

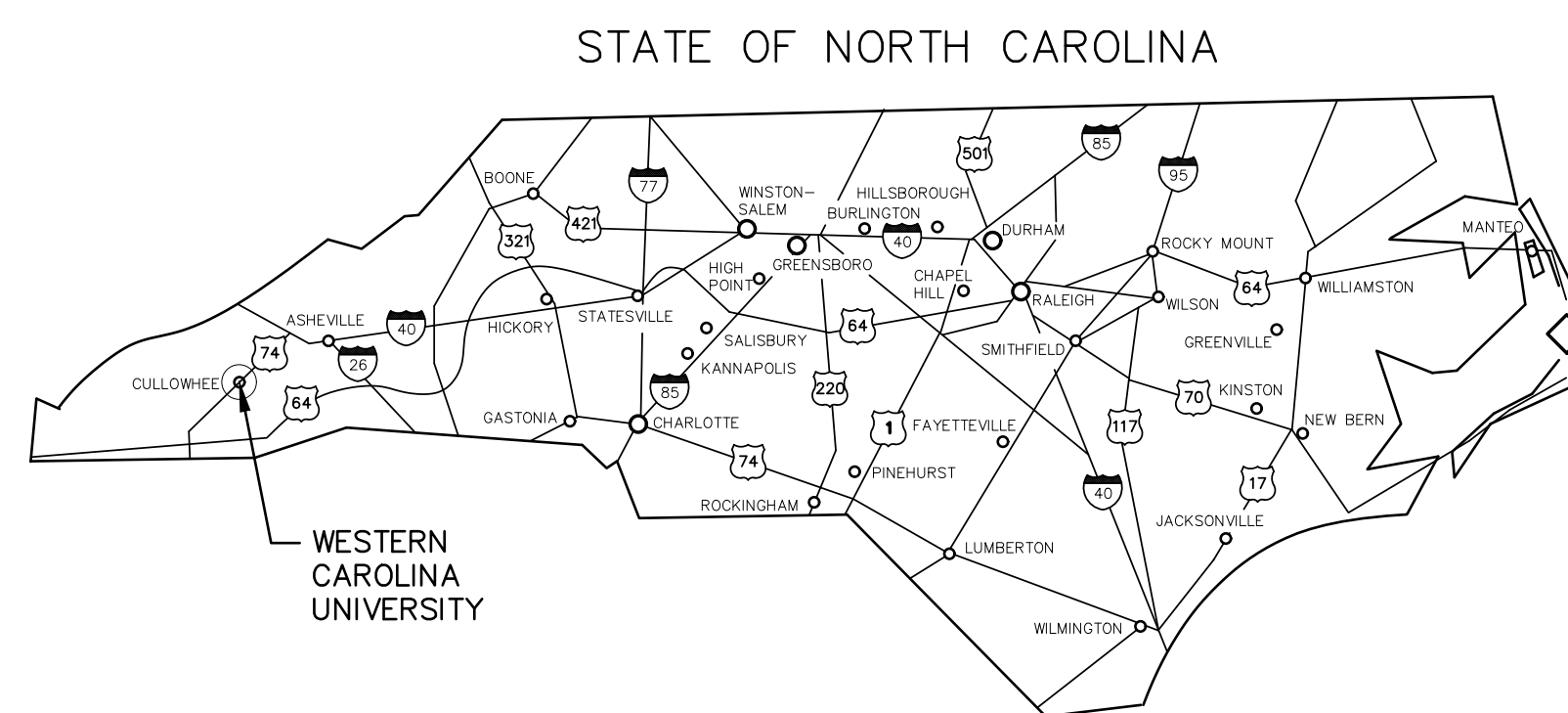


REID GYMNASIUM

REID 119 TOILET ROOM RENOVATION

194 MEMORIAL DR. CULLOWHEE, N.C. 28723

SCO ID # 23-26576-01A



AREA MAP

ARCHITECTURAL
JAVIER TORRES, AIA
UNIVERSITY ARCHITECT
WCU FACILITIES MANAGEMENT
3476 OLD CULLOWHEE ROAD
CULLOWHEE, NC 28723
828-227-7198

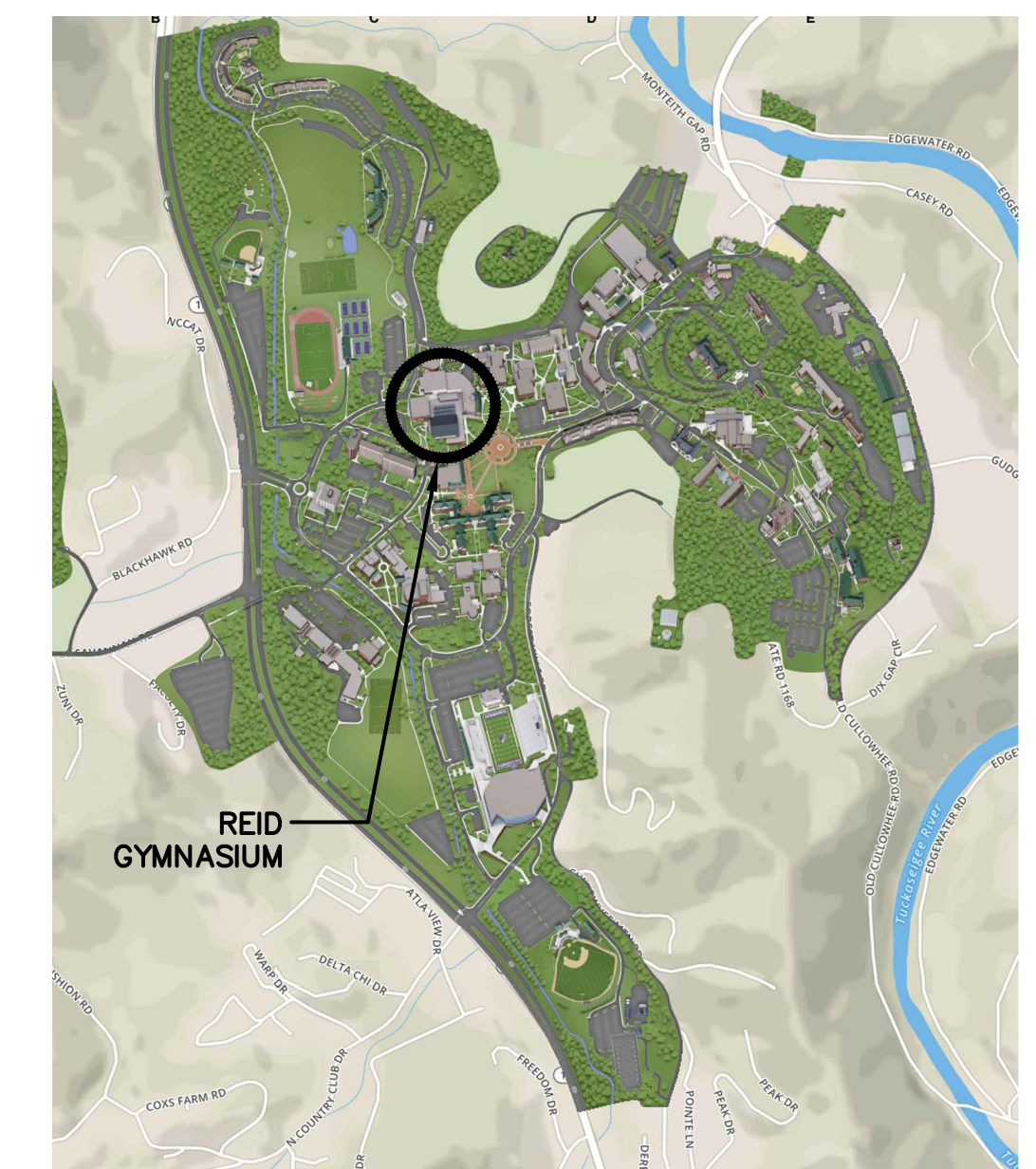
MECHANICAL / PLUMBING ENGINEER
SUD ASSOCIATES, P.A. CONSULTING ENGINEERS
90 SOUTHSIDE AVENUE, SUITE 350
ASHEVILLE, NC 28801
828-255-4691

ELECTRICAL ENGINEER
BURDETTE ENGINEERING, INC.
200 REGENT PARK COURT
GREENVILLE, SC 29607
864-297-8717



INDEX OF DRAWINGS

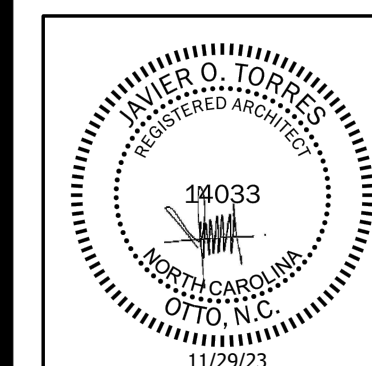
G001	COVER SHEET / INDEX OF DRAWINGS
G010	BUILDING CODE SUMMARY - APPENDIX B
A100	DEMOLITION PLAN, NEW FLOOR PLAN, REFLECTED CEILING PLAN, INTERIOR ELEVATIONS, DETAILS
M101	MECHANICAL - DEMOLITION & NEW PLAN
P100	PLUMBING - LEGEND, NOTES, SCHEDULE
P101	PLUMBING - DEMOLITION & NEW PLAN
E100	ELECTRICAL - DEMOLITION, NEW PLAN & SCHEDULE



CAMPUS MAP

WESTERN CAROLINA UNIVERSITY
CULLOWHEE, NORTH CAROLINA

REID GYMNASIUM
REID 119 TOILET ROOM RENOVATION
SCO ID #: 23-26576-01A
WCU #: 2023-008



DATE: 11/29/23
SCALE: AS NOTED
DRAWN BY: JT

REVISIONS:

N°	Date	Description

DRAWING NUMBER: G001

COVER SHEET

CONSTRUCTION SET - 11/29/23

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: **WCU REID GYMNASIUM - REID 119 TOILET ROOM RENOVATION**
Address: **194 MEMORIAL DRIVE, CULLOWHEE, NC** Zip Code: **28723**
Owner/Authorized Agent: **JAVIER TORRES, AIA** Phone # (**828**) **227-2345** E-Mail: **jtorres@wcu.edu**
Owned By: ☐ City/County ☐ Private ☒ State
Code Enforcement Jurisdiction: ☐ City/County ☐ County ☒ State

CONTACT:
DESIGNER: FIRM: **WCU Facilities Mgt.** NAME: **Javier O. Torres, AIA** LICENSE # **14033** TELEPHONE # **(828) 227-2345** E-MAIL: **jtorres@wcu.edu**
Architectural: **Burdette Eng. Inc.** **Donald J. Burdette, P.E.** **12042** **(864) 287-8717** **Bel@BurdetteEngr.com**
Civil: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
Electrical: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
Fire Alarm: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
Plumbing: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
Mechanical: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
Sprinkler-Standpipe: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
Structural: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
Retaining Walls >5' High: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
Other: **Sud Associates, P.A.** **Jerome C. Hay, P.E.** **16486** **(828) 225-4681** **jhay@sudassociates.com**
(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☒ Renovation
☐ Time Interim Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core-Contact the local inspection jurisdiction for possible additional procedures and requirements
2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☒ Level I ☐ Level II ☐ Level III ☐ Change of Use
☐ Historic Property
CONSTRUCTED: (date) **1968** CURRENT OCCUPANCY(S) (Ch. 3): **ASSEMBLY (A-3) / BUSINESS**
RENOVATED: (date) **2020** PROPOSED OCCUPANCY(S) (Ch. 3): **ASSEMBLY (A-3) / BUSINESS**
RISK CATEGORY (Table 1604.5): Current: ☐ I ☐ II ☒ III ☐ IV
Proposed: ☐ I ☐ II ☒ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☒ I-B ☐ II-B ☐ III-B ☐ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes ☐ Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes ☐ Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

2018 NC Administrative Code and Policies Revised 6/15/2020

Gross Building Area Table				
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	ALTERATION AREA (SQ FT)	SUB-TOTAL
3 rd Floor	0	N/A	N/A	0
2 nd Floor	13,827	N/A	N/A	13,827
Mezzanine	0	N/A	N/A	0
1 st Floor	74,772	N/A	58	74,772
Basement	4,235	N/A	N/A	4,235
TOTAL	92,844	N/A	N/A	92,844

ALLOWABLE AREA
Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
Business ☒
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ I ☐ 2
☐ I-2 Condition ☐ I ☐ 2
☐ I-3 Condition ☐ I ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐
Accessory Occupancy Classification(s):
Incidental Uses (Table 509):
Special Uses (Chapter 4 - List Code Sections):
Special Provisions: (Chapter 5 - List Code Sections):
Mixed Occupancy: ☐ No ☒ Yes Separation: **N/A** Hr. Exception:
☒ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \dots \leq 1.00$$

2018 NC Administrative Code and Policies Revised 6/15/2020

FIRE PROTECTION REQUIREMENTS									
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D (R)	RATING (W/ REDUCTIONS)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY		SHEET # FOR RATED JOINTS		SHEET # FOR RATED JOINTS
					EXISTING	NEW	EXISTING	NEW	
Structural Frame, including columns, girders, trusses		2	2 & 3	-	-	-	N708	X528	-
Bearing Walls									
Exterior									
North	X > 30 FT	2	3				U209	-	-
East	X > 30 FT	2	3				U209	-	-
West	X > 30 FT	2	3				U209	-	-
South	X > 30 FT	2	3				U209	-	-
Interior		2	N/A	-	-	-	-	-	-
Nonbearing Walls and Partitions									
Exterior walls									
North	X > 30 FT	0	NC	0	-	-	-	-	-
East	X > 30 FT	0	NC	0	-	-	-	-	-
West	X > 30 FT	0	NC	0	-	-	-	-	-
South	X > 30 FT	0	NC	0	-	-	-	-	-
Interior walls and partitions									
Floor Construction including supporting beams and joists		2	2	-	-	-	D216	N708	-
Floor Ceiling Assembly		2	2	-	-	-	-	-	-
Column Supporting Floors		2	2	-	-	-	-	-	-
Roof Construction, including supporting beams and joists		1	1	1	-	-	P207, P717	P225	-
Roof Ceiling Assembly		1	1	1	-	-	-	EX	-
Column Supporting Roof		1	1	EX	-	-	-	-	-
Shaft Enclosures - Exit		2	2	-	-	-	U906	-	-
Shaft Enclosures - Other		1	1	1	-	-	-	-	-
Corridor Separators		1	1	1	-	-	SHALING, U906	-	-
Occupancy/Fire Barrier Separation		N/A	-	-	-	-	-	-	-
Party/Fire Wall Separation		N/A	-	-	-	-	-	-	-
Smoke Barrier Separation		N/A	-	-	-	-	-	-	-
Smoke Partition		N/A	-	-	-	-	-	-	-
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A	-	-	-	-	-	-	-
Incidental Use Separation		N/A	-	-	-	-	-	-	-

* Indicate section number permitting reduction

2018 NC Administrative Code and Policies Revised 6/15/2020

ACCESSIBLE DWELLING UNITS (SECTION 1107)									
UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED	
NOT APPLICABLE									

ACCESSIBLE PARKING (SECTION 1106)				
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	90" SPACES	132" SPACES
NOT APPLICABLE - NO CHANGE				
TOTAL				

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)									
USE	WATER CLOSETS			URINALS			LAVATORIES		SHOWERS
	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	MALE	FEMALE	
EXIST'G	NOT APPLICABLE - NO CHANGE								
NEW REQ'D									

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

2018 NC Administrative Code and Policies Revised 6/15/2020

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)
DESIGN LOADS: **NOT APPLICABLE - NO CHANGE**
Importance Factors: Snow ☐ (I_s) ☐ Seismic ☐ (I_s) ☐
Live Loads: Roof ☐ psf
Mezzanine ☐ psf
Floor ☐ psf
Ground Snow Load: ☐ psf
Wind Load: Ultimate Wind Speed ☐ mph (ASCE-7)
Exposure Category ☐
SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration ☐ S_s ☐ %
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system ☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☐ No
LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) ☐ psf
Presumptive Bearing capacity ☐ psf
Pile size, type, and capacity ☐

2018 NC Administrative Code and Policies Revised 6/15/2020

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)
ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
Lighting schedule (each fixture type) **NOT APPLICABLE - NO CHANGE**
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed
Additional Efficiency Package Options
(When using the 2018 NEC/C; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies Revised 6/15/2020

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone **NOT APPLICABLE - NO CHANGE**
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____
Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____
Building heating load: _____
Building cooling load: _____
Mechanical Spacing Conditioning System
Unitary description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category, If oversized, state reason: _____
Chiller
Size category, If oversized, state reason: _____
List equipment efficiencies: _____

WESTERN CAROLINA UNIVERSITY
CULLOWHEE, NORTH CAROLINA

REID GYMNASIUM
REID 119 TOILET ROOM RENOVATION
SCO ID #: 23-26576-01A
WCU #: 2023-008



DATE: 11/29/23
SCALE: AS NOTED
DRAWN BY: JT
REVISIONS:

