FAN COIL UNITS.
3. DISCONNECT AND REMOVE EXISTING BATHROOM LIGHT FIXTURES. FIELD VERIFY EXISTING SWITCH LEG CAN BE REWORKED TO ACCOMMODATE NEW LIGHTING LAY-OUT.
4. ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR ANY DEMO WORK TO BE DONE IN THIS AREA TO ACCOMMODATE THE NEW FLOOR PLAN. FIELD VERIFY EXISTING CIRCUITS CAN BE REWORKED TO ACCOMMODATE NEW FLOOR PLAN.



DESIGN PROFESSIONAL



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BY: KEL/EJS  
DATE: 02/18/2021  
SET: CONSTRUCTION DOCUMENTS



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RENOVATION 2020  
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OVERALL FLOOR PLAN  
ELECTRICAL DEMO

# E2.00

ELECTRICAL

1

## OVERALL ELECTRICAL FLOOR PLAN - DEMO

SCALE: 1/16"=1'-0"

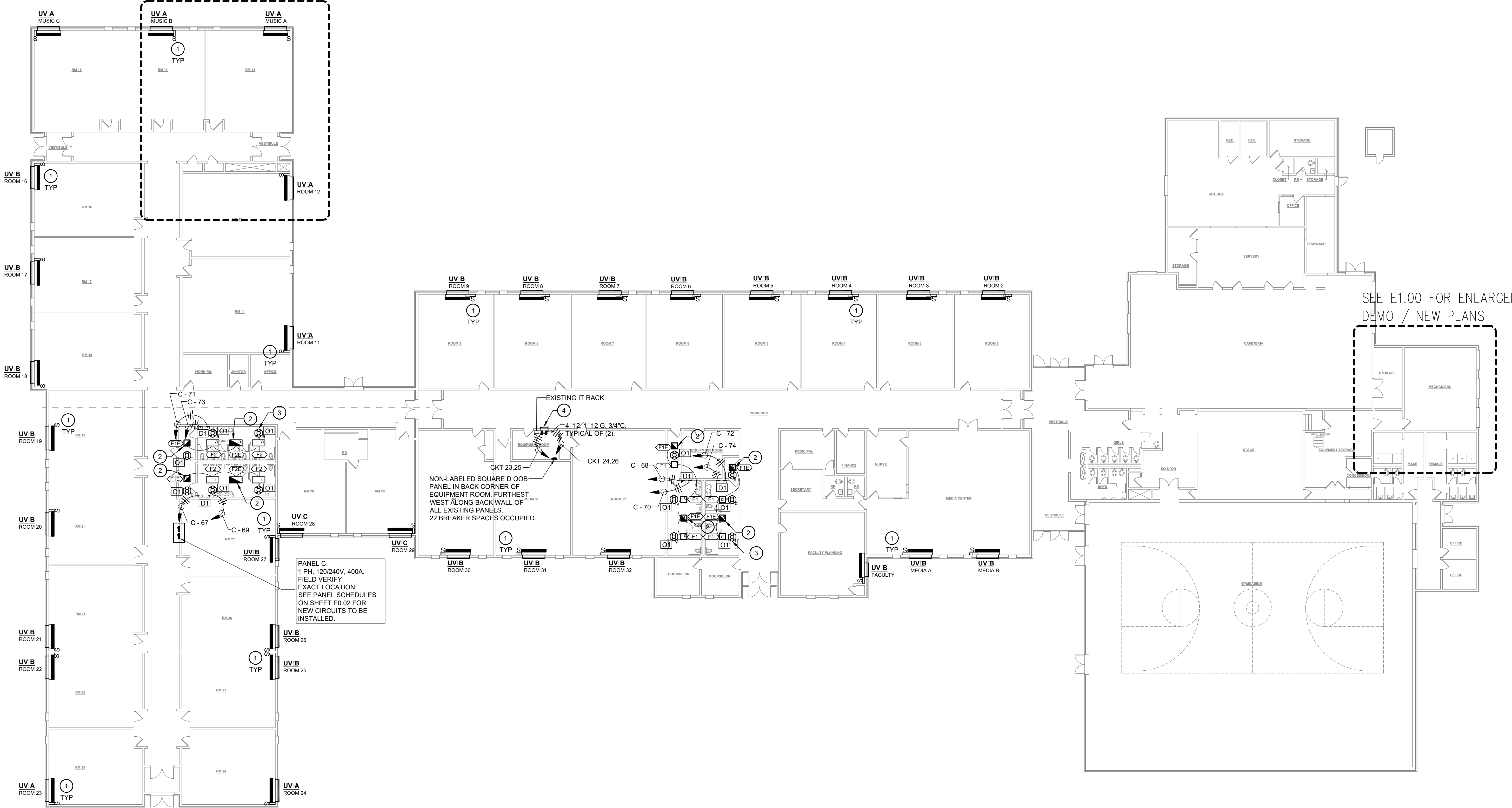
0 8' 16' 32'



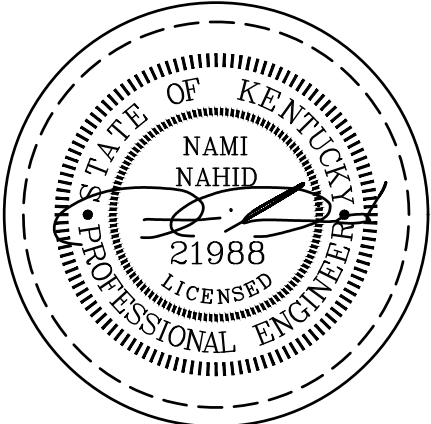
POWER & LIGHTING NOTES:

- USE EXISTING 120VOLT CIRCUIT THAT WAS PREVIOUSLY USED FOR THE UNIT VENTILATORS IN THE SAME LOCATION TO ENERGIZE NEW UNIT VENTILATORS. INSTALL NEW 20AMP MOTOR RATED SINGLE POLE SWITCH WITH A LOCKABLE SWITCH PLATE AS DISCONNECTING MEANS. TYPICAL.
- USE EXISTING CIRCUIT TO ENERGIZE NEW LIGHT FIXTURES. FIELD VERIFY CONSTANT HOT IS AVAILABLE FOR EMERGENCY BATTERY BACKUP. IF NOT, A CONSTANT HOT MUST BE PROVIDED.
- FOR APPLICATIONS IN WHICH MORE THAN ONE OCCUPANCY SENSOR IS ON A SWITCHED CIRCUIT, WIRE SENSORS IN PARALLEL PER MANUFACTURER RECOMMENDATIONS. TYPICAL.
- (4) NEW 125 VOLT, 20AMP, DUPLEX RECEPTACLES TO BE INSTALLED IN (2) DOUBLE GANG BOXES. EACH DUPLEX RECEPTACLE TO BE ON ITS OWN DEDICATED CIRCUIT. EACH CIRCUIT TO BE FED FROM A NEW SINGLE POLE, 20 AMP BREAKER FROM THE NON-LABELED SQUARE D QOB PANEL IN THE BACK CORNER OF THE EQUIPMENT ROOM. COORDINATE WITH SECURITY AND CAMERA VENDOR FOR EXACT LOCATION OF NEW RECEPTACLES, AND ANY ADDITIONAL REQUIREMENTS.

SEE E1.00 FOR BASEMENT MECH  
ROOM DEMO / NEW PLANS



1 OVERALL ELECTRICAL FLOOR PLAN - POWER AND LIGHTING PLAN  
SCALE: 1/16"=1'-0"



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY KEL: ELS

DATE 02/18/2021

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REVISION	DESCRIPTION
Δ DDDMMYYYY	REVISION DESCRIPTION



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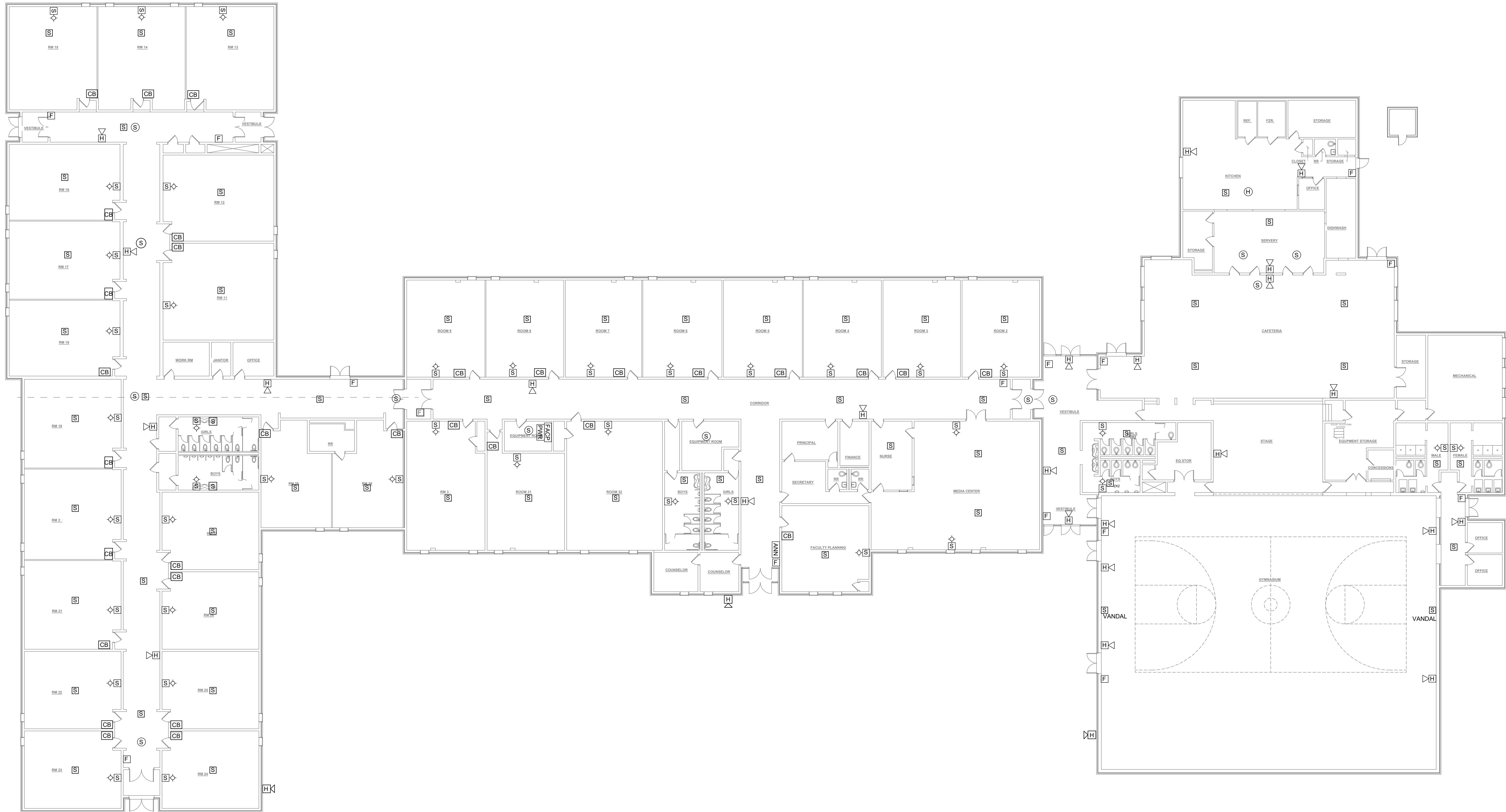
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OVERALL FLOOR PLAN  
POWER AND LIGHTING

