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# CLOSE-HIPP BUILDING - 3RD FLOOR

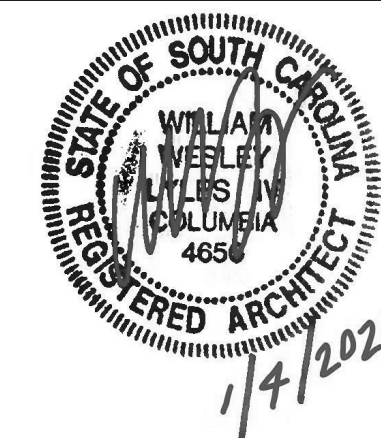
## UofSC RESTROOM RENOVATIONS

### COLUMBIA, SOUTH CAROLINA

STUDIO 2LR

STUDIO 2LR, INC.  
2428 MAIN STREET  
COLUMBIA, SC 29201  
P 803.233.6602  
STUDIO2LR.COM

South Carolina  
UofSC



CLIENT NAME: UNIVERSITY OF SOUTH CAROLINA  
PROJECT NAME: UofSC CLOSE-HIPP 3RD FLR TOILET RENOVATIONS  
LOCATION: 1705 COLLEGE ST., COLUMBIA, SC

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 20001  
SHEET NUMBER: **CVR**  
SHEET NAME: COVER SHEET  
DATE: 01/04/2021

#### BUILDING CODE SUMMARY

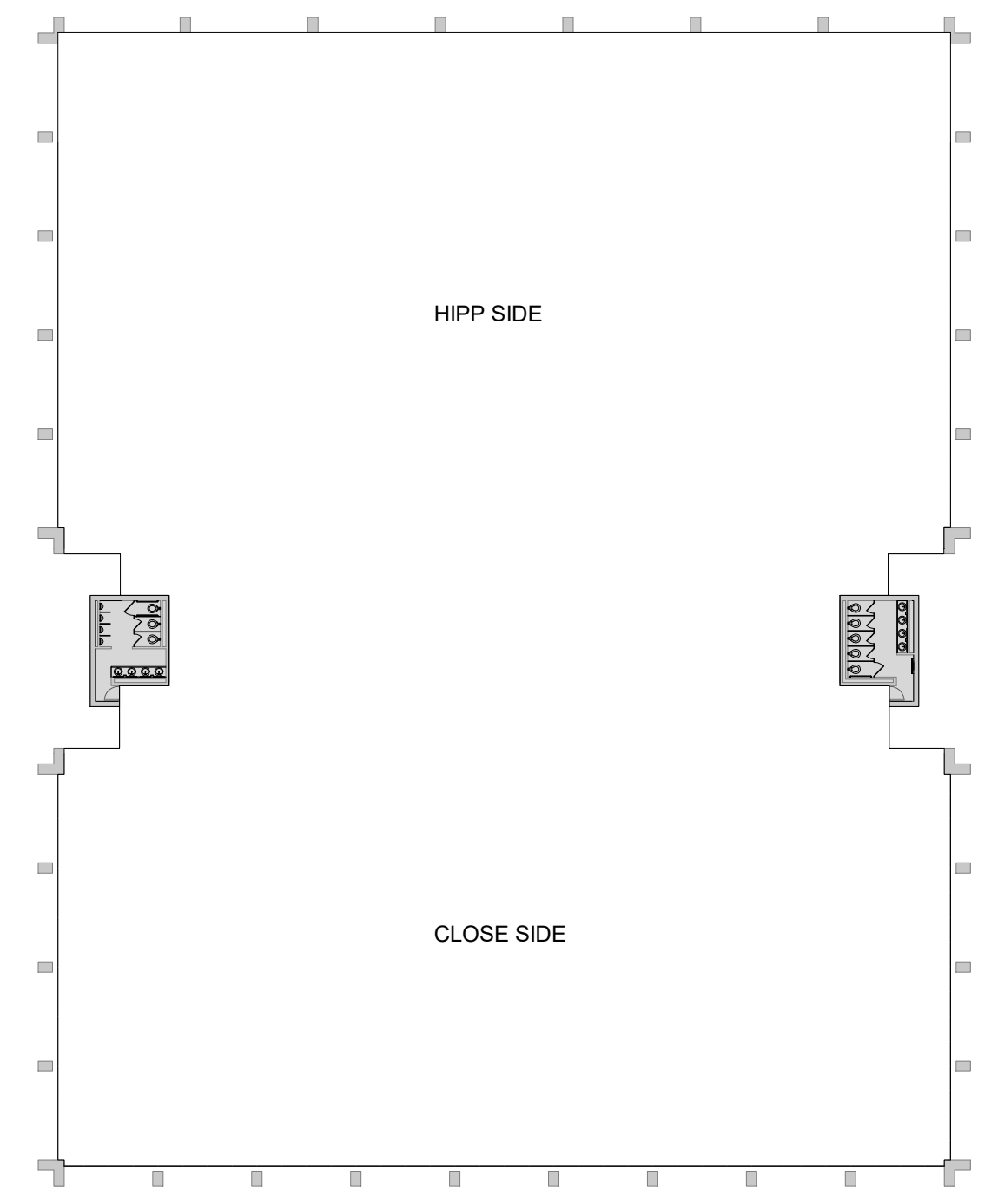
**NOTE TO THE AUTHORITY HAVING JURISDICTION:**  
**THIS IS AN INTERIOR RENOVATION OF 2 GROUP TOILETS FOR FINISHES AND FIXTURES ONLY.**

PROJECT INFORMATION		BUILDING DATA	
NAME OF PROJECT:	USC ADVISING RENOVATION FOR CLOSE SIDE 3RD FLOOR RESTROOMS	CONSTRUCTION TYPE (TABLE 503):	1B
ADDRESS:	1705 COLLEGE STREET, COLUMBIA, SC	SPRINKLERS:	YES - UNDER CONSTRUCTION BY OWNER / SEPARATE SCOPE OF WORK
PROPOSED USE:	BUSINESS	STANDPIPES:	NO
OWNER OR AUTHORIZED AGENT:	ANN DERRICK	FIRE DISTRICT:	N/A
OWNED BY:	UNIVERSITY OF SOUTH CAROLINA	BUILDING HEIGHT:	118 FEET 8 NUMBER OF STORIES UNLIMITED PER --
CODE ENFORCEMENT JURISDICTION:	OFFICE OF THE STATE ENGINEER	MEZZANINE:	NO
		HIGH RISE:	NO
<b>PROJECT DESIGN TEAM</b>		GROSS BUILDING AREA:	
DESIGNER:	STUDIO 2LR, INC.	FLOOR	EXISTING (SQ. FT.) NEW (SQ. FT.) TOTAL
CIVIL:	--	3RD FLOOR	39,157 -- 39,157
STRUCTURAL:	--		
PLUMBING:	MECHANICAL DESIGN INC.		
FIRE PROTECTION:	--		
MECHANICAL:	MECHANICAL DESIGN INC.		
SPRINKLER-STANDPIPE:	--		
ELECTRICAL:	BELKA ENGINEERING ASSOCIATES		
OTHER:	--		
<b>CODE COMPLIANCE</b>		<b>EXIT REQUIREMENTS</b>	
INTERNATIONAL BUILDING CODE:	2018 EDITION WITH SC MODIFICATIONS	<b>NUMBER AND ARRANGEMENTS OF EXITS</b>	
INTERNATIONAL PLUMBING CODE:	2018 EDITION	EXISTING EXITS TO REMAIN	
INTERNATIONAL MECHANICAL CODE:	2018 EDITION	<b>EXIT WIDTH</b>	
INTERNATIONAL FIRE CODE:	2018 EDITION WITH SC MODIFICATIONS	EXISTING EXIT WIDTH TO REMAIN	
NATIONAL ELECTRIC CODE:	2017 EDITION	<b>PLUMBING FIXTURE REQUIREMENTS</b>	
INTERNATIONAL ENERGY CONSERVATION CODE:	2009 EDITION	EXISTING PLUMBING FIXTURE COUNTS TO REMAIN,	
ICC/ANSI - 117.1:	2017 EDITION	REPLACEMENT OF EXISTING FIXTURES AND FINISHES.	
ADA STANDARDS FOR ACCESSIBLE DESIGN:	2010 EDITION		

#### ABBREVIATIONS

# & @	POUND OR NUMBER AND AT	GA.	GAUGE
A.C.T.	ACOUSTICAL CEILING TILE	GALV.	GALVANIZED
A.F.F.	ABOVE FINISHED FLOOR	GYP. BRD.	GYP. WALLBOARD
ALUM.	ALUMINUM	H	HIGH
ANOD.	ANODIZED	H.M.	HOLLOW METAL
APPROX.	APPROXIMATE	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
B.O.	BOTTOM OF	INSUL.	INSULATION
C.I.P.	CAST IN PLACE	MAX.	MAXIMUM
C.J.	CONTROL JOINT	M.O.	MASONRY OPENING
CLG.	CEILING	MECH.	MECHANICAL
CLR.	CLEAR	MIN.	MINIMUM
CMU	CONCRETE MASONRY UNIT	MTL.	METAL
COL.	COLUMN	N.I.C.	NOT IN CONTRACT
CONC.	CONCRETE	NO.	NUMBER
CONT.	CONTINUOUS	NOM.	NOMINAL
CPT.	CARPET	O.C.	ON CENTER
C.T.	CERAMIC TILE	O.H.	OVERHEAD
DEMO	DEMOLISH	O.P.C.I.	OWNER PROVIDED CONTRATOR INSTALLED
DIA.	DIAMETER	OPP. HAND	OPPOSITE HAND
DIM.	DIMENSION	PLYWD.	PLYWOOD
DIMS.	DIMENSIONS	P.T.	PRESSURE TREATED
DN.	DOWN	PVC	POLYVINYL CHLORIDE
DR.	DOOR	R.C.P.	REFLECTED CEILING PLAN
DWG.	DRAWING	R.D.	ROOF DRAIN
EA.	EACH	REQD.	REQUIRED
ELEC.	ELECTRICAL	RM.	ROOM
ELEV.	ELEVATION OR ELEVATOR	SIM.	SIMILAR
EPDM	ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING)	SS	STAINLESS STEEL
EQ.	EQUAL	STL.	STEEL
EXIST.	EXISTING	STRUCT.	STRUCTURAL
EXP. JT.	EXPANSION JOINT	T	TEMPERED
EXT.	EXTERIOR	T&G	TONGUE AND GROOVE
E.W.C.	ELECTRIC WATER COOLER	TELE.	TELEPHONE
F.D.	FLOOR DRAIN	TLT.	TOILET
F.E.	FIRE EXTINGUISHER	T.O.	TOP OF
F.E.C.	FIRE EXTINGUISHER CABINET	T.O.S.	TOP OF STEEL
FLR.	FLOOR	TYP.	TYPICAL
F.O.	FACE OF	U.O.N.	UNLESS OTHERWISE NOTED
		V.I.F.	VERIFY IN FIELD
		W/	WIDTH
		W/	WITH
		WD.	WOOD

DRAWING LIST			
SHEET NO.	SHEET NAME	CURRENT REVISION	CURRENT REVISION DATE
GENERAL			
CVR	COVER SHEET		
ARCHITECTURAL DEMOLITION			
AD01	DEMOLITION PLANS		
ARCHITECTURE			
A101	FLOOR PLANS		
A121	REFLECTED CEILING PLANS		
A401	INTERIOR ELEVATIONS & TOILET DETAILS		
A701	FINISH SPECIFICATIONS & SCHEDULE		
PLUMBING			
P100	PLBG NOTES, SCHEDS AND SPECIFICATIONS		
P200	PLBG FLOOR PLANS - 3RD FLOOR		
MECHANICAL			
M101	HVAC RENOVATION FLOOR PLANS		
M301	HVAC NOTES, DTL'S, SCH'D'S, AND SPECS		
ELECTRICAL			
E100	THIRD FLOOR RESTROOMS ELECTRICAL PLANS		



2 THIRD FLOOR KEY PLAN  
1/32" = 1'-0"  
PLAN NORTH TRUE NORTH

#### DRAWING CONVENTIONS

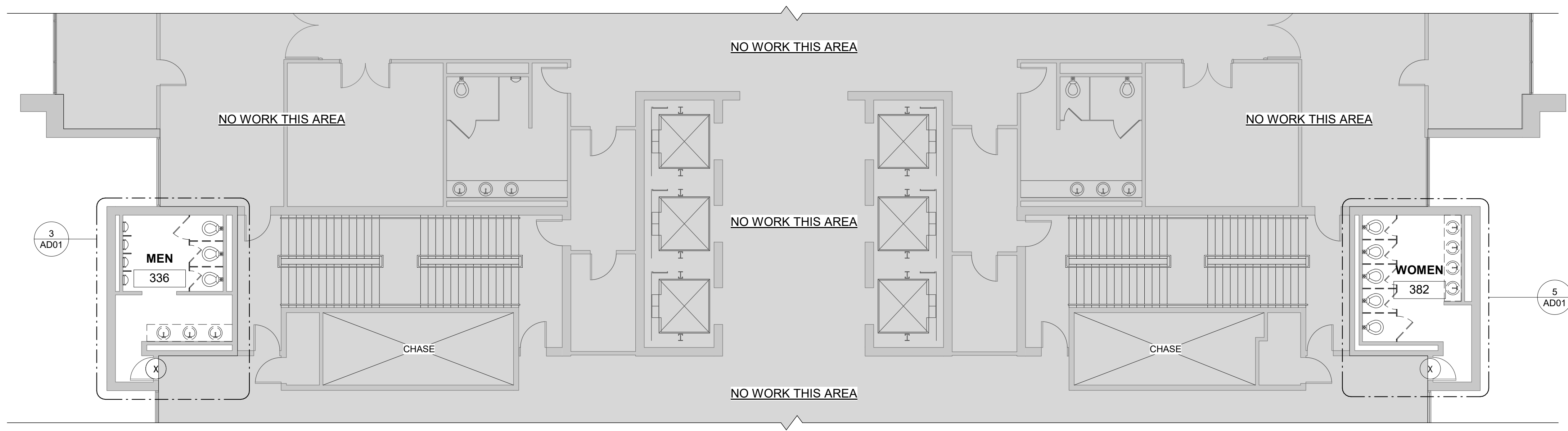
IDENTITY SYMBOLS	REFERENCE SYMBOLS	LINE SYMBOLS
<p>1 View Name 1/8" = 1'-0"</p> <p>NORTH ARROW</p> <p>LEVEL NAME ELEVATION</p> <p>REVISION CLOUD</p> <p>COLUMN GRID</p> <p>BLOWUP DETAIL</p>	<p>1 A101 BUILDING SECTION</p> <p>1 A101 WALL SECTION</p> <p>1 A101 ELEVATION</p> <p>A A101 B INTERIOR ELEVATION</p> <p>A401 EXTERIOR ELEVATION</p> <p>2 A401</p> <p>2'-0" 2'-0" DIMENSION CONVENTIONS</p> <p>12 6 SLOPE CONVENTION</p>	<p>--- CENTER LINE</p> <p>- - - - - DEMOLISHED</p> <p>- - - - - HIDDEN</p> <p>- - - - - OVERHEAD</p> <p>--- PROPERTY LINE</p> <p>◆ --- ◆ MATCH LINE</p> <p>--- 1 HOUR RATING</p> <p>--- 2 HOUR RATING</p> <p>--- 3 HOUR RATING</p> <p>--- 4 HOUR RATING</p> <p>--- EXIT SEPARATION</p>

Note to Permitting Authority: Studio 2LR, Inc. and their consultants are not under contract with the Owner to provide construction administration services for this project.

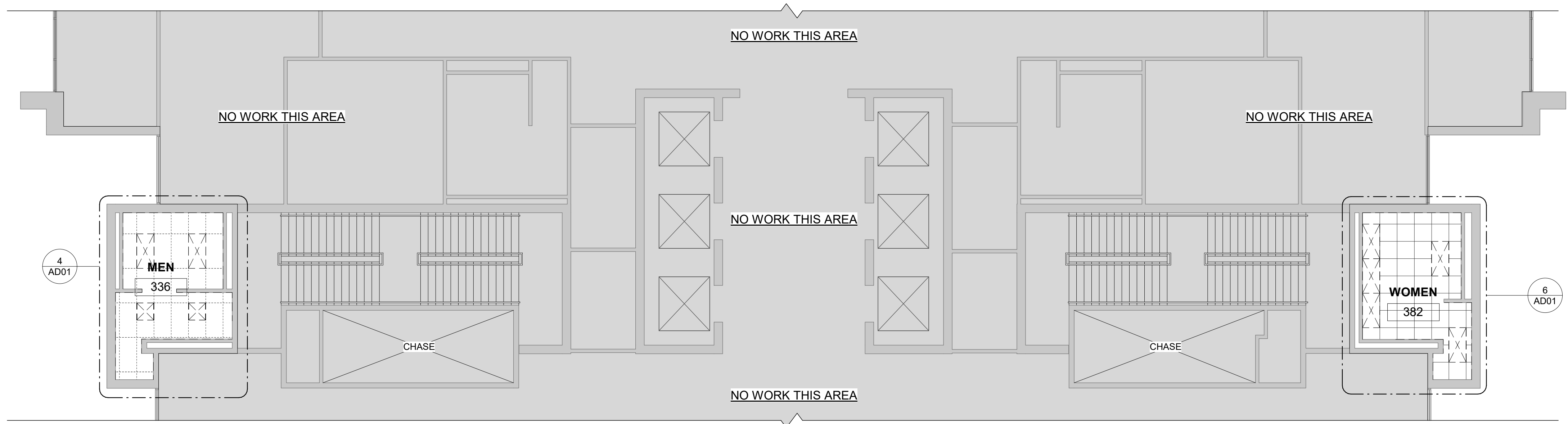
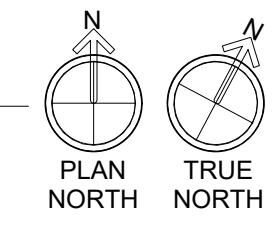
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1/4/2021 9:52:27 AM