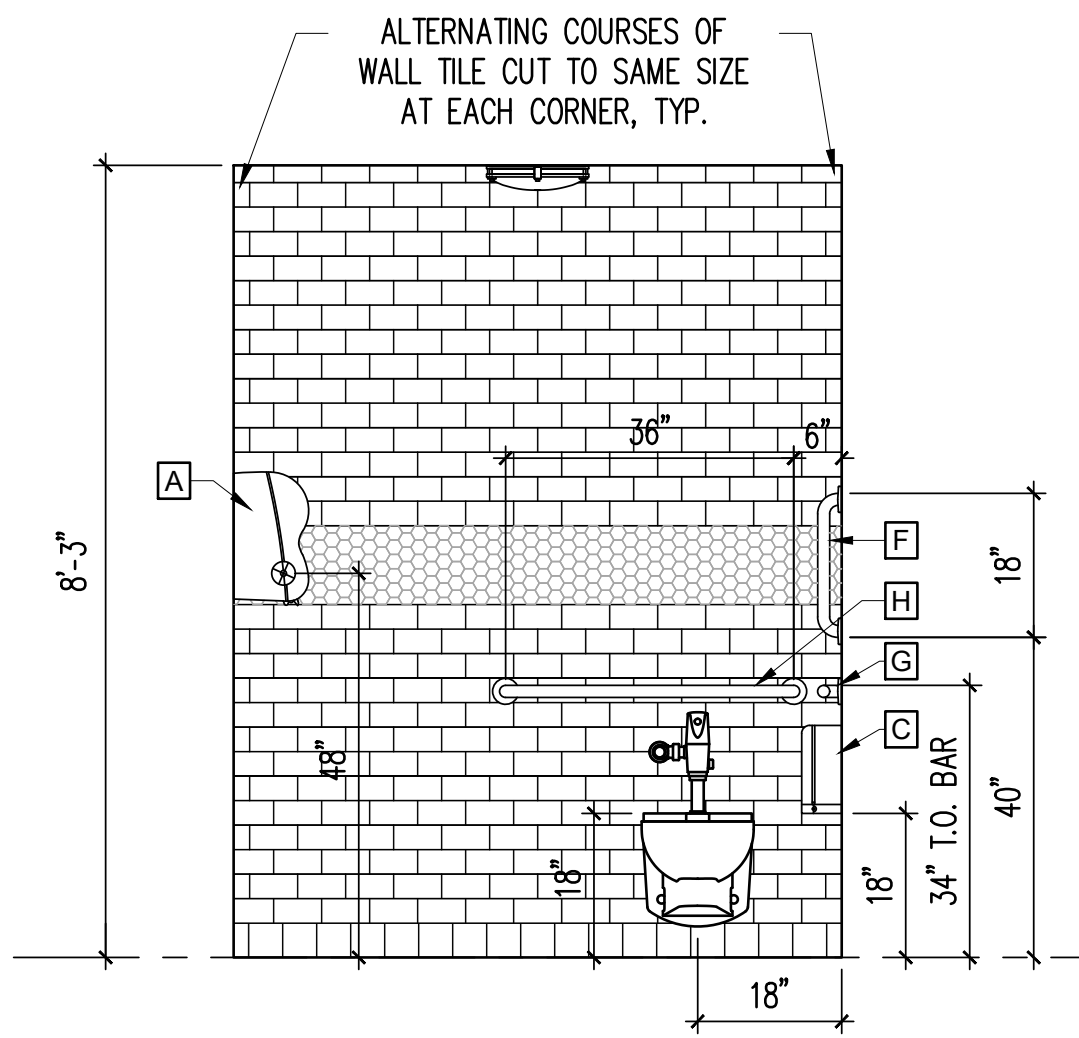
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DRAWING NUMBER: G010
BUILDING CODE SUMMARY – APPX. B

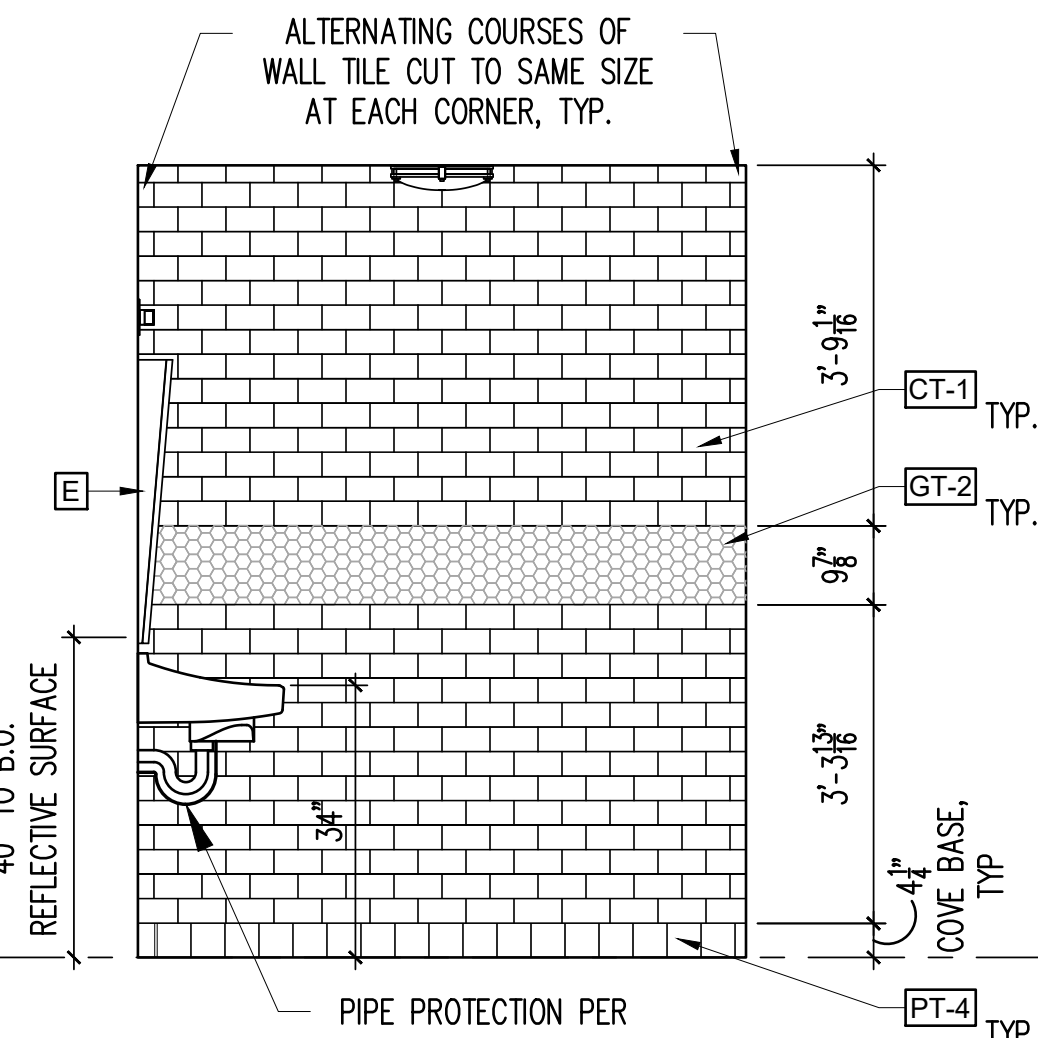
CONSTRUCTION SET - 11/29/23

INTERIOR FINISH LEGEND				
CATEGORY	MARK	MATERIAL	MANUFACTURER	PRODUCT - COLOR
CEILING	M-1	GYP BOARD	TBD	DRYWALL PRE-EXISTING- MATCH PROPERTIES
	PT-1	PAINT	SHERWIN WILLIAMS	SIMPLE WHITE- SW7021
TILING	GROUT-1	GROUT (USE WITH TILE GT-2)	CUSTOM BUILDING SOLUTIONS	#643-WARM GRAY
	GROUT-2	GROUT (USE WITH TILE PT-3, PT-4)	CUSTOM BUILDING SOLUTIONS	#165-DELOREAN GRAY
	CT-1	GLAZED CERAMIC TILE (WALL)	DALTILE	COLOR WHEEL COLOR: ARCTIC WHITE SIZE: 3" X 6"
	GT-2	GLASS TILE (WALL DETAIL)	MSI	HEXAGON RECYCLED GLASS TILE COLOR: STONELLA
	PT-3	PORCELAIN TILE (FLOOR)	DALTILE	SOCIETY COLOR: UNION SMOKE (MATTE) SIZE: 12" X 24"
	PT-4	PORCELAIN TILE (TRIM)	DALTILE	SOCIETY COLOR: UNION SMOKE (MATTE) SIZE: 6" X 12" COVE BASE

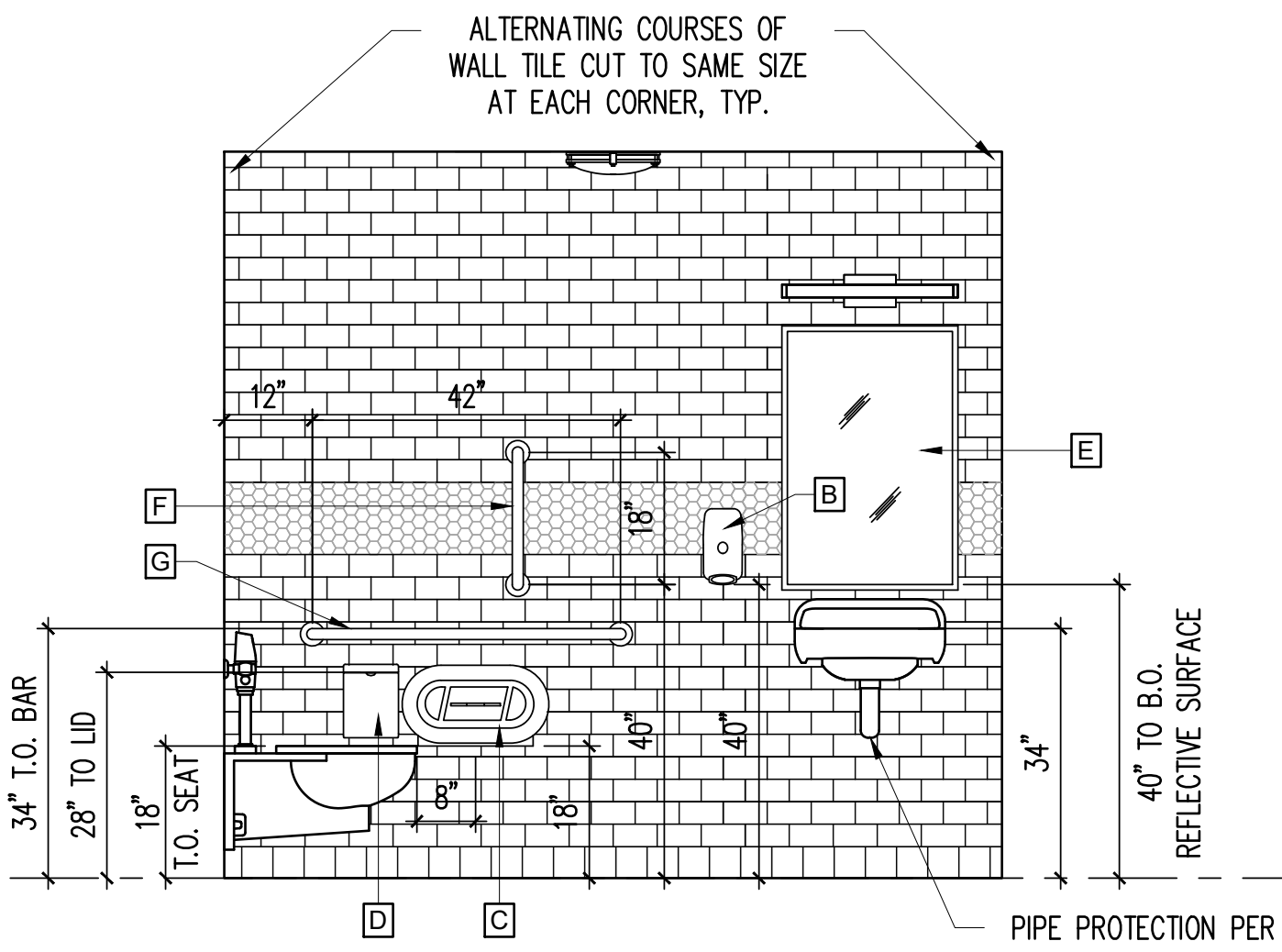
TOILET ACCESSORIES SCHEDULE					
MARK	DESCRIPTION	MOUNTING HEIGHT	MATERIAL	MANUFACTURER	PRODUCT - COLOR
TOILET ACCESSORIES					
A	PAPER TOWEL DISPENSER	REFER TO ELEVATIONS	BREAK AND CHEMICAL RESISTANT PLASTIC	PERRINCRRAFT SYSTEMS (1)	TRANS. SMOKE COVER; BLACK BACK 16.6" X 12.6" X 9.3" ITEM #: HF108
B	SOAP DISPENSER	REFER TO ELEVATIONS	BREAK RESISTANT PLASTIC	DAANSEN (1)	WHITE 501401 SIZE: 10.33" X 5.38" X 3.84" 1000ML FOAMER- CLEAN LINE DESIGN
C	TOILET TISSUE DISPENSER	REFER TO ELEVATIONS	IMPACT RESISTANT PLASTIC	CLEAN TECH PRODUCTS (1)	TWIN JRT TOILET TISSUE DISPENSER- BLACK 11.5" X 20" X 5" ITEM #: 18838
D	SANITARY NAPKIN DISPOSAL	REFER TO ELEVATIONS	STAINLESS STEEL	BOBRICK (2)	TYPE 304 STAINLESS STEEL 10" X 7 1/2" X 3 13/16" ITEM #: B270
E	MIRROR (24" X 36")	REFER TO ELEVATIONS	REFLECTIVE GLASS	BOBRICK (2)	TILT MIRROR STAINLESS STEEL 24" X 36" ITEM# B-293 2436
F	18" L x 1-1/2" O.D. VERTICAL GRAB BAR	REFER TO ELEVATIONS	TYPE 304 SST, SATIN FINISH, PEENED SURFACE	AMERICAN SPECIALTIES (2)	MODEL # 3801-18P
G	42" L x 1-1/2" O.D. HORIZONTAL GRAB BAR	REFER TO ELEVATIONS	TYPE 304 SST, SATIN FINISH, PEENED SURFACE	AMERICAN SPECIALTIES (2)	MODEL # 3801-42P
H	36" L x 1-1/2" O.D. HORIZONTAL GRAB BAR	REFER TO ELEVATIONS	TYPE 304 SST, SATIN FINISH, PEENED SURFACE	AMERICAN SPECIALTIES (2)	MODEL # 3801-36P



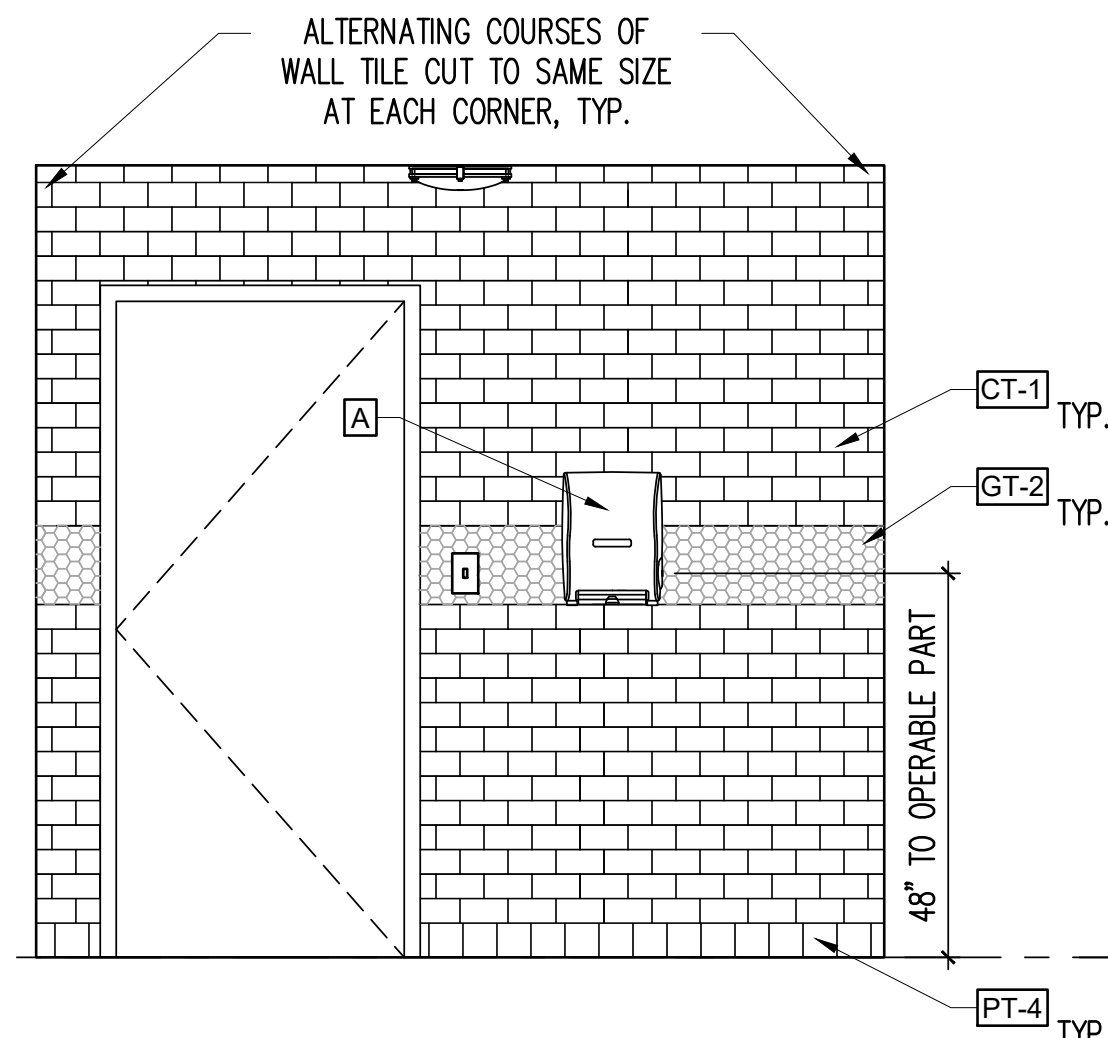
5 North Elevation
1/2" = 1'-0"