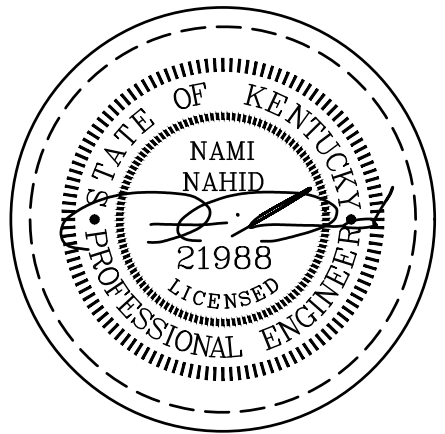
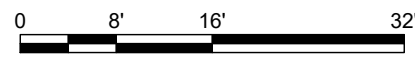
E2.01

ELECTRICAL





1 OVERALL ELECTRICAL FLOOR PLAN - FIRE ALARM AND PA SYSTEM  
SCALE: 1/16"=1'-0"



DESIGN PROFESSIONAL



PLAN REVIEWER

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OVERALL FLOOR PLAN  
FIRE ALARM AND PA  
SYSTEM

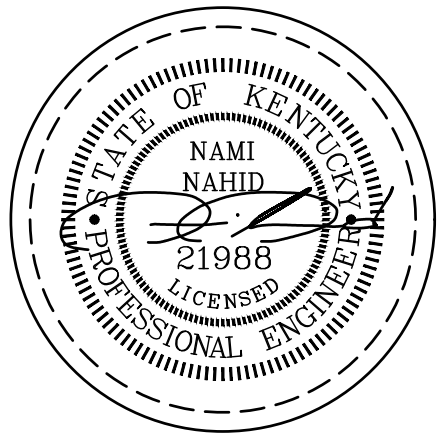
E.00

ELECTRICAL





1 OVERALL ELECTRICAL FLOOR PLAN - CCTV AND ACCESS CONTROLS  
SCALE: 1/16"=1'-0"



DESIGN PROFESSIONAL

**SKY ENGINEERING**  
MECHANICAL - ELECTRICAL - PLUMBING  
1805 EAST GREENE AVENUE, SUITE 103  
BOWLING GREEN, KY 42104  
270-599-0182

PLAN REVIEWER

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DATE	02/18/2021
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DECO ARCHITECTS  
Somerset, Kentucky  
(606) 687 - 9233  
www.decoarchitects.co

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OVERALL FLOOR PLAN  
CCTV AND ACCESS CONTROL



DESIGN INTENT NOTES

1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13, AND ALL APPLICABLE STATE AND LOCAL CODES. THIS PLAN INDICATES THE INTENT OF THE DESIGN. CONTRACTOR HAS THE OPTION TO REDESIGN PIPING PROVIDED THE INTENT OF THE DESIGN IS NOT ALTERED.

2. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND GOVERNMENT REQUIREMENTS.

3. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE DEPARTMENT AND ARCHITECT/ENGINEER.

4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.

5. PIPE ROUTING SHOWN CAN BE USED OR EQUIVALENT AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY EXISTING STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.

6. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS ETC. FLASH AND COUNTER FLASH ROOF PENETRATIONS. (SEE FIRE RATED PIPE PENETRATION DETAIL).

7. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.

8. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL EXISTING/NEW DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS.

9. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13.

10. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13.

11. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "FM", 175 WORKING PRESSURE.
12. A SPRINKLER HEAD SHALL BE INSTALLED NO FURTHER THAT 7'-6" FROM EITHER SIDE OF A MAGNETICALLY HELD OPEN SMOKE DOOR.

13. PROVIDE A PERMANENTLY ATTACHED NAME TAG STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.

14. SPRINKLERS SHALL COVER THE ENTIRE AREA OF THE ROOM. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS.

15. ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS, CEILING HEIGHT CHANGES OR ANY OTHER VERTICAL INTERSECTING SURFACE.

16. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.

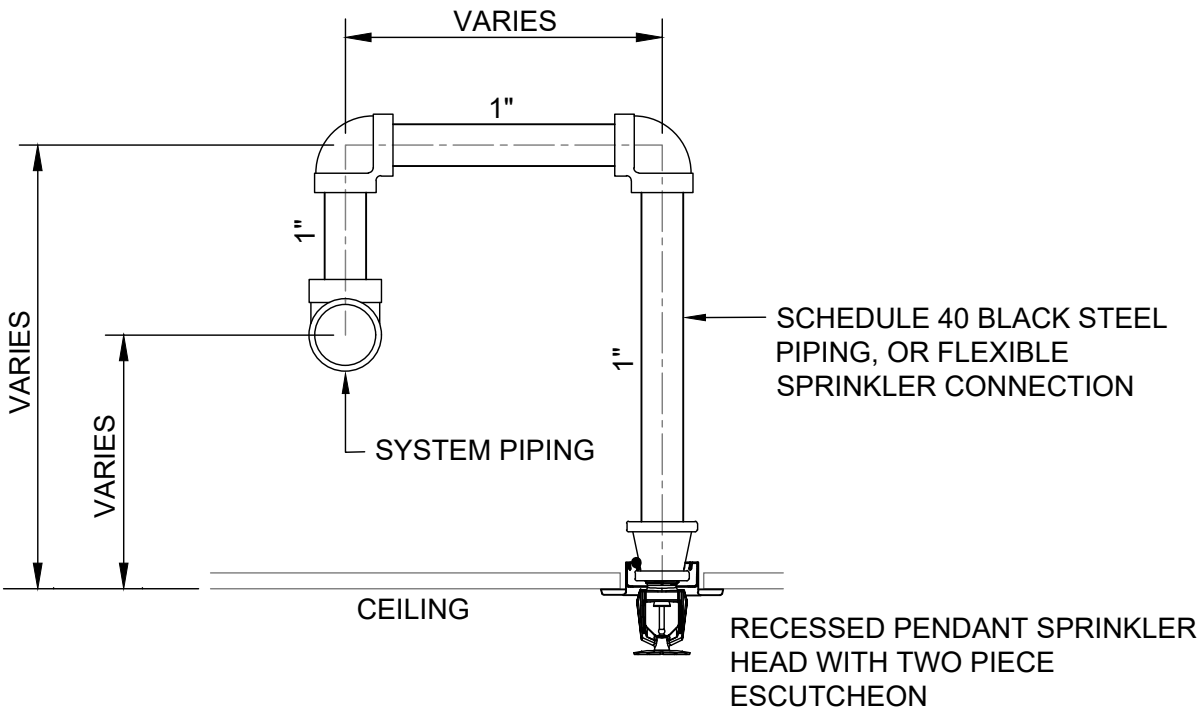
17. MAINTAIN A MINIMUM OF 18 INCHES FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE/FILE STORAGE.

18. PROVIDE SYSTEM(S) WITH FLUSHING CONNECTION(S).

19. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4 FEET AND WIDER.

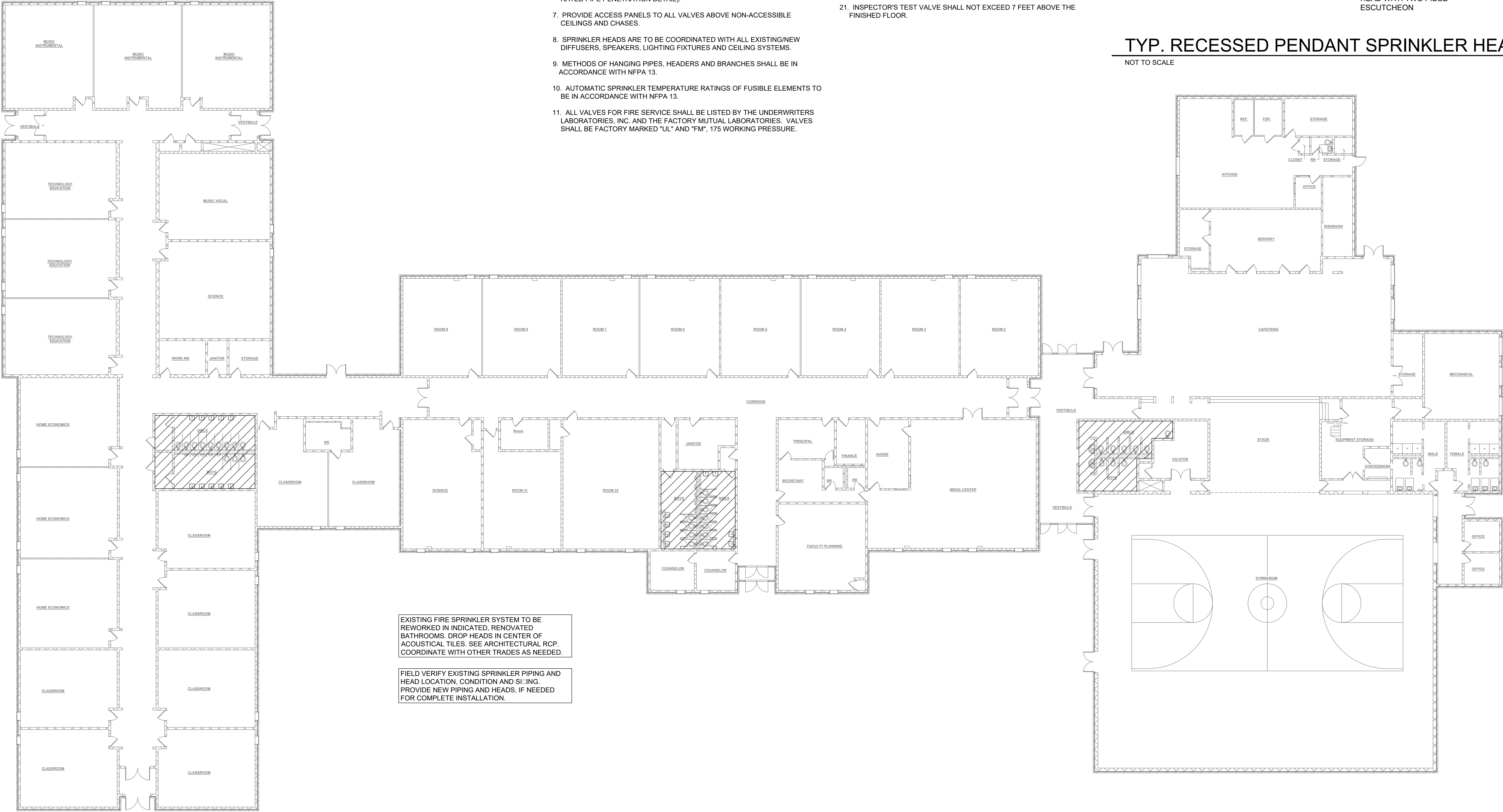
20. PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRIC AND TELEPHONE ROOMS.