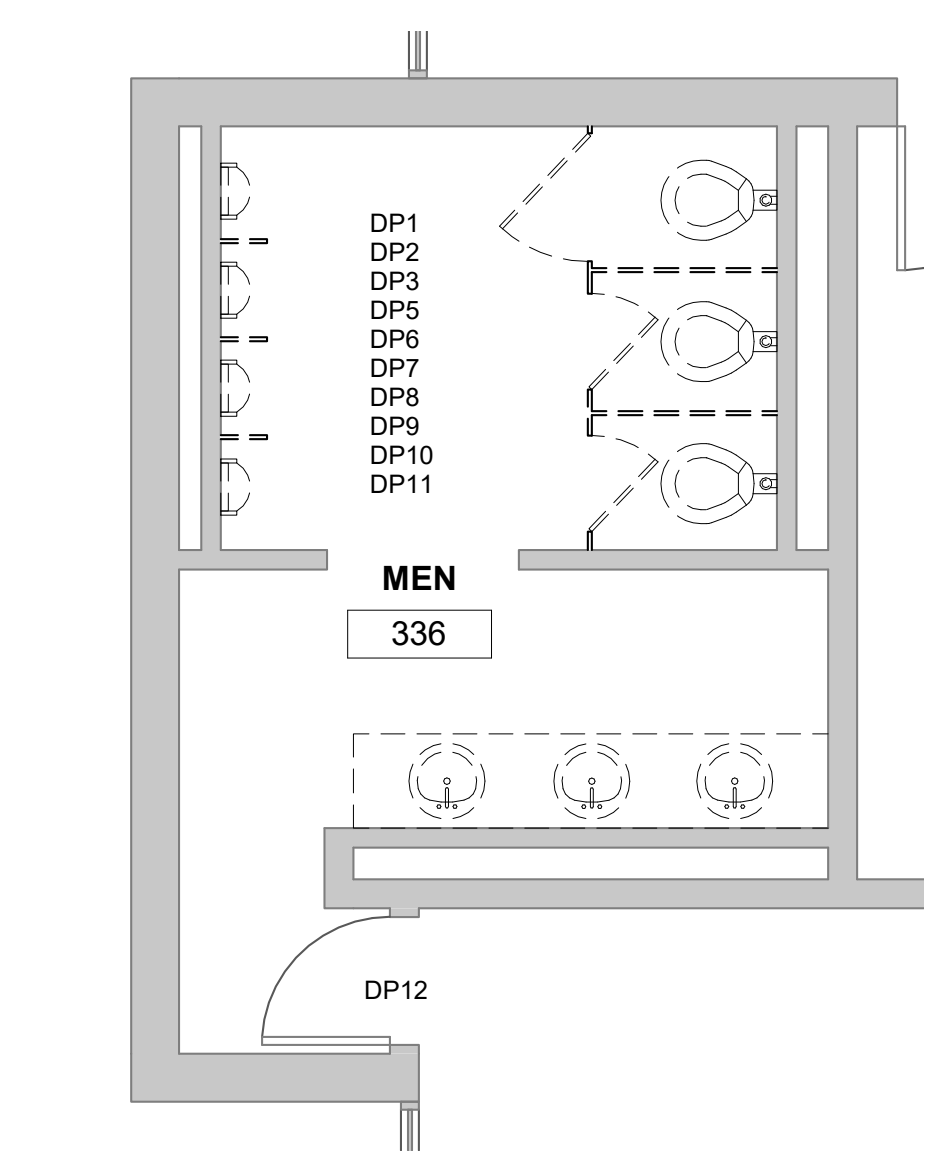
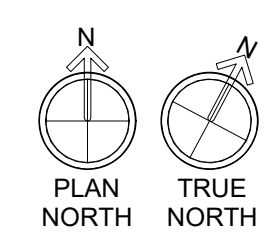
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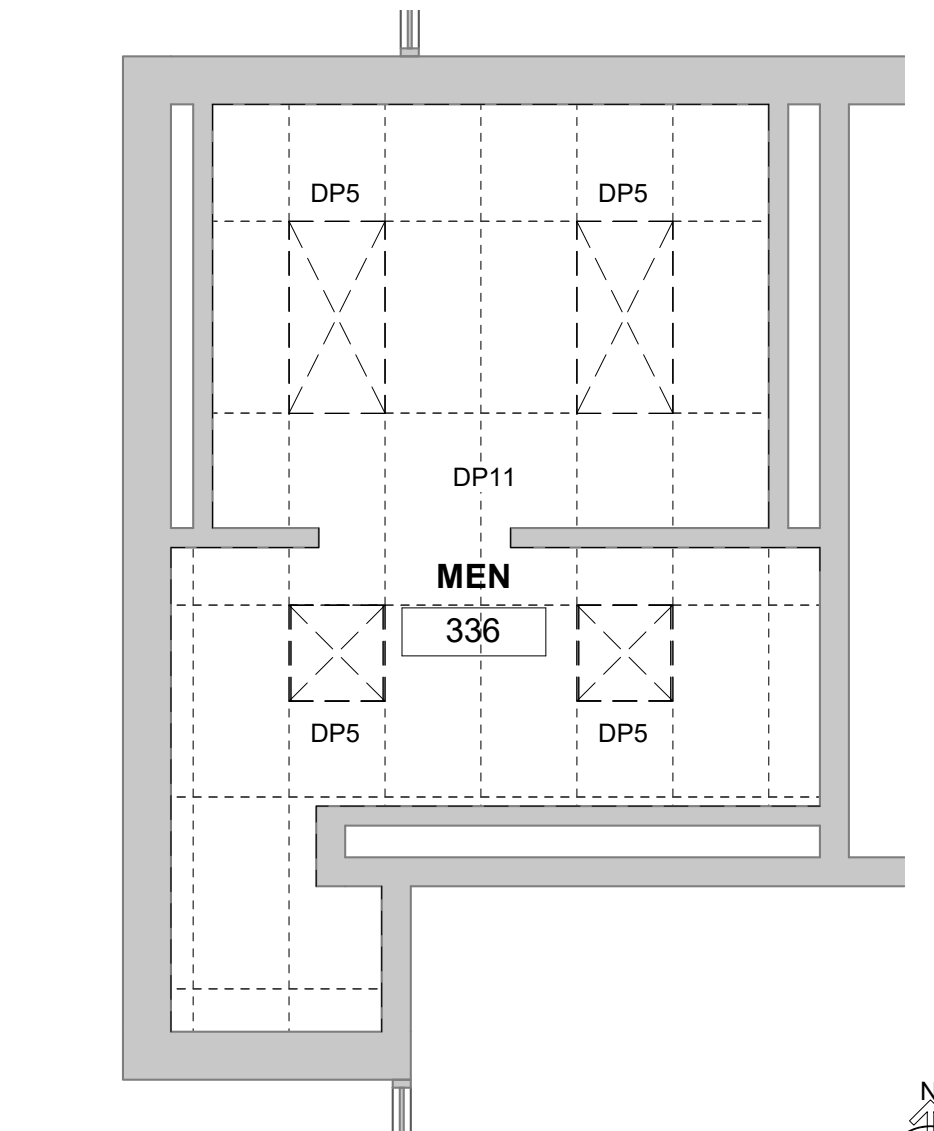
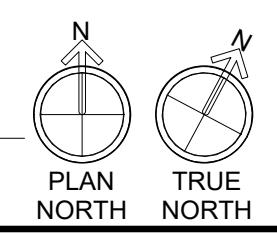
1 DEMOLITION PLAN  
1/8" = 1'-0"



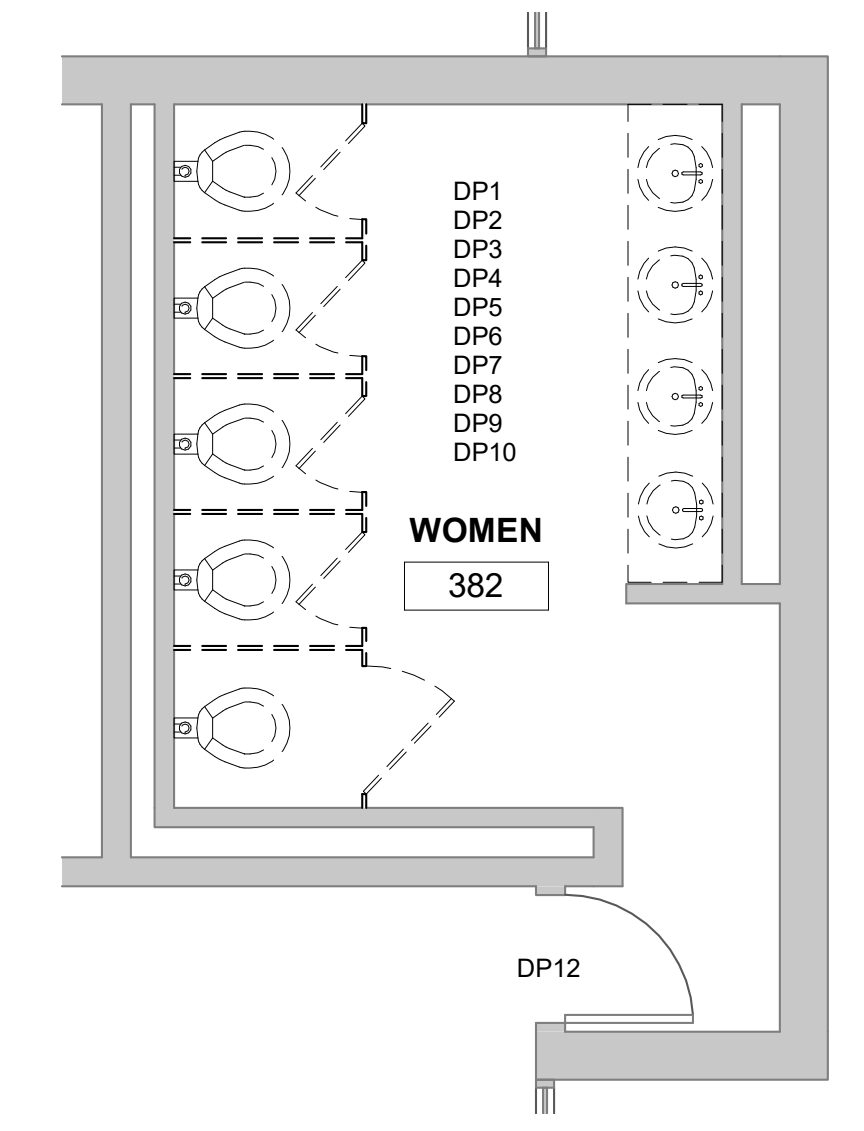
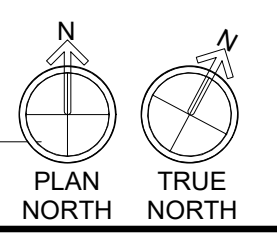
2 THIRD FLOOR REFLECTED CEILING DEMOLITION PLAN  
1/8" = 1'-0"



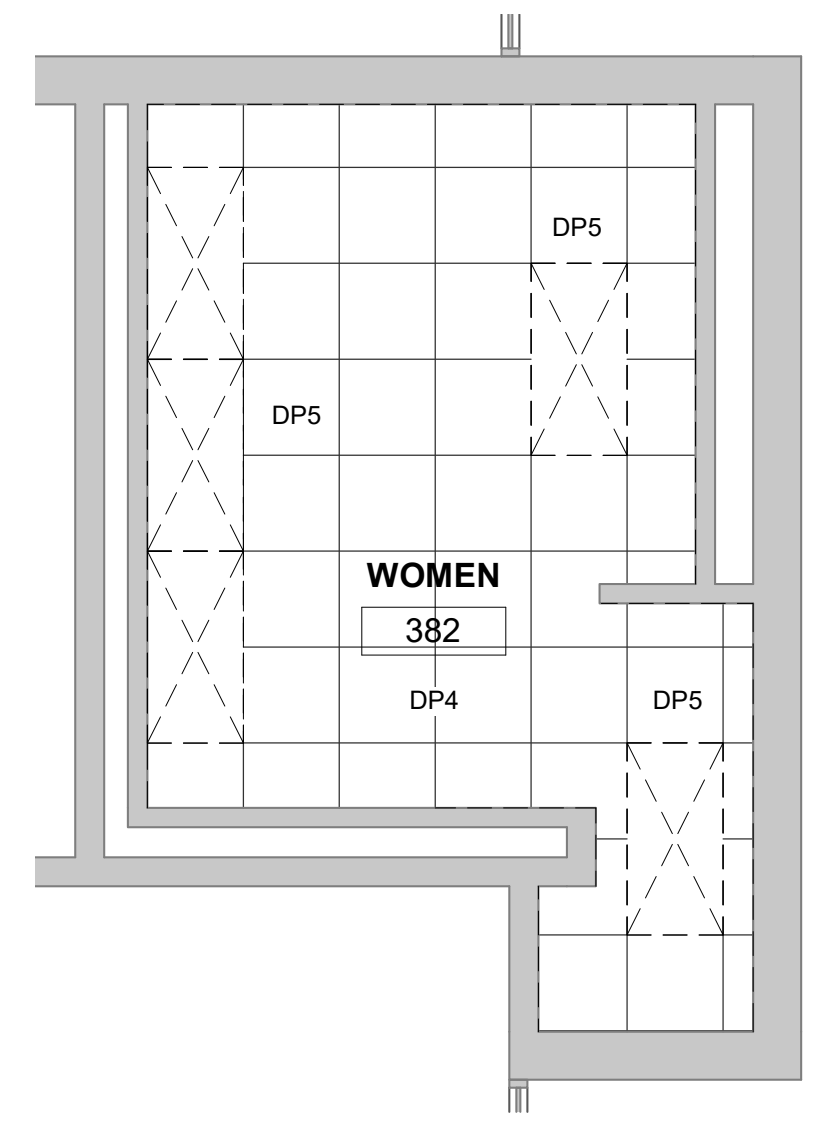
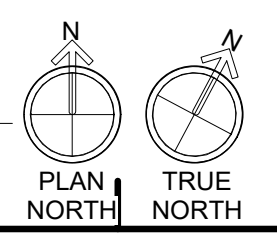
3 ENLARGED DEMOLITION PLAN - 336  
1/4" = 1'-0"



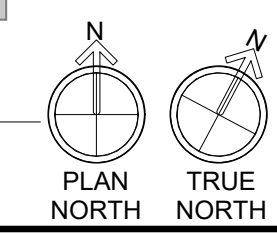
4 ENLARGED DEMOLITION RCP - 336  
1/4" = 1'-0"



5 ENLARGED DEMOLITION PLAN - 382  
1/4" = 1'-0"



6 ENLARGED DEMOLITION RCP - 382  
1/4" = 1'-0"



**GENERAL DEMOLITION NOTES**

- EXISTING CONDITIONS AND DEMOLITION NOTES BASED ON EXISTING DRAWINGS BUT NOT ON AS BUILTS. GENERAL CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO START OF CONSTRUCTION. IF GENERAL CONTRACTOR DISCOVERS EXISTING CONDITIONS DIFFER FROM THOSE SHOWN, NOTIFY OWNER OR ARCHITECT IMMEDIATELY.
  - GENERAL CONTRACTOR TO PROTECT ALL ADJACENT SURFACES TO REMAIN FROM DAMAGE DURING DEMOLITION. GENERAL CONTRACTOR TO REPAIR/REPLACE ANY ADJACENT SURFACES DAMAGED DURING CONSTRUCTION TO MATCH ORIGINAL CONDITIONS.
- SELECTIVE DEMOLITION**
- DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.
  - PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL.
  - DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN, REMOVE DEMOLISHED MATERIALS FROM SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
  - DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. MAINTAIN PORTABLE FIRE SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.
  - MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.
  - REMOVE DECAYED, VERMIN-INFESTED, OR OTHERWISE DANGEROUS OR UNSUITABLE MATERIALS AND PROMPTLY DISPOSE OF OFF-SITE.
  - LOCATE SELECTIVE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS OR FRAMING.
  - SALVAGE ALL WINDOW TREATMENTS FROM EXISTING WINDOW UNITS TO BE REMOVED.
  - REMOVE AND LEGALLY DISPOSE ALL EXISTING PLANT MATERIAL.
- UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS**
- EXISTING SERVICES/SYSTEMS: MAINTAIN EXISTING SERVICES AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
  - SERVICE/SYSTEM REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVICING AREAS TO BE SELECTIVELY DEMOLISHED.
- MASONRY**
- DEMOLISH IN SMALL SECTIONS. CUT MASONRY AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN SAW, THEN REMOVE MASONRY BETWEEN SAW CUTS.
- CLEANING**
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN.
- TEMPORARY SHORING**
- PROVIDE AND MAINTAIN SHORING, BRACING AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF SELECTIVE DEMOLITION.

**DEMOLITION PLAN NOTES**

- EXISTING SHEETROCK JOINT COMPOUND ON CLOSE SIDE HAS TESTED POSITIVE FOR ASBESTOS. ALL SHEETROCK DISTURBANCE, REMOVAL & ABATEMENT IN THESE AREAS TO BE COORDINATED BY OWNER UNDER SEPARATE CONTRACT & SCOPE OF WORK.
- REMOVE EXISTING CERAMIC WALL TILE COMPLETE. PREPARE WALLS FOR CERAMIC WALL TILE.
- REMOVE EXISTING CERAMIC FLOOR TILE AND MARBLE THRESHOLDS COMPLETE. PREPARE SUBFLOOR FOR FLOATING, LEVEL CERAMIC FLOOR TILE.
- EXISTING ACOUSTICAL CEILING GRID AND TILE TO REMAIN.
- REMOVE EXISTING LIGHTS COMPLETE.
- REMOVE EXISTING CERAMIC BASE COMPLETE. PREPARE WALL FOR FINISHES.
- REMOVE EXISTING TOILET ACCESSORIES. DELIVER TO OWNER.
- REMOVE EXISTING TOILET PARTITIONS COMPLETE. PATCH AND REPAIR WALLS FOR TOILET PARTITIONS.
- REMOVE EXISTING SINKS AND VANITIES COMPLETE. PATCH AND REPAIR WALLS FOR SINKS AND VANITIES.
- REMOVE EXISTING TOILETS AND URINALS COMPLETE.
- REMOVE EXISTING CEILING GRID, TILE, AND GRILLES COMPLETE.
- EXISTING DOOR AND FRAME TO REMAIN. PROTECT DURING DEMOLITION AND CONSTRUCTION.

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**South Carolina**

Uof SC

STATE OF SOUTH CAROLINA  
REGISTERED ARCHITECTS

STUDIO 2LR INC.  
Columbia, SC  
No. 100136

STATE OF SOUTH CAROLINA  
REGISTERED ARCHITECT

WILLIAM WHEELER  
COLUMBIA  
4658

1/4/2020

CLIENT NAME  
UNIVERSITY OF SOUTH CAROLINA

PROJECT NAME  
UofSC CLOSE-HIPP 3RD FLR  
TOILET RENOVATIONS

LOCATION  
1705 COLLEGE ST. COLUMBIA, SC

**ISSUED FOR BIDDING - 01/04/2021**

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER **20001**

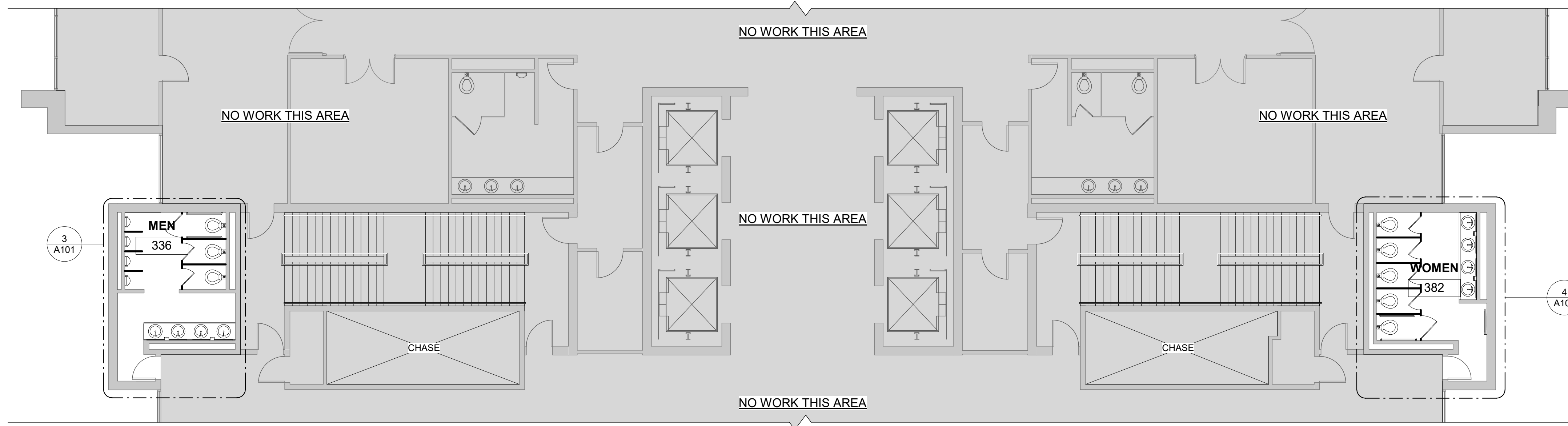
SHEET NUMBER  
**AD01**

SHEET NAME  
**DEMOLITION PLANS**

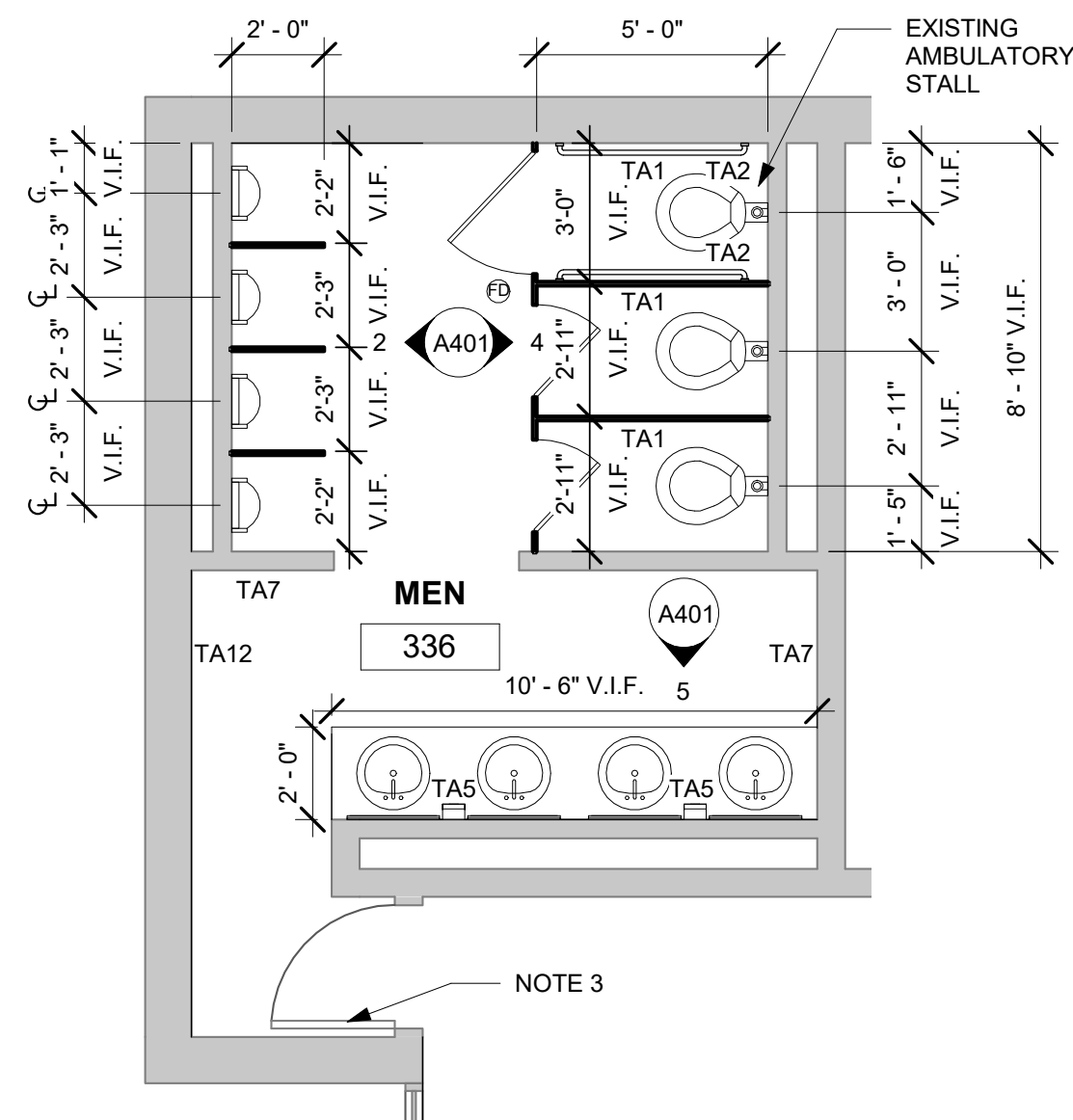
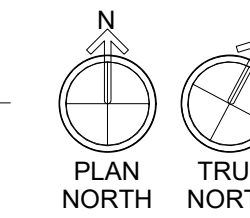
DATE **01/04/2021**