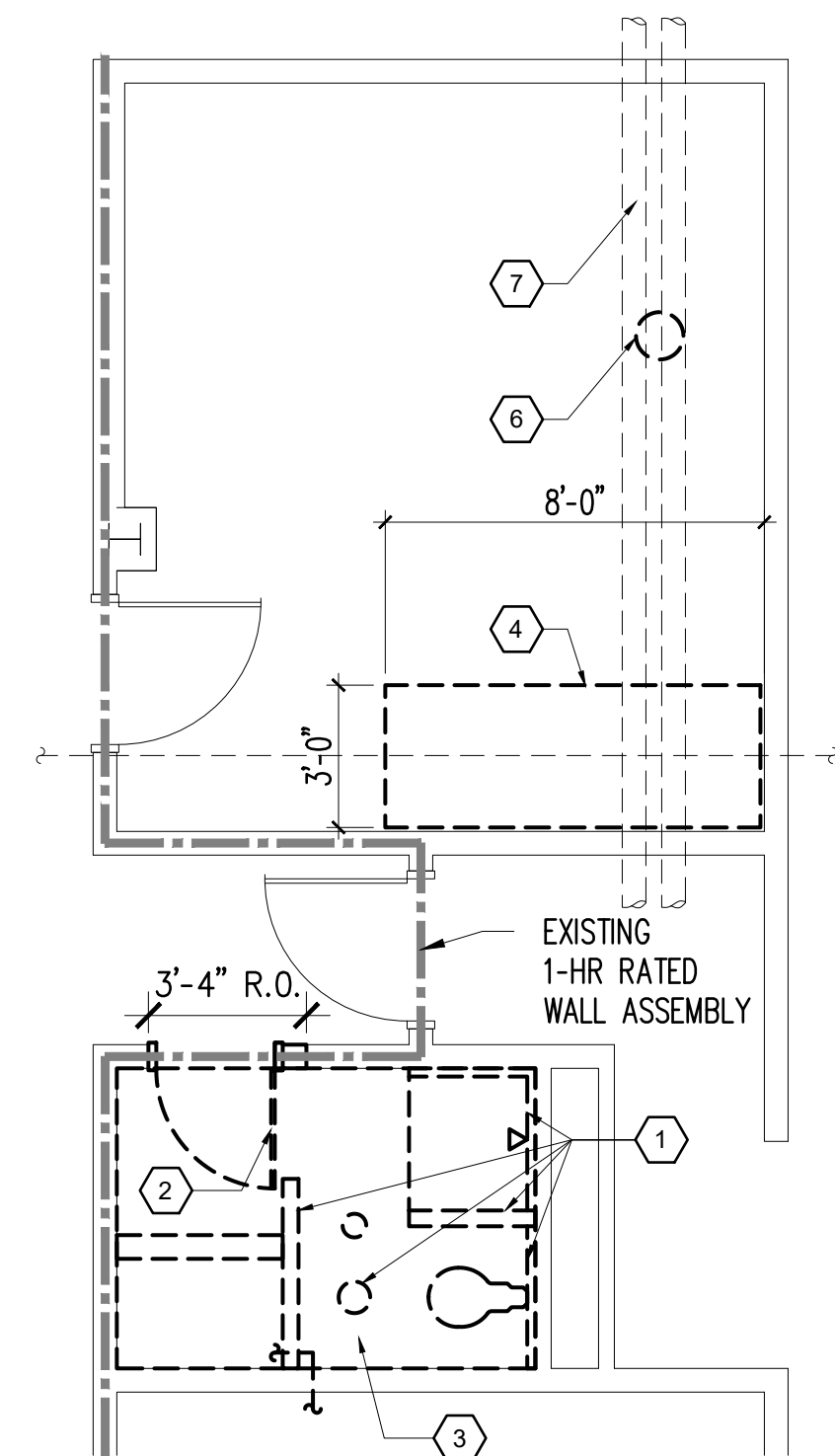
6 South Elevation
1/2" = 1'-0"



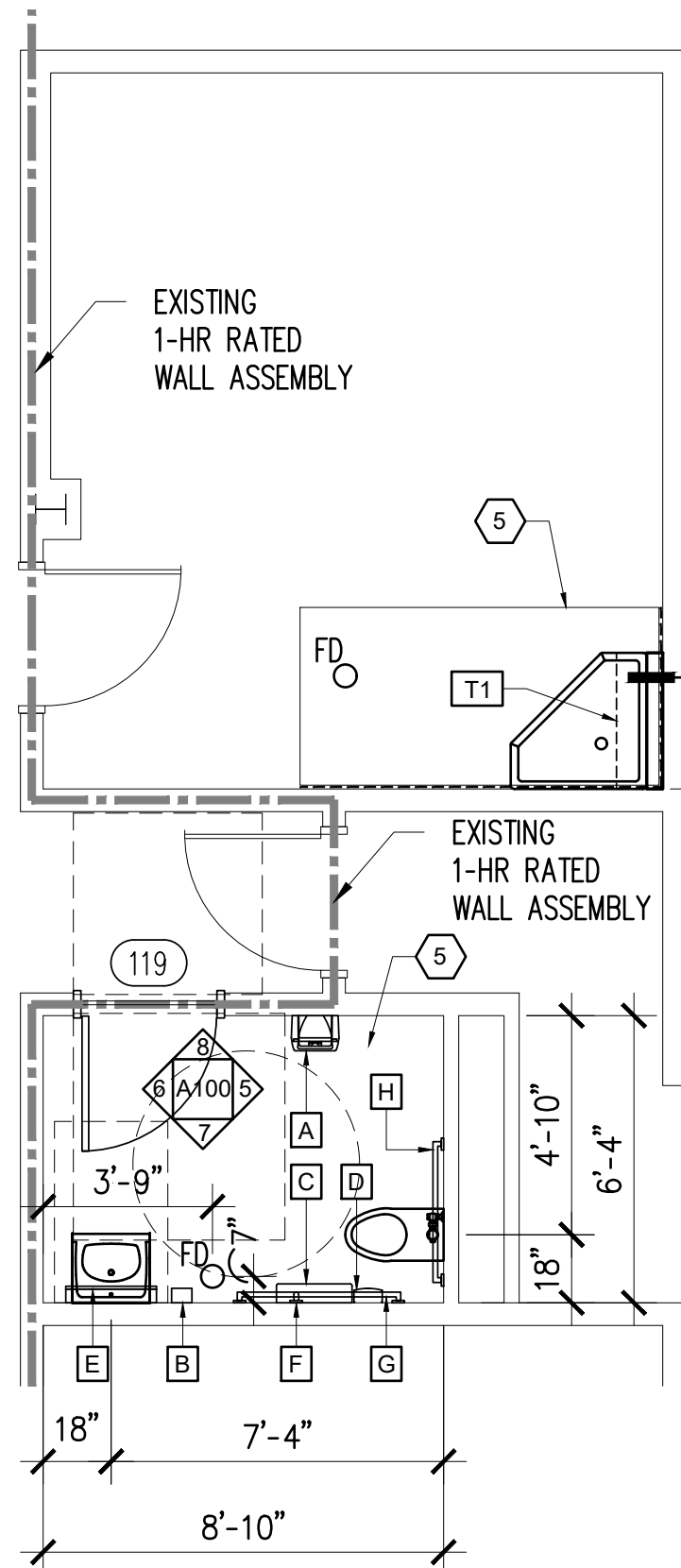
7 East Elevation
1/2" = 1'-0"



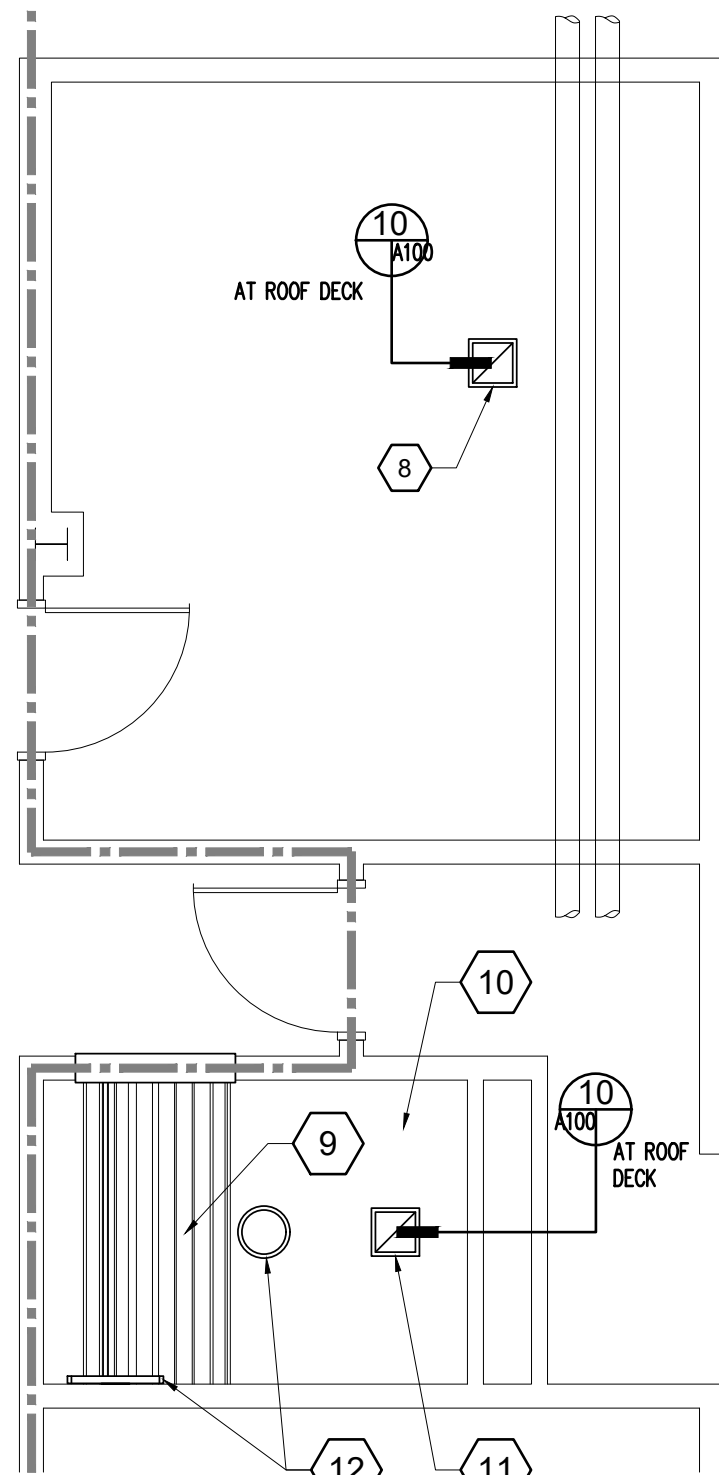
8 West Elevation
1/2" = 1'-0"



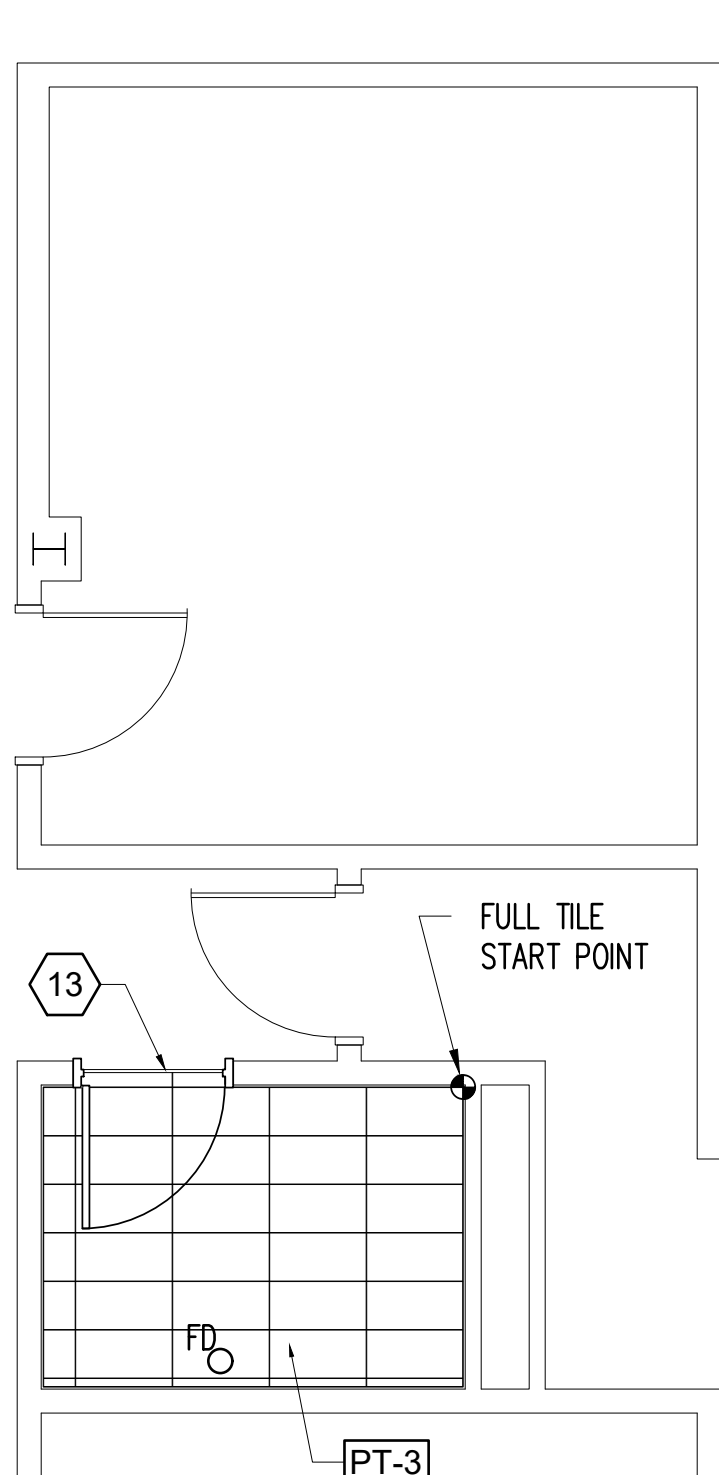
1 Demolition Plan
1/4" = 1'-0"



2 New Floor Plan
1/4" = 1'-0"



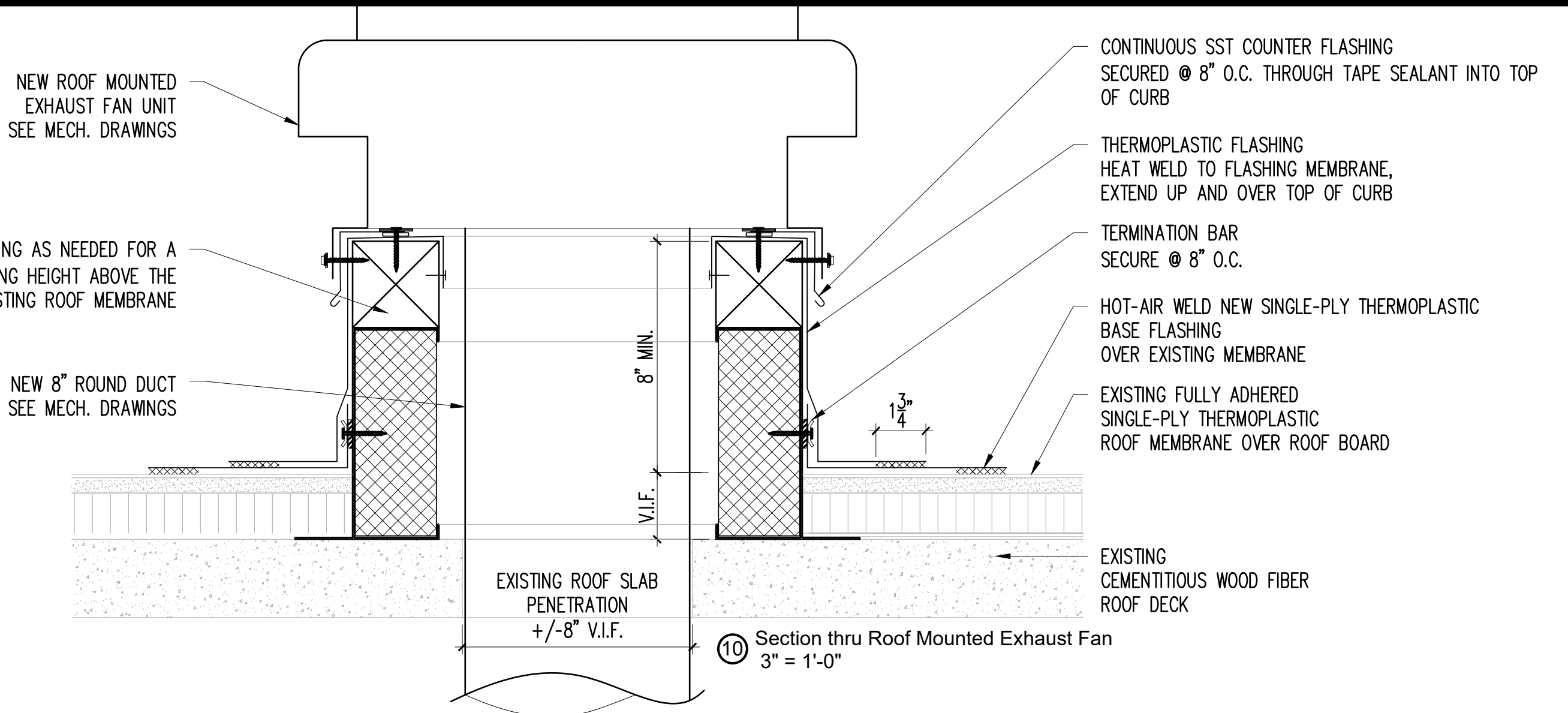
3 New Reflected Ceiling
Plan
1/4" = 1'-0"