21. INSPECTOR'S TEST VALVE SHALL NOT EXCEED 7 FEET ABOVE THE FINISHED FLOOR.



TYP. RECESSED PENDANT SPRINKLER HEAD DTL

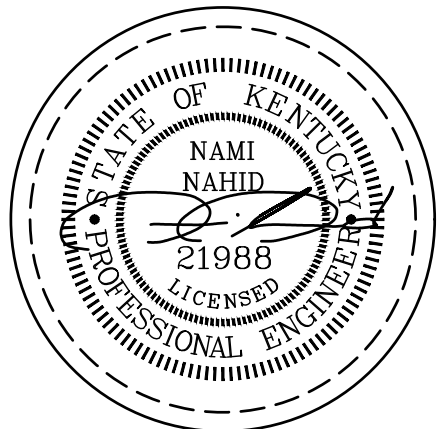
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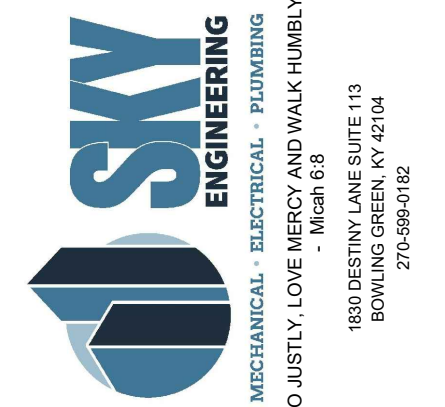
1 OVERALL FIRE PROTECTION INTENT

SCALE: 1/16"=1'-0"

0 8' 16' 32'



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY ACE

DATE 02/18/2021

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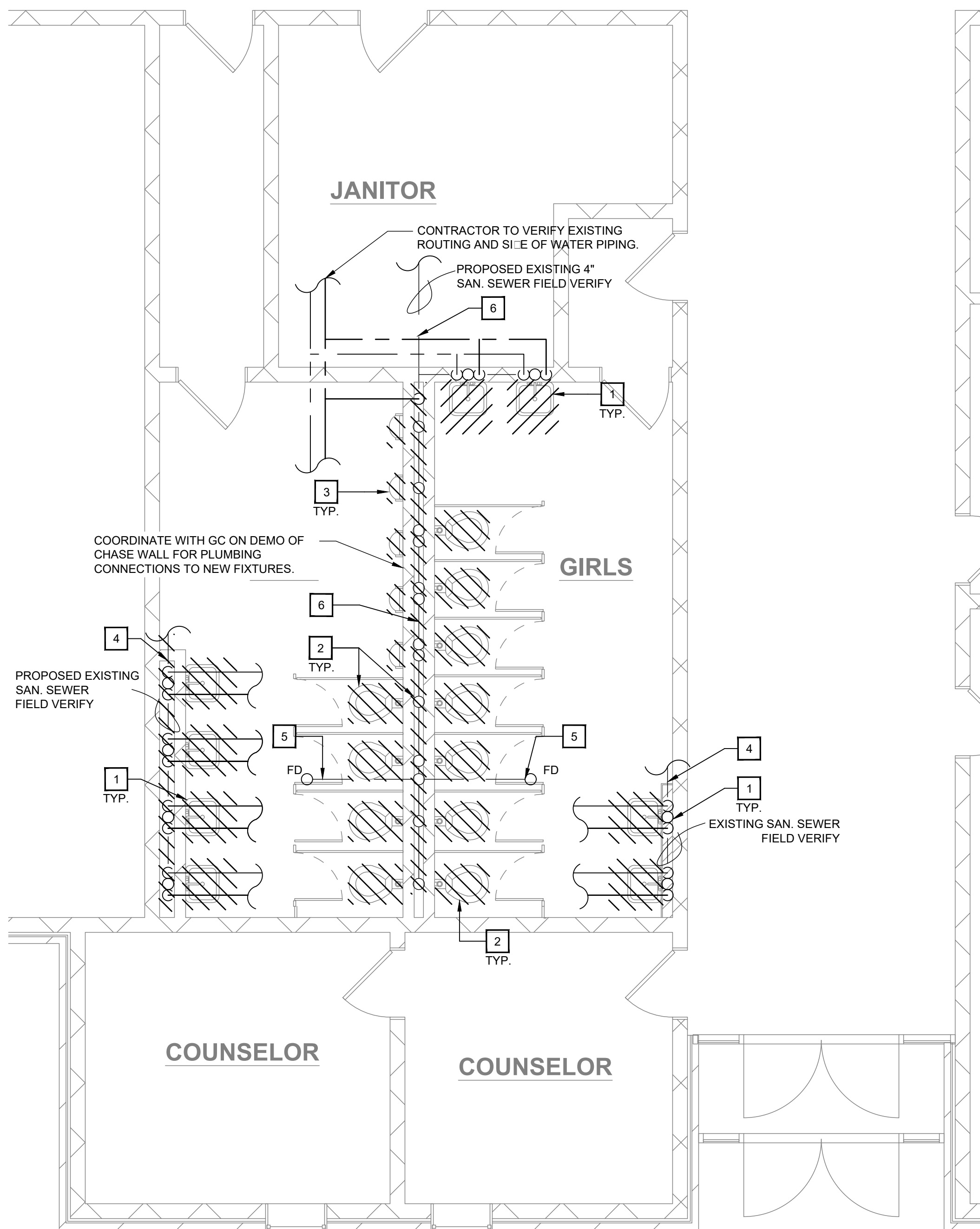
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FIRE INTENT  
PLAN, NOTES & DTL

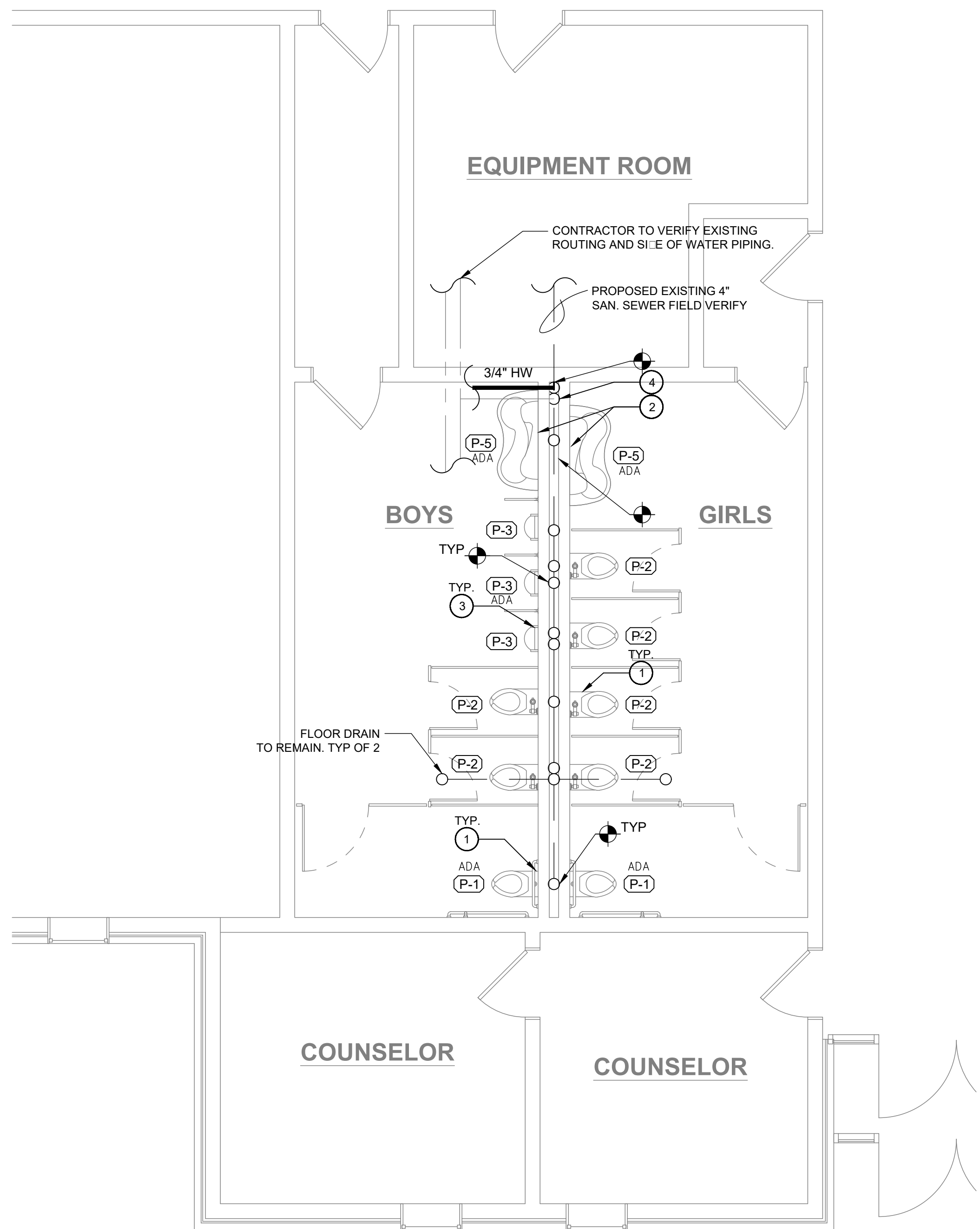
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FIRE PROTECTION