14C0205 3/6/2021 PM

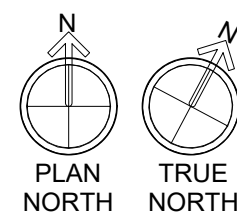
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1 THIRD FLOOR PLAN  
1/8" = 1'-0"

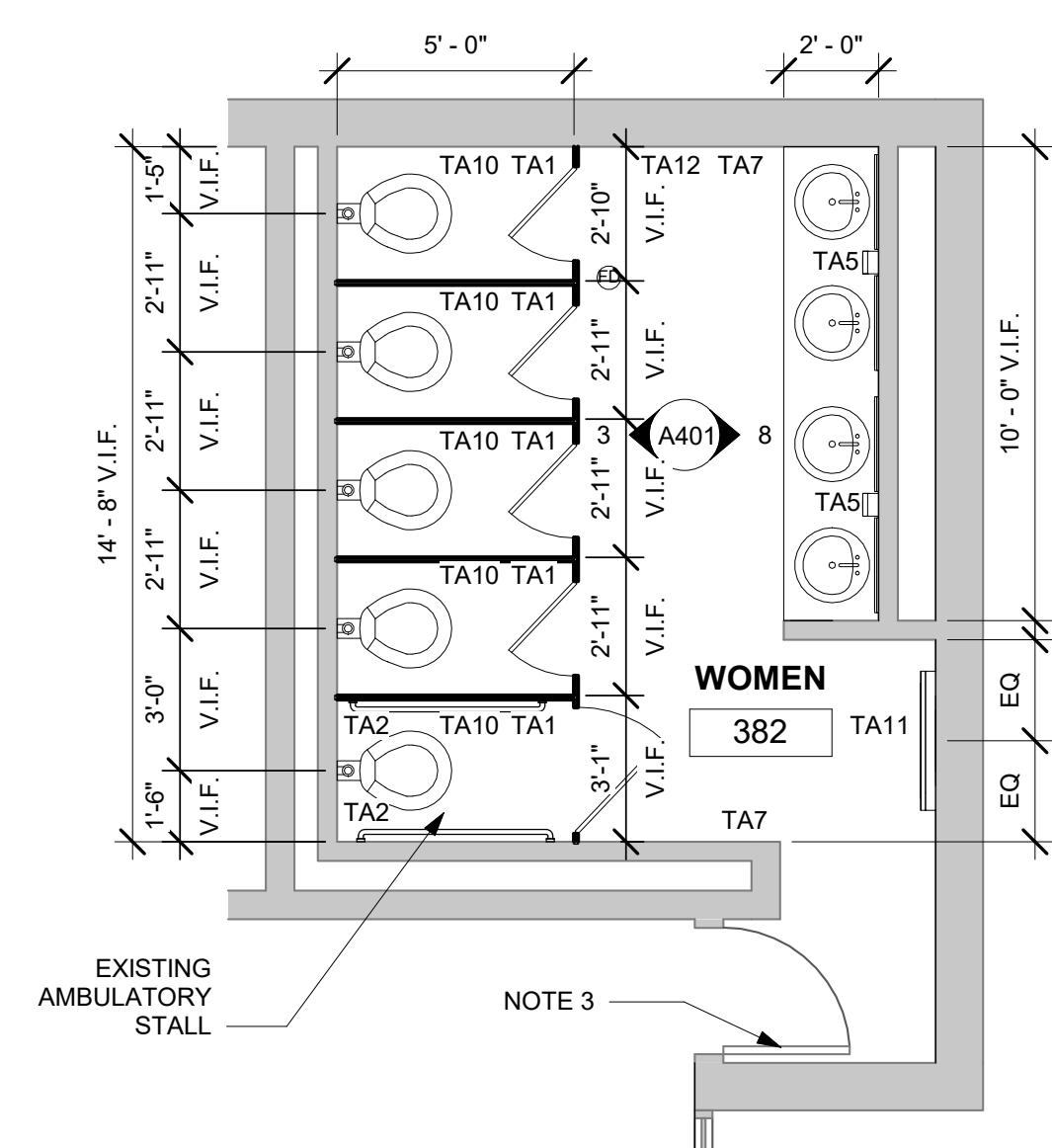


3 ENLARGED PLAN - 336  
1/4" = 1'-0"

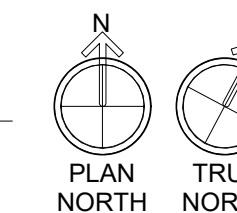


**FLOOR PLAN NOTES**

- CONTRACTOR VERIFY EXISTING FLOOR DRAIN LOCATIONS AND COORDINATE WITH TILE SPECIFICATIONS AND INSTALLATION PER MANUFACTURERS WRITTEN INSTRUCTIONS. TILE INSTALLATIONS TO MEET NTMA GUIDELINES.
- EXISTING PLUMBING CONNECTIONS TO BE REUSED. COORDINATE PLUMBING FIXTURES WITH PLUMBING DRAWINGS.
- EXISTING DOORS TO REMAIN. PROTECT DURING DEMOLITION AND CONSTRUCTION. CLEAN DOORS AND PAINT DOOR FRAMES P1.
- ALL EXISTING CONDITIONS AND DIMENSIONS TO BE FIELD VERIFIED. REFERENCE DEMOLITION PLANS FOR EXTENT OF DEMOLITION.



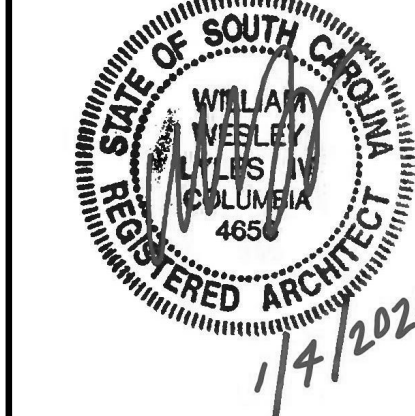
4 ENLARGED PLAN - 382  
1/4" = 1'-0"



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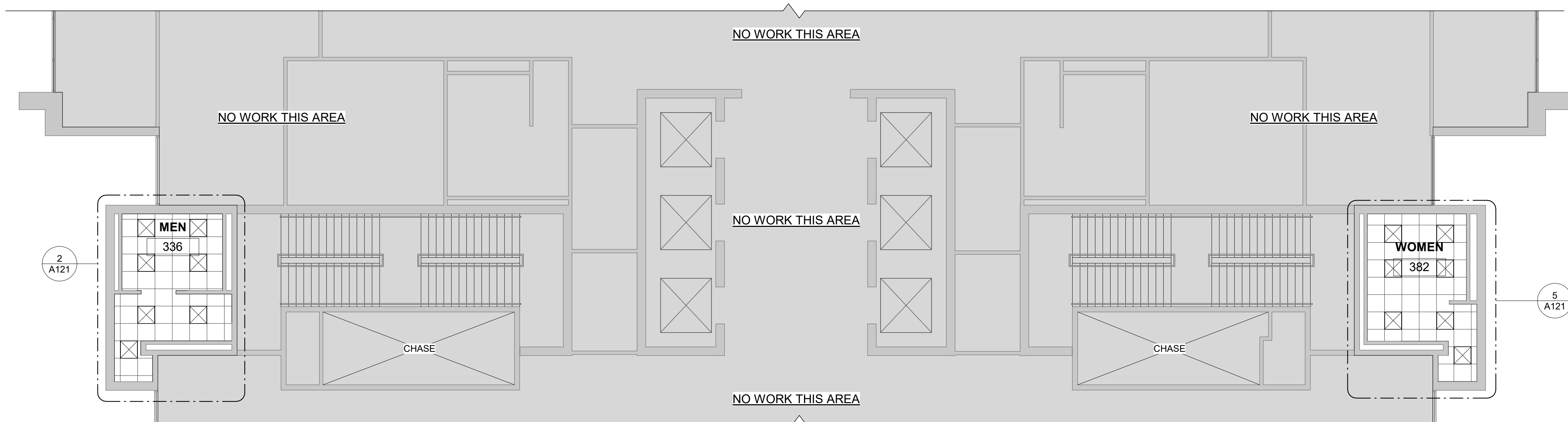
**REVISIONS**

NO.	DATE	DESCRIPTION


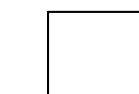



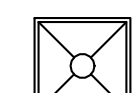
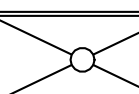



PROJECT NUMBER **20001**  
SHEET NUMBER **A101**  
SHEET NAME **FLOOR PLANS**  
DATE **01/04/2021**

**ISSUED FOR BIDDING - 01/04/2021**

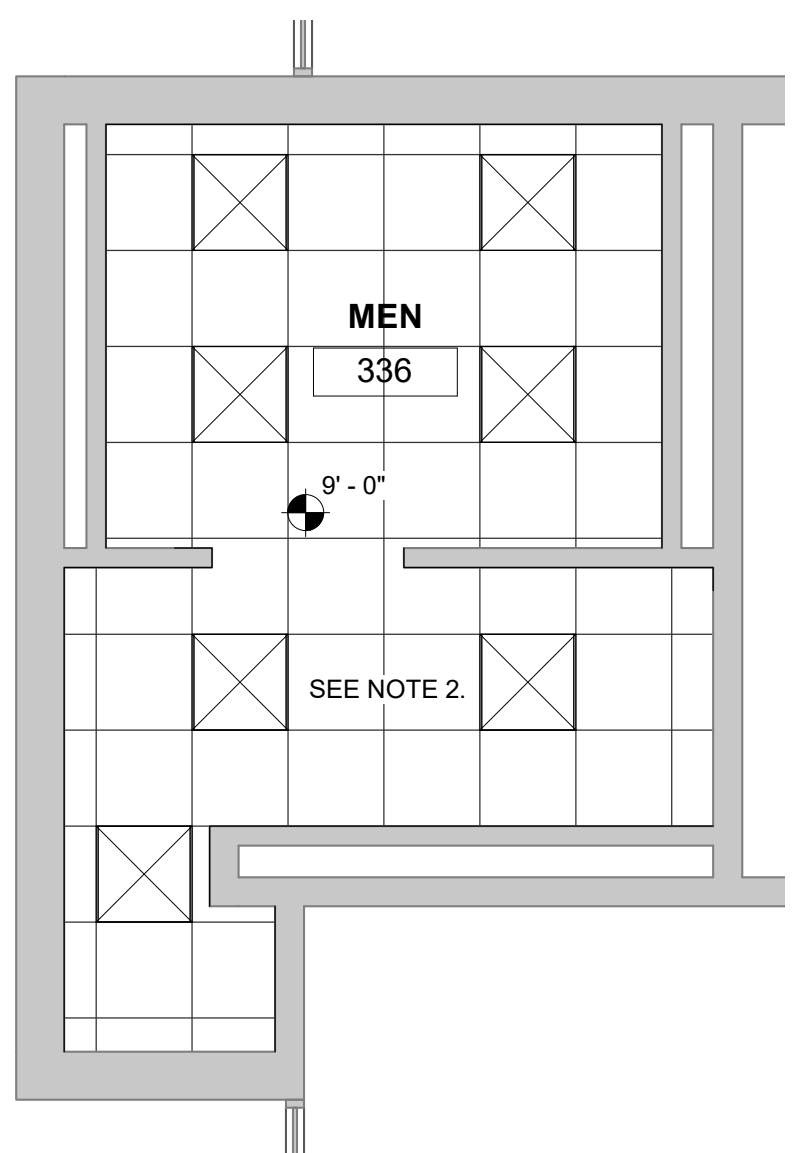
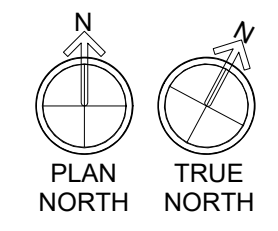
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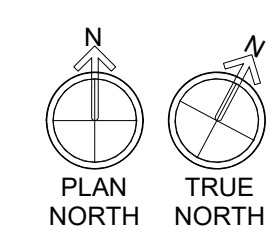
**REFLECTED CEILING PLAN LEGEND**

-  GYPSUM BOARD CEILING. HEIGHT VARIES.
-  2'x2' ACOUSTICAL CEILING TILE. HEIGHT VARIES.
-  EF EXHAUST FAN
-  X-X' AFF CEILING HEIGHT ABOVE FINISHED FLOOR
-  RECESSED CAN LIGHT
-  2'x2' LIGHTING FIXTURE
-  2'x4' LIGHTING FIXTURE
-  1'x4' LIGHTING FIXTURE
-  2'x2' MECHANICAL DIFFUSER
-  2'x2' MECHANICAL RETURN

1 THIRD FLOOR REFLECTED CEILING PLAN  
1/8" = 1'-0"

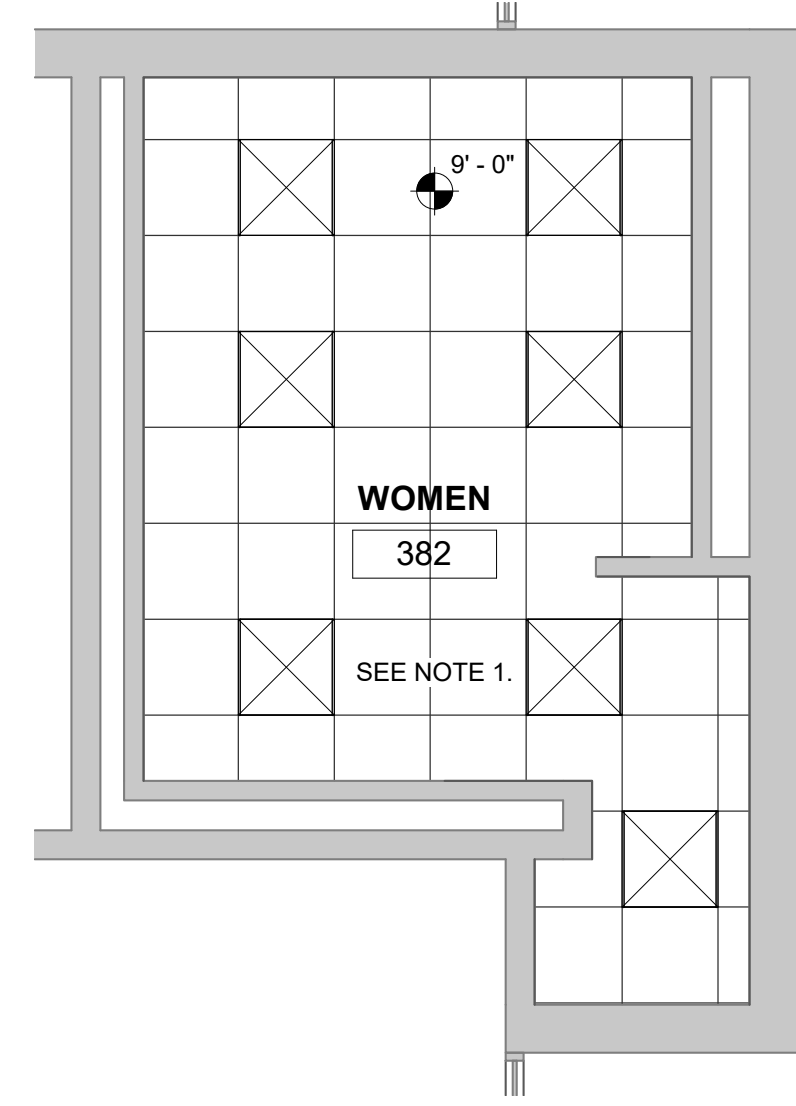


2 ENLARGED RCP - 336  
1/4" = 1'-0"

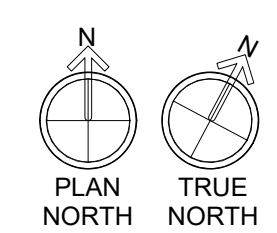


**REFLECTED CEILING PLAN NOTES**

1. EXISTING ACOUSTICAL CEILING GRID AND TILE IN ROOM 382 TO REMAIN.
2. ACOUSTICAL CEILING GRID AND TILE IN ROOM 336 TO BE CONTRACTOR PROVIDED.
3. THIS BUILDING CONTAINS ASBESTOS. ASBESTOS ABATEMENT, AS REQUIRED FOR THE SCOPE OF WORK, TO BE PROVIDED BY OWNER. CONTRACTOR TO ASSESS ALL AREAS UNDER SCOPE OF WORK TO DETERMINE IF ABATEMENT HAS BEEN COMPLETED PRIOR TO COMMENCING WORK. IF ANY ADDITIONAL AREAS REQUIRE ABATEMENT TO ACHIEVE COMPLETED PROJECT, CONTRACTOR IS TO STOP WORK IN AFFECTED AREA AND IMMEDIATELY CONTACT THE OWNER FOR REVIEW, ASSESSMENT, AND ABATEMENT IF REQUIRED.
4. ALL PROJECT CEILINGS AND CEILING ELEMENTS TO BE INSTALLED PER THE REQUIREMENTS OF SEISMIC DESIGN CATEGORY C PER IBC 2018 UNLESS NOTED OTHERWISE IN THE PROJECT DOCUMENTS. GC COORDINATE WITH ARCHITECT/ INTERIOR DESIGNER AS NEEDED.
5. COORDINATE MECHANICAL GRILLE LOCATIONS WITH MECHANICAL DRAWINGS.
6. COORDINATE LIGHT FIXTURES WITH ELECTRICAL DRAWINGS.