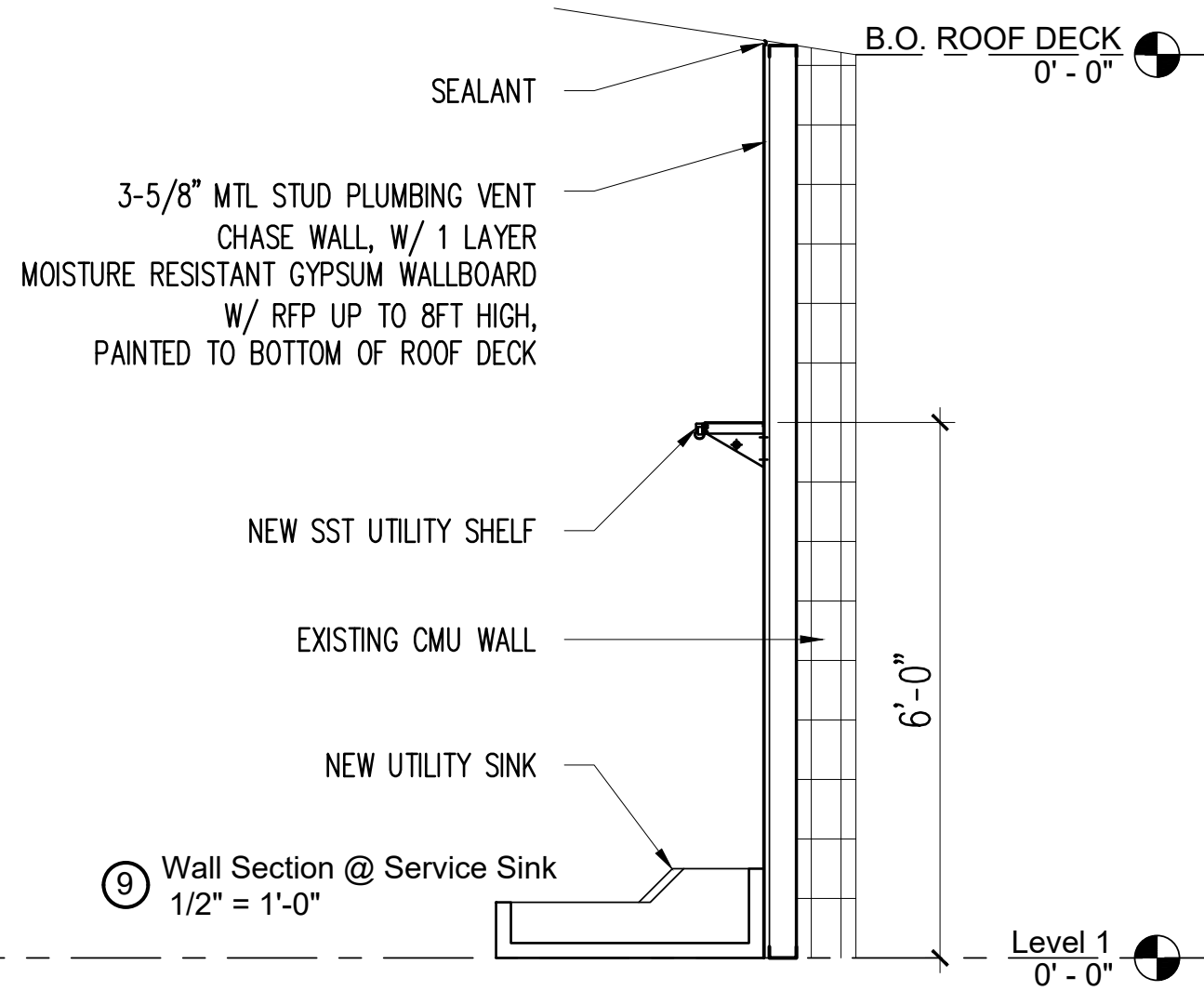
4 Finish Plan
1/4" = 1'-0"

KEYED NOTES

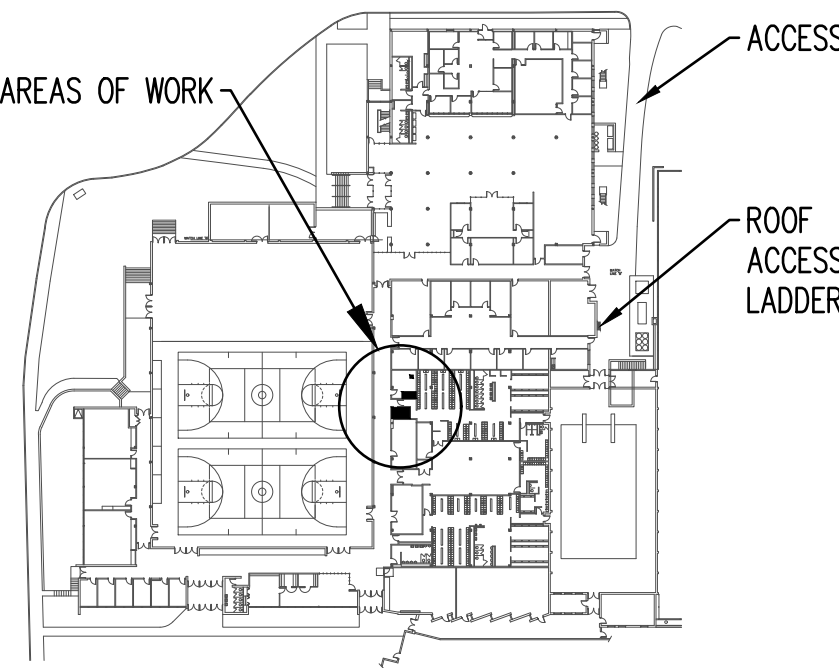
- REMOVE CONCRETE FLOOR SLAB, INTERIOR 80" HIGH CMU WALLS, MOP SINKS, SHOWER, WALL AND FLOOR TILE, EXHAUST FAN AND LIGHTING FIXTURE. REFER TO MPE DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION, INCLUDING DEMOLITION OF EXISTING PORTIONS OF EXISTING CMU WALLS TO REMOVE AND INSTALL NEW PLUMBING WORK.
- REMOVE EXISTING DOOR, HARDWARE AND FRAME. INCREASE 8" CMU WALL OPENING TO ACCEPT NEW 3'-0" x 7'-0" 20-MINUTE FIRE RATED DOOR AND FRAME AS REQUIRED FOR DOORS IN 1-HR RATED CORRIDOR WALLS PER NBCB TABLE 716.5
- REMOVE EXISTING CONCRETE FLOOR SLAB IN TOILET ROOM TO REMOVE EXISTING AND INSTALL NEW UNDERSLAB PLUMBING WORK. REFER TO SHEET P101 FOR SYSTEMS' DEMOLITION.
- TRENCH EXISTING CONCRETE FLOOR SLAB TO CONNECT NEW MOP SINK AND FLOOR DRAIN TO EXISTING UNDERGROUND WASTE LINE. CUT-OUT DIMENSIONS SHOWN ARE APPROXIMATE.
- MIN. 3,500psi, 4-IN THICK CONCRETE SLAB INFILL OVER MIN. 10ML VAPOR BARRIER REINFORCED W/ 6x6-W2.9 x W2.9 WELDED WIRE MESH SUPPORTED IN CENTER OF SLAB WITH REINF. CHAIRS. DOWEL AND EPOXY INTO EXISTING SLAB EDGE WITH 12" L #5 BARS @ 12" O.C. INSTALL 1/2" THICK COMPRESSIBLE FILLER STRIP W/ 1/2" TEAR-AWAY STRIP AT PERIMETER (EXCEPT IN TOILET ROOM), FILL RECESS WITH POLYURETHANE SEALANT. CONCRETE FINISH: SMOOTH, POLISHED TO MATCH EXISTING.
- REMOVE EXISTING EXHAUST GRILLE AND DUCT LOCATED ABOVE CHILLER PIPES ON SLOPING PLASTER CEILING. PATCH, REPAIR AND PAINT SECTION OF PLASTER CEILING REPAIR.
- EXISTING OVERHEAD CHILLED WATER LINES TO REMAIN, PROTECT.
- NEW EXHAUST GRILLE AND DUCT CONNECTED TO NEW ROOF-MOUNTED HVAC EXHAUST FAN THRU EXISTING ROOF PENETRATION. OFFSET AT CEILING TO AVOID EXISTING CHILLED WATER PIPES. SEE MPE DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING OVERHEAD PIPES TO REMAIN. CLEAN, REPAIR/REPLACE INSULATION JACKETS, PAINT ALL SURFACES.
- PATCH, REPAIR AND PAINT ENTIRE EXISTING PLASTER CEILING.
- NEW EXHAUST GRILLE AND DUCTWORK, CONNECTED TO NEW ROOF-MOUNTED HVAC EXHAUST FAN THRU EXISTING ROOF PENETRATION. SEE MECH. DWG'S
- NEW SURFACE MOUNTED LIGHTING FIXTURES - SEE ELECTRICAL DRAWINGS
- STAINLESS STEEL 304 FLOORING TRANSITION STRIP, TYPICAL OF 'SCHLUTER RENO-U' ITEM No. EU110 (7/16" HIGH x 49/64" DEEP x DOOR STOP WIDTH) OR EQUAL. PRODUCT INSTALLED MUST PROVIDE AN ADA-COMPLIANT TRANSITION.



10 Section thru Roof Mounted Exhaust Fan
3" = 1'-0"



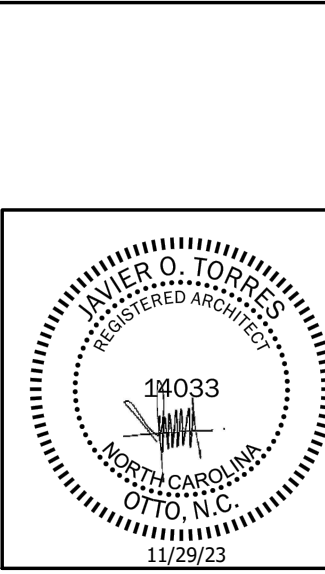
9 Wall Section @ Service Sink
1/2" = 1'-0"



KEY PLAN

WESTERN CAROLINA UNIVERSITY
CULLOWHEE, NORTH CAROLINA


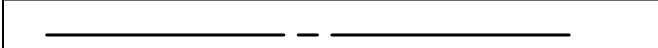

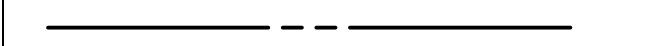
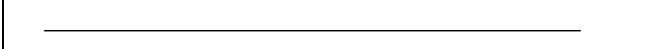
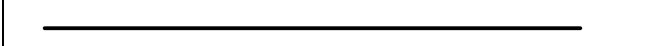
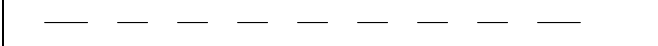
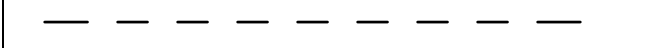
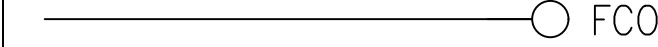



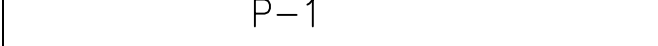
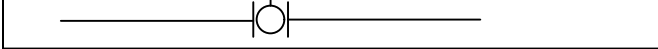

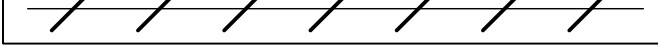
REID GYMNASIUM
REID 119 TOILET ROOM RENOVATION
SCO ID #: 23-26576-01A
WCU #: 2023-008



DATE: 11/29/23		
SCALE: AS NOTED		
DRAWN BY: JT		
REVISIONS:		
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DRAWING NUMBER:		A100

DEMO, NEW PLAN, RCP, ELEVATIONS

CONSTRUCTION SET - 11/29/23

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	EXISTING COLD WATER
	NEW COLD WATER
	EXISTING HOT WATER
	NEW HOT WATER
	EXISTING SANITARY WASTE
	NEW SANITARY WASTE
	EXISTING VENT
	NEW VENT
 FCO	FLOOR CLEAN-OUT
	SHOCK ABSORBER
	CONNECTION POINT FROM EXISTING TO NEW
 HB	HOSE BIBB
 P-1	FIXTURE IDENTIFICATION(SEE SPECIFICATIONS)
	BALL VALVE
 FD	FLOOR DRAIN
	ITEMS TO BE DEMOLISHED

PLUMBING FIXTURE SCHEDULE										
MARK	MANU. *	MODEL *	FIXTURE TYPE	MOUNTING	COLOR	DESCRIPTION	FIXTURE CONNECTION SIZES			
							CW	HW	WASTE	VENT
P-1	FIAT	TSBC1612	MOP BASIN	FLOOR	TERRAZZO	36" X 36" X 12" HIGH PRECAST TERRAZZO CORNER MOP BASIN, STAINLESS STEEL THRESHOLD CURB CAP, (2) 36" HIGH STAINLESS STEEL SPLASH GAURDS, INTEGRAL 3" CAST DRAIN				
	AMERICAN STANDARD	8344	FAUCET	WALL @ 32" AFF	CHROME	WALL MOUNT PROVIDE WALL BRACE, MINIMUM 4" SPOUT, HEAVY DUTY CAST BRASS, VACUUM BREAKER, HOSE THREADED OUTLET, PAIL HOOD, INTEGRAL STOPS IN SHANK, LEVEL HANDLES,	3/4"	3/4"	3"	2"
P-2	AMERICAN STANDARD	2294.011EC	WATER CLOSET	FLOOR, RIM @ 16.25"	WHITE	WALL MOUNT, BACK OUTLET, ELONGATED BOWL, VITREOUS CHINA, SIPHON JET ACTION, FULLY GLAZED TRAPWAY, CENTER INLET 1-1/2" TOP SPUD, HARD PLASTIC TOILET SEAT, ZURN CARRIER Z1202-1N_4, FOR SINGLE TOILET, ADA/NC ACCESSIBILITY CODE COMPLIANT. FURNISHED BY OWNER.				
	SLOAN	111-1.28	FLUSH VALVE	TOP SPUD	CHROME	EXPOSED MANUAL FLUSH VALVE, 1.28 GPF, DIAPHRAGM TYPE, BACK PRESSURE VACUUM BREAKER, NON HOLD OPEN HANDLE, ADA/NC ACCESSIBILITY CODE COMPLIANCE. FURNISHED BY OWNER.	1"	---	3"	2"
P-3	AMERICAN STANDARD	0356.421	LAVATORY	WALL @ 34" AFF	WHITE	15 x 10 x 6.5 RECTANGULAR BOWL, VITREOUS CHINA, FRONT OVERFLOW DRAIN, SELF DRAINING DECK WITH BACKSPLASH, 1-1/4" BRASS P-TRAP WITH CO PLUG, GRID DRAIN, INSULATED PIPE KIT. D, SINGLE HOLE PUNCH, ADA/NC ACCESSIBILITY CODE COMPLIANCE. FURNISHED BY OWNER.				
	KOHLER	K-97283-4	LAVATORY FAUCET	DECK	CHROME	DECK MOUNTED, SINGLE HANDLE, HEAVY DUTY CAST BRASS, SINGLE HOLE MOUNTING, 1-1/4" BRASS P-TRAP WITH CO PLUG, GRID DRAIN, INSULATED PIPE KIT, 0.5 GPM, ADA/NC ACCESSIBILITY CODE COMPLIANCE. FURNISHED BY OWNER.	1/2"	1/2"	1-1/4"	2"
FD	ZURN	Z-1726	FLOOR DRAIN	FLOOR	STAINLESS STEEL	5" DIAMETER STRAINER FLOOR DRAIN WITH ADJUSTABLE TOP. FIELD VERIFY REQUIRED CONNECTION SIZE WITH EXISTING WASTE PIPING SIZES.	---	---	3"	---
P-2 & P-3 ARE FURNISHED BY OWNER. PC TO INSTALL. PROVIDE ALL ACCESSORIES REQUIRED FOR FIXTURE TO FUNCTION PROPERLY. * BASIS OF DESIGN, EQUALS BY KOHLER, TOTO, T&S BRASS, CHICAGO, ZURN, WATTS, JUST, ACORN AND WILLOUGHBY.										