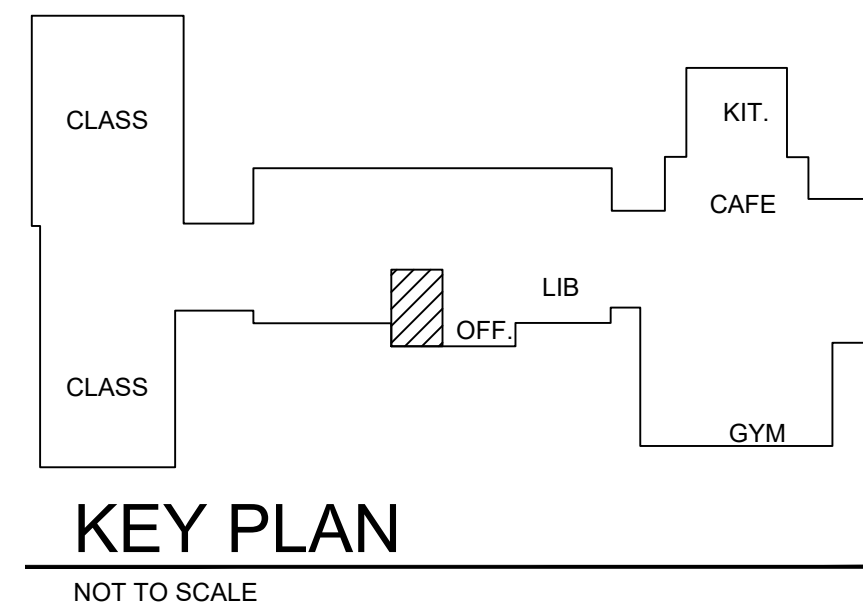




1 ENLARGED FLOOR PLAN - TOILET ENTRY - DEMO  
SCALE: 1/4"=1'-0"



2 ENLARGED FLOOR PLAN - TOILET ENTRY - NEW WORK  
SCALE: 1/4"=1'-0"



KEY PLAN  
NOT TO SCALE

- DEMO NOTES:**
- ALL EXISTING LAVATORIES SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL PIPING, POWER, DRAIN, ETC. CAP PIPING BACK TO MAIN. FIELD VERIFY EXISTING DRAIN AND WATER CONNECTION LOCATION, ROUTING, AND CONDITIONS. SEE RISER.
  - REMOVE EXISTING FLOOR MOUNTED TOILETS, INCLUDING WATER, VALVE AND DRAIN CONNECTION CAP AT MAIN (TYP). REMOVE EXISTING FLOORING, AS REQUIRED, IN PREPARATION FOR NEW SEWAGE CONNECTION TO NEW FLOOR MOUNTED AUTOMATIC FLUSH VALVE TOILETS. SEE PLUMBING SCHEDULE AND ARCHITECTURAL FOR ADDITIONAL INFORMATION AND FINISHES.
  - REMOVE EXISTING URINALS IN ENTIRETY, INCLUDING WALL CARRIER, WATER CONNECTION, VALVES AND SEWER CONNECTION. REWORK WATER AND DRAIN PIPING FOR NEW FIXTURE. INSTALL CAP UNUSED PIPING, AT MAIN. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
  - PROPOSED LOCATION OF LAVATORY SEWER / VENT BRANCH LINE TO BE CAPPED BACK TO MAIN OR ABANDONED IN PLACE IF: FIELD VERIFICATION REVEALS BRANCH LINE SERVES ADDITIONAL FIXTURES THAN REMOVED LAVATORIES OR PERMISSION IS OBTAINED FROM LOCAL AHJ.
  - FLOOR DRAINS TO REMAIN. FIELD VERIFY CONDITION OF PIPING AND FIXTURE. PROVIDE TRAP PRIMER IF NOT PRESENT OR IN WORKING CONDITION.
  - PROPOSED LOCATION OF EXISTING MAIN UNDER PLUMBING CHASE WALL. FIELD VERIFY CONDITION, SIZE AND LOCATION. REPLACE ANY PIPE NEEDED FOR COMPLETE INSTALL OF FIXTURES PER CODE. **JET CLEAN EXISTING SEWER MAIN IN BATHROOM PRIOR TO NEW FIXTURE INSTALLATION.**

- NEW WORK NOTES:**
- CONTRACTOR TO INSTALL NEW FLOOR MOUNTED AUTOMATIC FLUSH VALVE TOILETS TO EXISTING DRAIN AND WATER PIPING. UTILIZE EXISTING PIPING WHEN APPLICABLE OR PROVIDE NEW CONNECTION TO MAINS, AS NEEDED FOR COMPLETE INSTALL OF NEW FIXTURE. SEE SEWER RISER.
  - NEW WALL HUNG LAVATORY SYSTEM SHALL BE CONNECTED TO REWORKED DOMESTIC COLD WATER PIPING. UTILIZE EXISTING PIPING WHEN APPLICABLE OR PROVIDE NEW CONNECTION TO MAINS, AS NEEDED FOR COMPLETE INSTALL OF NEW FIXTURE. FIELD VERIFY EXISTING CONDITIONS OF PIPING, REPLACE IF NEEDED. PROVIDE NEW 3/4" HOT WATER WITH SHUT OFF VALVE, TO NEW FIXTURE. FIELD VERIFY EXISTING HOT WATER MAIN LOCATION AND CONNECT. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALL. SEE FIXTURE CONNECTION SCHEDULE.
  - NEW URINAL SHALL TIE TO EXISTING MAINS, UTILIZE EXISTING PIPE CONNECTIONS WHEN APPLICABLE OR PROVIDE NEW CONNECTIONS TO MAINS, AS NEEDED FOR COMPLETE INSTALL OF NEW FIXTURE. SEE RISER AND FIXTURE CONNECTION SCHEDULE.
  - CONTRACTOR TO FIELD VERIFY EXISTING WATER CONNECTION SIZE IN PIPE CHASE AND REWORK FOR NEW CONNECTIONS TO FIXTURES, AS REQUIRED. SEE FIXTURE CONNECTION SCHEDULE.

DESIGN PROFESSIONAL

MECHANICAL - ELECTRICAL - PLUMBING  
NAMI NAHID  
21988  
DO JUSTLY, LOVE MERCY AND WALK HUMBLY  
1805 SAGE GARDEN, SUITE 103  
BOWLING GREEN, KY 42104  
270-899-0182

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REVISION

REVISION	DESCRIPTION
1	DDMM/YYYY REVISION DESCRIPTION

ARCHITECTS  
Somerse, Kentucky  
(606)687-9233  
www.decoarchitects.co

TODD COUNTY MIDDLE SCHOOL  
RENOVATION 2020

515 W MAIN ST  
ELKTON, KENTUCKY 42220  
20200821

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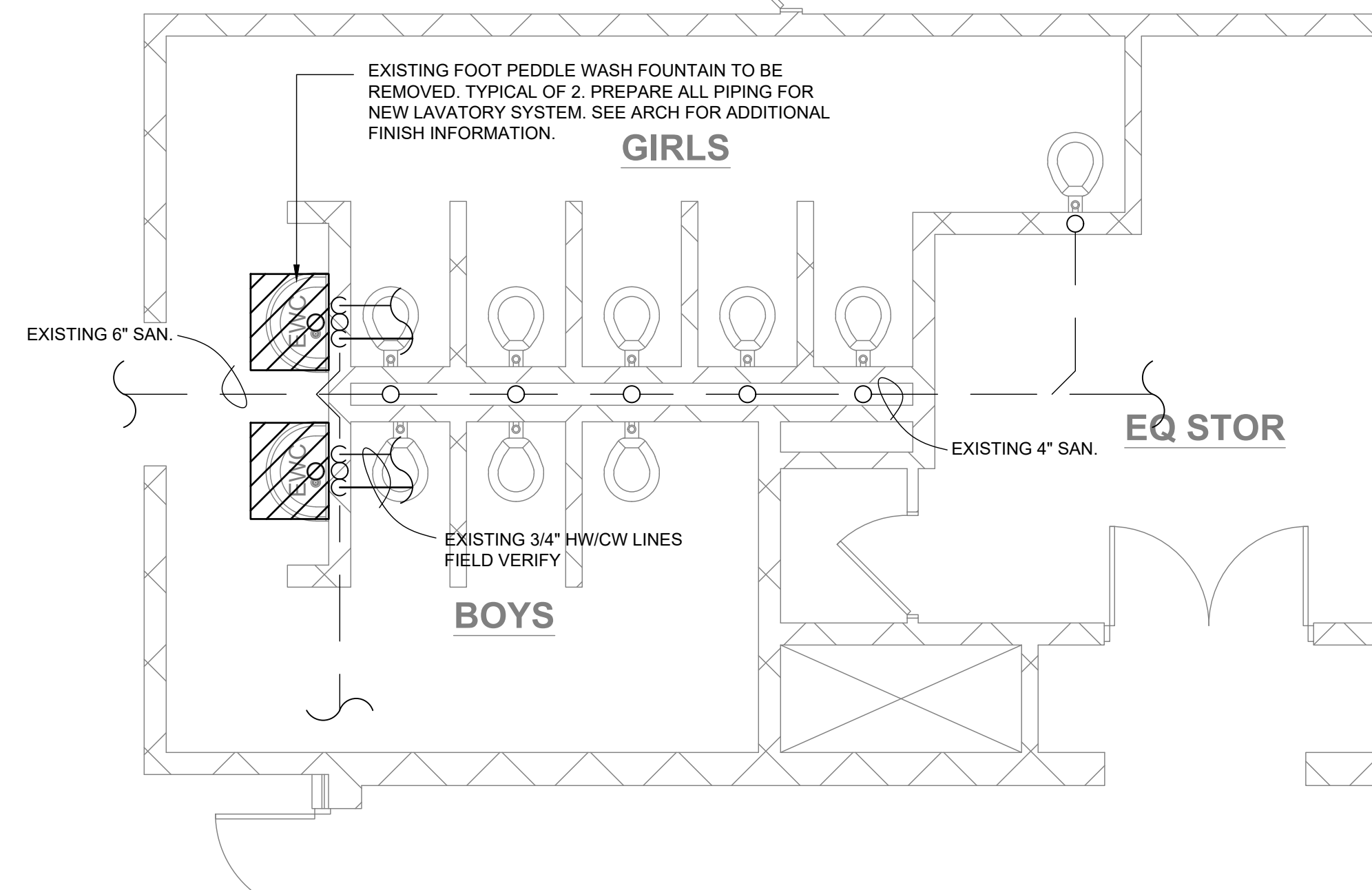
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PLUMBING  
ENLARGED FLOOR PLAN