5 ENLARGED RCP - 382  
1/4" = 1'-0"



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**South Carolina**



CLIENT NAME  
UNIVERSITY OF SOUTH CAROLINA

PROJECT NAME  
**UofSC CLOSE-HIPP 3RD FLR TOILET RENOVATIONS**

LOCATION  
1705 COLLEGE ST. COLUMBIA, SC

**REVISIONS**

NO.	DATE	DESCRIPTION

PROJECT NUMBER **20001**

SHEET NUMBER  
**A121**

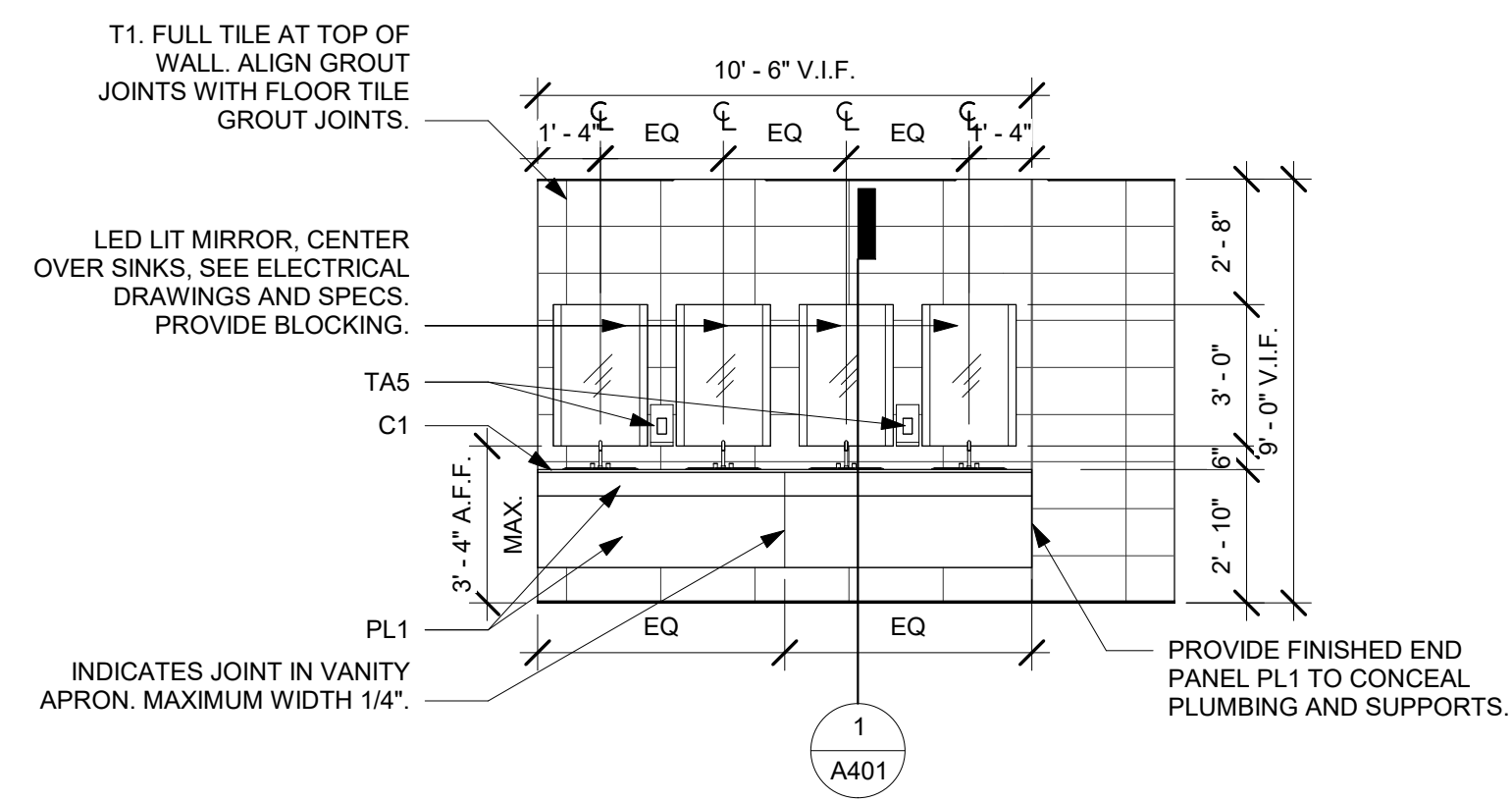
SHEET NAME  
**REFLECTED CEILING PLANS**

DATE **01/04/2021**

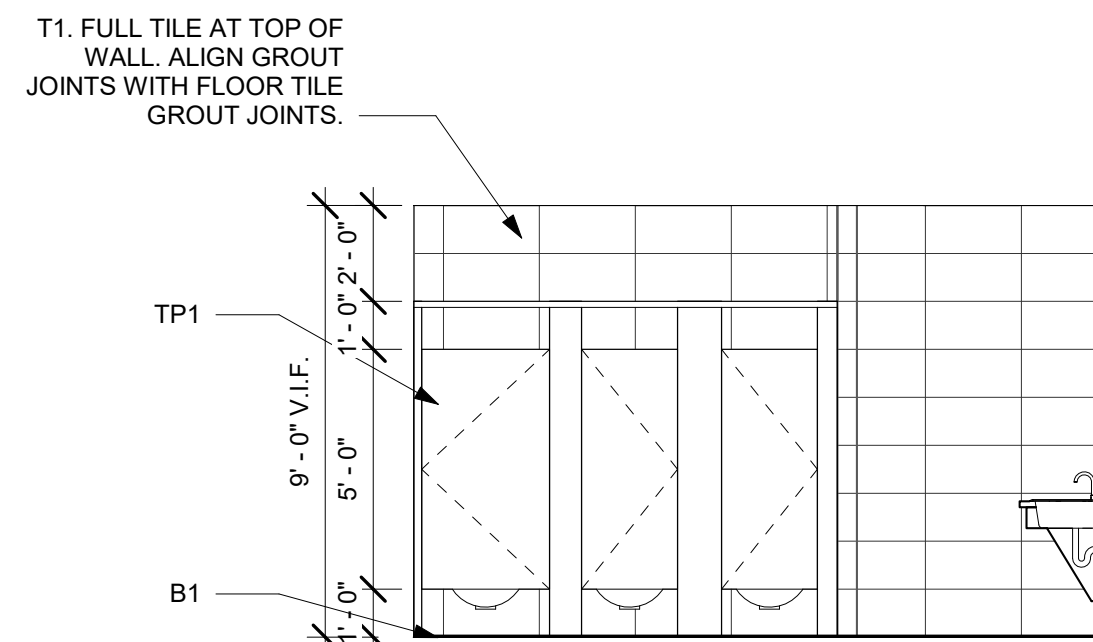
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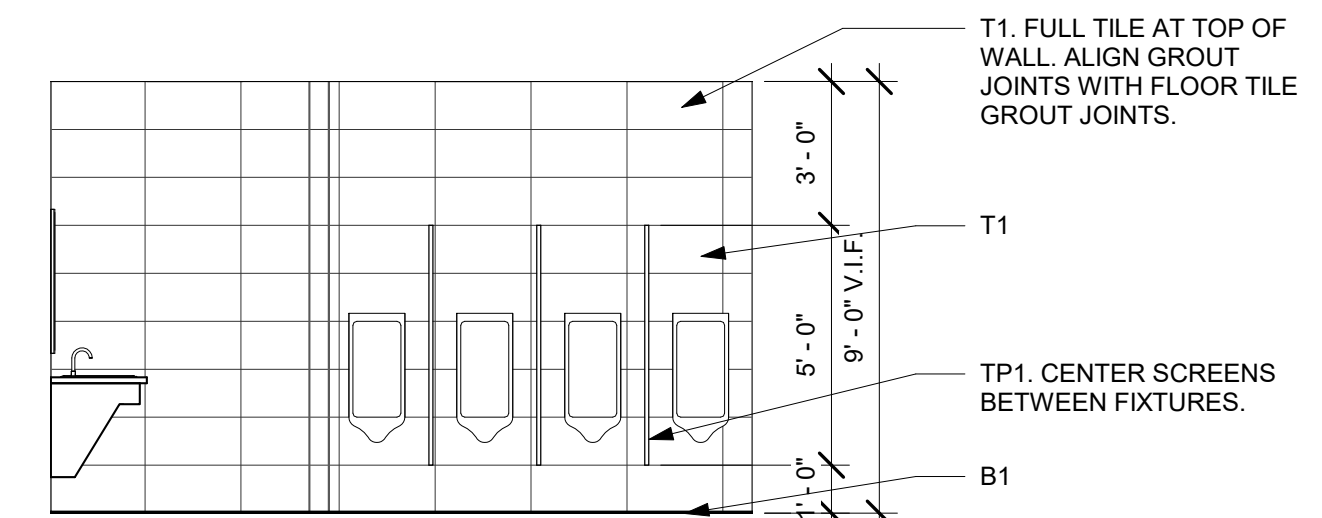
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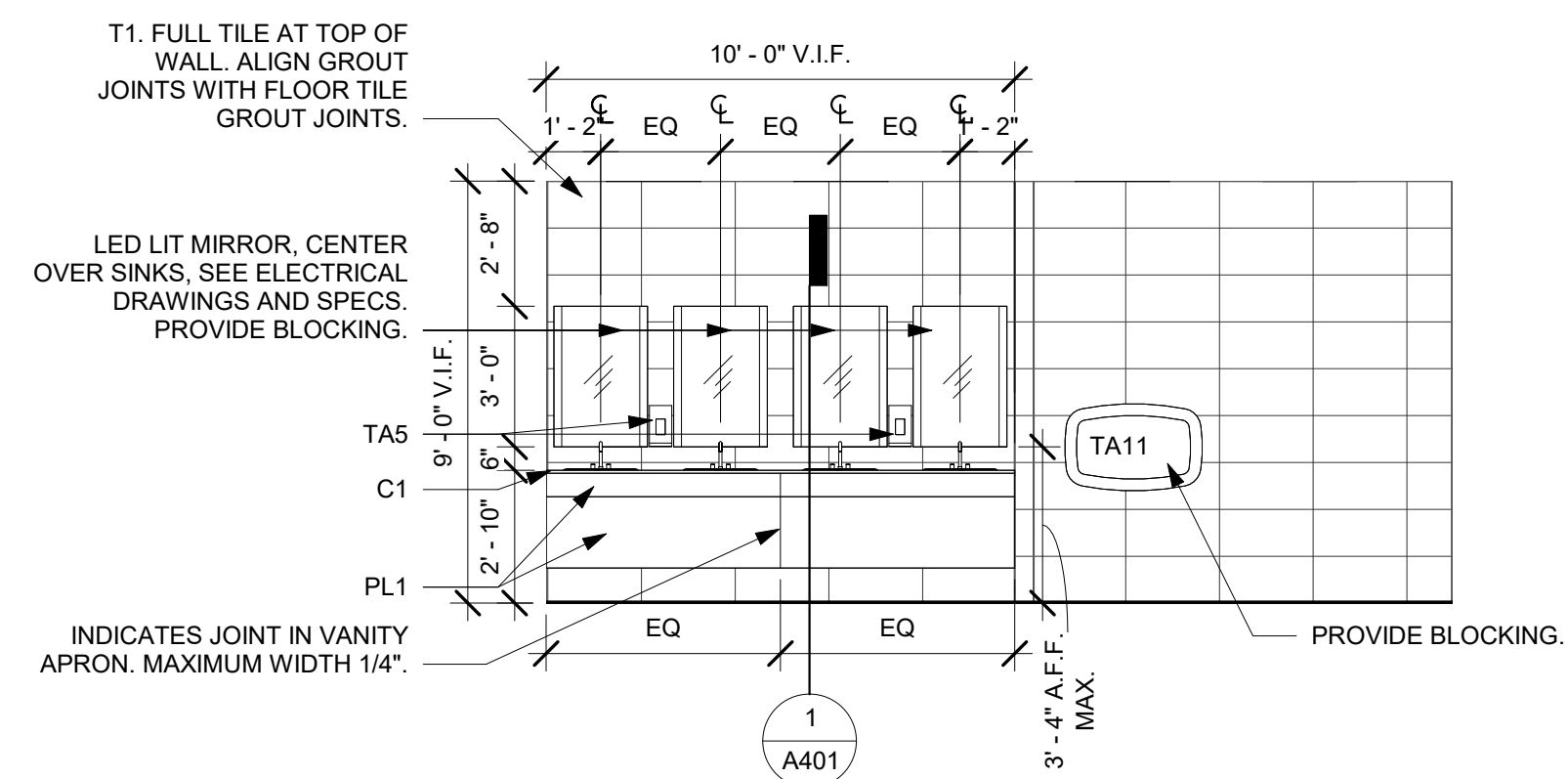
5 INTERIOR ELEVATION - 336 S  
1/4" = 1'-0"



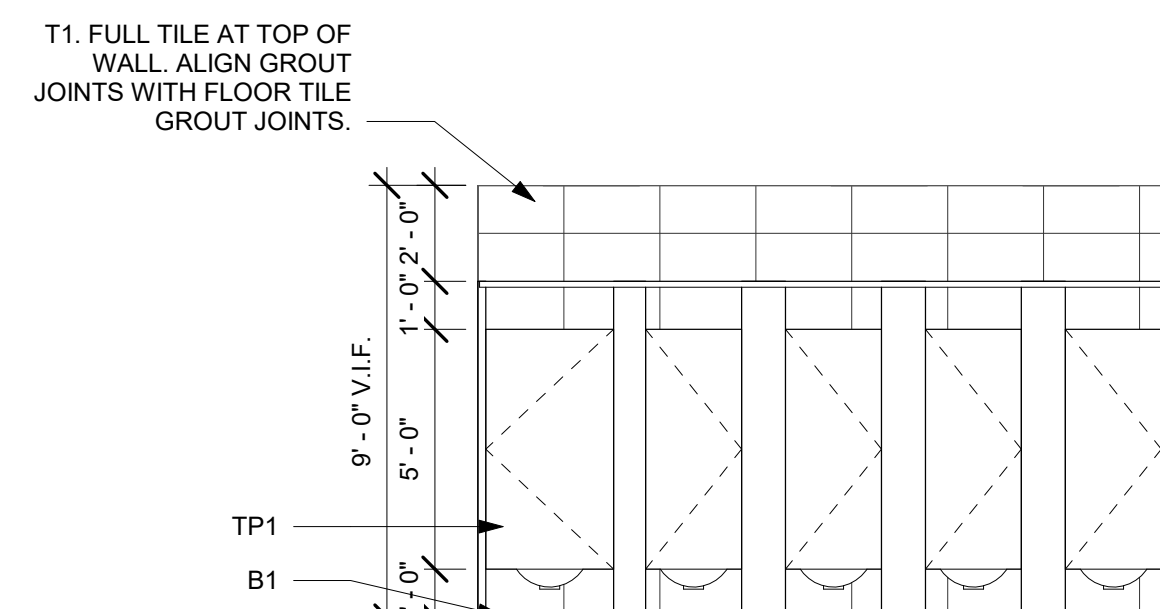
4 INTERIOR ELEVATION - 336 E  
1/4" = 1'-0"



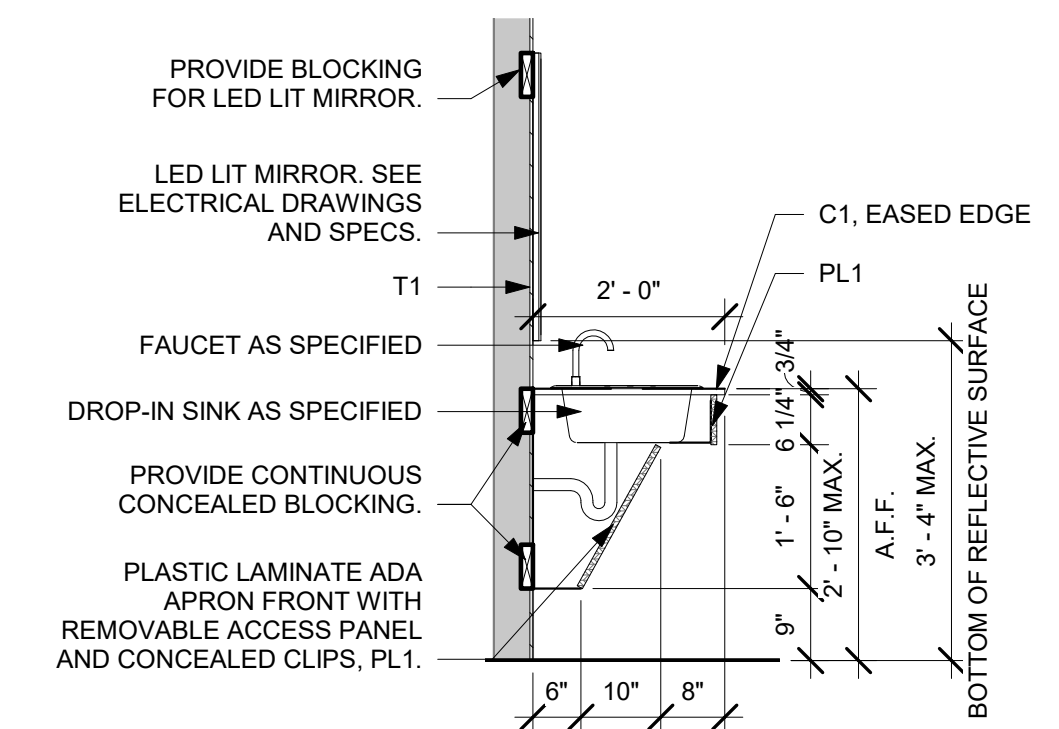
2 INTERIOR ELEVATION - 336 W  
1/4" = 1'-0"



8 INTERIOR ELEVATION - 382 E  
1/4" = 1'-0"



3 INTERIOR ELEVATION - 382 W  
1/4" = 1'-0"



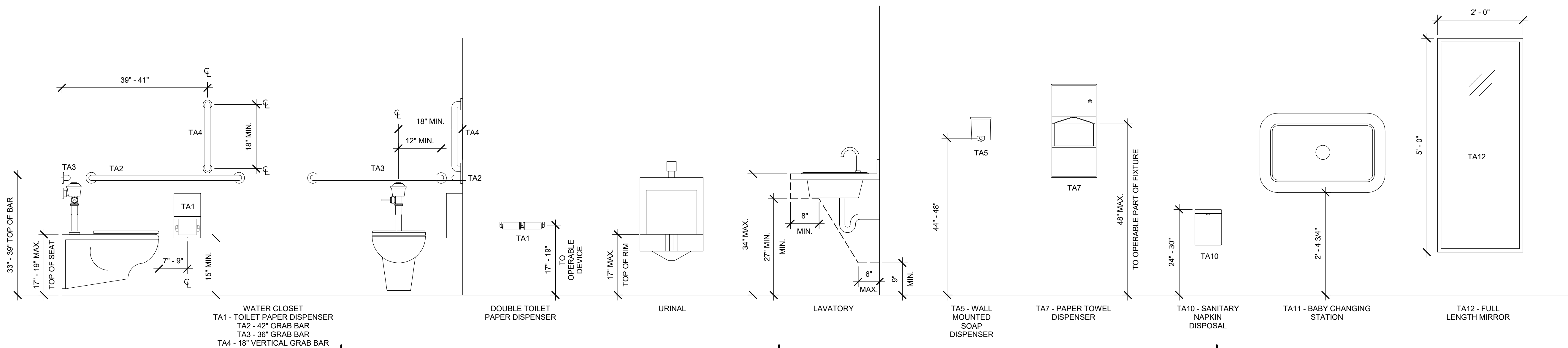
1 TYP. VANITY SECTION  
1/2" = 1'-0"

**TOILET ACCESSORIES**

- TA1 TOILET TISSUE DISPENSER
- TA2 GRAB BAR 42"
- TA3 GRAB BAR 36"
- TA4 GRAB BAR 18" VERTICAL
- TA5 SOAP DISPENSER
- TA6 NOT USED
- TA7 PAPER TOWEL DISPENSER
- TA8 NOT USED
- TA9 NOT USED
- TA10 SANITARY NAPKIN DISPOSAL
- TA11 BABY CHANGIN STATION
- TA12 FULL LENGTH MIRROR

**TOILET ACCESSORY NOTES**

1. GC COORD. ALL ACCESSORIES WITH OWNER.
2. INSTALL ALL TOILET ACCESSORIES PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND PER ADA AND ANSI A117.1 GUIDELINES AS REQUIRED.
3. GC FURNISH AND INSTALL BLOCKING AS REQUIRED FOR ALL TOILET ACCESSORIES.
4. INSTALL ADA SIGNAGE PER ADA AND ANSI A117.1
5. COORDINATE INSTALLATION OF LED LIT MIRRORS WITH ELECTRICAL DRAWINGS.



**ISSUED FOR BIDDING - 01/04/2021**

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**South Carolina**  
Uof SC



CLIENT NAME  
UNIVERSITY OF SOUTH CAROLINA  
PROJECT NAME  
**UofSC CLOSE-HIPP 3RD FLR TOILET RENOVATIONS**  
LOCATION  
1705 COLLEGE ST. COLUMBIA, SC

**REVISIONS**

NO.	DATE	DESCRIPTION

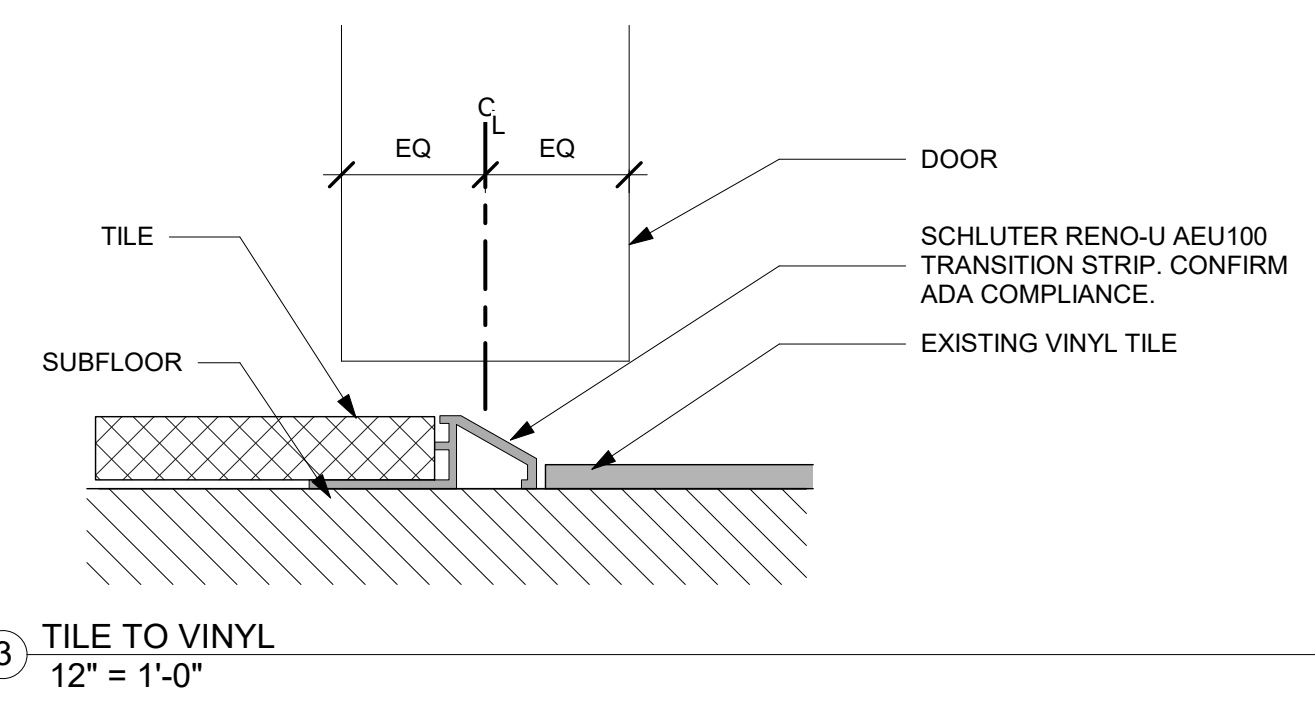
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SHEET NUMBER  
**A401**  
SHEET NAME  
**INTERIOR ELEVATIONS & TOILET DETAILS**  
DATE **01/04/2021**