PLUMBING SPECIFICATIONS:

INTENT: THESE OUTLINE SPECIFICATIONS AND ACCOMPANYING DRAWINGS DESCRIBE SCOPE OF WORK REQUIRED FOR PLUMBING WORK. LABOR AND MATERIAL SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE, WORKMANLIKE INSTALLATION OF ALL WORK SHOWN ON DIAGRAMMATIC DRAWINGS AND/OR AS SPECIFIED HEREIN.

CODES, PERMITS, AND INSPECTIONS: ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES AND NFPA REQUIREMENTS. OBTAIN ALL PERMITS REQUIRED, GIVE ALL LEGAL NOTICES, AND HAVE ALL WORK INSPECTED AS REQUIRED BY LOCAL OR STATE LAW.

WORKMANSHIP: COMPETENT SKILLFUL WORKMEN SHALL DO ALL WORK IN A FINISHED, THOROUGHLY SUBSTANTIAL AND CRAFTSMANLIKE MANNER. THIS IS INTENDED TO REFER PARTICULARLY TO SMALLER DETAILS NECESSARY BUT USUALLY NOT SPECIFIED OR INDICATED ON THE DRAWINGS. ALL SUB-STANDARD WORK, INSTALLED BY THIS CONTRACTOR, SHALL BE REPLACED BY THIS CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. IF THIS CONTRACTOR DAMAGES EXISTING WORK, HE SHALL PAY THE COST OF REPLACEMENT OF THE DAMAGED WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. ENGINEER SHALL BE THE JUDGE OF WORKMANSHIP AND HIS OPINION SHALL BE FINAL.

SUPERVISION: CONSTANTLY SUPERVISE THE WORK FROM THE BEGINNING TO COMPLETION AND FINAL REVIEW.

PROGRESS OF WORK: DILIGENTLY PERFORM THE WORK AS RAPIDLY AS POSSIBLE AND MINIMIZE DISCOMFORT OF BUILDING OCCUPANTS.

EQUIPMENT LOCATIONS: DETERMINE EXACT EQUIPMENT AND MATERIALS LOCATIONS TO PROVIDE BEST ARRANGEMENT AND TO FACILITATE PROPER MAINTENANCE AND SERVICING OF EQUIPMENT. COORDINATE CLOSELY WITH OWNER.

EQUIPMENT SUPPORTS: PROVIDE ALL NECESSARY SUPPORTS FOR MOUNTING ALL EQUIPMENT AND PIPING. SUCH SUPPORTS TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.

INTERFERENCES: PLANS ARE GENERALLY DIAGRAMMATIC. CONTRACTOR SHALL AVOID INTERFERENCES WITH CONDUITS, PIPING, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL WORK. NECESSARY OFFSETS IN FITTINGS, ETC., REQUIRED TO PROPERLY INSTALL EQUIPMENT SO AS TO TAKE UP A MINIMUM SPACE SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR WITH NO ADDITIONAL EXPENSE TO THE OWNER.

UNDERWRITER'S LABORATORIES APPROVAL: ALL ELECTRICAL EQUIPMENT FURNISHED SHALL BE UL APPROVED AND SHALL BE LABELED OR LISTED BY UL. NO EQUIPMENT SHALL BE APPROVED WHICH FAILS TO MEET THESE CONDITIONS.

STORAGE OF MATERIAL: CONSULT WITH THE OWNER FOR STORAGE SPACE AT THE JOB SITE IF REQUIRED. STORAGE SPACE MUST BE SECURED AND CONTRACTOR'S REPRESENTATIVE MUST BE ON JOB BEFORE ANY MATERIAL MAY BE RECEIVED. OWNER IS NOT RESPONSIBLE FOR SECURITY.

CLEAN-UP: REMOVE ALL DEBRIS DUE TO THIS WORK AND REPAIR, CLEAN AND REPLACE ALL SURFACES DAMAGED OR SOILED AS A RESULT OF THIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. REMOVAL OF DEBRIS SHALL BE DAILY OR AS REQUIRED TO MAINTAIN SAFE, CLEAN WORKING CONDITIONS.

SHOP DRAWINGS/SUBMITTAL DATA: SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS/SUBMITTAL DATA FOR ALL EQUIPMENT AND MATERIALS FOR REVIEW. CLEARLY IDENTIFY ALL ITEMS.

PLACING IN SERVICE, TESTS, INSTRUCTIONS AND MAINTENANCE: MAKE ALL NECESSARY TESTS, TRIAL OPERATIONS, ETC., REQUIRED AND DIRECTED BY APPLICABLE CODES AND STANDARDS AND THE DESIGNER TO PROVE THAT ALL SYSTEMS ARE IN COMPLETE SERVICEABLE CONDITION AND WILL FUNCTION AS INTENDED.

WARRANTY CERTIFICATE FOR EQUIPMENT WILL COMMENCE UPON DATE OF ACCEPTANCE OF WORK BY OWNER. SUBMIT WRITTEN CERTIFICATE WITH MAINTENANCE DATA.

WARRANTY: CORRECT ANY DEFECTS IN WORKMANSHIP AND/OR MATERIAL WHICH OCCUR DURING THE FIRST YEAR OF OPERATION.

HANGERS, SUPPORTS AND ANCHORS: SUPPORT AND FASTEN ALL CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SECURELY IN PLACE. SPACE, SECURE AND ADJUST HANGERS WITHOUT DEFLECTION OR SAG. CHAIN, STRAP, PERFORATED STRAP, WIRE HANGERS, OR WOOD PLUGS ARE PROHIBITED.

PROVIDE STEEL SUPPORTS, ANCHORS, FRAMES, BRACING, PLATES, BOLTS, NUTS, WASHERS, ETC., INCIDENTAL TO INSTALLATION OF WORK AS SPECIFIED OR REQUIRED.

SUPPORT EQUIPMENT FROM THE STRUCTURE IN AN APPROVED MANNER. NO PORTION OF THE STRUCTURE SHALL BE OVERSTRESSED BY THE HANGING OPERATION OR BY THE FINAL SUPPORTS. PROVIDE AUXILIARY STRUCTURAL MEMBERS WHERE REQUIRED BETWEEN MEMBERS OF THE STRUCTURE. INSTALL IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC AND ANSI B31.9.

ALL EQUIPMENT, UNLESS SHOWN OTHERWISE, SHALL BE SECURELY ATTACHED TO THE BUILDING STRUCTURE IN AN APPROVED MANNER. ATTACHMENTS THAT ARE, IN THE OPINION OF THE DESIGNER, INADEQUATE SHALL BE REPLACED AS DIRECTED.

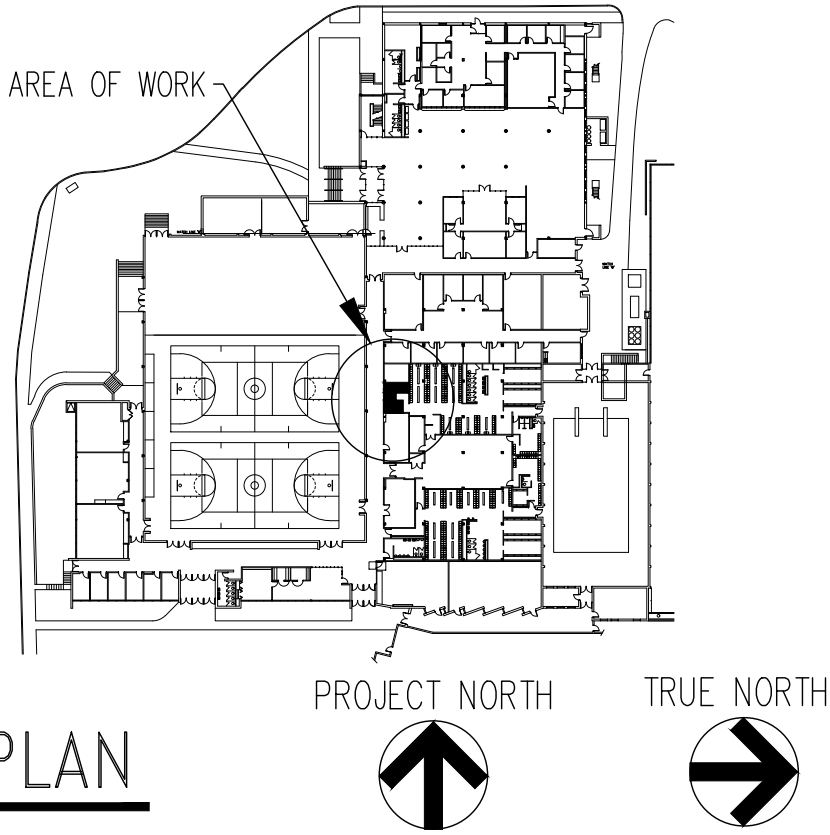
BALL VALVES: RATED FOR 150 PSI SATURATED STEAM PRESSURE, 400 PSI WOG PRESSURE; TWO-PIECE CONSTRUCTION; WITH BRONZE BODY CONFORMING TO ASTM B 62, FULL PORT, CHROME-PLATED BRASS BALL, REPLACEABLE "TEFLON" OR "TFE" SEATS AND SEALS, BLOWOUT-PROOF STEM, AND VINYL-COVERED STEEL HANDLE.

WATER HAMMER ARRESTERS: BELLOW TYPE, WITH STAINLESS STEEL CASING AND BELLOW, PRESSURE RATED FOR 250 PSI, TESTED AND CERTIFIED IN ACCORDANCE WITH PDI STANDARD WH-201 OR PISTON OPERATED MEETING ANSI/ASME A12.26.1M-1984, OR ASSE STANDARD NO. 1010. SIZES TO MATCH FIXTURE UNITS SUPPLYING MAINS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE WATER DISTRIBUTION DIAGRAM FOR LOCATION. PROVIDE A BALL VALVE PRECEDING WATER HAMMER ARRESTER.

ABOVE GRADE SANITARY AND VENT PIPE AND FITTINGS (CONCEALED AREAS): SERVICE WEIGHT CAST IRON WITH NO HUB CONNECTIONS.

DOMESTIC WATER PIPE AND FITTINGS: COPPER TUBE: ASTM B 88, TYPE L WATER TUBE, DRAWN TEMPER. WROUGHT COPPER SOLDER-JOINT FITTINGS: ANSI B 16.22, STREAMLINED PATTERN. SOLDER FILLER METAL: ASTM B 32, 95-5 TIN-ANTIMONY.


PIPE INSULATION: PROVIDE 1" FIBERGLASS INSULATION FOR COLD WATER AND HOT WATER.



KEY PLAN

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REID GYMNASIUM
REID 119 TOILET ROOM RENOVATION
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WCU #: 2023-008



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REVISIONS:

N°	Date	Description
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DRAWING NUMBER: P100

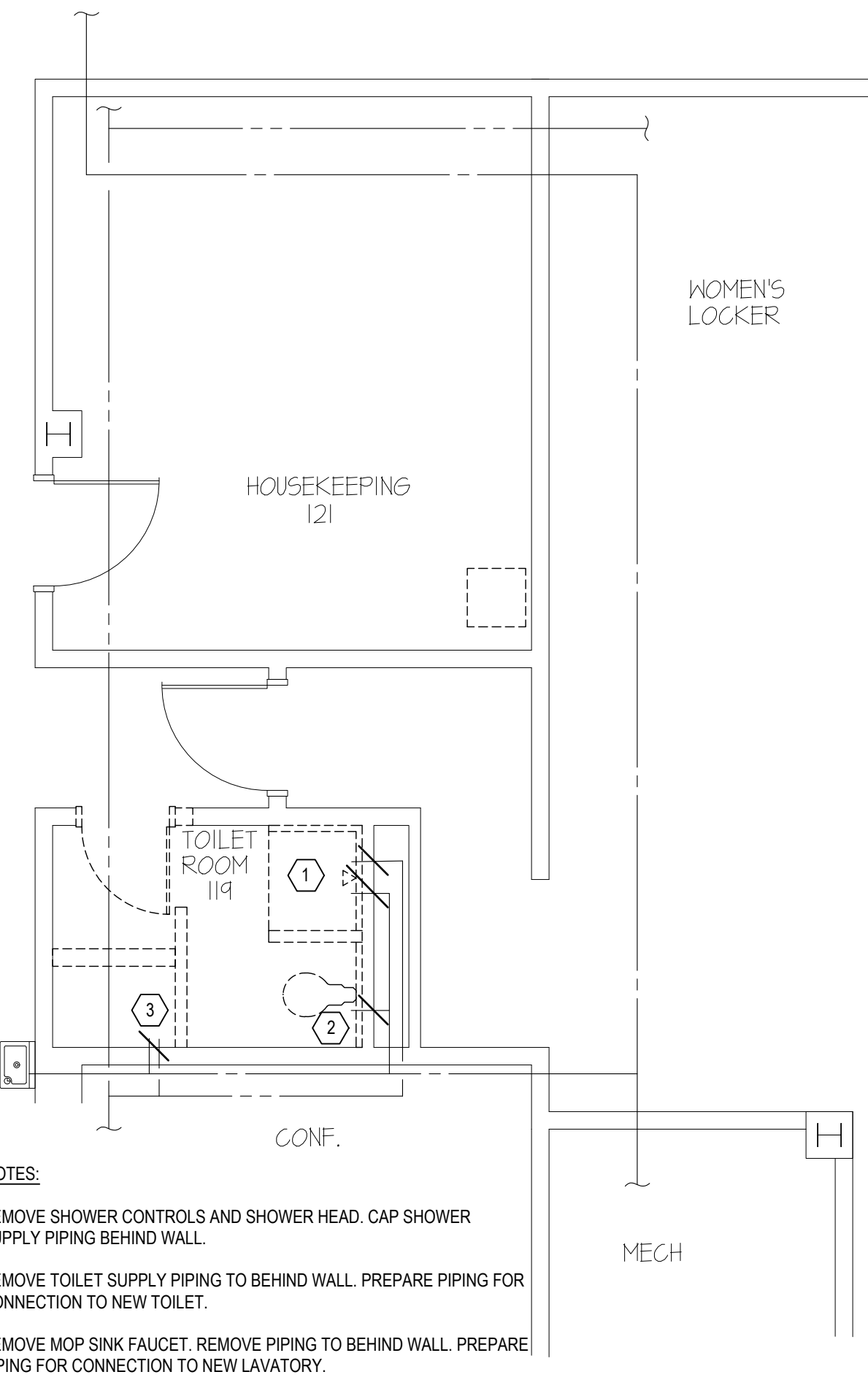
LEGEND, NOTES & SCHEDULE

SUD ASSOCIATES, P.A.