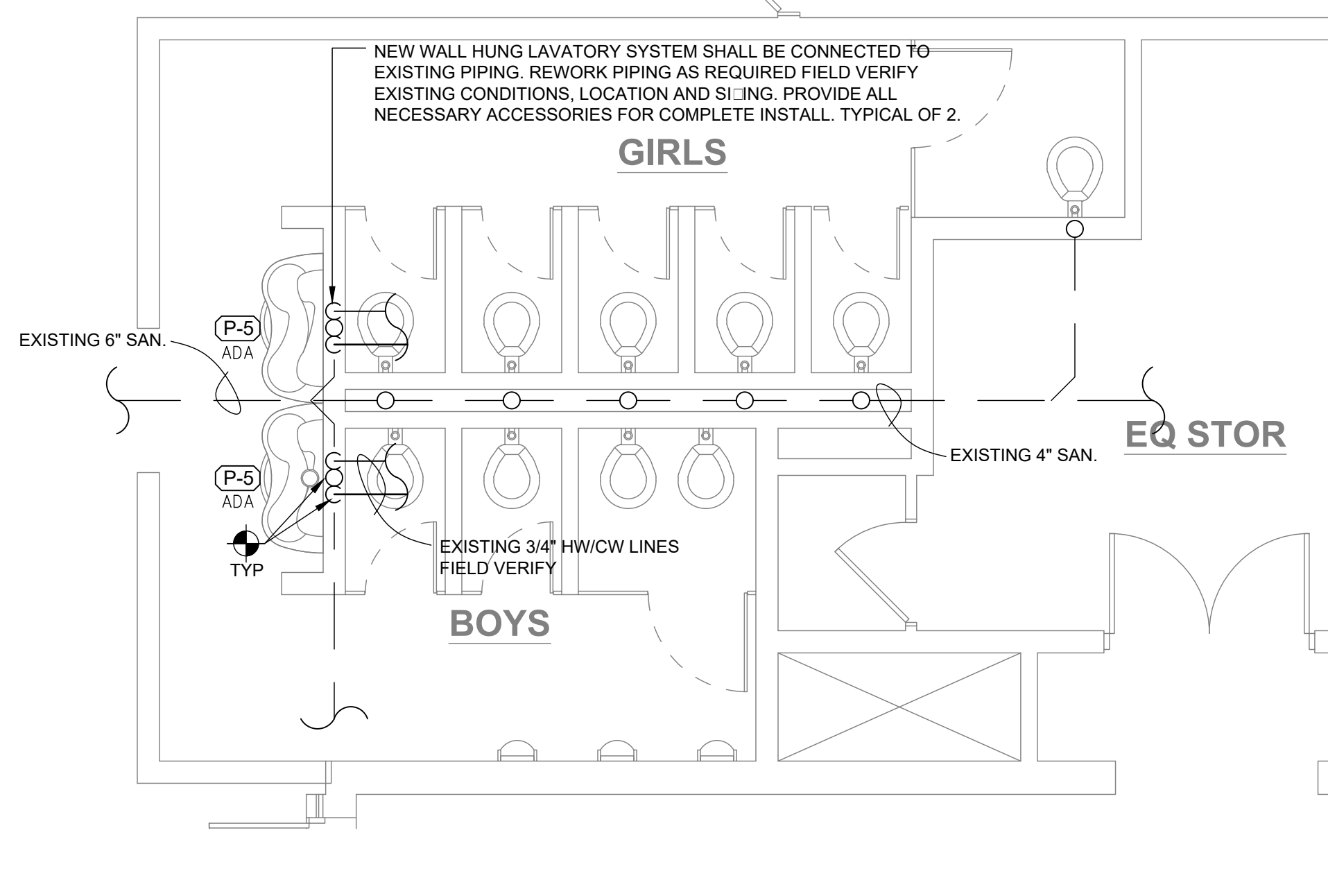
P1.01

PLUMBING

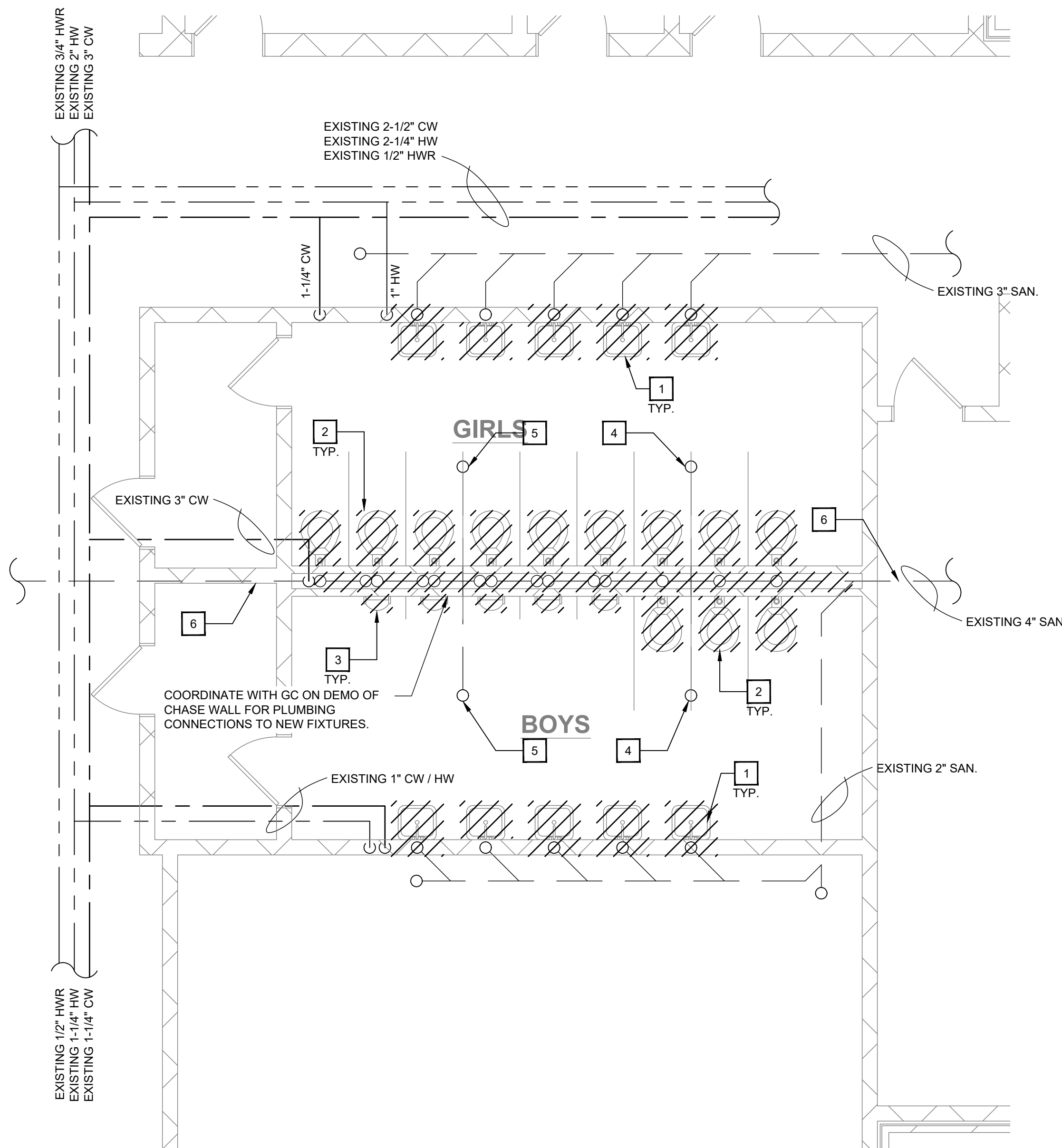




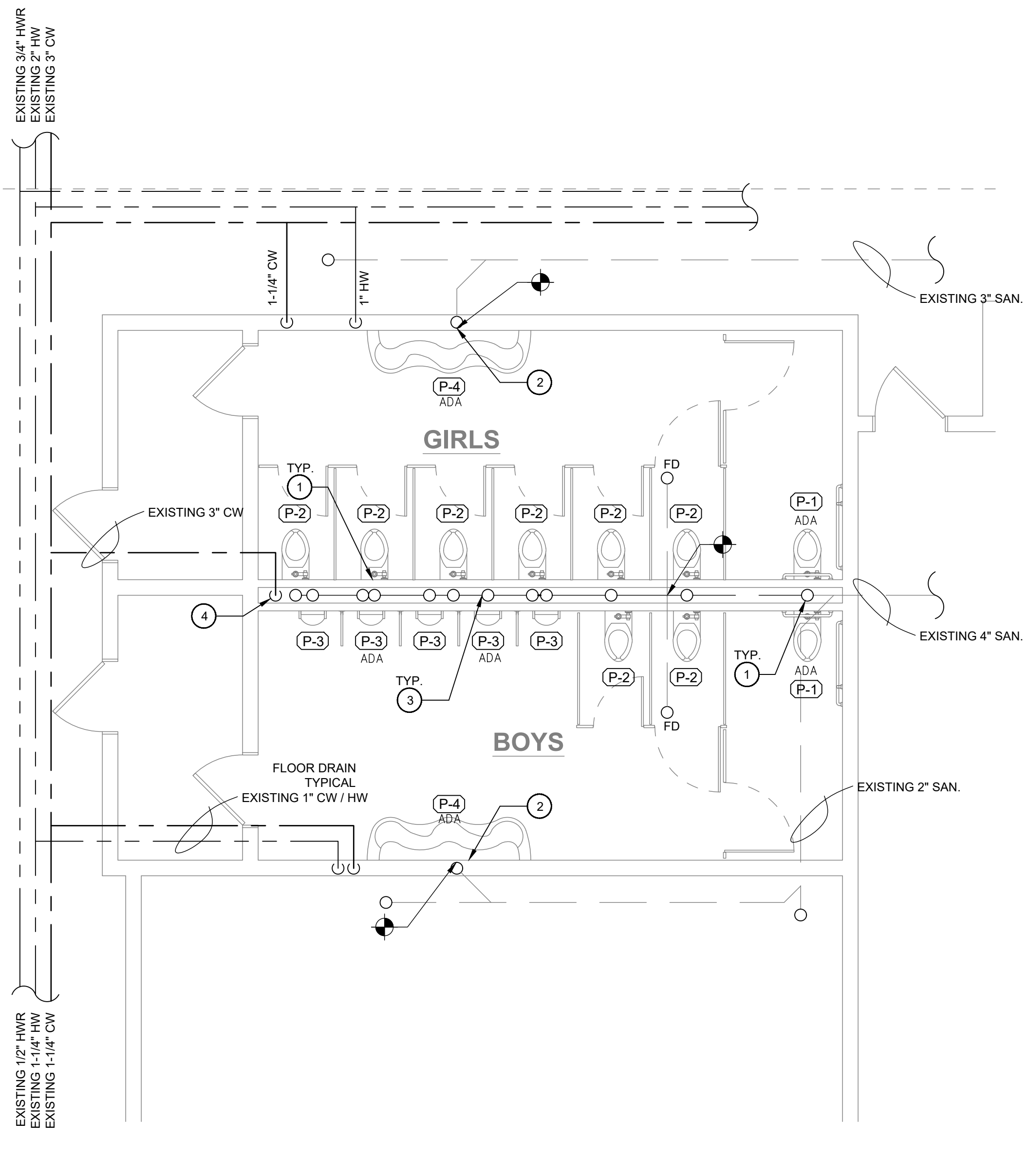
**3 ENLARGED FLOOR PLAN - TOILET □ GYM - DEMO**  
SCALE: 1/4"=1'-0"