140225 3.06.19 PM

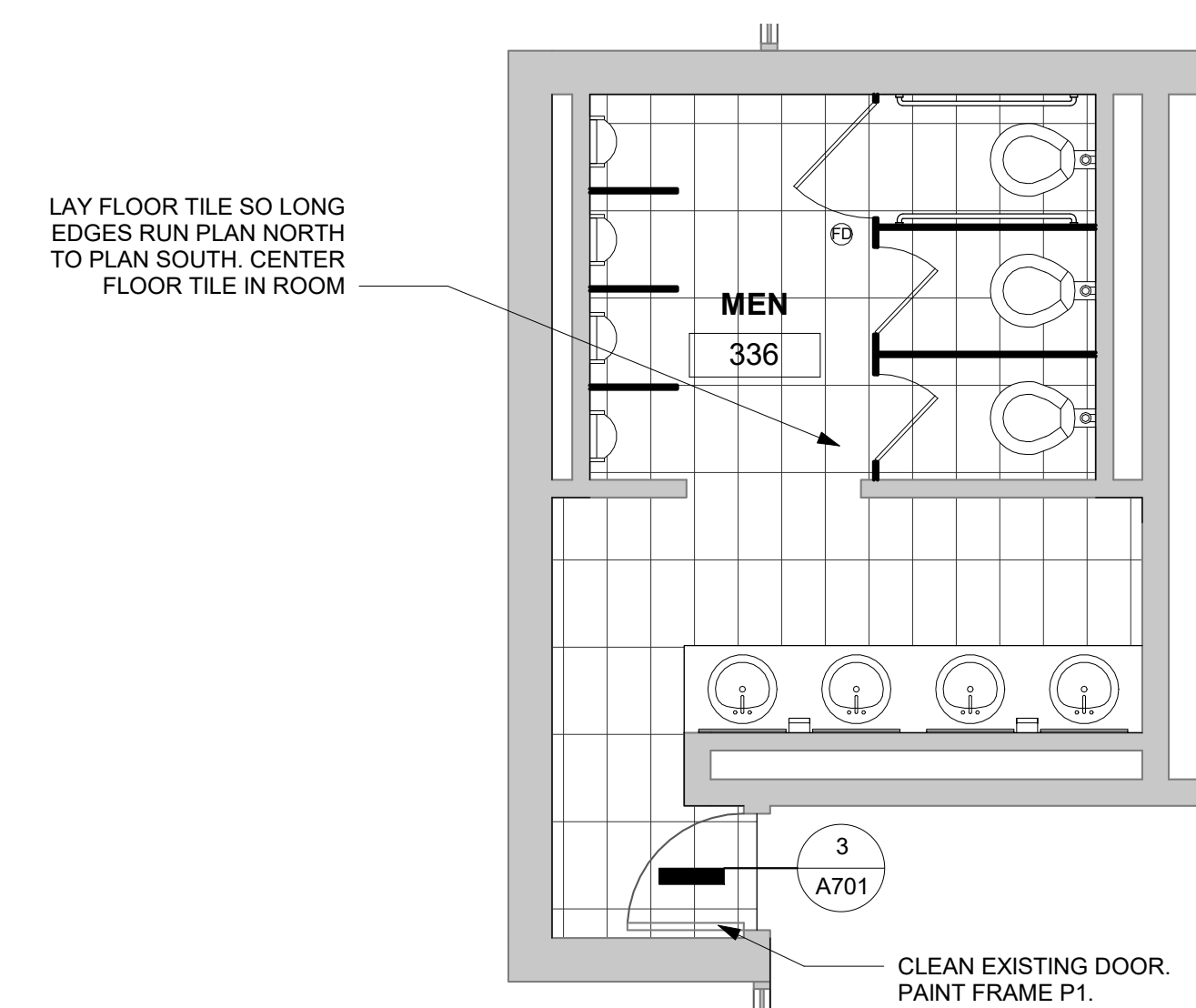
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FINISH SPECIFICATION					
TAG	ITEM	MANUFACTURER	DESCRIPTION	SIZE	NOTES
TILE (T)					
T1	PORCELAIN WALL TILE	ROCA	PATTERN: LINEN; COLOR: WHITE	12" L X 24" W; 3/8" THICK	INSTALL IN HORIZONTAL STACK BOND PATTERN PER INTERIOR ELEVATIONS; ALIGN GROUT JOINTS WITH FLOOR TILE JOINTS; USE GT1.
T2	PORCELAIN FLOOR TILE	MILESTONE	PATTERN: FAROE; COLOR: SEASHELL	12" L X 24" W; 3/8" THICK	INSTALL IN MONOLITHIC PATTERN PER FINISH PLAN; RUN GRAIN AS INDICATED ON FINISH PLANS; CENTER PATTERN IN ROOM; ALIGN GROUT JOINTS WITH WALL TILE GROUT JOINTS; USE GT1.
GROUT (GT)					
GT1	GROUT	LATICRETE	COLOR: #78 STERLING SILVER	--	
PAINT (P)					
P1	DOOR FRAME PAINT	SHERWIN WILLIAMS	COLOR: DOVETAIL #SW7018; FINISH: SATIN	--	
PLASTIC LAMINATE (PL)					
PL1	PLASTIC LAMINATE	FORMICA	PATTERN: DANISH MAPLE; FINISH: MATTE	4' W X 8' L	APRONS AT ALL VANITIES
PL2	PLASTIC LAMINATE	WILSONART	PATTERN: CLASSIC LINEN; COLOR: 4943-38	4' W X 8' L	TOILET PARTITIONS
COUNTERTOP (C)					
C1	QUARTZ	WILSONART	PATTERN: SALAR; COLOR: #Q4028; PRODUCT TYPE 62	65" X 130" SLAB / 2 CM	ALL COUNTERTOPS TO BE CONTINUOUS WITH NO JOINTS.
BASE (B)					
B1	PROFILE TRANSITION	SCHLUTER	PROFILE: DILEX-EKE; COLOR: GRAY	3/16"	
TOILET PARTITIONS (TP)					
TP1	SOLID PHENOLIC FLOOR MOUNTED TOILET PARTITIONS	GENERAL PARTITIONS	PL2 ON BLACK SOLID PHENOLIC CORE. PROVIDE MFR. STANDARD COAT HOOK IN EACH STALL, TYP. PROVIDE SHOP DRAWINGS FOR REVIEW.	--	REFER TO SPECIFICATION SECTION 102113.17

ROOM FINISH SCHEDULE										
NO.	NAME	FLOOR MATERIAL	BASE MATERIAL	CEILING		WALL FINISH				COMMENTS
				MATERIAL	HEIGHT	NORTH	SOUTH	EAST	WEST	
336	MEN	T1	B1	ACT	9'-0"	T2	T2	T2	T2	WALL TILE TO CEILING ON ALL WALLS. CENTER FLOOR TILE PATTERN IN ROOM AS INDICATED ON FINISH PLANS. FLOOR TILE TO CONTINUE BELOW VANITY.
382	WOMEN	T1	B1	EXIST. ACT	9'-0"	T2	T2	T2	T2	WALL TILE TO CEILING ON ALL WALLS. CENTER FLOOR TILE PATTERN IN ROOM AS INDICATED ON FINISH PLANS. FLOOR TILE TO CONTINUE BELOW VANITY.

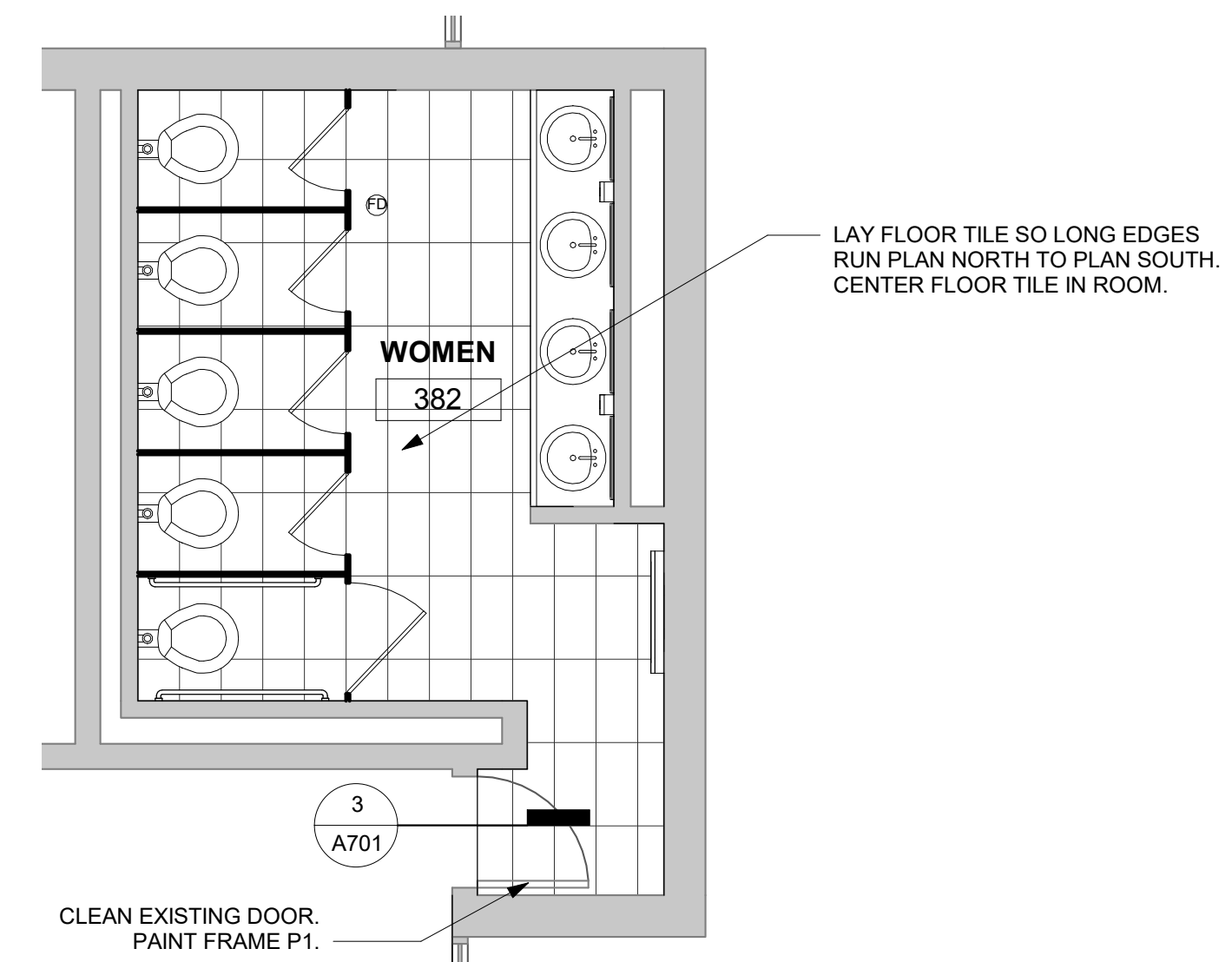


- GENERAL FINISH NOTES**
1. WALL FINISH DIRECTION IS BASED ON PLAN ORIENTATION (I.E. NORTH WALL REFERS TO PLAN NORTH)
  2. PROVIDE CODE COMPLIANT TRANSITION STRIPS WHERE NEEDED.
  3. PREP ALL SUB SURFACES TO RECEIVE NEW FINISH PER MANUFACTURER'S WRITTEN INSTRUCTIONS
  4. ALL FINISHES TO BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO ORDERING/FABRICATING.
  5. ALL DIMENSIONS ARE FROM EXISTING CONDITIONS. VERIFY IN FIELD AND CONTACT ARCHITECT IF DISCREPANCIES PRIOR TO INSTALLATION.
  6. TRANSITIONS AT DOORWAYS TO OCCUR AT CENTERLINE OF CLOSED DOOR (SEE DETAIL). PROVIDE FLOOR TRANSITION STRIPS BETWEEN NEW AND EXISTING FLOORING. CONTRACTOR CONFIRM ALL LOCATIONS.



1 FINISH PLAN - 336  
1/4" = 1'-0"

PLAN NORTH TRUE NORTH



2 FINISH PLAN - 382  
1/4" = 1'-0"

PLAN NORTH TRUE NORTH

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**South Carolina**

Uof SC



CLIENT NAME  
UNIVERSITY OF SOUTH CAROLINA

PROJECT NAME  
UofSC CLOSE-HIPP 3RD FLR TOILET RENOVATIONS

LOCATION  
1705 COLLEGE ST. COLUMBIA, SC

**ISSUED FOR BIDDING - 01/04/2021**

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER **20001**

SHEET NUMBER **A701**

SHEET NAME **FINISH SPECIFICATIONS & SCHEDULE**

DATE **01/04/2021**

140223 3.05.18 PFM

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PLUMBING SPECIFICATIONS

1.1 SCOPE:

A. Provide all related equipment, labor, materials, excavation and backfill, operations and accessories required for the installation of complete and quietly operating plumbing systems, in accordance with the plans and specifications. This shall include the following:

- 1. Waste Piping
2. Domestic Hot and Cold Water Piping
3. Pipe Hangers and Supports
4. Plumbing Fixtures and Trim
5. Floor Drains
6. Sterilization of Domestic Water Piping and Certificates
7. Warranty
8. Submittals
9. Engineer Site Visits
10. Closeout Documents

1.2 WASTE PIPE:

A. Waste piping shall be cast iron, hubless pipe with heavy duty No-Hub fittings. Pipe and fittings shall be in accordance with ASTM A-74 and WW-P-401d.

- 1. No-Hub pipe and fittings shall be as mfr's by Charlotte Pipe and Foundry or Tyler Pipe.
B. Heavy duty couplings shall be as manufactured by Clamp-All Hi-Torq 125 or Anaheim Husky "Orange" SD-4000 couplings.

1.3 HOT AND COLD WATER PIPING:

A. Water piping shall be hard drawn Type L copper. Use lead-free hard solder (95/5) for all joints located above slab. Use soldering nipples or couplings between screwed and soldered pipe and fittings.

1.4 PIPE SUPPORTS:

- A. Perforated strap hangers, chain or wire will not be permitted on the job.
B. Location and method of support is subject to Engineer's approval. Threaded rods and supplementary steel to span structural supports to accommodate hangers shall be included.
C. Provide copper stand-off brackets for copper pipe.
D. Pipe support systems shall be as manufactured by M-CO Michigan Hanger, Anvil, PHD Hangers, Holdrite or accepted equal.

1.5 FIXTURES:

A. Provide heavy stop valves to replace exist. Stop valves shall be furnished complete with CP risers for lavatories as follows:

Table with columns for Lavatory type and manufacturer (McGuire, EBC, Zurn) and corresponding part numbers.

- 1. Sweat supplies will not be accepted.
2. Stop valves shall be furnished complete with cast brass setscrew escutcheons and chrome plated nipples.

B. Provide 1-1/4"x1-1/4" 17 ga. c.p. cast brass p-traps to replace existing as follows:

Table with columns for P-trap type and manufacturer (McGuire, EBC, Brasscraft, Zurn) and corresponding part numbers.

- 1. P-traps shall be furnished complete with cast brass setscrew escutcheons.

C. Plumbing fixtures shall be as manufactured by Kohler or equal by CECO, American Standard or Zurn.

D. Faucets shall be as manufactured by Chicago or equal by T&S Faucet. Provide vandal resistant and water saving features on all faucets. Vandal features shall include hex socket screws for all handles, key operated aerators and abrasive washers for all single faucet shank fittings.

- 1. Provide water saving features (flow control aerators) as manufactured by Chicago. Flow control fittings shall be rated as follows:

Table with columns for Lavatories and flow rate (0.7 GPM).

E. Flush valves shall be Royal as manufactured by Sloan. Equal flush valves by Zurn will be accepted provided that mfr maintains dual flush technology. Flush valves shall be furnished complete with the following:

- 1. Polished chrome plated cast brass setscrew escutcheons
2. Solid ring pipe support brackets
3. Dual flush feature for water closets: Up for liquid waste, down for solid waste.

Table with columns for Water Closets (1.6 / 1.1 GPF) and Urinals (1.0 GPF).

F. Contractor shall replace existing carriers to accommodate fixtures specified. Coordinate demolition and repair of existing walls with General Contractor as required.

Option: If possible, contractor may reuse existing carriers in lieu of replacing as noted above.

G. Plumbing fixtures shall be as specified below:

P1 Water Closet; Kohler K-4325 elongated siphon jet wall hung water closet, Sloan WES-111-YBC-YK dual flush valve, Bemis 1655SST white open front seat, less cover and bolt caps. Reuse existing mounting height.

P2 Urinal; Kohler K-4991-ET wall hung vitreous china washdown urinal with SS beehive strainer and Sloan 186-0.5-YBC-YK flush valve. Reuse existing mounting heights.

P3 Countertop Lavatory; Kohler K-2917, 19" diameter self-rimming enameled cast iron lavatory, 4" centers, Chicago 802A-CP-VPC faucet with 369 lever handles and McGuire 155A grid strainer.

HB Hosebibb, Toilet; Chicago 293-CP-LK, polished chrome plated hosebibb with loose key operator and integral chrome plated vacuum breaker. Equal hosebibb by T&S Faucet will be accepted.

1.6 FLOOR DRAINS:

A. Floor drains shall be as manufactured by JR Smith or equal by Josam or Zurn will be accepted.

- 1. Provide ProSet Trap Guard "trap primer alternative" and locate below strainer at each floor drain. Equal trap seal by JR Smith or Sure-Seal will be accepted.

(FD): 2005-8A-G-V-NB with 8" diameter nickel bronze strainer, integral backwater valve, galvanized ci body. Outlet size shall match existing pipe size. Provide deep seal p-trap at each drain.

1.7 STERILIZATION OF HOT AND COLD WATER SYSTEMS:

A. Have samples collected from throughout the systems on (2) consecutive days tested by an approved independent testing laboratory and deliver certificates of approval to County Sanitarian, and Owner. All laboratory fees shall be included in the plumbing contract. Contractor shall be responsible for preventing use of water from systems for human consumption until tested and approved. Should any of the tests prove unfavorable, the entire disinfection and sampling process shall be repeated.

B. Certificates indicating negative results of bacteriological tests shall be procured prior to building acceptance. Engineer shall be notified immediately of positive results.

1.8 WARRANTY:

A. Contractor shall warranty all equipment, piping and any other materials specified under this Division of the contract for a period of (1) year from the date of project acceptance unless otherwise indicated. Upon failure of any part(s) of the system during the warranty period, the affected part(s) shall be repaired or replaced promptly by and at the expense of the Contractor.

B. If any component fails during the regular one year period, then the replacement part(s) shall be given an additional (1) year warranty from the time of replacement. This shall continue until the items have given (1) year satisfactory service.

1.9 ENGINEER SITE VISIT REPORTS

A. Engineer site visit reports will be furnished during construction as requested by the Architect / Owner.

B. Contractor is responsible for correcting all construction items and to respond in writing to all deficiencies as directed. Contractor shall contact Engineer immediately if there are any questions or conflicts after receipt of written site visit reports.

C. Furnish response to all punchlist items within 10 days of receipt of report including completion status to maintain timely, planned construction progress without delays or problems.

1.10 SUBMITTALS

A. Contractor shall submit detailed shop drawings, equipment materials cutsheets and product data clearly marked for all items listed below. All product data shall be submitted at one time in detail. Partial submission will not be accepted.

- 1. Pipe Materials
2. Pipe Jointing Materials
3. Floor Drains
4. Plumbing Fixtures and Trim
5. Hosebibbs

1.11 FINAL CLOSEOUT PROCEDURES

A. Contractor shall provide the following items at completion of this project and furnish to the construction manager, Owner or Architect as directed:

- 1. Satisfactory water samples. Place in warranty and maintenance manuals.
2. Minimum (2) copies of completed product submittal data including maintenance manuals as applicable.
3. Vandal keys for all faucet handles including faucet aerators. Minimum (2) of each for all faucets. Place in Ziplock bags.

END OF SPECIFICATIONS

PLUMBING FIXTURE SCHEDULE table with columns: SYMBOL, DESCRIPTION, CW, HU, WASTE, VENT, MOUNTING HEIGHT. Includes entries for P1, P2, P3, and HB.

NOTE: REUSE EXISTING WASTE AND WATER ROUGH-IN LOCATIONS FOR ALL FIXTURES. REPLACE FLUSH VALVES, SUPPLIES AND P-TRAPS WITH SPECIFIED PRODUCTS.

PLUMBING NOTES table with 5 numbered notes regarding scale drawings, coordination, materials, word usage, and concealment.

PLUMBING SYMBOLS table with columns: SYMBOL, DESCRIPTION. Includes symbols for HB, FD, CW, HU, HDC'D, and AFF.