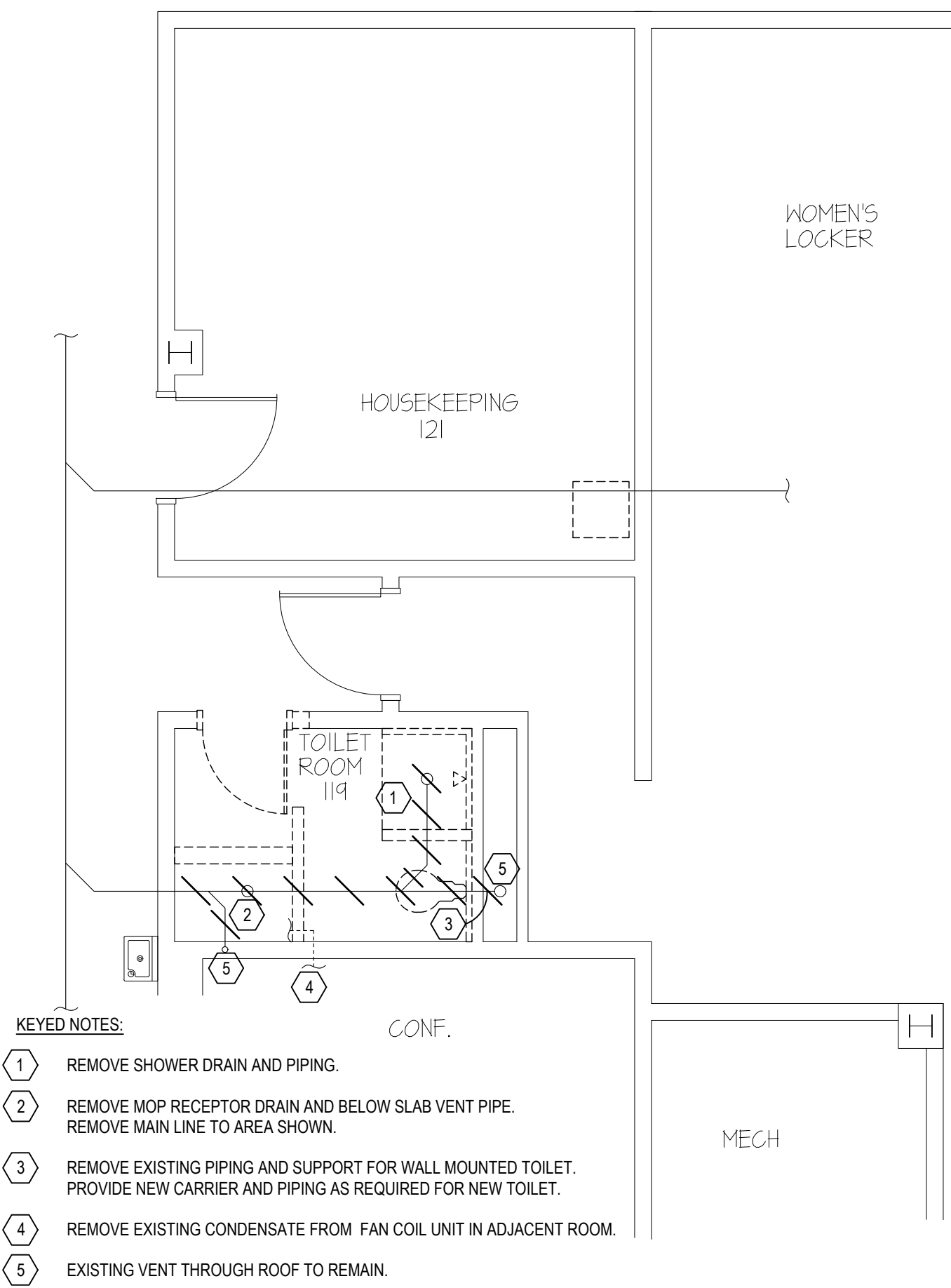
CONSULTING ENGINEERS
LICENSE NO. C-0315
PROJECT #NC49X004

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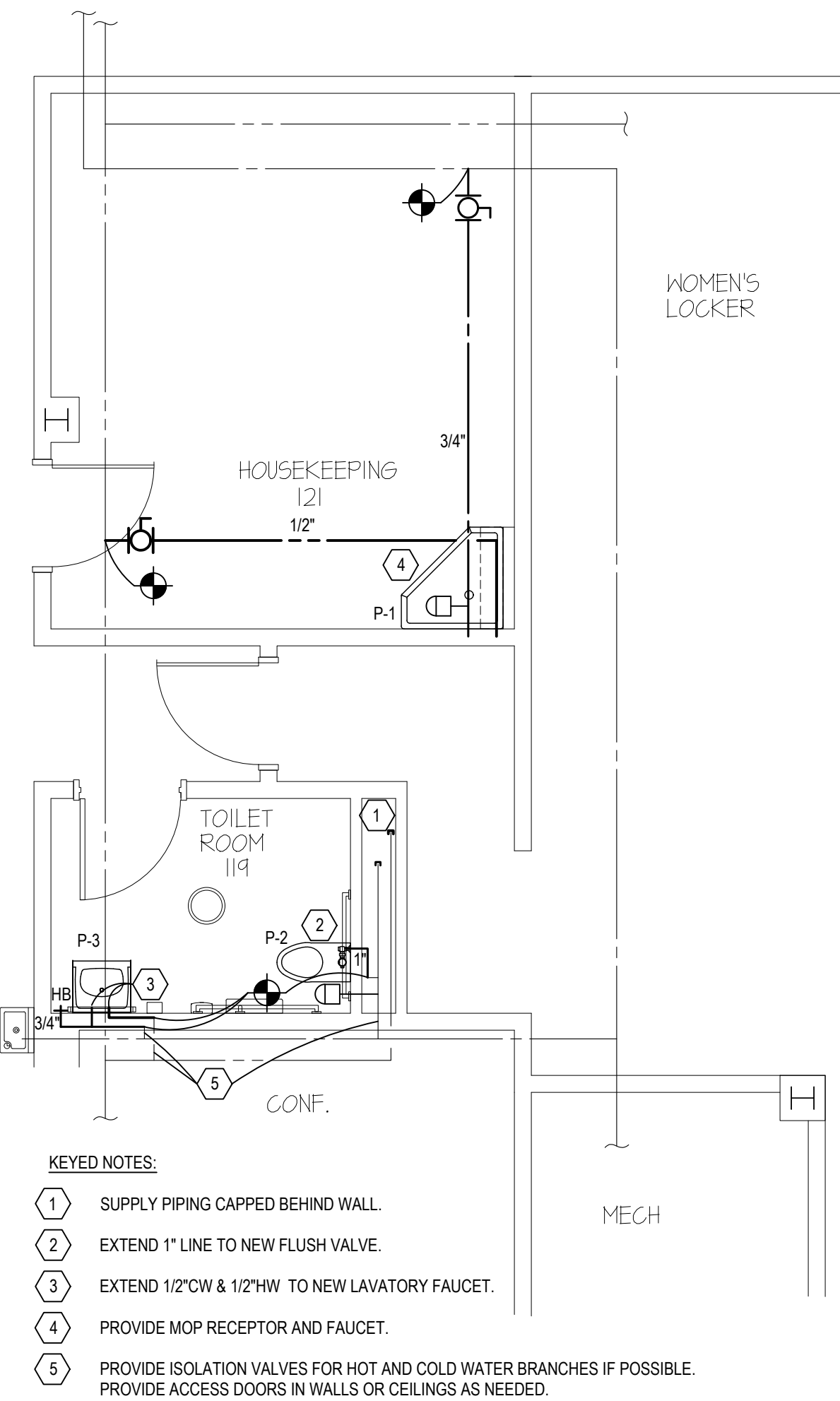
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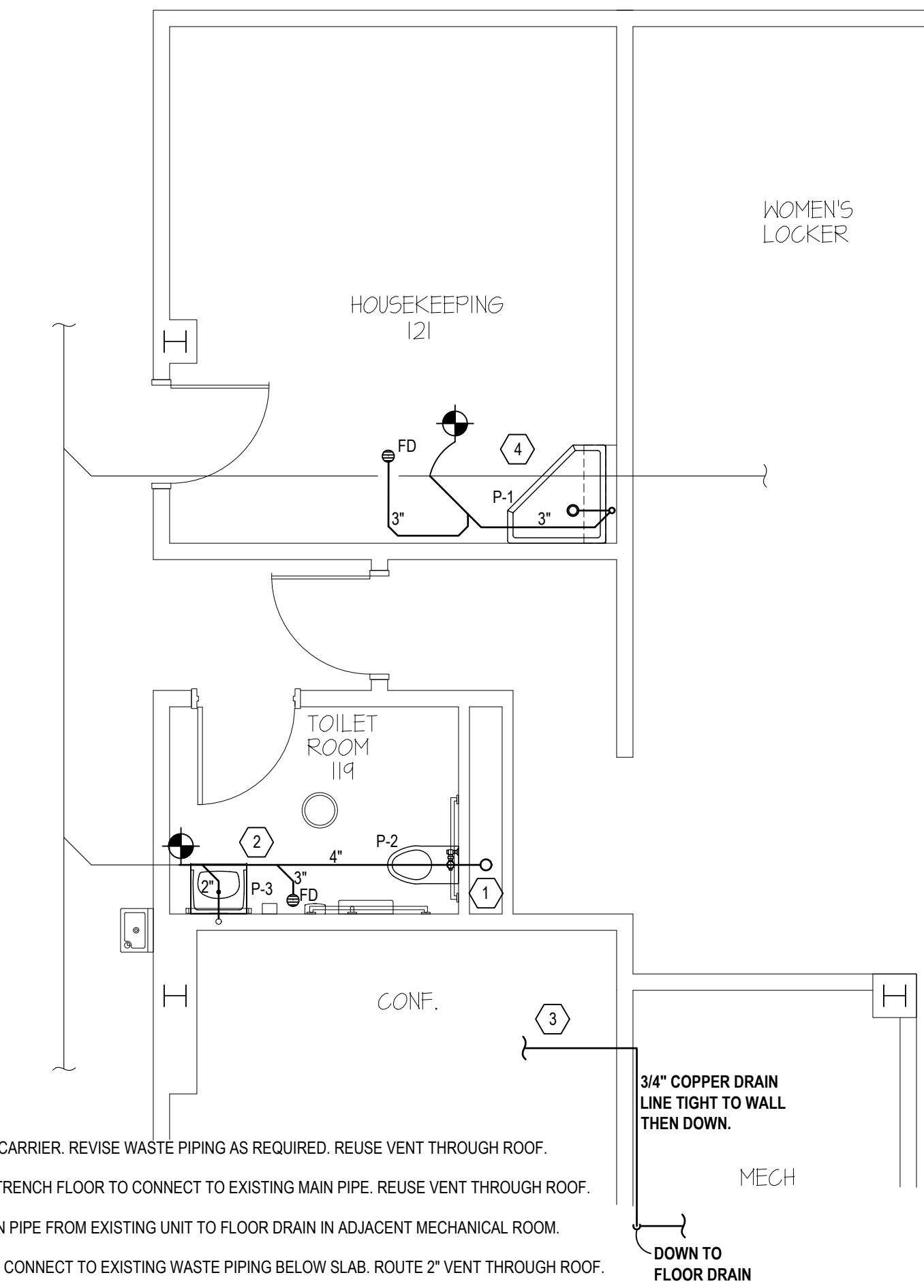
1 PLUMBING PLAN - SUPPLY DEMOLITION
P101 1/4" = 1'-0"



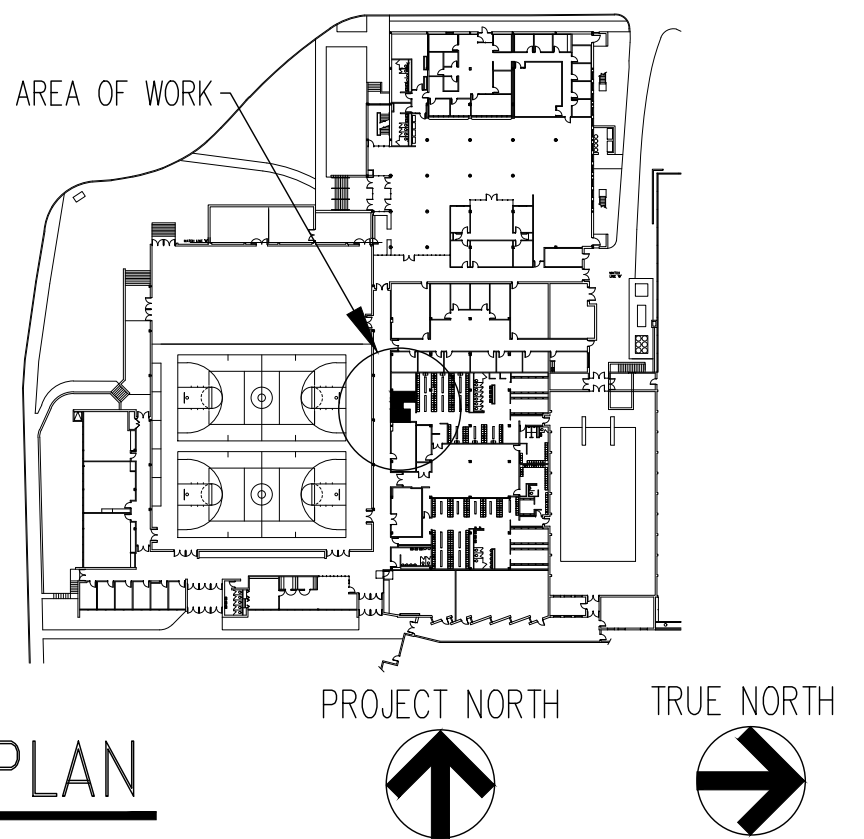
3 PLUMBING PLAN - DWV DEMOLITION
P101 1/4" = 1'-0"



2 PLUMBING PLAN - SUPPLY CONSTRUCTION
P101 1/4" = 1'-0"



4 PLUMBING PLAN - DWV CONSTRUCTION
P101 1/4" = 1'-0"



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DEMOLITION & NEW PLAN

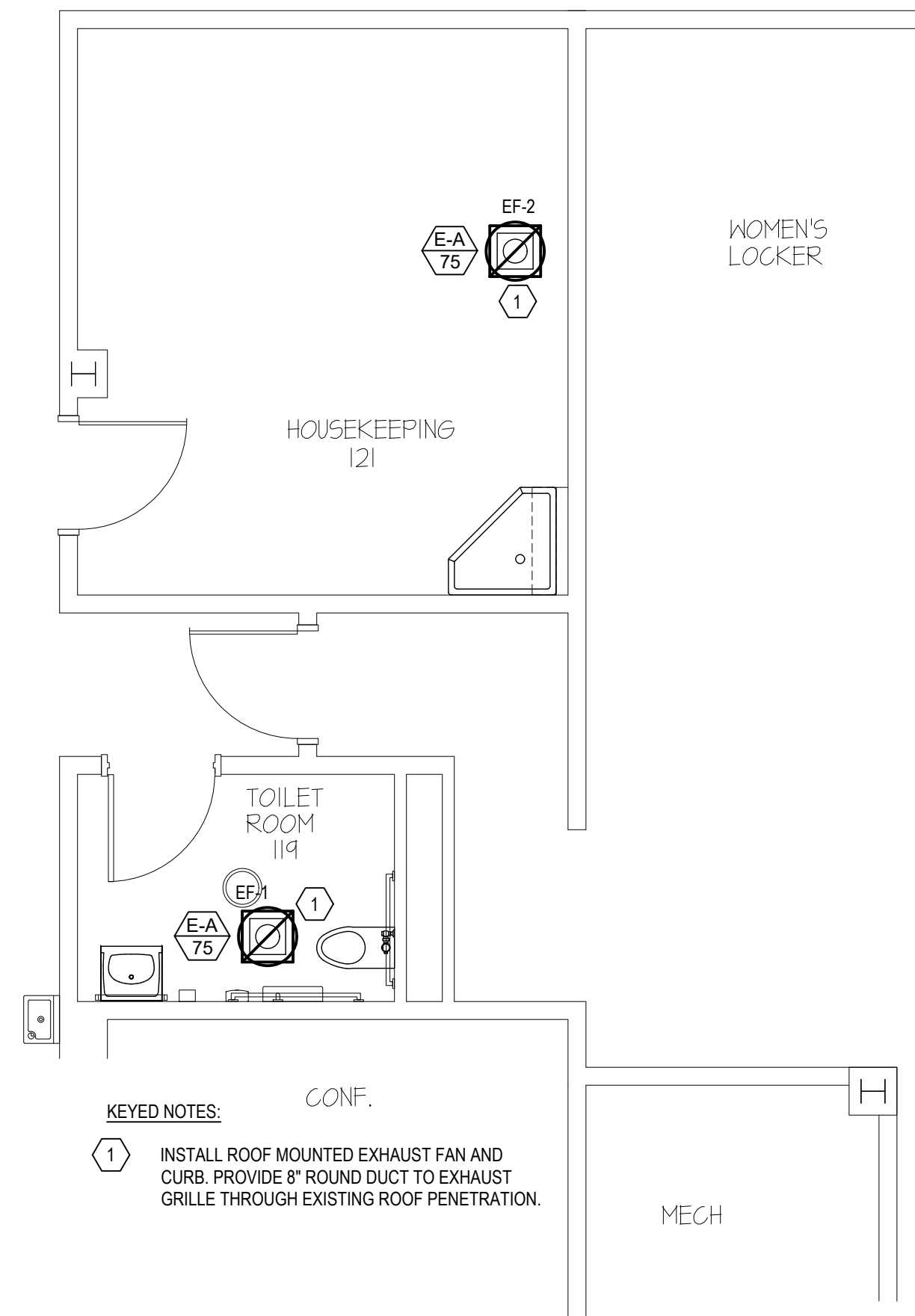
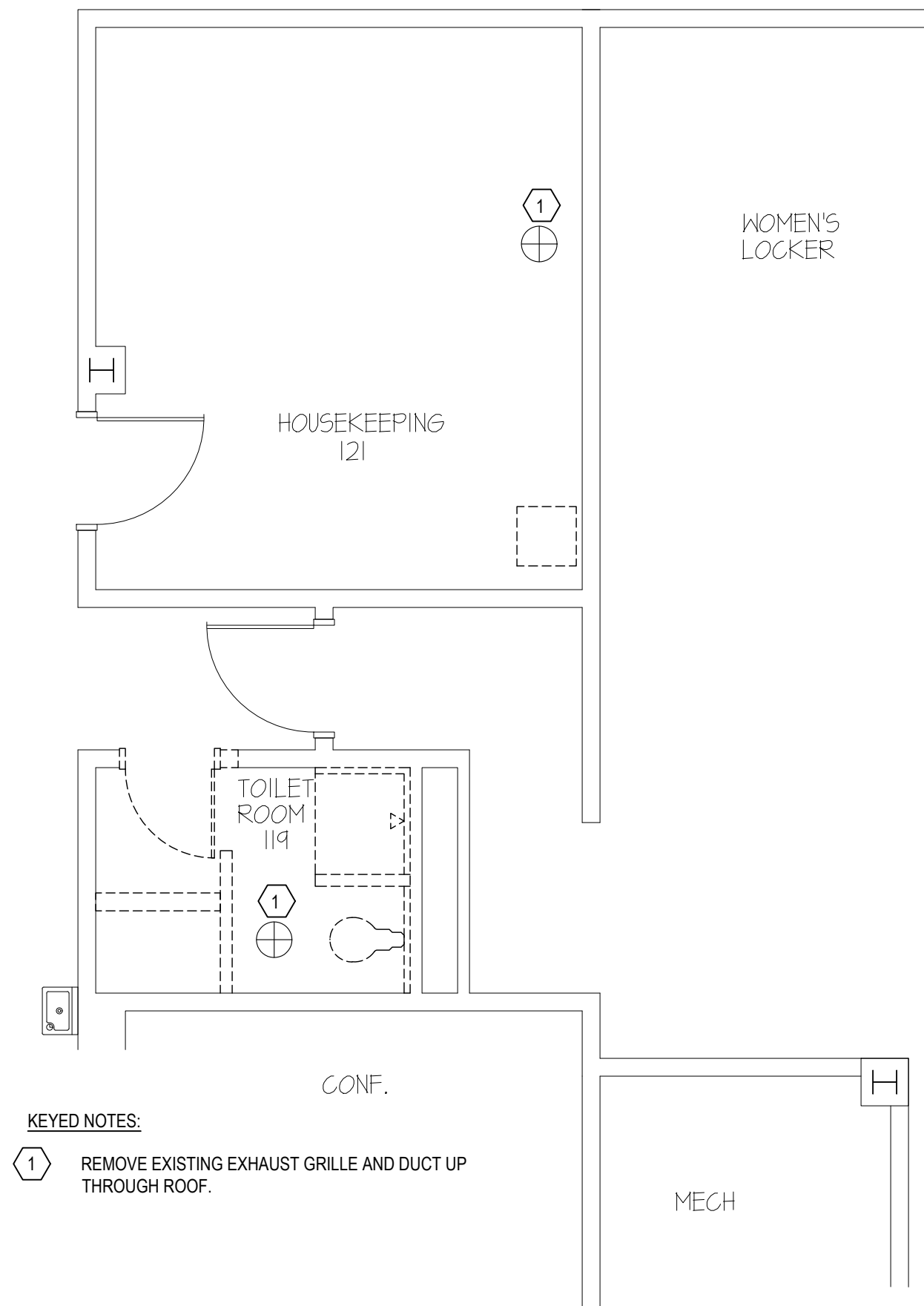
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CONSTRUCTION SET - 11/29/23