**4 ENLARGED FLOOR PLAN - TOILET □ GYM - NEW WORK**  
SCALE: 1/4"=1'-0"



**1 ENLARGED FLOOR PLAN - TOILET □ CLASSROOM - DEMO**  
SCALE: 1/4"=1'-0"



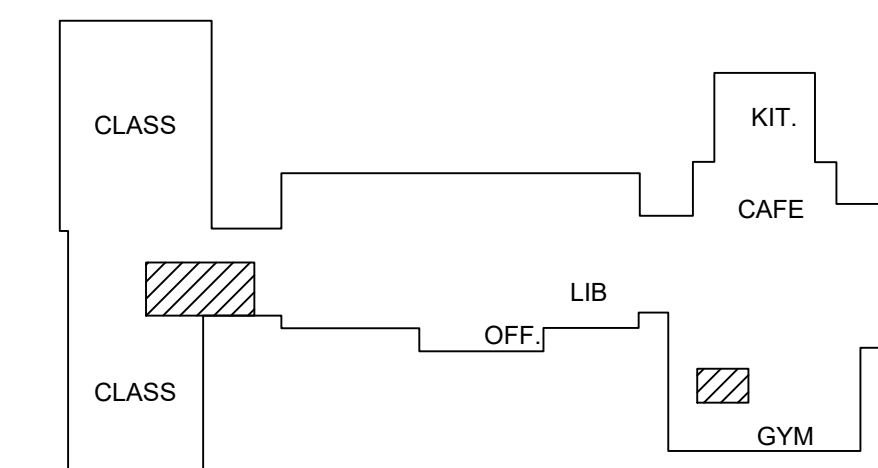
**2 ENLARGED FLOOR PLAN - TOILET □ CLASSROOM - NEW WORK**  
SCALE: 1/4"=1'-0"

## DEMO NOTES:

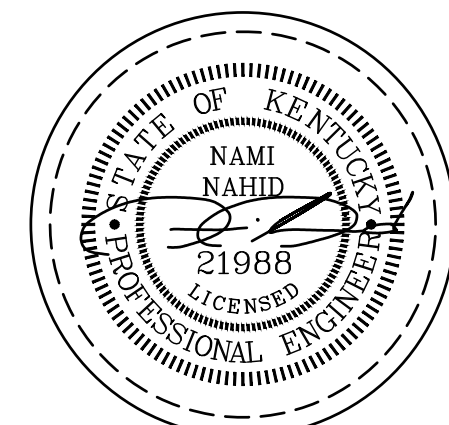
- ALL EXISTING LAVATORIES SHALL BE REMOVED, IN THEIR ENTIRETY, INCLUDING ALL PIPING, POWER, DRAIN, ETC. FIELD VERIFY EXISTING DRAIN AND WATER CONNECTION LOCATION, ROUTING AND CONDITION. REWORK EXISTING PIPING NEEDED FOR NEW LAVATORY INSTALL. CAP UNUSED PIPING AT MAIN. SEE PLAN, DETAIL AND RISER.
- REMOVE EXISTING FLOOR MOUNTED TOILETS, INCLUDING WATER, VALVE AND DRAIN CONNECTION CAP AT MAIN (TYP). REMOVE EXISTING FLOORING, AS REQUIRED, IN PREPARATION FOR NEW SEWAGE CONNECTION TO NEW FLOOR MOUNTED AUTOMATIC FLUSH VALVE TOILETS. SEE PLUMBING SCHEDULE AND ARCHITECTURAL FOR ADDITIONAL INFORMATION AND FINISHES.
- REMOVE EXISTING URINALS IN ENTIRETY, INCLUDING WALL CARRIER, WATER CONNECTION, VALVES AND SEWER CONNECTION. REWORK WATER AND DRAIN PIPING FOR NEW URINAL INSTALL. CAP UNUSED PIPING, AT MAIN. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
- FLOOR DRAINS TO REMAIN. FIELD VERIFY CONDITION OF PIPING AND FIXTURE. PROVIDE TRAP PRIMER IF NOT PRESENT OR IN WORKING CONDITION.
- FLOOR DRAIN TO BE REMOVED ALONG WITH PIPING, FITTINGS ETC. CAP AT MAIN UNDERGROUND. COORDINATE WITH GC AND FLOORING CONTRACTOR.
- PROPOSED LOCATION OF EXISTING MAIN UNDER PLUMBING CHASE WALL. FIELD VERIFY CONDITION, SIZE AND LOCATION. REPLACE ANY PIPE NEEDED FOR COMPLETE INSTALL OF FIXTURES PER CODE. **JET CLEAN EXISTING SEWER MAIN IN BATHROOM PRIOR TO NEW FIXTURE INSTALLATION.**

## NEW WORK NOTES:

- CONTRACTOR TO INSTALL NEW FLOOR MOUNTED AUTOMATIC FLUSH VALVE TOILETS TO EXISTING DRAIN AND WATER PIPING. UTILIZE EXISTING PIPING WHEN APPLICABLE OR PROVIDE NEW CONNECTION TO MAINS, AS NEEDED FOR COMPLETE INSTALL OF NEW FIXTURE. SEE SEWER RISER AND FIXTURE CONNECTION SCHEDULE.
- NEW WALL HUNG LAVATORY SYSTEM SHALL BE CONNECTED TO REWORKED COLD AND HOT WATER PIPING. UTILIZE EXISTING PIPING WHEN APPLICABLE OR PROVIDE NEW CONNECTION TO MAINS, AS NEEDED FOR COMPLETE INSTALL OF NEW FIXTURE. FIELD VERIFY EXISTING CONDITIONS OF PIPING. PROVIDE 2" DWV PIPING IF NEEDED. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALL. SEE FIXTURE CONNECTION SCHEDULE AND SEWER RISER.
- NEW URINAL SHALL TIE TO EXISTING MAINS. UTILIZE EXISTING PIPE CONNECTIONS WHEN APPLICABLE OR PROVIDE NEW CONNECTIONS TO MAINS, AS NEEDED FOR COMPLETE INSTALL OF NEW FIXTURE. SEE RISER AND FIXTURE CONNECTION SCHEDULE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER CONNECTION SIZE IN PIPE CHASE AND REWORK FOR NEW CONNECTIONS TO FIXTURES, AS REQUIRED. SEE FIXTURE CONNECTION SCHEDULE.



**KEY PLAN**  
NOT TO SCALE



DESIGN PROFESSIONAL



PLAN REVIEWER

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BY	ACE
DATE	02/18/2021
SET	CONSTRUCTION DOCUMENTS



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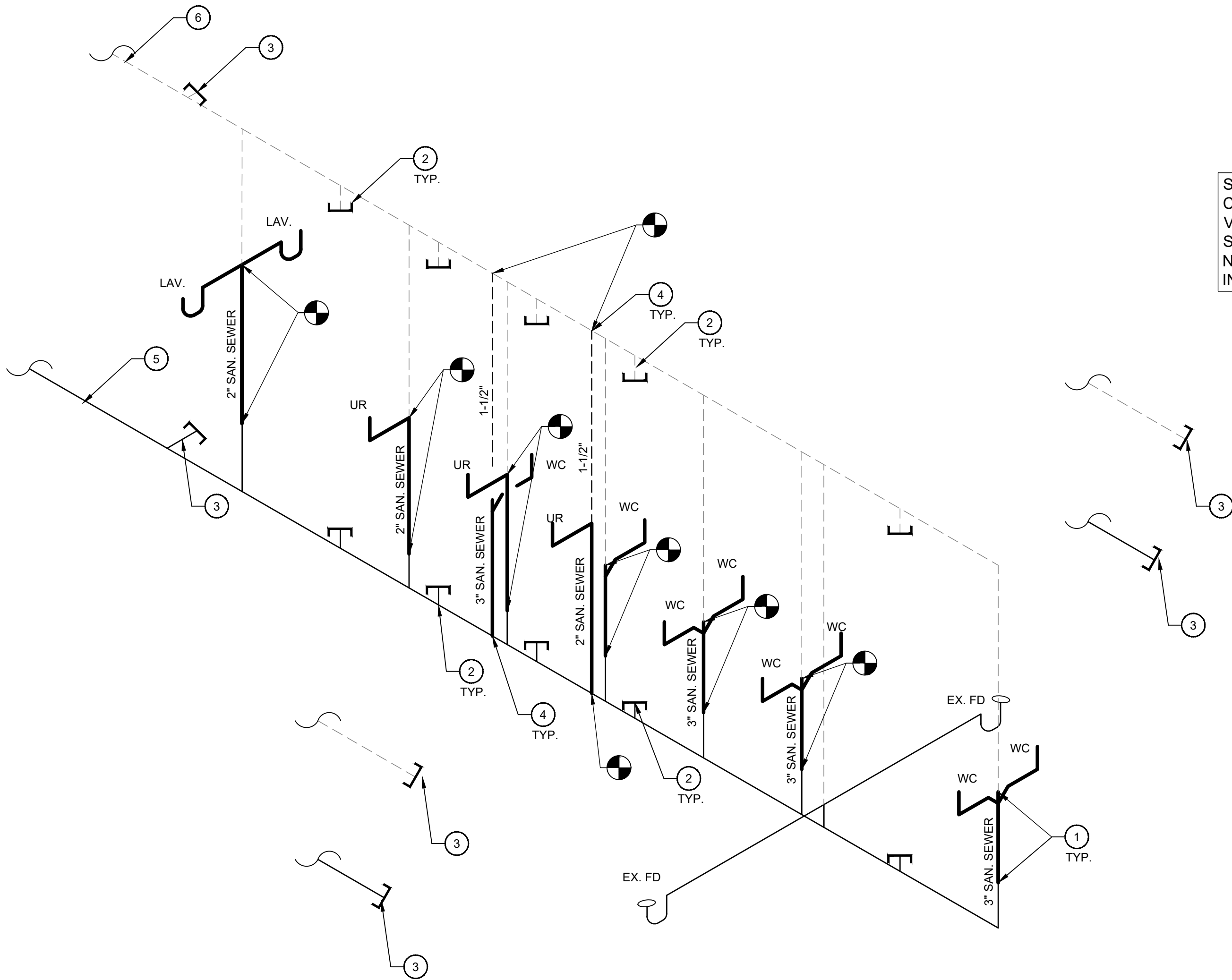
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**PLUMBING  
ENLARGED FLOOR PLAN**

**P1.02**

**PLUMBING**



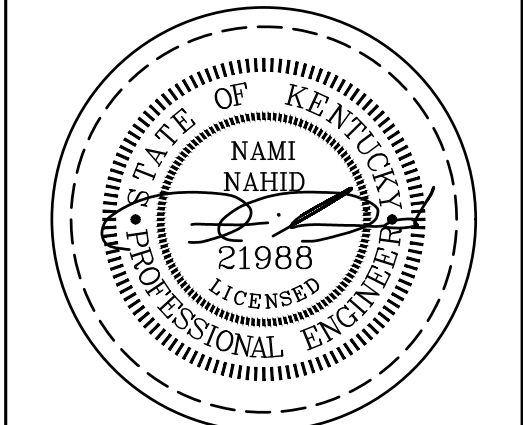


SEWER RISER IS FOR SCHEMATIC USE ONLY. CONTRACTOR MUST FIELD VERIFY EXISTING VERTICAL PIPE LOCATION, CONDITION AND SIZING PRIOR TO INSTALL. REPLACE ANY NEEDED DWV PIPING FOR COMPLETE INSTALLATION OF NEW FIXTURES.