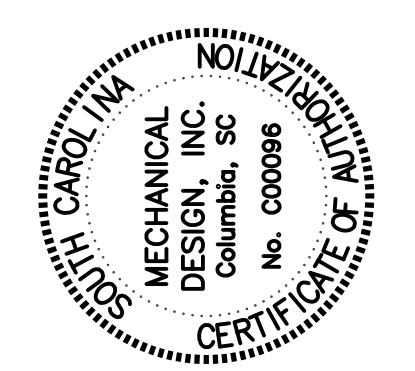
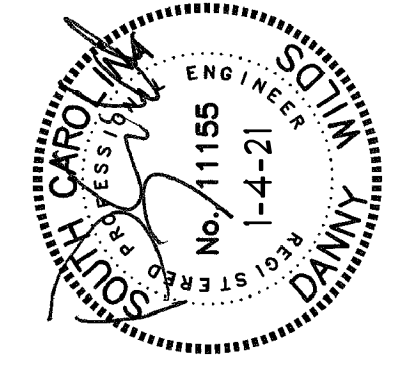
PLUMBING DEMOLITION NOTES table with GENERAL note and 4 numbered items regarding field coordination, demolition, asbestos, and removal of fixtures.

ASBESTOS NOTES table with 4 numbered items regarding awareness of asbestos, licensed personnel, coordination with GC, and inclusion of costs in bid.

SPECIAL NOTE: CONTRACTOR IS REQUIRED TO VISIT PROJECT SITE PRIOR TO SUBMITTING BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXIST CONDITIONS RELATING TO THIS PROJECT. SUBMISSION OF A BID WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE OF WORK.

MECHANICAL DESIGN INC. logo and contact information: 4403 Broad River Road, Columbia, S.C. 29910, (803) 731-9834, dana@mdi9834.com, CONTACT: D. Fulmer, COMM. No. 203610

STUDIO 2LR logo and address: STUDIO 2LR, INC., 2428 MAIN STREET, COLUMBIA, SC 29201, P. 803.233.6602, STUDIO2LR.COM



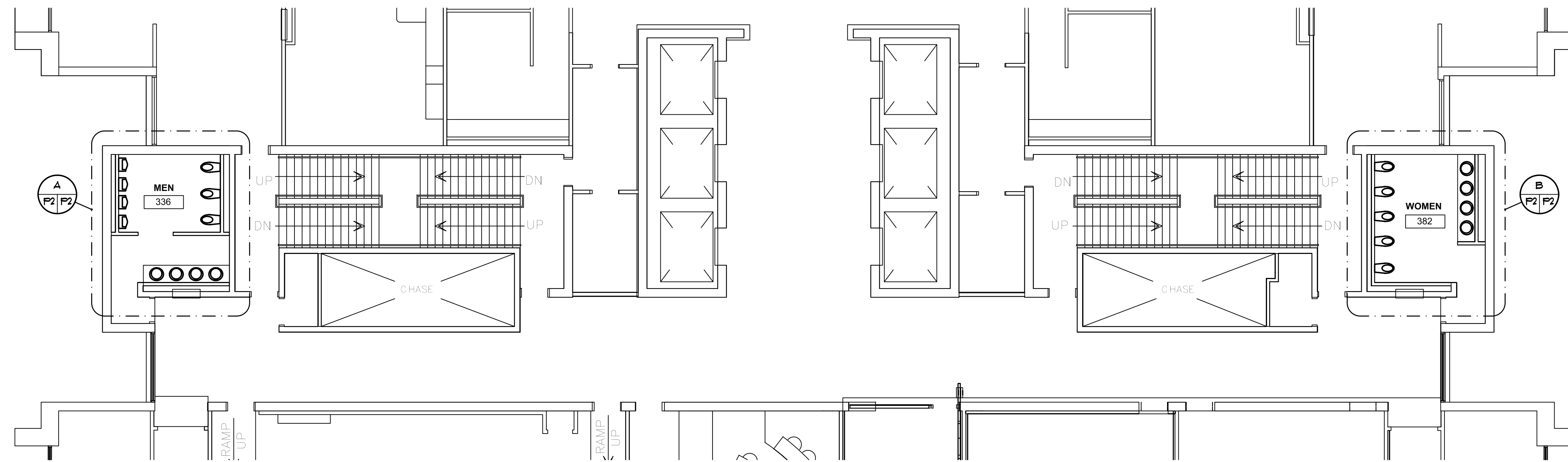
Client and Project Information table with fields: CLIENT NAME (UNIVERSITY OF SOUTH CAROLINA), PROJECT NAME (UofSC CLOSE-HIPP 3RD FLR TOILET RENOVATIONS), LOCATION (1705 COLLEGE ST. COLUMBIA, SC).

REVISIONS

Table with columns: NO., DATE, DESCRIPTION. Includes Project Number 20001, Sheet Number P100, Sheet Name PLBG NOTES, SCHEDS AND SPECIFICATIONS, and Date JANUARY 2021.

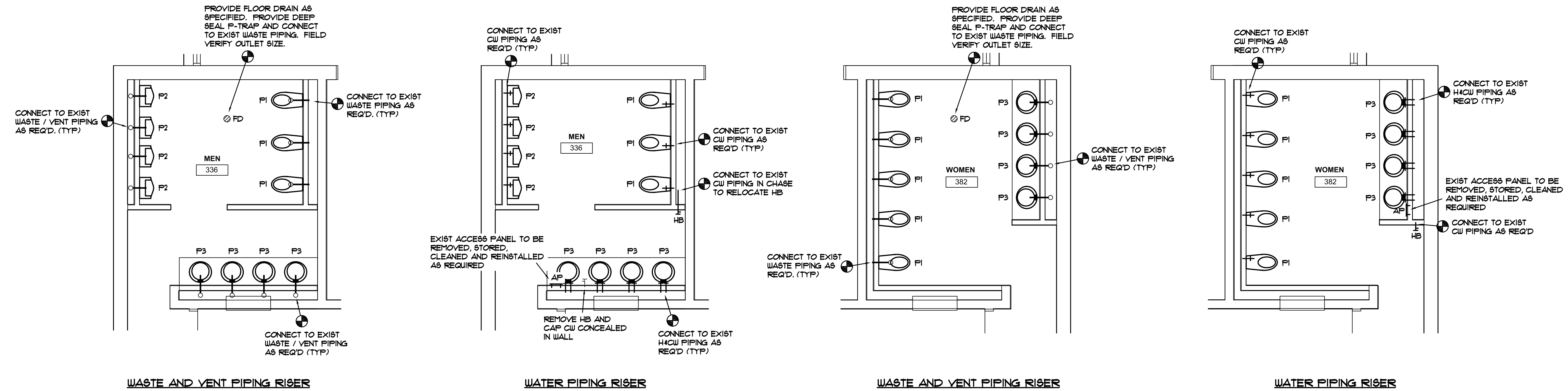
BID DOCUMENTS

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**PLUMBING FLOOR PLAN - THIRD FLOOR**

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

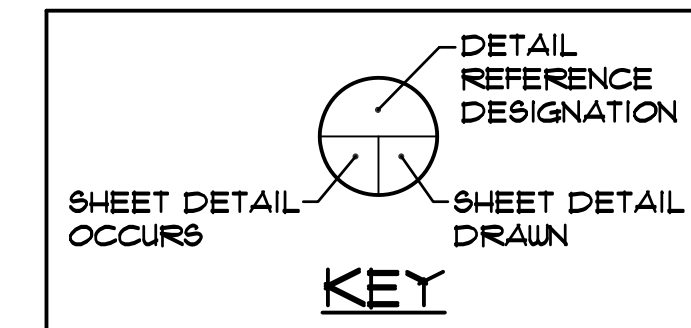


**A PARTIAL PLUMBING PLANS**  
SCALE: 1/4" = 1'-0"

**B PARTIAL PLUMBING PLANS**  
SCALE: 1/4" = 1'-0"

**EXISTING CEILING NOTE**

THE EXISTING SUSPENDED CEILING TILES ON THE SECOND FLOOR ARE TO BE REMOVED, STORED AND REINSTALLED BY THE GENERAL CONTRACTOR IF REQUIRED FOR THE INSTALLATION OF PLUMBING SYSTEMS ON THE THIRD FLOOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO CEILING GRID IS DISTURBED DURING THE INSTALLATION OF THE PIPING ABOVE THE SECOND FLR CEILING. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN REPLACEMENT OF THE DAMAGED CEILING GRID. ANY COSTS ASSOCIATED WITH A FAILURE TO COMPLY WITH THIS REQUIREMENT WHETHER INTENTIONAL OR ACCIDENTAL SHALL BE THE SOLE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

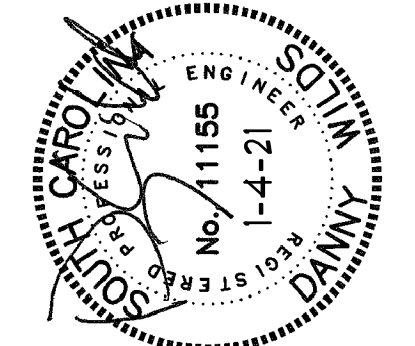


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CLIENT NAME  
UNIVERSITY OF SOUTH CAROLINA

PROJECT NAME  
**USC CLOSE-HIPP 3RD FLR TOILET RENOVATIONS**

LOCATION  
1705 COLLEGE ST. COLUMBIA, SC

**REVISIONS**

NO.	DATE	DESCRIPTION

PROJECT NUMBER   **20001**

SHEET NUMBER  
**P200**

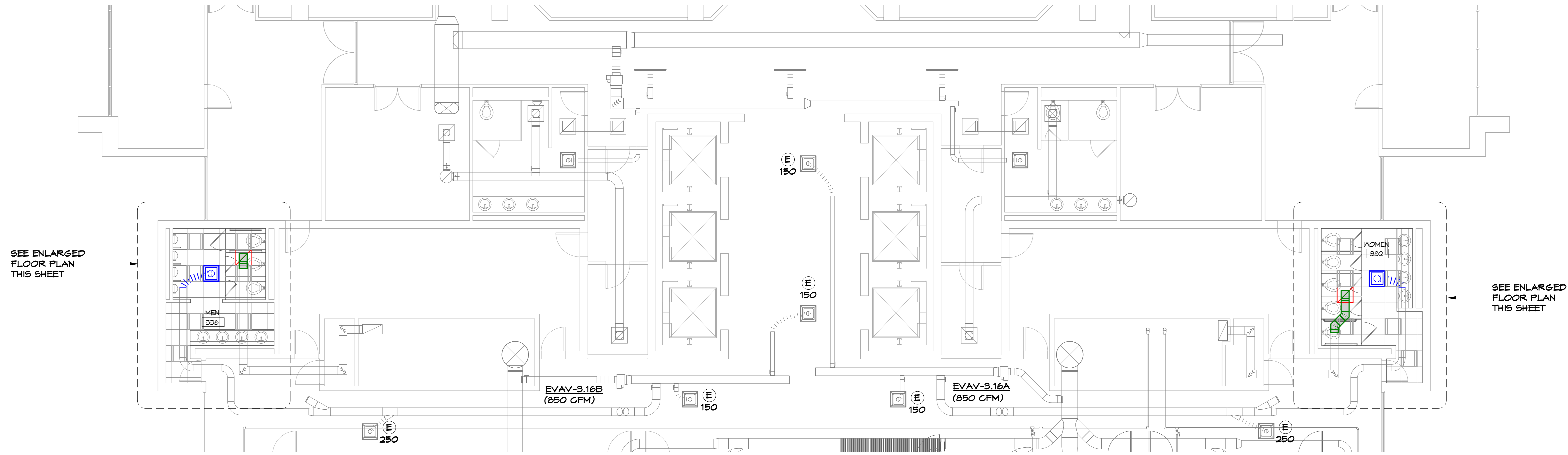
SHEET NAME  
**PLBG FLOOR PLANS - 3RD FLOOR**

DATE   **JANUARY 2021**

**BID DOCUMENTS**

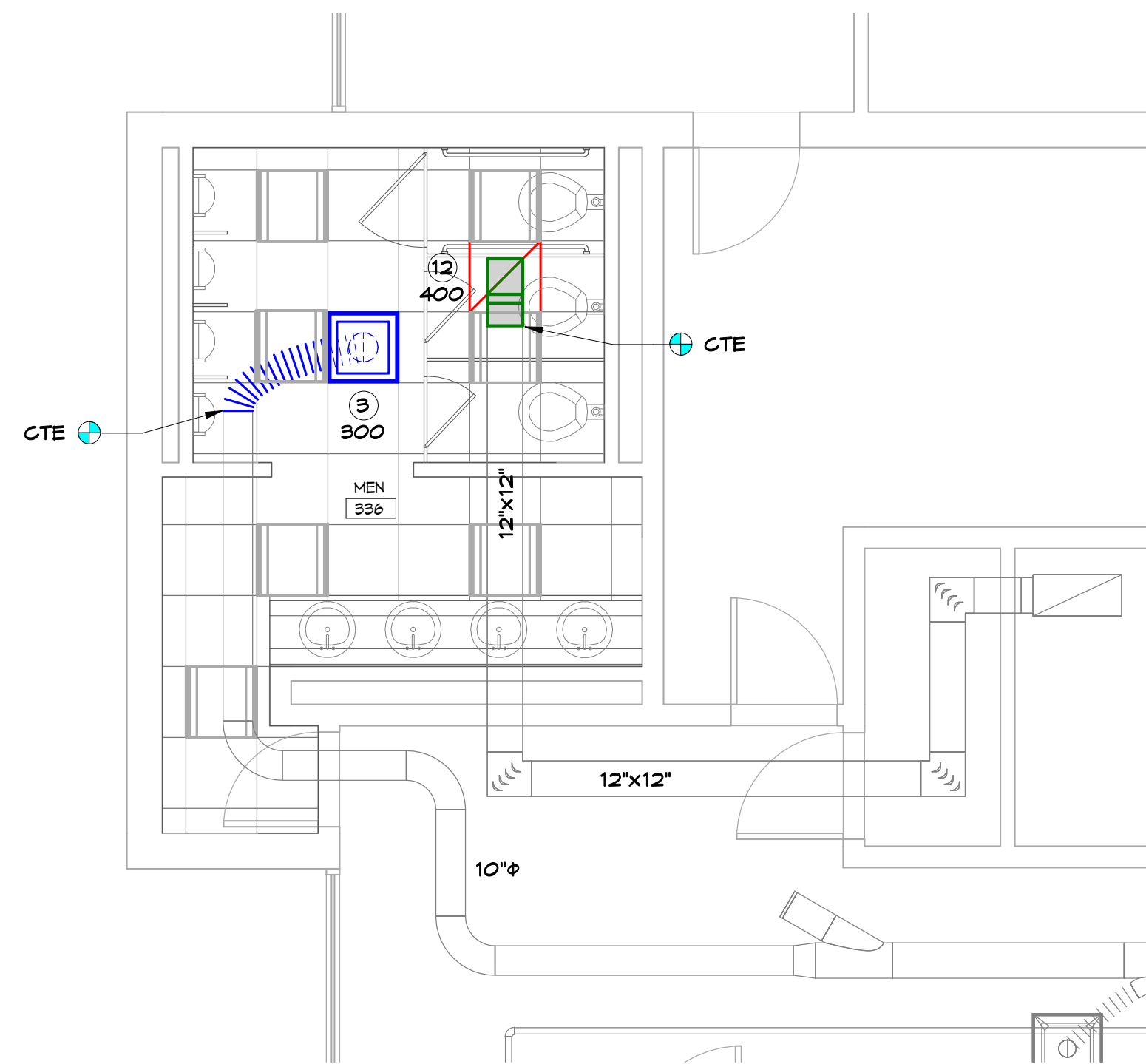


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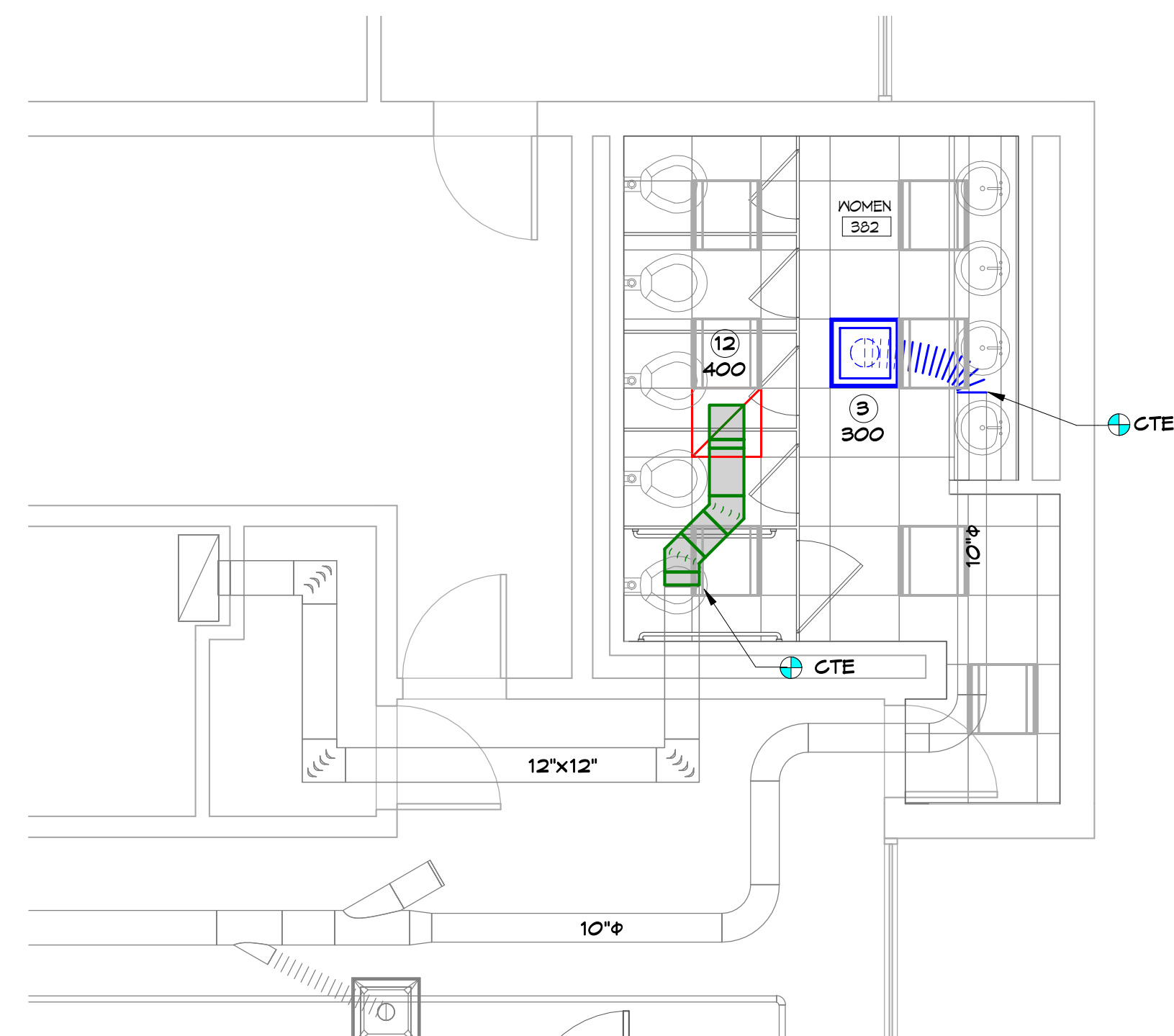


**HVAC RENOVATION FLOOR PLAN - 3RD FLOOR**  
1/8" = 1'-0"

- DEMOLITION NOTES**
- D1 REMOVE EXISTING SUPPLY AND EXHAUST GRILLE IN EACH RESTROOM ALONG WITH FLEXIBLE DUCT COMPLETE.
  - D2 PROVIDE NEW GRILLES AND FLEX DUCT AS INDICATED. TRIM/EXTEND DUCT AS REQUIRED FOR NEW GRILLE LOCATIONS. BALANCE SYSTEM TO VALUES LISTED



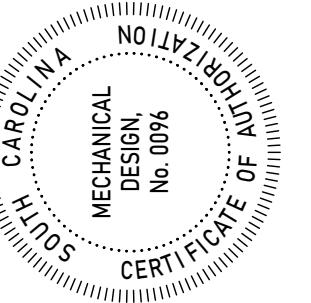
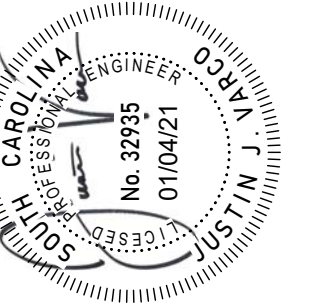
**HVAC ENLARGED FLOOR PLAN - MEN'S RR**  
1/4" = 1'-0"



**HVAC ENLARGED FLOOR PLAN - WOMEN'S RR**  
1/4" = 1'-0"

**STUDIO 2LR**

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CLIENT NAME  
UNIVERSITY OF SOUTH CAROLINA  
PROJECT NAME  
**UofSC CLOSE-HIPP 3RD FLR  
TOILET RENOVATIONS**  
LOCATION  
1705 COLLEGE ST. COLUMBIA, SC

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER 20001  
SHEET NUMBER  
**M101**  
SHEET NAME  
**HVAC RENOVATION  
FLOOR PLANS**  
DATE JANUARY 2021

**MECHANICAL DESIGN INC.**  
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Columbia, S.C. 29210  
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CONTACT: Justin Varco COMM. NO. 203647

BID DOCUMENTS

REVISED 2/28/21 PM

# MECHANICAL SPECIFICATIONS

## 1.0 MECHANICAL: GENERAL

- All material and work shall comply with the National Fire Codes of the NFPA, National and local codes and the 2018 International Building Code and Mechanical Codes.
- Drawings for work under Division 23 are diagrammatic and generally, indicate reasonable arrangements. Work under Division 23 includes all work necessary to make HVAC systems complete and fully operational.
- SUBSTITUTIONS:** For substitution requests made during the bidding of the project. All requests for substitutions shall be submitted in writing so as to be received by the Engineer at least ten (10) calendar days prior to final pricing and must be granted permission to quote before award of contract.
- MATERIAL AND EQUIPMENT**

**SUBMITTALS:** Submit for review detailed drawings of all equipment and all material listed in this section. All submittal data shall be submitted electronically as well as bound in a hardback binder. Furnish two (2) hard copies of equipment submittals. Partial submittals will not be reviewed by the Engineer. Review rendered on equipment submittals shall not be considered as a guarantee of measurements of building conditions. WHERE DRAWINGS ARE REVIEWED, SAID REVIEW DOES NOT MEAN THAT DRAWINGS HAVE BEEN CHECKED IN DETAIL; SAID REVIEW DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY OR NECESSITY OF FURNISHING MATERIAL OR PERFORMING WORK AS REQUIRED BY THE CONTRACT DOCUMENTS. Submit for the following materials and equipment for review by the Engineer:

- Test and Balance Firm
  - Ductwork & Duct Supports
  - Air Distribution
- WORKMANSHIP:** Work that is not of good quality will require removal and reinstallation.
  - COORDINATION:** No work shall be performed on this project before thoroughly coordinating all space requirements for pipes, control panels, and control components with all trades concerned and existing conditions. Temperature and equipment control wiring is included under Division 23.
  - The responsibility for obtaining, cutting, and patching for work under Division 23 of the specifications is included Division 23.
  - DAMAGES DURING CONSTRUCTION:** Contractor shall be responsible for any costs of repairing any damages caused by this contractor, to the building, building contents, and site during construction and warranty period.
  - WARRANTY:** Warrant all control components, piping and any other materials specified under Division 23. Warrant all equipment, ductwork, piping and any other materials specified under Division 23 for a period of one (1) year from the date of project acceptance unless otherwise indicated. Upon failure of any part(s) of the system during the warranty period, the affected part(s) shall be repaired or replaced promptly by and at the expense of the Contractor.
  - IDENTIFICATION:** Identify each piece of equipment and control component. Items shall be identified by name and numerical sequence. Nameplates shall be 1/16" thick plates with 1/2" high white letters on black background. Nameplates shall be attached securely with screws, not glued.