1 MECHANICAL PLAN - DEMOLITION
M101 1/4" = 1'-0"

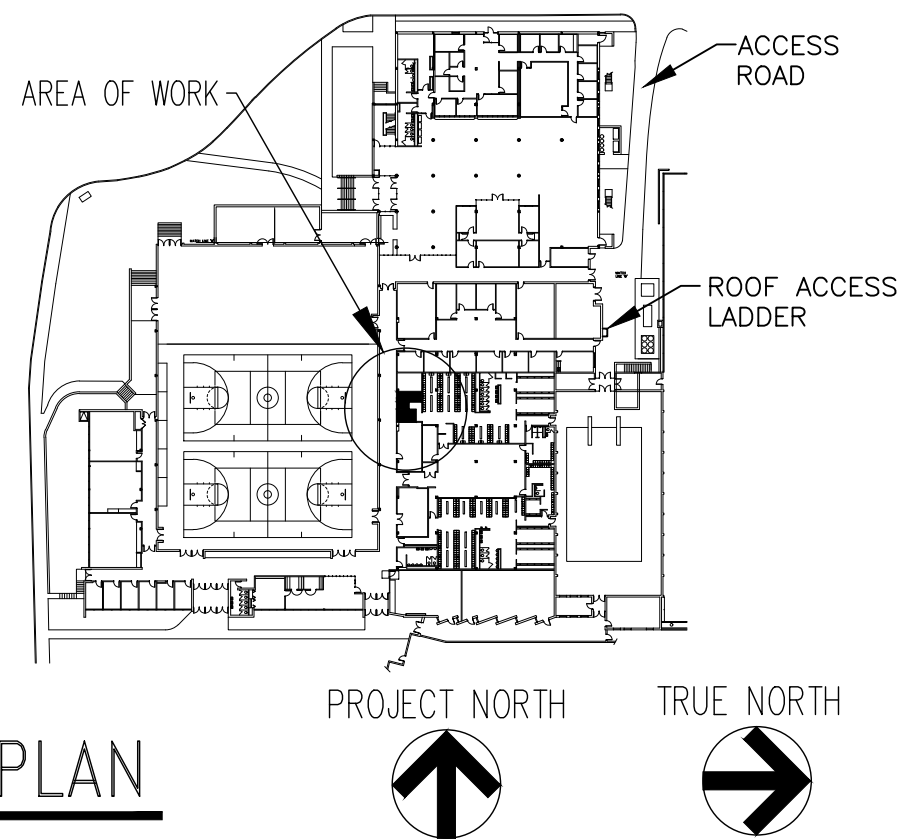
2 MECHANICAL PLAN - CONSTRUCTION
M101 1/4" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

- UNLESS OTHERWISE INDICATED DIVISION 23 CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE-DRILLING AND PATCHING REQUIRED TO INSTALL MECHANICAL WORK.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL RELATED WORK WITH OTHER TRADES. MC IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS WITH OTHER TRADES.
- ITEMS SHOWN TO BE DEMOLISHED MAY OR MAY NOT BE CORRECTLY LABELED OR LOCATED. EXAMINE EXIST. CONDITIONS OF ALL AREAS AND FIELD VERIFY/ IDENTIFY ALL UTILITIES BEFORE STARTING DEMOLITION OR NEW CONSTRUCTION. VERIFICATION/IDENTIFICATION SHALL INCLUDE TRACING EACH UTILITY TO DETERMINE ITS EXACT ORIGIN AND THE AREA OR EQUIPMENT THE UTILITY SERVES.
- ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH ARE INTENDED TO REMAIN IN USE AND THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM THAT INDICATED, CHANGE DIRECTION FROM FLOOR TO FLOOR, ETC., OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ARCHITECT BEFORE REMOVAL.
- VISIT THE SITE PRIOR TO BID DATE AND EXAMINE ALL AREAS TO BE DEMOLISHED AND RENOVATED. THOROUGHLY FAMILIARIZE YOURSELF WITH EXIST. CONDITIONS. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO THOROUGHLY EXAMINE EXIST. CONDITIONS TO DETERMINE THE EXACT SCOPE OF DEMOLITION WORK. "KEYED" NOTES ON THE DEMOLITION DWGS. ARE PROVIDED TO ASSIST BIDDERS TO DETERMINE THE SCOPE OF DEMOLITION WORK.
- THE OWNER HAS THE RIGHT TO FIRST REFUSAL ON ALL ITEMS REMOVED DURING THE DEMOLITION PHASE OF THIS PROJECT. ITEMS NOT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE PREMISES ON A DAILY BASIS.
- EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONST. BY THE CONTRACTOR.
- ALL SHUTDOWNS OF THE EXIST. UTILITIES SHALL BE SCHEDULED IN ADVANCE WITH OWNER.
- CONTRACTOR IS RESPONSIBLE FOR SEALING ALL DUCTING PENETRATIONS THROUGH ALL NEW NON-RATED WALLS TO PREVENT SOUND TRANSFER. GYPSUM WALL BD. "MUD" MAY BE USED.

EXHAUST FAN SCHEDULE											
MARK	MANU. *	MODEL *	AREA SERVED	MOUNTING	TYPE	CFM	SP (in)	MAX SONES	HP	VOLTS/PHASE	NOTES
EF-1	GREENHECK	G-060	TOILET 119	ROOF	DOWNBLAST/DIRECT	75	0.125	1.7	1/200	120 / 1	1, 3, 4
EF-2	GREENHECK	G-060	HOUSEKEEPING 121	ROOF	DOWNBLAST/DIRECT	75	0.125	1.7	1/200	120 / 1	1, 2, 4
* BASIS OF DESIGN											
1. PROVIDE 14" FACTORY ROOF CURB, SECURE FAN TO CURB.											
2. WIRE FOR MANUALLY SWITCHED OPERATION.											
3. SWITCH WITH LIGHTS.											
4. PROVIDE INTEGRAL FACTORY DISCONNECT.											

EXHAUST GRILLE SCHEDULE										
MARK	MANU. *	MODEL *	TYPE	MOUNTING	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	FINISH	NOTES
E-A	PRICE	SERIES 630	SINGLE DEFLECTION	HARD CEILING	75	10" X 10"	12" X 12"	ALUMINUM	WHITE	-
* BASIS OF DESIGN										



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DEMOLITION & NEW PLAN

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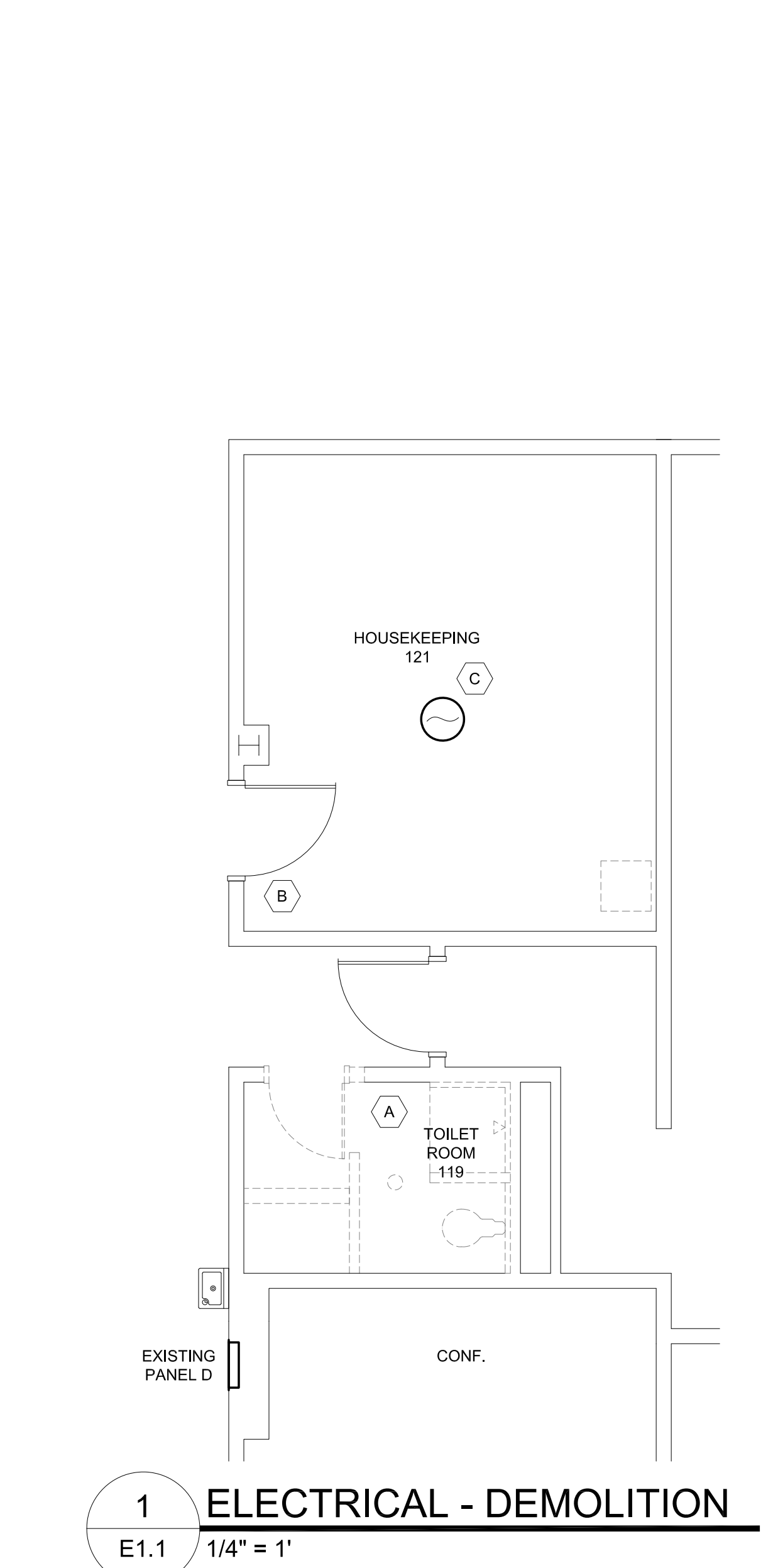
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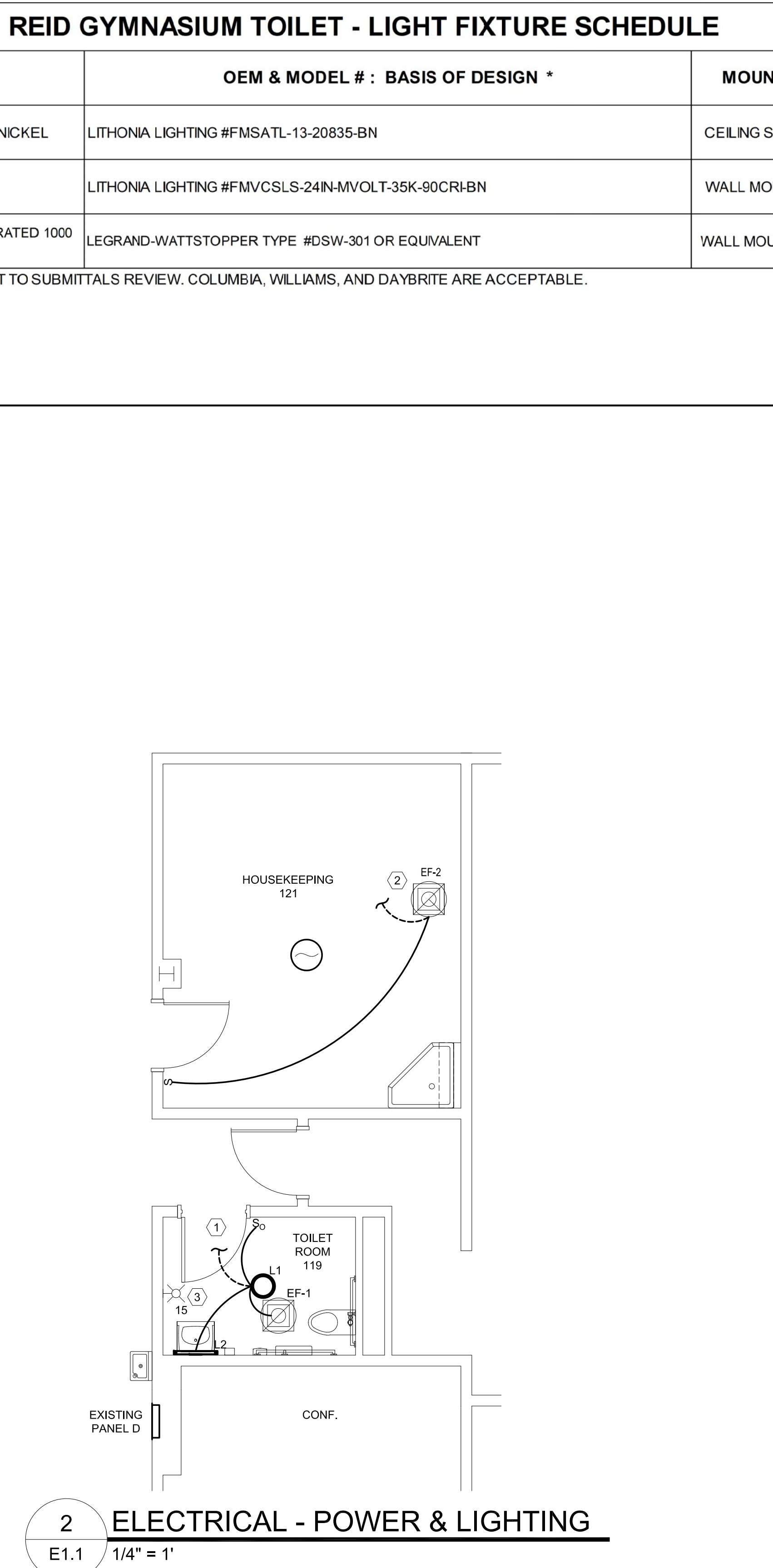
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CONSTRUCTION SET - 11/29/23

WCU REID GYMNASIUM TOILET - LIGHT FIXTURE SCHEDULE								
TYPE	DESCRIPTION	OEM & MODEL # : BASIS OF DESIGN *	MOUNTING	VOLT	LAMPS	BALLAST /FIXT.	VA/ FIXT.	NOTES
L1	13" FLUSH MOUNT LED ROUND, 950 LUMENS, 120 VOLT, 80 CRI, 3500°K, BRUSHED NICKEL	LITHONIA LIGHTING #FMSATL-13-20835-BN	CEILING SURFACE	120V		1	14.6	
L2	24" WALL MOUNT LED, 1550 LUMENS, 120 VOLT, 90 CRI, 3500°K, BRUSHED NICKEL	LITHONIA LIGHTING #FMVCSLS-24IN-MVOLT-35K-90CRI-BN	WALL MOUNT @ 7"	120V		1	27	
So	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, 120/277 VAC, LINE RATED 1000 WATT, GREY DEVICE COLOR, STAINLESS STEEL SWITCH PLATE	LEGRAND-WATTSTOPPER TYPE #DSW-301 OR EQUIVALENT	WALL MOUNT @ 48"	120V		N/A	N/A	
* BASIS OF DESIGN, OTHER EQUIVALENT FIXTURES MAY BE SUBMITTED AND ARE SUBJECT TO SUBMITTALS REVIEW. COLUMBIA, WILLIAMS, AND DAYBRITE ARE ACCEPTABLE. 1. ADJUST HEADS TO COVER EGRESS PATH, REVIEW WITH OWNER 2. UNIT TO BE "WET LOCATION" RATED AND GOOD FOR 0° F OPERATION X: FINISH/COLOR BY ARCHITECT XX: MOUNTING & ACCESSORIES BY EC								



- DEMOLITION KEYED NOTES
- A THE E.C. SHALL REMOVE THE EXISTING LIGHTING FIXTURE, SWITCH AND WIRING IMPACTED BY THE NEW CONSTRUCTION IN SUCH A MANNER AS TO FACILITATE RE-USING THE EXISTING LIGHTING CIRCUIT IN THE NEW WORK. SEE THE ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION. COORDINATE THE PRECISE ELECTRICAL REMOVAL WITH THE G.C. PRIOR TO COMMENCING WORK. PROVIDE J-BOXES AND BLANK COVER PLATES TO TERMINATE AND MAKE SAFE ANY UNUSED WIRING.
 - B THE E.C. SHALL FIELD VERIFY THE EXISTING LIGHTING CIRCUIT AND WIRING AND REMOVE A LIGHTING OUTLET BOX OR SWITCH BOX IN SUCH A MANNER AS TO FACILITATE RE-USING THE EXISTING LIGHTING CIRCUIT FOR POWERING THE NEW EXHAUST FAN IN THE NEW WORK. SEE THE ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL INFORMATION. COORDINATE THE PRECISE ELECTRICAL REMOVAL WITH THE G.C. PRIOR TO COMMENCING WORK. PROVIDE J-BOXES AND BLANK COVER PLATES TO TERMINATE AND MAKE SAFE ANY UNUSED WIRING.
 - C THE E.C. SHALL PROVIDE PLASTIC AND REMOVEABLE MASKING TAPE TO COVER THE EXISTING SMOKE DETECTOR IN PLACE DURING CONSTRUCTION SO AS TO PROTECT THE SMOKE DETECTOR FROM DUST, DEBRIS, WATER AND OR MOISTURE.