FIXTURE CONNECTION SCHEDULE				
DESCRIPTION	CONNECTION SIZE			
	WASTE	C.W.	H.W.	VENT
SINK	2"	1/2"	1/2"	1-1/2"
URINAL	2"	3/4"	-	1-1/2"
LAVATORY	2"	1/2"	1/2"	1-1/2"
WATER CLOSET (FLUSH VALVE)	3"	1-1/2"	-	1-1/2"
SHOWER	3"	3/4"	3/4"	1-1/2"
MOP BASIN	3"	3/4"	3/4"	1-1/2"
DRINKING FOUNTAIN	2"	1/2"	-	1-1/2"
FLOOR DRAIN	3" OR 4"	1/2" T.P.	-	1-1/2"
TRAP PRIMER UNIT	-	1/2"	-	-

NOTE: FIXTURE CONNECTION SCHEDULE SHALL BE USED FOR TYPICAL CONNECTION. SEE RISER AND PLANS FOR ADDITIONAL WASTE, CW, HW, AND VENT SIZES.

- SEWER RISER NOTES:**
1. INSTALL NEW FIXTURE TO EXISTING DRAIN/VENT PIPING. UTILIZE EXISTING VERTICAL PIPES WHEN APPLICABLE. FIELD VERIFY EXISTING LOCATION, CONDITION AND SIZE OF PIPE. SEE FIXTURE CONNECTION SCHEDULE FOR APPROPRIATE DWV SIZE.
  2. CAP OR REMOVE EXISTING FIXTURE DWV LINES BACK TO MAIN PER CODE. REPLACE ANY DWV PIPE NEEDED FOR COMPLETE INSTALL OF FIXTURES PER CODE. FIELD VERIFY.
  3. EXISTING LAVATORY SEWER/VENT BRANCH SHALL BE REMOVED AND CAPPED BACK TO MAIN OR ABANDONED IN PLACE IF: FIELD VERIFICATION REVEALS BRANCH LINE SERVES ADDITIONAL FIXTURES THAN REMOVED LAVATORIES OR PERMISSION IS OBTAINED FROM LOCAL AHJ.
  4. PROVIDE NEW CONNECTION TO MAINS, AS NEEDED FOR COMPLETE INSTALL OF NEW FIXTURE.
  5. PROPOSED LOCATION OF EXISTING SEWER MAIN UNDER PLUMBING CHASE WALL. FIELD VERIFY CONDITION, SIZE AND LOCATION. REPLACE ANY PIPE NEEDED FOR COMPLETE INSTALL OF FIXTURES PER CODE.
  6. PROPOSED LOCATION OF EXISTING VENT MAIN ABOVE CEILING. FIELD VERIFY CONDITION, SIZE AND LOCATION. REPLACE ANY PIPE NEEDED FOR COMPLETE INSTALL OF FIXTURES PER CODE.



DESIGN PROFESSIONAL

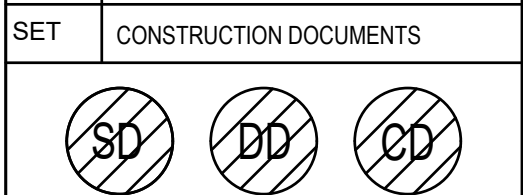
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PLUMBING  
SEWER RISER

P2.01

PLUMBING



MATERIALS

DOMESTIC WATER PIPE - ABOVE SLAB TYPE L COPPER  
UNDERGROUND TYPE K COPPER

COPPER PIPE FITTINGS SHALL BE WROT COPPER, SOCKET TYPE, MIL-F-1183 WITH 95/5 SOLDER OR "NO LEAD" SOLDER FOR POTABLE WATER.

WASTE PIPING BELOW SLAB - SCHEDULE 40 PVC

WASTE AND VENT PIPING ABOVE SLAB CAN BE SCH. 40 PVC

PVC PIPE FITTINGS 4" AND SMALLER SHALL BE ASTM D-1785, TYPE 1, GRADE 1, SOCKET TYPE WITH ASTM D-2564 SOLVENT CEMENT.

ALL DOMESTIC WATER LINES INSULATED WITH 1" BLACK FOAM STENCILED EVERY 10'-0" INSTALLED

SPECIFICATIONS

HANDICAP LAVATORY P-TRAP  
AND ANGLE VALVE ASSEMBLIES SHALL  
BE INSULATED WITH THE FULLY MOLDED, TRUEBRO, HANDI  
LAV-GUARD INSULATION KIT WITH 3-PIECE INTERLOCKING TRAP

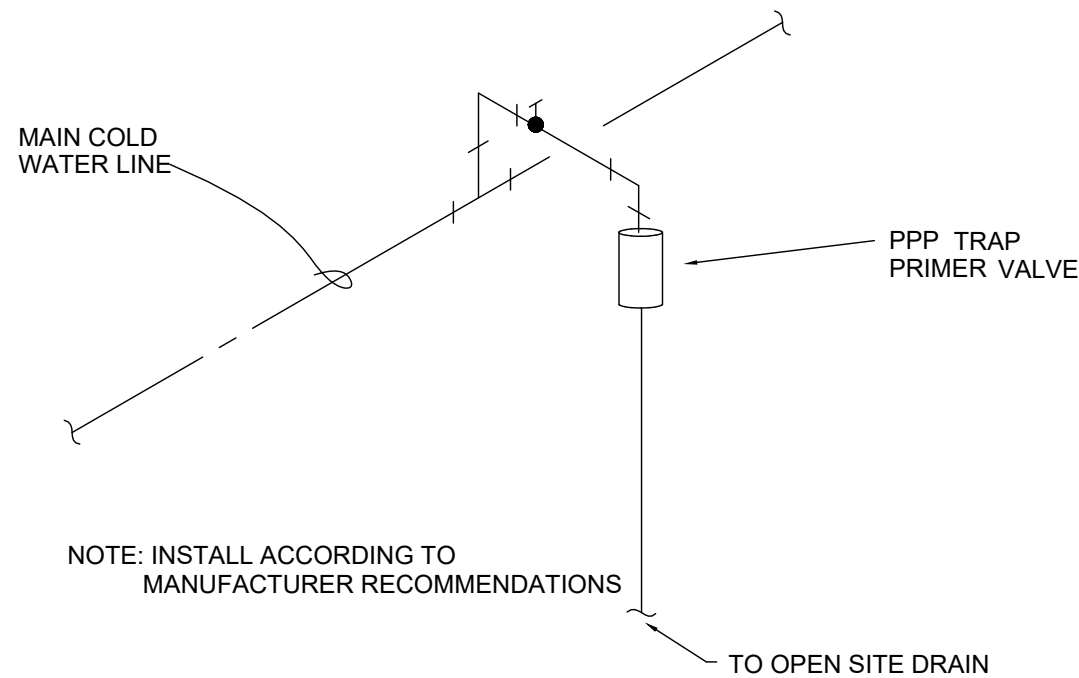
ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE  
VALVE ASSEMBLIES. FASTENERS SHALL BE NYLON-TYPE  
SUPPLIED WITH KIT

TRUEBRO  
P.O. BOX 429, ELLINGTON, CT 06029  
PHONE: (203) 875-2868

HANDI LAV-GUARD KIT FITS:

1 1/4" OR 1 1/2" TUBULAR PLASTIC P-TRAPS  
1 1/4" OR 1 1/2" TUBULAR BRASS P-TRAPS

1 1/4" OR 1 1/2" SEMI-CAST BRASS P-TRAPS  
1 1/4" STRAIGHT LAVATORY TAIL PIECE  
1/2" SWEAT ANGLE STOP VALVE, KEYED OR REGULAR  
1/2" COMP. ANGLE STOP VALVE, KEYED OR REGULAR  
3/8" I.P. ANGLE STOP VALVE, KEYED OR REGULAR  
3/8" O.D. SUPPLY TUBE



TRAP PRIMER UNIT

NOT TO SCALE

GENERAL PLUMBING NOTES

- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH OR AHJ APPROVED.
- EXISTING SANITARY SEWER THAT CONTAINS HUMAN WASTE SHALL BE JET CLEANED IN REMODELED AREA, PRIOR TO INSTALLATION OF NEW FIXTURES.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE, CONTRACTORS SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE VERTICAL AND HORIZONTAL VARIATIONS IN THE LOCATIONS, ELEVATIONS OF PIPING AND EXISTING CONDITIONS.
- EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT DRAINS, ETC...) SHALL HAVE PRIORITY.
- PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF EQUIPMENT. FIELD VERIFY EXISTING WALL PENETRATIONS AND PROPERLY SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING. PIPING PENETRATING FIRE RATED WALLS SHALL HAVE UL FIRE RATED CAULKING. SMOKE TIGHT FOR PIPING PENETRATION THRU SMOKE TIGHT WALL.
- ALL UNDERGROUND PIPE TO BE MINIMUM OF 2" CHARLOTTE PVC UNLESS OTHERWISE NOTED. PIPING SHALL NOT RUN THRU FOUNDATION OR FOOTERS WITH A LENGTH GREATER THAN 2 FEET. WITHIN THE FOOTER CONTRACTOR SHALL PROVIDE A PIPE SLEEVE THE LENGTH OF THE PENETRATION, 2 INCHES LARGER THAN THE PENETRATING PIPE. LASTLY, THE PIPE MUST BE ARMAFLEX INSULATED AND APPROVED BY LOCAL AHJ.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- PROVIDE ACCESS TO ALL CONCEALED EQUIPMENT AND VALVES. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT.
- ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, OR INDIRECT CONNECTIONS SHALL BE PROVIDED WITH TRAP PRIMER VALVE(S) EXTENDING TO NEAREST COLD WATER SUPPLY UNLESS SHOWN OTHERWISE.
- VENT STACK SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY HVAC UNIT.
- EXTEND SANITARY SEWER, DOMESTIC WATER, STORM, AND FIRE MAIN PIPING AS REQUIRED IN ORDER TO CONNECT TO STUB-OUT PROVIDED BY CIVIL.
- INSTALL STOPS IN SUPPLIES TO ALL FIXTURES.
- INSTALL SHUT-OFF VALVES AT ALL EQUIPMENT/FIXTURES.
- PROVIDE VENTS, CLEANOUTS, AND PLUMBING AS REQ'D BY STATE PLUMBING CODE.
- PIPING SHALL BE CONCEALED IN FINISHED AREAS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE STARTING WORK.
- ALL EQUIPMENT INSTALLED AS PER CERTIFIED SHOP DRAWING FROM MFR.
- PROVIDE ACCESS PANELS FOR CONCEALED VALVES AND OPEN SITE DRAINS.
- PROVIDE HYDRAULIC SHOCK ABSORBERS WHERE QUICK-CLOSING VALVES ARE UTILIZED AND AS OTHERWISE REQUIRED BY CODE.
- ROOF OPENINGS SHALL MEET ROOF BOND CANTS AND FLASHINGS BY ROOFING CONTRACTOR, ALL COLLARS ON VENTS, ETC. BY ROOFING CONTRACTOR.
- HOSE BIBBS & WALL HYDRANTS SHALL BE A MIN. OF 18" ABOVE FR. GRADE.
- ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS.
- BACK TO BACK FLUSH VALVE WATER CLOSETS TO BE INSTALLED USING A DOUBLE "Y" CONNECTION. SEE RISER
- PIPING MUST CONFORM TO LOCAL AND STATE SEISMIC CODES.
- C-CLAMPS ARE NOT TO BE USED WITHOUT A SEISMIC RETAINER STRAP ON ANY PROJECTS LOCATED WITHIN A SEISMIC ZONE.
- EXPOSED PIPING IN FINISHED SPACES SHALL BE PAINTED.
- NO PIPING SHALL BE RUN DIRECTLY OVER ANY ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR ETC. PROVIDE DRAIN PANS UNDER PIPES, IF NO OTHER ROUTING IS AVAILABLE.
- WHEN BRANCH LINE EXCEEDS 20FT IN LENGTH, AN ADDITIONAL WATER HAMMER ARRESTER SHOULD BE INSTALLED, USING BRANCH LINE PIPE SIZE, AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES. WATER HAMMER ARRESTER FOR A BRANCH SERVING A PIECE OF EQUIPMENT WITH A QUICK-CLOSING VALVE SHOULD BE PLACED AS CLOSE AS POSSIBLE TO THE EQUIPMENT ISOLATION VALVE.