## 2.0 MECHANICAL: HVAC, ADJUSTING, TESTING AND BALANCING

- TESTING AND BALANCING**
  - Provide T&B services for all new mechanical systems.
  - All work shall be performed by an independent Test and Balance Agency. Testing, adjusting and balancing work shall be the firm's sole source of income. All work shall be under the direct supervision of a project manager who is qualified for testing and balancing the hydronic and air performance of heating, air conditioning, and ventilating systems.
  - Testing and balancing of the HVAC system is defined as the optimization of the installed system. The equipment schedule is used for equipment selection only. Industry standards of +/-10% are considered to be benchmarks and will not be used as an absolute requirement for final acceptance of the project. Approval of the final report will be the sole responsibility of the design engineer.

## 3.0 MECHANICAL: HVAC, INSULATION

- INSULATION** All insulation material shall have a fire hazard classification not to exceed flame spread of 25 and smoke developed rating of 50, as listed by Underwriters Laboratories and acceptable under NFPA standards. This is to apply to the complete system and to the composite insulation with jacket or facings, vapor barrier, joint sealing tapes, mastic and fittings.
- All insulation work shall be performed by a franchised insulation company firm. All insulation shall be installed in a neat and clean manner by qualified workers in the regular employ of the insulation company.
- DUCT INSULATION**
  - Insulation for sheet metal ducts shall be 2" thick Manville Microlite "commercial grade" duct wrap or equal. Insulation shall be 1 lb. density (R=7.5 min) with FSK vapor barrier.
  - All sheet metal supply, return, and outside air ducts shall be insulated. Adhere insulation on ducts to metal with 4" strips of insulation bonding adhesive at 8" centers. Secure insulation on ducts over 24" wide with weld pins and clip washers spaced not more than 15" o.c., to bottom of duct. Staple insulation at all seams with outward clinch staples and vapor sealed with a 3" piece of Glasfab coated completely with a flame retardant mastic. This application also applies at connections to pre-insulated flexible ductwork. Duct tape will not be allowed.

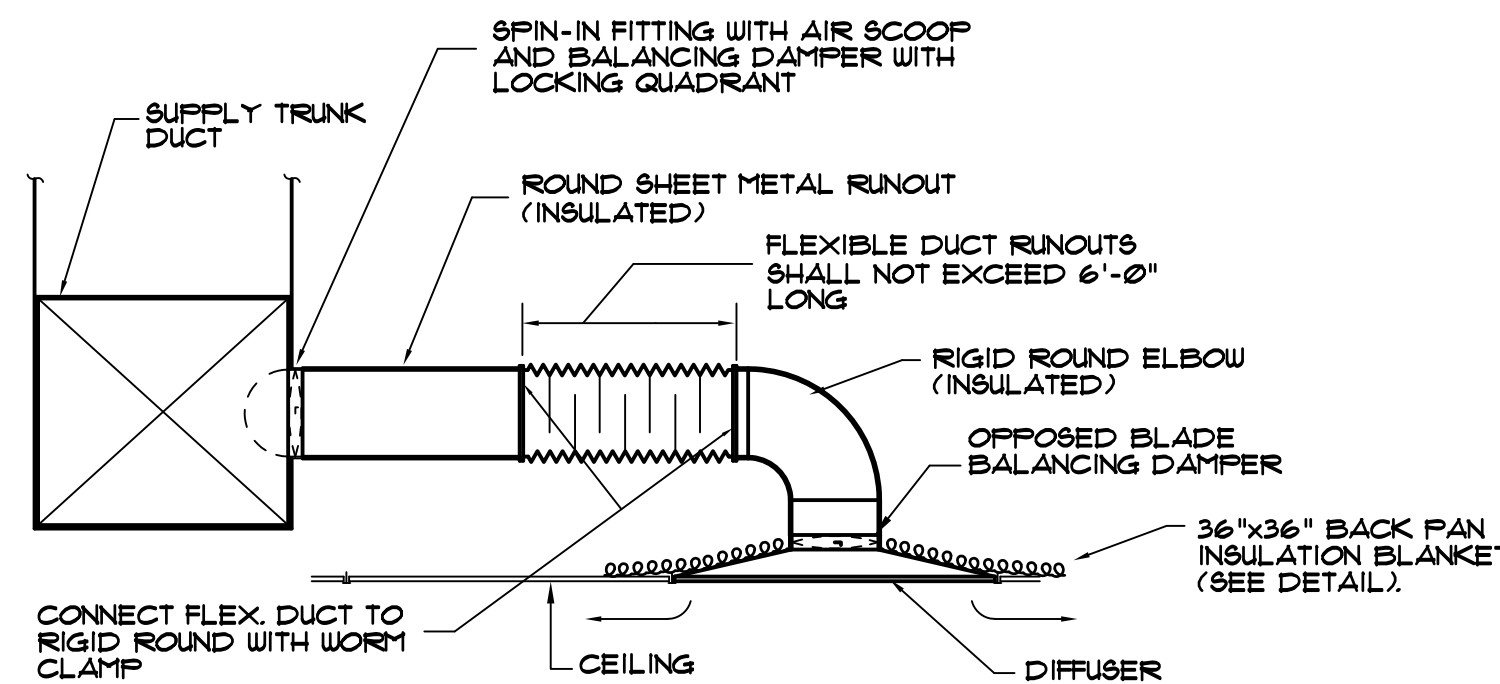
## 4.0 MECHANICAL: HVAC, FANS AND AIR DISTRIBUTION

- GRILLES AND DIFFUSERS**
  - Unless otherwise indicated, color and finish to be as selected by Architect/Owner.
  - Maximum noise level on any unit shall be at least 5 less than noise criteria level (NC) for which room is designed unless otherwise indicated. Room NC to be assumed to be 35 unless known. Maximum pressure drop shall not exceed 0.1" w.g. unless otherwise noted.
- BALANCING DAMPERS**
  - Manual balancing dampers shall be equal in performance and construction as Ruskin model MDRS-25.
  - Dampers shall be round blade, positive lock, non stick, non corrosive, constructed of galvanized steel. Provide damper with 3/8" square steel control shaft with manual operator with locking hand quadrant.
  - Dampers shall have a 20 gauge galvanized frame and damper blade. Provide damper with molded synthetic bearings.

## 5.0 MECHANICAL: HVAC, DUCTWORK

- All ductwork shall meet job conditions and after coordinating with all trades and existing conditions. Follow duct dimensions indicated on drawings as closely as possible. Provide offsets, vary shape or alter run if required to meet structural or other interferences. Where shape of duct is varied, alter dimensions to provide equal static pressure drop per unit length.
- Obtain copies of applicable "Sheet Metal and Air Conditioning Contractors National Association, Inc." (SMACNA) Manuals, latest edition, and keep one copy of each on job site.
- Ductwork shall be air tight, smooth on inside and neatly finished on outside. Details of support, construction and materials not specified herein to be in accordance with recommendations of SMACNA.
- No ductwork shall be fabricated or installed until all space requirements have been thoroughly coordinated with all other trades (see shop drawings).
- DUCTWORK:** All return, exhaust and outside air ducts shall be low pressure sheet metal. Seal all joints and seams with high pressure sealant. All turns greater than 45 degrees shall be made with turning vanes. Turning vanes shall be single vane type installed on runners. Provide flexible duct connectors at air handling units at all supply, return and outside air duct connections if not factory provided. Provide flexible duct connectors at inlet and discharge of in line fans. Flexible duct connectors shall conform to NFPA 90A.
- RUNOUT TAKE-OFFS** Take-offs from low pressure trunks to diffusers shall be a factory-manufactured spin-in type fitting including an air-scoop, manual balancing damper with locking quadrant, mounting flange and gasket seal.

END OF DIVISION 23



CEILING DIFFUSER INSTALLATION

NOT TO SCALE

## GRILLE AND DIFFUSER SCHEDULE

MARK	SERVICE	NECK SIZE	MAX CFM	RUNOUT SIZE	REMARKS
①	SUPPLY	6"ø	110	6"ø	W/ BUTTERFLY DFR
②	SUPPLY	8"ø	230	8"ø	W/ BUTTERFLY DFR
③	SUPPLY	10"ø	375	10"ø	W/ BUTTERFLY DFR
⑧	RETURN	8"x8"	250	8"x8"	W/ OFF. BL. DFR**
⑩	RETURN	10"x10"	340	10"x8"	W/ OFF. BL. DFR**
⑫	RETURN	12"x12"	580	12"x10"	W/ OFF. BL. DFR**

GRILLE/DIFFUSER	MOUNTING TYPE	PRICE # MODEL NO.	MATERIAL
SQUARE SUPPLY	LAY-IN	ASPD-31	ALUMINUM
SQUARE SUPPLY	SURFACE	ASPD-31	ALUMINUM
SQUARE RETURN	LAY-IN	81-TB	ALUMINUM
SQUARE RETURN	SURFACE	81-F-A	ALUMINUM

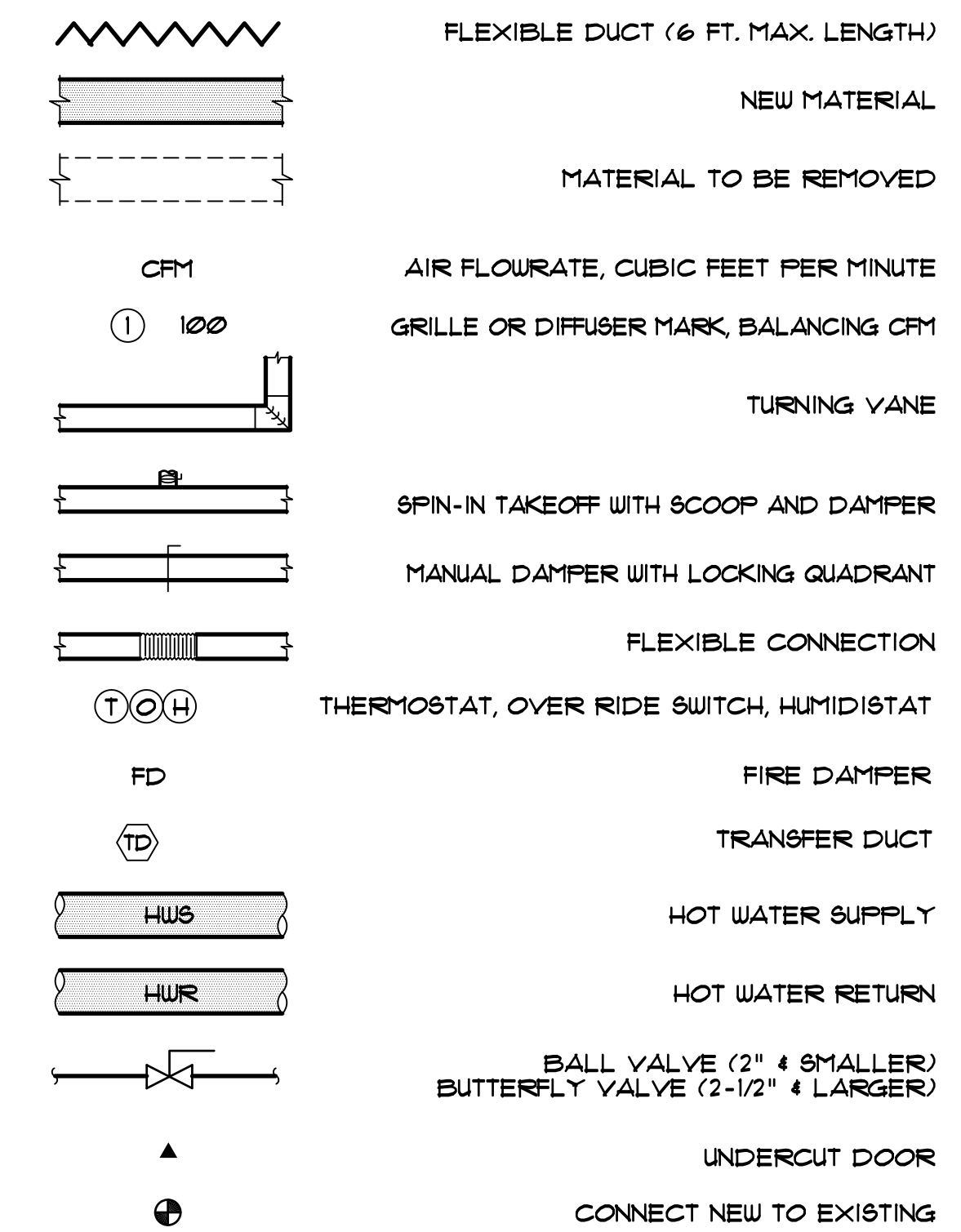
\* OR EQUAL BY TITUS, METALAIR, CARNES, NAILOR, KREUGER OR APPROVED EQUAL.  
 \*\* CONTRACTOR MAY OMIT DAMPER IN RETURN GRILLES.

- NOTES:**
- GRILLE AND DIFFUSER LOCATIONS SHOWN ON FLOOR PLANS ARE APPROXIMATE, SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.
  - GRILLES AND DIFFUSERS SHALL MATCH CEILING TYPE, SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPE.
  - GRILLE AND DIFFUSER COLORS SHALL BE SELECTED BY ARCHITECT, SUBMIT COLOR SAMPLES TO ARCHITECT.
  - LAY-IN EGGRATE SHALL HAVE FULL FACE (24x24) AND FULL SIZE STEEL BACK PLATE WITH DUCT CONNECTOR COLLAR. INTERIOR OF GRILLE SHALL BE FLAT BLACK.
  - PROVIDE 36x36 BACK FAN INSULATION BLANKET FOR ALL LAY-IN DIFFUSERS.

## ASBESTOS NOTES (ALL SHEETS)

- CONTRACTOR IS TO BE AWARE THAT EXISTING DRYWALL AND CEILING SYSTEMS LOCATED THROUGHOUT THIS STRUCTURE ARE ASBESTOS CONTAINING MATERIALS (ACM).
- ONLY PERSONNEL LICENSED AND CERTIFIED TO WORK WITH ACM SHALL DISTURB EXISTING DRYWALL WALL AND CEILING SYSTEMS. CONTRACTOR SHALL COORDINATE WITH THE GC AND THE ABATEMENT CONTRACTOR PRIOR TO ALL RENOVATIONS AND DEMOLITION ACTIVITIES THAT WILL IMPACT THE EXISTING DRYWALL IN THE BUILDING.
- ALL PENETRATIONS AND ATTACHMENTS TO EXISTING DRYWALL SHALL BE COORDINATED WITH AND PERFORMED BY THE ABATEMENT CONTRACTOR THROUGHOUT ALL PHASES OF THE PROJECT, TO INCLUDE INSTALLATION OF HVAC SYSTEMS.
- CONTRACTOR SHALL INCLUDE IN HIS BASE BID THE COSTS ASSOCIATED WITH THE COORDINATION AND SEQUENCING OF THESE TASKS.

## SYMBOLS



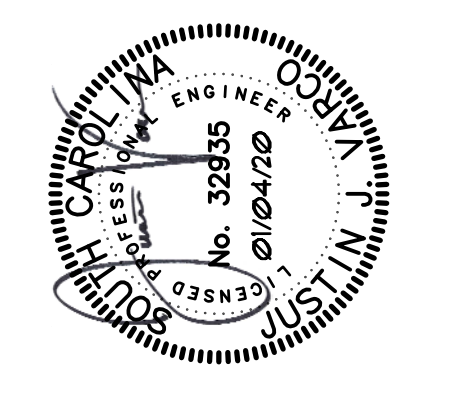
## GENERAL NOTES

- DO NOT SCALE DRAWINGS, ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS.
- DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- WHENEVER THE WORD PROVIDE IS USED IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE".
- ELECTRICAL CHARACTERISTICS SHOWN ON SCHEDULES OR DRAWINGS ARE DESIGN VALUES ONLY AND SHALL BE VERIFIED BEFORE ORDERING EQUIPMENT.
- DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS.
- UNLESS OTHERWISE NOTED, CEILING RETURN GRILLES SHALL BE THE SAME SIZE AS CEILING SUPPLY GRILLE.
- MAINTAIN RECOMMENDED CLEARANCES AT EQUIPMENT AS REQUIRED BY THE MANUFACTURE FOR SERVICE.
- ALL SUPPLEMENTAL STEEL AND HANGERS REQUIRED FOR THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS SHOWN OTHERWISE IN BID DOCUMENTS.
- PROVIDE ACCESS DOOR FOR ALL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILING. DOOR SHALL BE OF ADEQUATE SIZE TO FACILITATE SERVICE, REPAIR OR REMOVAL OF EQUIPMENT.
- CONSTRUCT DUCTWORK AS JOB PROGRESSES AND AFTER COORDINATING WITH ALL CONCERNED TRADES AND CONTRACTORS.

**SPECIAL NOTE:**  
 THE CONTRACTOR IS REQUIRED TO VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXIST CONDITIONS RELATING TO THIS PROJECT. SUBMISSION OF A BID WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE OF WORK.