- NEW WORK KEYED NOTES
- 1 THE E.C. SHALL PROVIDE NEW OCCUPANCY SENSOR SWITCH AT THE NEW SWITCH LOCATION, NEW LIGHTING FIXTURES AND NEW EXHAUST FAN WIRING. FIELD VERIFY THE LIGHTING CIRCUIT D-7 AND WIRE IN SUCH A MANNER THAT THE EXHAUST FAN IS CONNECTED TO THE LIGHTING FIXTURES AND RUNS SIMULTANEOUSLY. PROVIDE A MINIMUM 15 MINUTE OFF-DELAY TIME SETTING AFTER OCCUPANCY. COORDINATE THE OCCUPANCY SENSOR SETTINGS AND ALL LIGHTING FIXTURE LOCATIONS PRECISELY WITH THE G.C., THE M.C., AND ALL OTHER TRADES PRIOR TO ROUGH-IN.
 - 2 THE E.C. SHALL PROVIDE A NEW SWITCH, SWITCH BOX, J-BOXES, EXTENSION BOXES, CONDUIT, CONDUCTORS AND WIRING TO CONTROL THE NEW EXHAUST FAN EF-2. FIELD VERIFY THE LIGHTING CIRCUIT D-7 FOR CONNECTING THE EXHAUST FAN POWER. COORDINATE THE PRECISE RECEPTACLE REQUIREMENTS WITH THE G.C., THE M.C., AND ALL OTHER TRADES PRIOR TO ROUGH-IN.
 - 3 THE E.C. SHALL PROVIDE A 15 CANDELA STROBE-ONLY FIRE ALARM SYSTEM ANNUNCIATOR AT 88" AFF COMPATIBLE WITH THE GENERAL ELECTRIC (EDWARDS) EST-3 FIRE ALARM SYSTEM AND CONNECT TO THE EXISTING ANNUNCIATOR LOCAL CIRCUIT. ALL FIRE ALARM CABLES, AND BOXES SHALL BE COLORED/PAINTED RED WITH J-BOXES PERMANENTLY LABELLED FIRE ALARM ONLY. COORDINATE PRECISELY ALL FIRE ALARM TESTING AND REPORTING WITH THE WCU SAFETY AND RISK MANAGEMENT OFFICE PRIOR TO COMMENCING WORK. PROVIDE 72 HOURS PRIOR NOTICE TO THE WCU SAFETY AND RISK MANAGEMENT OFFICE AT 828-227-7443 BEFORE COMMENCING ANY CONSTRUCTION ACTIVITY SUCH AS DEMOLITION NEAR EXISTING SMOKE DETECTOR DEVICES OR BEFORE COMMENCING NEW FIRE ALARM WORK. PROVIDE A CONTINUOUS FIRE WATCH DURING ANY FIRE ALARM OUTAGES. PROVIDE NFPA 72 RE-ACCEPTANCE TESTING PER ARTICLE 14.4.2 FOR ALL EXISTING DEVICES REMOVED AND REPLACED; AND 10 PERCENT OF REMAINING EXISTING DEVICES AT RANDOM. PROVIDE WRITTEN TEST RESULT FORMS TO THE OWNER UPON COMPLETION.

SCOPE OF WORK

PROVIDE TEMPORARY CONSTRUCTION PHASE POWER AND LIGHTING FOR ALL TRADES AS REQUIRED TO COMPLETE THE WORK.

THE E.C. SHALL DE-ENERGIZE, LOCK-OUT, TAG-OUT, AND MAKE SAFE ALL EXISTING WIRING AND EQUIPMENT INVOLVED IN DEMOLITION OR WORK BY OTHER TRADES.

THE E.C. SHALL PROVIDE SUBMITTALS ON ALL POWER, LIGHTING, AND CONTROLS EQUIPMENT FOR REVIEW PRIOR TO PURCHASE.

PROVIDE ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS AND IN THE SPECIFICATIONS AND AS REQUIRED TO PROVIDE A COMPLETELY FUNCTIONAL INSTALLATION IN COMPLIANCE WITH ALL STATE AND LOCAL CODES.

PROVIDE ALL LOW VOLTAGE, DATA WIRING AND OUTLETS SHOWN ON THE DRAWINGS. FOR DATA OUTLETS, PROVIDE A 4X4 METALLIC BOX WITH SINGLE GANG PLASTER RING, STAINLESS STEEL MODULAR DATA OUTLET PLATE WITH 1" MINIMUM CONDUIT STUB-UP ABOVE CEILING WITH PULL STRINGS. PROVIDE RJ-45 JACKS AND TWO CAT6 DATA CABLE HOME RUNS TO THE NEAREST PATCH PANEL. PROVIDE PATCH PANEL CONNECTIONS AND TEST TO 1 GIGABIT PERFORMANCE. PROVIDE WRITTEN TEST RESULTS. PROVIDE IDENTIFICATION WIRE LABELS AT BOTH ENDS AS DIRECTED BY THE OWNER. PROVIDE DATA CABLE HANGERS AT 3' MAXIMUM CENTERS.

PROVIDE FIELD COORDINATION WITH OTHER TRADES AND PROVIDE MARKED UP RED LINE DRAWINGS TO THE OWNER DETAILING ALL FIELD REVISIONS AND DISCOVERED EXISTING CONDITIONS.

TEST ALL MOTORS FOR THE CORRECT ROTATION. ASSIST IN THE STARTUP AND TESTING OF ALL FIXED EQUIPMENT. COORDINATE WITH THE OTHER TRADES PRECISELY.

TEST ALL LIGHTING, SWITCHING, PHOTOCELLS (DUSK/DAWN CONTROLS), AND OCCUPANCY SENSORS FOR PROPER FUNCTION INCLUDING AN AFTER DARK DEMONSTRATION TO THE OWNER FOR APPROVAL. PROVIDE WRITTEN RECORDS OF LIGHTING PROGRAM SETTINGS.

THE E.C. SHALL ASSIST ALL OTHER TRADES IN TESTING INSTALLED EQUIPMENT.

TEST AND CERTIFY ALL FIRE ALARM EQUIPMENT. PROVIDE NFPA 72 REPORT DOCUMENTS

TEST AND CERTIFY ALL EMERGENCY LIGHTING FOR A 90 MINUTE PERIOD.

PROVIDE ALL REQUIRED ELECTRICAL PERMITS AND INSPECTIONS. NC STATE CONSTRUCTION OFFICE PROJECTS (SCO) SHALL BE COORDINATED A MINIMUM OF ONE WEEK IN ADVANCE, WITH THE SCO ELECTRICAL INSPECTOR:

DAVID SOUTHER
919-427-8589 CELL
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SCO INSPECTIONS ARE NORMALLY SCHEDULED WEDNESDAYS. DO NOT ENERGIZE NEW OR MODIFIED CIRCUITS BEFORE RECEIVING APPROVAL FROM THE STATE CONSTRUCTION OFFICE STATE ELECTRICAL INSPECTOR.

THE E.C. SHALL PROVIDE A ONE YEAR WARRANTY ON ALL PARTS AND LABOR FROM THE DATE OF PROJECT ACCEPTANCE.

- GENERAL NOTES (ALL ELECTRICAL SHEETS)
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE APPROXIMATE LOCATION OF DEVICES AND EQUIPMENT. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON SITE. MINOR ADJUSTMENTS AND OFFSETS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
 - PROVIDE ALL WORK IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AND IN AN INDUSTRY STANDARD WORKMANLIKE MANNER.
 - NMC (ROMEX AND SE CABLE FOR FEEDERS) IS NOT ACCEPTABLE. AC/MC CABLE IS ACCEPTABLE FOR FISHING IN EXISTING WALLS IN COMPLIANCE WITH NEC 330.10 AND 330.12. EMT CONDUITS WITH STEEL COMPRESSION FITTINGS (W/INSULATED THROATS) AND COUPLINGS WITH COPPER CONDUCTORS SHALL BE USED IN EXPOSED LOCATIONS. CONDUIT MINIMUM SIZE IS 3/4".
 - UNLESS OTHERWISE NOTED, RACEWAYS SHALL NOT BE RUN ON THE EXTERIOR OF BUILDINGS. RACEWAYS SHALL BE SUPPORTED IN A WORKMANLIKE MANNER AT ADEQUATE INTERVALS FOR EVEN/LEVEL SUPPORT AND TO PREVENT SAGGING.
 - ALL WALLS AND PENETRATIONS SHALL BE REPAIRED AND SEALED. SEE THE ARCHITECTURAL DRAWINGS FOR FIRE RATINGS AND WALL CONSTRUCTION DETAILS.
 - UNLESS OTHERWISE NOTED: ALL WIRING SHOWN IS COPPER THH/IN/THWN RATED. ALL WIRES #10 AWG OR SMALLER SHALL BE SOLID CONDUCTORS (NOT STRANDED.)
 - WCU CAMPUS STANDARD DEVICES SHALL BE RECEPTACLES-HUBBELL 5352AG (GREY) WITH SS8 STAINLESS STEEL WALLPLATE, GFCI RECEPTACLES-HUBBELL GFRS362GYA (GREY) WITH S26 STAINLESS WALL PLATE, AND SINGLE POLE SWITCH-HUBBELL 1221GY (GREY) WITH SS1 STAINLESS WALL PLATE.
 - ALL SPARE BREAKERS SHALL BE TURNED OFF AND LABELED "SPARE" ON THE DIRECTORY CARD. PROVIDE A TYPE WRITTEN OR COMPUTER PRINTED PANEL SCHEDULE CARD ON HEAVY CARD STOCK PAPER.
 - PROVIDE ALL CONDUIT AND WIRE TERMINATIONS TO EQUIPMENT.
 - GENERALLY FOCUS EMERGENCY LIGHT HEADS AT 45° DOWN ANGLE AND +/- 15°-45° HORIZONTALLY TO COVER EGRESS PATCH. DO FINAL ADJUSTMENT OF HEADS WITH ENGINEER.
 - PRIOR TO LOCATING ANY DEVICES AT CASEWORK, COUNTERTOPS, SINKS, OR ETC COORDINATE WITH OWNER TO VERIFY MOUNTING HEIGHTS AND LOCATIONS. COORDINATE ANY MOUNTING LOCATIONS PRIOR TO ROUGH IN WITH OWNER.
 - THE ENGINEER HAS ATTEMPTED TO PROVIDE A COMPLETE DESIGN, COMPLIANT WITH ALL CODES. THE CONTRACTOR REMAINS RESPONSIBLE FOR MINOR ADJUSTMENTS TO COMPLY WITH ALL APPLICABLE CODES AND THE DESIGN INTENT.



SUD ASSOCIATES, P.A.

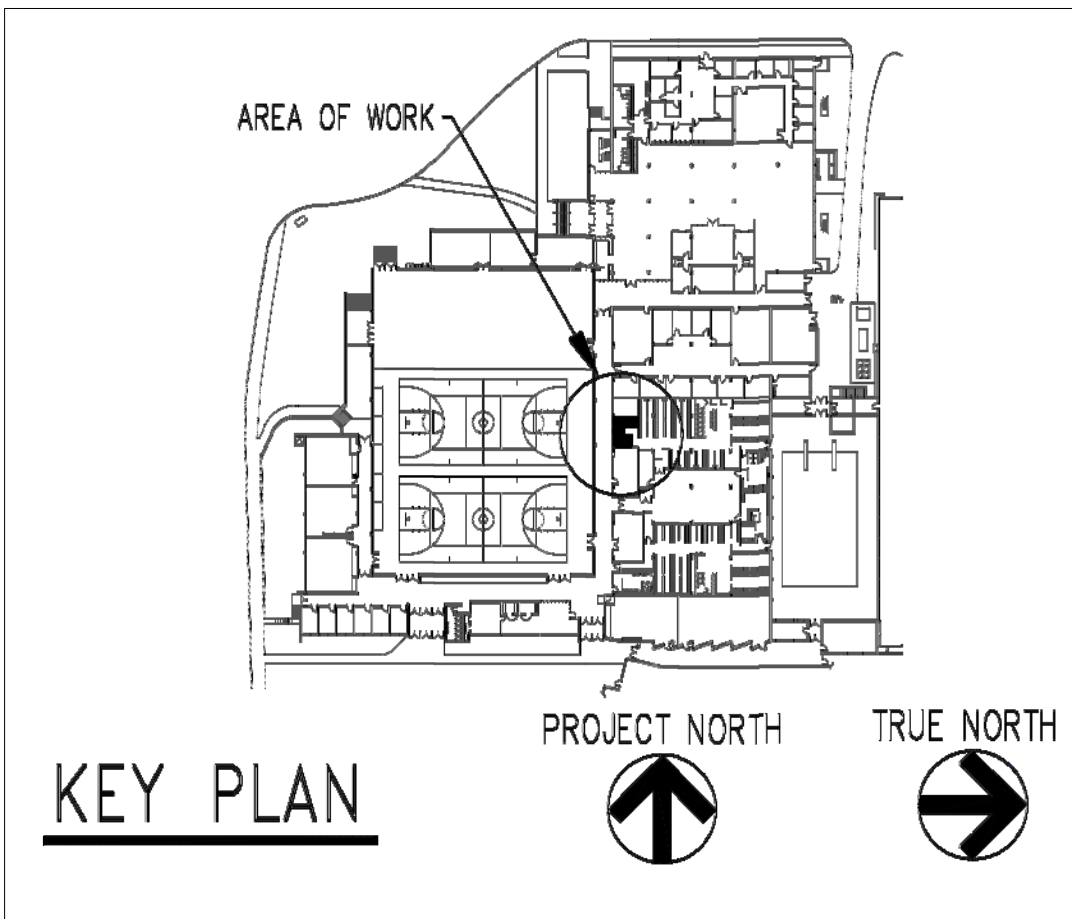
CONSULTING ENGINEERS
LICENSE NO. C-0315
PROJECT #NC49X004

1813 CHAPEL HILL ROAD
DURHAM, NC 27707
(919) 493-5277

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GENERAL ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	DEMOLITION
	TYPICAL LIGHT FIXTURES LETTER INDICATES TYPE
	DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R
	GFCI DUPLEX RECEPTACLE
	ABOVE COUNTER DUPLEX RECEPTACLE, MOUNT CENTER AT 44" AFF
	20A, 120/277VAC SINGLE POLE SNAP SWITCH
	20A, 120/277 VAC OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGY
	SWITCHED CIRCUIT
	UNSWITCHED CIRCUIT
	HOMERUN CIRCUIT TO PANEL - CIRCUIT INDICATED
	FIRE ALARM STROBE OR INDICATOR, CANDELA RATING IS 15 UNLESS OTHERWISE INDICATED, MOUNT AT 90° - 96" AFF

ABBREVIATIONS			
A	AMP	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MDS	MAIN DISCONNECT SWITCH
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
AL	ALUMINUM	N	NEUTRAL
BFG	BELOW FINISHED GRADE	NIC	NOT IN CONTRACT
C	CONDUIT (AND DEVICE COUNTER HEIGHT)	OEM	ORIGINAL EQUIPMENT MANU.
CU	COPPER OR CONDENSING UNIT	PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	PE	PHOTOCELL
EF	EXHAUST FAN	PVC	POLYVINYL CHLORIDE PIPE
ER	REMTOE EMERGENCY LIGHT	PNL	PANELBOARD
EW	ELECTRIC WALL HEATER	RSC	RIGID STEEL CONDUIT
EX	EXIT SIGN	RTU	ROOF TOP UNIT
FMC	FLEXIBLE METAL CONDUIT	SA	SURGE ARRESTER
G	GROUND	UON	UNLESS OTHERWISE NOTED
GC	GENERAL CONTRACTOR	VAC	VOLTAGE AC
GFI	GROUND FAULT INTERRUPTER	W	WET LOCATION RATED
MC	MECHANICAL CONTRACTOR	WIR	WIRE (SIZE/RATING)
MCA	MINIMUM CIRCUIT AMPACITY		



WESTERN CAROLINA UNIVERSITY
CULLOWHEE, NORTH CAROLINA

REID GYMNASIUM
REID 119 TOILET ROOM RENOVATION
SCO ID #: 23-26576-01A
WCU #: 2023-008

DATE: 11/29/23
SCALE: AS NOTED
DRAWN BY: PSD
REVISIONS:

N°	Date	Description

DRAWING NUMBER: E101

DEMO, NEW PLAN, & SCHEDULE