PLUMBING FIXTURE SCHEDULE

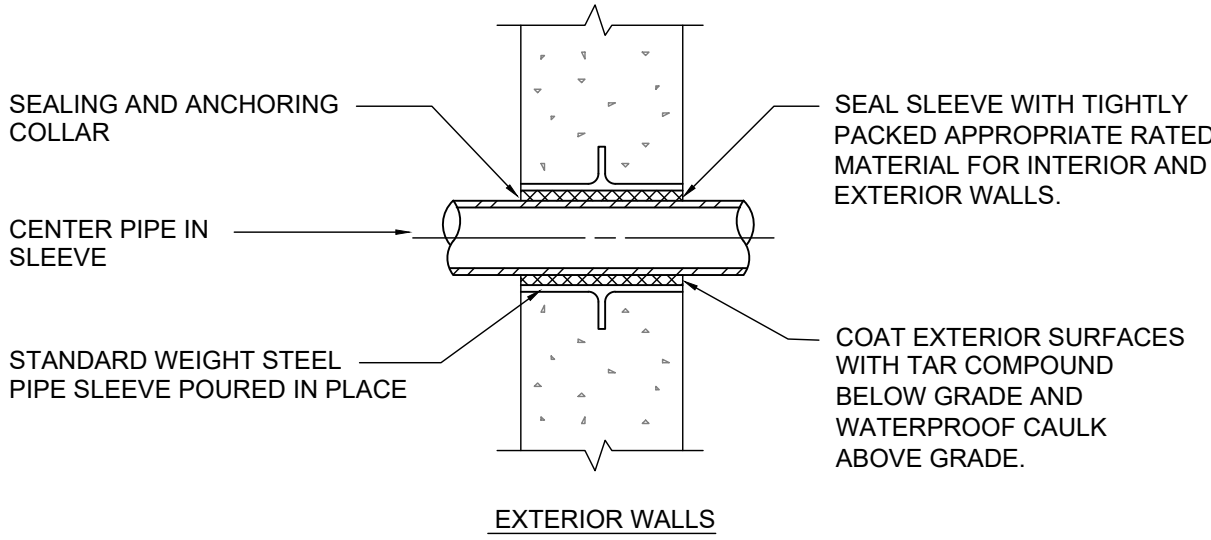
MARK	FIXTURE DESCRIPTION
(P-1) ADA	ADA AMERICAN STANDARD MODEL NUMBER 3461.576.020 FLOOR MOUNTED TOP SPUD 1.1-1.6 GPF TOILET, BATTERY POWERED AUTOMATIC FLUSH VALVE INCLUDED IN PACKAGE. PROVIDE OPEN FRONT TOILET SEAT TO MATCH EQUIPMENT. PROVIDE ALL ACCESSORIES FOR COMPLETE UNIT INSTALLATION.
(P-2)	AMERICAN STANDARD MODEL NUMBER 3451.578.020 FLOOR MOUNTED TOP SPUD 1.1-1.6 GPF TOILET, BATTERY POWERED AUTOMATIC FLUSH VALVE INCLUDED IN PACKAGE. PROVIDE OPEN FRONT TOILET SEAT TO MATCH EQUIPMENT. PROVIDE ALL ACCESSORIES FOR COMPLETE UNIT INSTALLATION.
(P-3) ADA	AMERICAN STANDARD TOP SPUD URINAL .50 GPF MODEL 6590.505.020. BATTERY AUTOMATIC FLUSH VALVE INCLUDED IN PACKAGE. PROVIDE ANY OTHER ACCESSORIES NEEDED FOR COMPLETE INSTALLATION.
(P-4) ADA	BRADLEY EXPRESS SERIES 3-STATION WALL MOUNT LAVATORY MODEL ELX-3 S53-3100 R.T.5.PC.BA.6-3100.SSD.R.L.T.PC.BA.ALP-WHT.BS.COAL.CW-CHROME. WITH SOAP DISPENSER OPTION. BATTERY POWERED FAUCET/SOAP. SUPPORT BRACKETS, P-TRAP, MIXING VALVE, STRAINER AND DRAIN ASSEMBLY COMES WITH MODEL. SEE CUT SHEETS FOR ADDITIONAL ITEMS INCLUDED. INSTALL BASED ON MANUFACTURERS RECOMMENDATIONS.
(P-5) ADA	BRADLEY EXPRESS ELX SERIES 2-STATION WALL MOUNT LAVATORY MODEL ELX-2 S53-3100 R.T.5.PC.BA.6-3100.SSD.R.L.T.PC.BA.ALP-WHT.BS.COAL.CW-CHROME. WITH SOAP DISPENSER OPTION. BATTERY POWERED FAUCET, SUPPORT BRACKETS, P-TRAP, MIXING VALVE, STRAINER AND DRAIN ASSEMBLY COMES WITH MODEL. SEE CUT SHEETS FOR ADDITIONAL ITEMS INCLUDED. INSTALL BASED ON MANUFACTURERS RECOMMENDATIONS.
C.O.	INTERIOR: TURN MODEL N1400-4NL EXTERIOR: TURN MODEL N1400-4NL WALL: TURN MODEL N1441
F.D.	FLOOR DRAIN TURN MODEL FD2210.
H.B.	HOSE BIB: TURN MODEL N1341

\*\*\* ACCEPTABLE MANUFACTURERS FOR PLUMBING FIXTURES IN ADDITION TO MANUFACTURERS ALREADY SPECIFIED IN SCHEDULE: TURN, KHOLER, ELKAY, WATTS, BRADLEY

PLUMBING ABBREVIATION LEGEND

NOTE: ALL ABBREVIATIONS MAY NOT APPLY

AFD	AREA FLOOR DRAIN	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	LB	POUND
AHJ	AUTHORITY HAVING JURISDICTION	MBH	THOUSAND BTU'S PER HOUR
ARCH	ARCHITECT	MFR	MANUFACTURER
BF	BOTTLE FILLER	MIN	MINIMUM
BFF	BELOW FINISH FLOOR	NG	NATURAL GAS
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BTU/H	BRITISH THERMAL UNIT / PER HOUR	NTS	NOT TO SCALE
CD	CONDENSATE DRAIN	OR	OPEN RECEPTACLE
CFM	CUBIC FEET PER MINUTE	PEX	CROSS-LINKED POLYETHYLENE
CO	CLEAN OUT	PK	PACKAGED UNIT
CPVC	CHLORINATED POLY VINYL CHLORIDE	PRV	PRESSURE REDUCING VALVE
CW	COLD WATER	PSI	PRESSURE PER SQUARE INCH
DF	DRINKING FOUNTAIN	PVC	POLY VINYL CHLORIDE
DN	DOWN	RTU	ROOF TOP UNIT
DTL	DETAIL	RPZ	REDUCED PRESSURE ZONE ASSEMBLY
DWVG	DRAWING	SAN. SEWER	SANITARY SEWER
ECO	EXTERIOR CLEAN OUT	SHW	SHOWER
EM	EMERGENCY	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SQ.FT	SQUARE FOOT
FD	FLOOR DRAIN	SQ.IN	SQUARE INCH
FS	FLOOR SINK	SS	STAINLESS STEEL / SAN. SEWER
FT HD	FEET OF HEAD	TD	TRENCH DRAIN
GC	GENERAL CONTRACTOR	TDH	TOTAL DYNAMIC HEAD
GPM	GALLONS PER MINUTE	TH	TUBE HEATER
HB	HOSE BIBB	TYP	TYPICAL
HD	HUB DRAIN	UH	UNIT HEATER
HP	HORSE POWER	UR	URINAL
HW	HOT WATER	V	VENT
HWR	HOT WATER RETURN	VTR	VENT THRU ROOF
HZ	HERTZ	W/	WITH
IU	INDOOR UNIT	WC	WATER CLOSET / WATER COLUMN
KW	KILOWATT	WCO	WALL CLEAN OUT
		WH	WALL HYDRANT



PIPE SLEEVE THRU WALL DETAIL

NOT TO SCALE

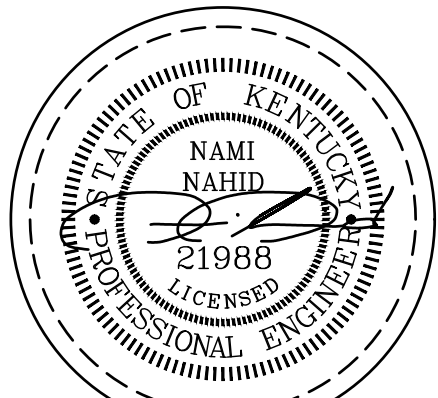
2 - PERSON STATION

3 - PERSON STATION

1

LAVATORY SYSTEM INSTALL DETAIL

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PLUMBING  
SCHEDULE DETAILS

P.01

PLUMBING