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 STUDIO2LR.COM



CLIENT NAME: UNIVERSITY OF SOUTH CAROLINA  
 PROJECT NAME: Uof SC CLOSE-HIPP 3RD FLR TOILET RENOVATIONS  
 LOCATION: 1705 COLLEGE ST., COLUMBIA, SC

## REVISIONS

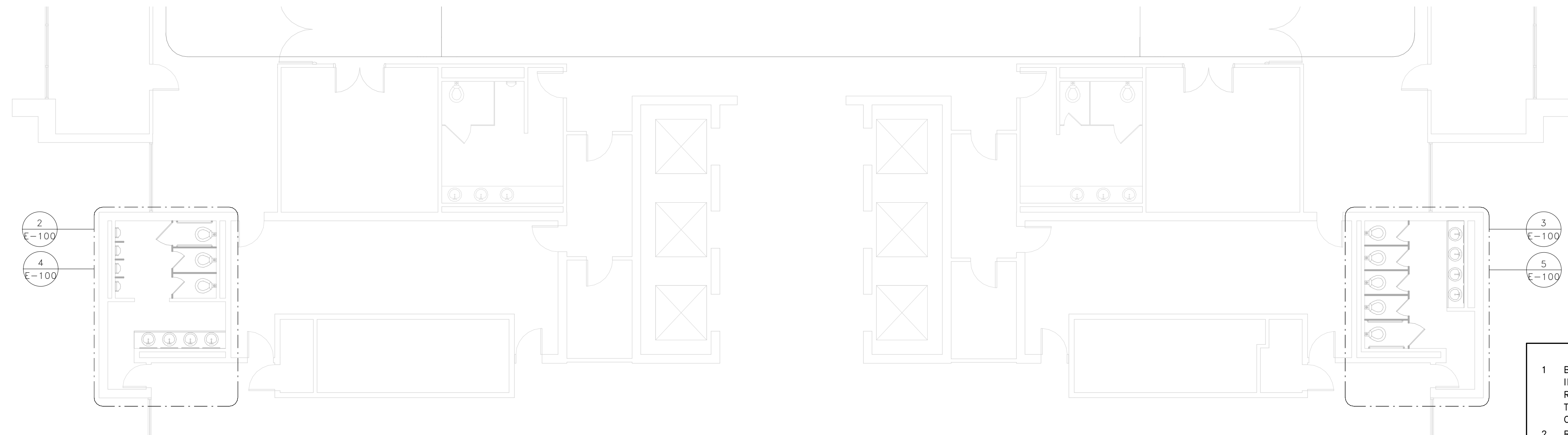
NO.	DATE	DESCRIPTION

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 SHEET NUMBER: M301  
 SHEET NAME: HVAC NOTES, DTL'S, SCHD'S, AND SPECS  
 DATE: JANUARY 2021

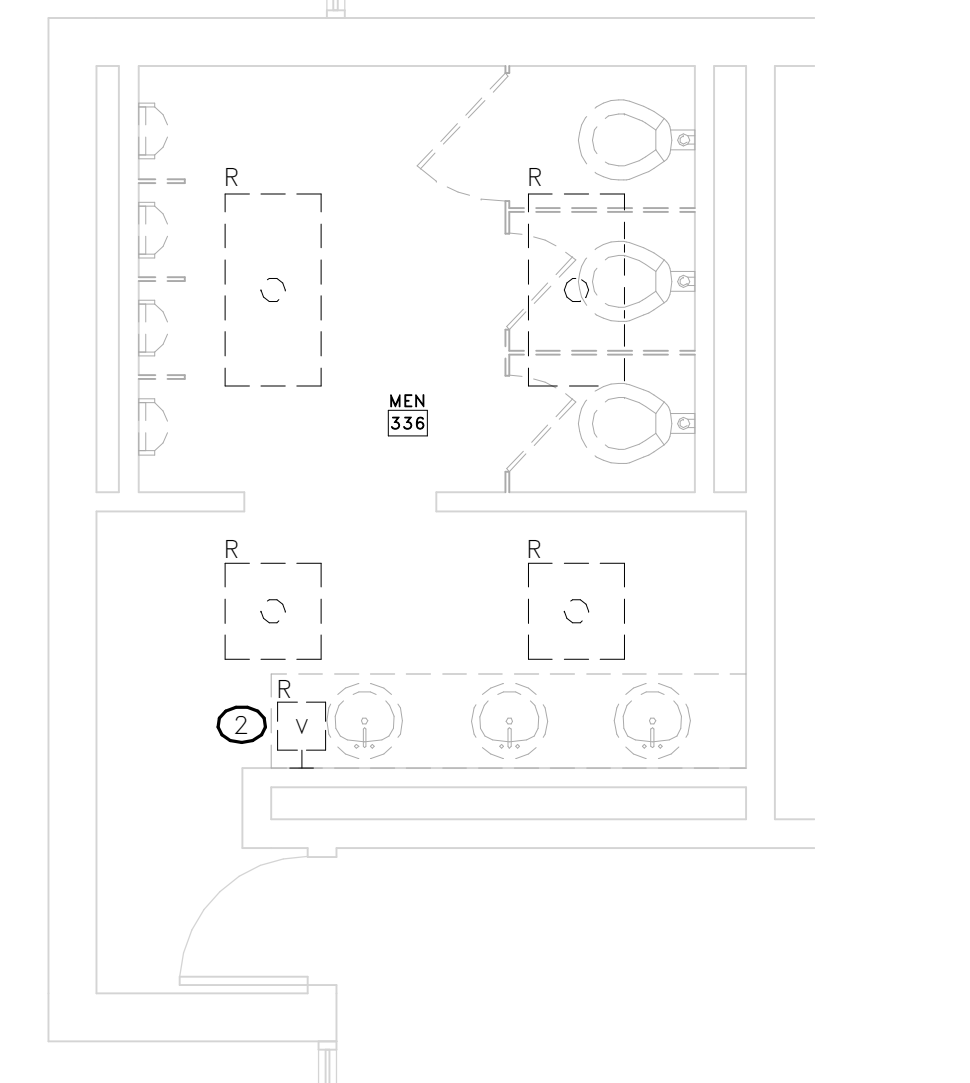
BID DOCUMENTS

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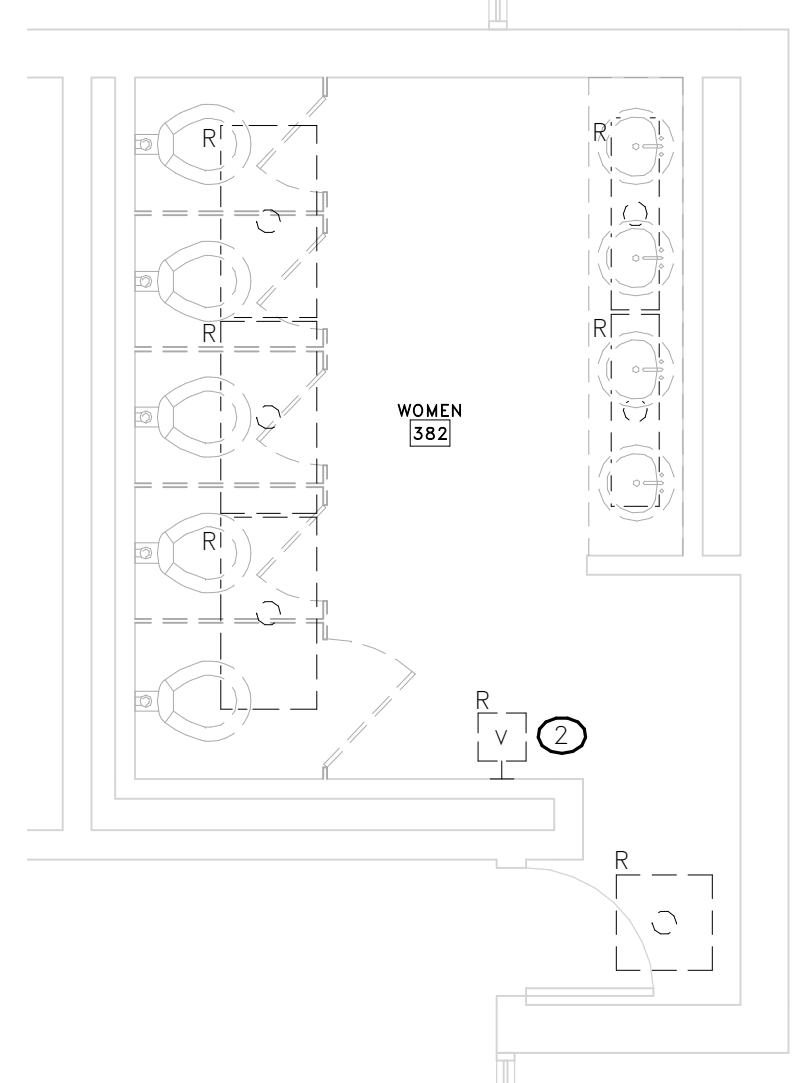
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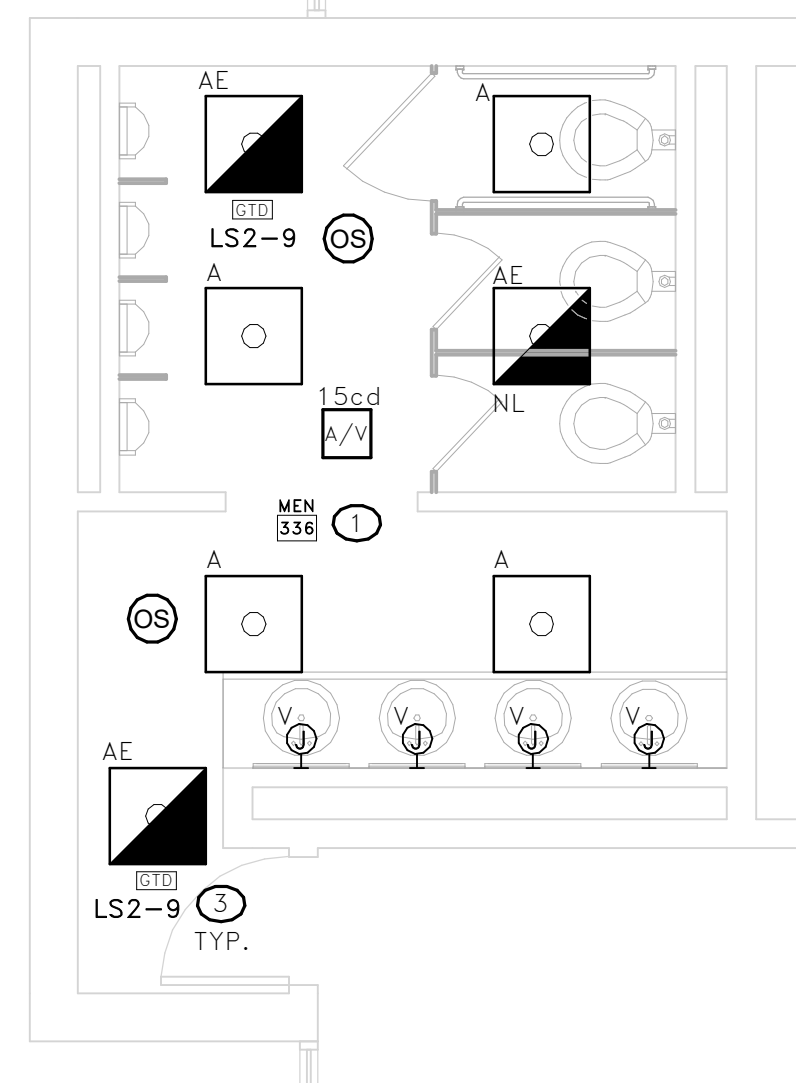
1 THIRD FLOOR - ADVISING RESTROOMS LIGHTING PLAN  
E-100 SCALE: 1/8" = 1'-0"



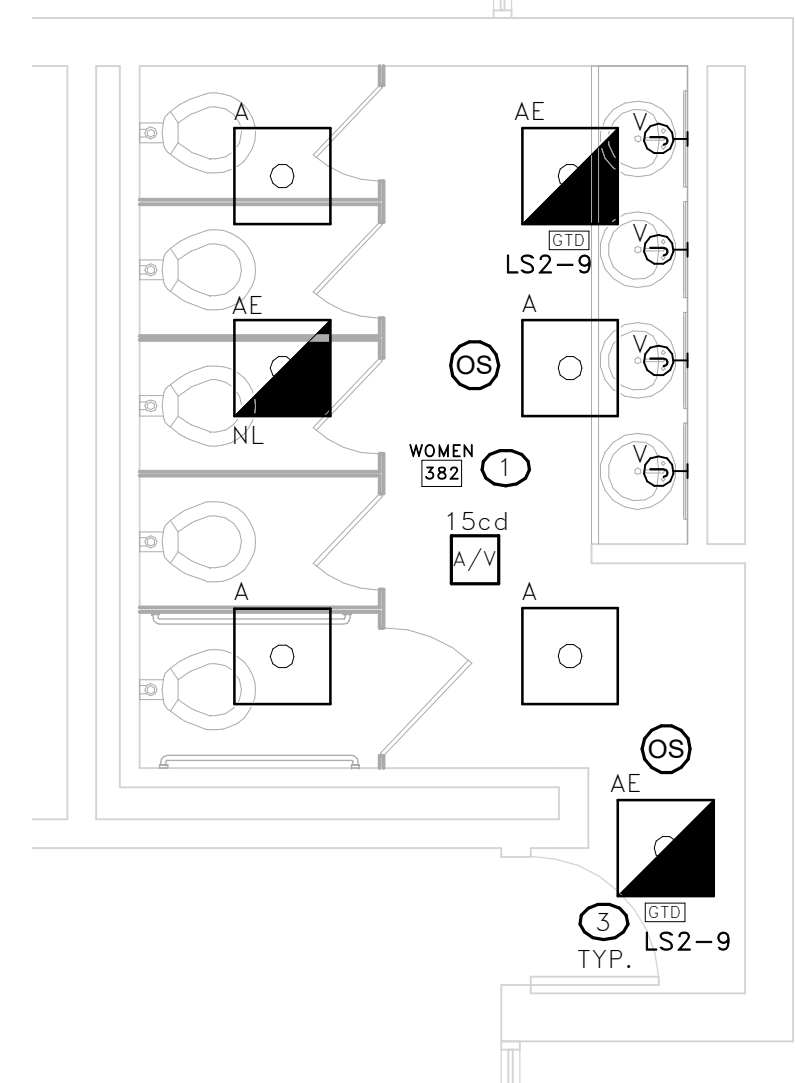
2 ENLARGED VIEW - MEN 336 DEMO  
E-100 SCALE: 1/4" = 1'-0"



3 ENLARGED VIEW - WOMEN 382 DEMO  
E-100 SCALE: 1/4" = 1'-0"



4 ENLARGED VIEW - MEN 336 RENO  
E-100 SCALE: 1/4" = 1'-0"



5 ENLARGED VIEW - WOMEN 382 RENO  
E-100 SCALE: 1/4" = 1'-0"

- KEY NOTES**
- RE-USE EXISTING 277V LIGHTING BRANCH CIRCUIT(S) CURRENTLY IN THESE SPACES. CONTRACTOR SHALL FIELD VERIFY WHICH BRANCH CIRCUIT(S) ARE CURRENTLY IN THIS SPACE AND UPDATE THE PANELBOARD DIRECTORY TO INDICATE WHICH CIRCUITS ARE IN THIS SPACE.
  - PROVIDE BLANK STAINLESS-STEEL WALL PLATE OVER BOX.
  - ALL GTD'S SHALL BE DUAL RELAY TYPE. FIXTURES SHALL BE SWITCHED WITH NORMAL CIRCUIT, BUT BYPASS CONTROL IN EVENT OF A NORMAL POWER FAILURE.

- GENERAL "ELECTRICAL" NOTES**
- BRANCH CIRCUIT WIRING SHALL BE COPPER (THHN/THWN-2) NO. 12 AWG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES, IN OUTLET BOXES, IS NOT REQUIRED TO BE LARGER THAN NO. 12 AWG.
  - RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
  - THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
    - A COMMON NEUTRAL MAY NOT BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS.
    - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
  - THE USE OF MC CABLE IS NOT ALLOWED.
  - SEAL ALL EXISTING AND NEW FIRE RATED WALL AND FLOOR PENETRATIONS IN THE CONSTRUCTION AREA
  - IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REMOVED, THE CONTRACTOR SHALL WORK THRU THE EXISTING CEILINGS (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK.
  - ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY OWNER'S PROJECT MANAGER. MATERIALS THAT OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
  - ELECTRICAL DEVICES NOT SHOWN ON WALLS TO BE DEMOLISHED SHALL BE DEMOLISHED AT NO ADDITIONAL COST TO OWNER.
  - ELECTRICAL DEVICES NOT SHOWN ON CEILINGS OR WALLS TO REMAIN SHALL REMAIN IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION
  - ELECTRICAL DEVICES NOT SHOWN ON CEILINGS TO BE REMOVED SHALL BE TEMPORARILY DISCONNECTED AND REMOVED DURING DEMOLITION AND RE-INSTALLED ON NEW CEILING IN SAME LOCATION.
  - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES.
  - REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF LIGHT FIXTURE TO ACOUSTICAL CEILING SYSTEM AND STRUCTURE.
  - EXISTING FIRE ALARM SYSTEM IS GAMEWELL E3 SERIES.

**LIGHT FIXTURE PLAN KEY**

SHADING INDICATES EMERGENCY FIXTURE CONNECTED TO GENERATOR BACKED EMERGENCY SYSTEM.

CE = UPPER CASE LETTER / LETTERS INDICATE FIXTURE TYPE  
d = LOWER CASE LETTER INDICATES SWITCH IDENTIFICATION  
NL or EM = INDICATES NON SWITCHED "NIGHT LIGHT" / "EMERGENCY"  
A:9 = DESIGNATES PANEL NAME: CIRCUIT NUMBER

**NOTE:**  
ALL "EM" FIXTURES INDICATED IN PLAN CONTAIN TRANSFER DEVICE (GTD) AND HAVE CONNECTION TO GENERATOR. ALL EMERGENCY FIXTURES REQUIRE AN EXTRA CONSTANT POWER CONDUCTOR TO BE CONNECTED TO THE EMERGENCY GTD FOR SENSING. CONDUCTOR MUST NOT BE CONTROLLED BY ANY LIGHTING SYSTEM OR HAVE POWER INTERRUPTED AT ANY TIME. "NL" FIXTURES SHALL HAVE ABSOLUTELY NO LIGHTING CONTROL & SHALL BE OPERATIONAL AT ALL TIMES.

**ELECTRICAL SYMBOL LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	JUNCTION BOX (WALL MTD)		FIRE ALARM SPEAKER/VISUAL DEVICE (CEILING MOUNTED) WHITE DEVICES WITH NO LETTERING
	LIGHT SWITCH, SINGLE POLE		KEY NOTE CALLOUT (REFER TO KEY NOTES ON SHEET)
	LOWER CASE SUBSCRIPT INDICATES SWITCH-LEG		OCCUPANCY SENSOR (CEILING MOUNTED)
	OCCUPANCY SENSOR (WALL MOUNTED)		FIRE ALARM VISUAL DEVICE (WALL MOUNTED)

**LIGHT FIXTURE SCHEDULE**

SYMBOL	TYPE	FIXTURE SPECIFICATIONS			LAMPING		ELECTRICAL		MOUNTING REMARKS	NOTES
		FIXTURE DESCRIPTION	MANUFACTURER	CAT. #	NO.	LAMP TYPE	FIXT. LOAD	VOLTS		
	A	2'X2' LED RECESSED TROFFER	HE WILLIAMS	LT-22-L27/835-AF-UNV	-	LED (2700 LUMENS, 835)	21	277 V	RECESSED IN GRID CEILING	1,2,3,4
	AE	SAME AS TYPE "A" EXCEPT FED FROM GENERATOR-BACKED CIRCUIT THROUGH A GTD.	HE WILLIAMS	LT-22-L27/835-AF-UNV	-	LED (2700 LUMENS, 835)	21	277 V	RECESSED IN GRID CEILING	1,2,3,4
	V	EDGE LIT VANITY MIRROR	LIGHTING SQUARED	WM3035-3624-30-80-HO	-	LED (3300 LUMENS, 80)	33	277 V	WALL MOUNTED MIRROR	1,2,3,4

- LIGHT FIXTURE SCHEDULE NOTES**
- LUMENS LISTED IN SCHEDULE REPRESENT DELIVERED LUMENS OF FIXTURES.
  - THREE DIGIT NUMBERS LISTED IN LAMP COLUMN REPRESENT CRI AND COLOR TEMPERATURE. FIRST DIGIT INDICATES MINIMUM CRI AND LAST TWO DIGITS INDICATE COLOR TEMPERATURE. EXAMPLE: 830 INDICATES MINIMUM CRI OF 80 AND A COLOR TEMPERATURE OF 3000K.
  - SEE ARCHITECTURAL RCP AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
  - CONFIRM QUANTITIES OF FIXTURES SHOWN IN RCP MATCH QUANTITIES SHOWN ON ELECTRICAL PLANS PRIOR TO BID. IF NO DISCREPANCIES ARE NOTED PRIOR TO BID THE HIGHEST QUANTITY OF EACH FIXTURE TYPE SHOWN SHALL BE PROVIDED.

**DEMOLITION/RENOVATION NOTATION**

IF NO ANNOTATION IS SHOWN ASSUME EXISTING TO REMAIN IN PLACE FOR SOLID LINES AND DEMOLISH FOR DASHED LINES. DEVICES AND EQUIPMENT NOT SHOWN SHALL BE ASSUMED TO BE EXISTING TO REMAIN IN PLACE.

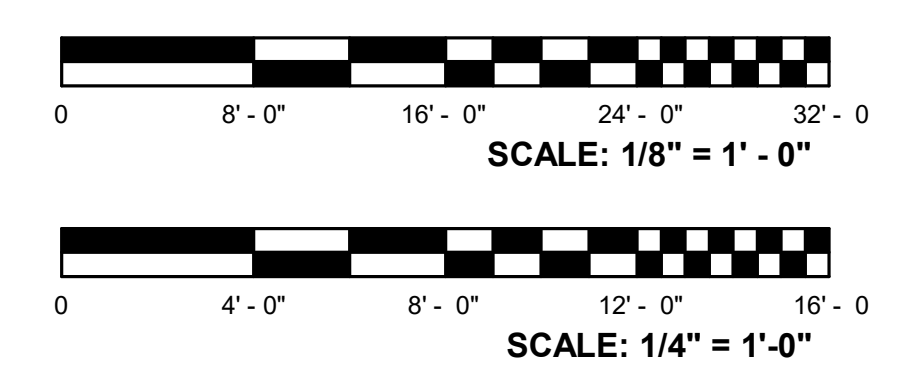
E EXISTING FIXTURE OR DEVICE TO REMAIN IN PLACE. REPLACE ANY BROKEN DEVICES OR PLATES; COLOR TO MATCH EXISTING.

R EXISTING FIXTURE OR DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. MAINTAIN CONTINUITY OF REMAINING PORTIONS OF BRANCH CIRCUIT.

RE EXISTING DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. EXISTING CIRCUIT SHALL BE RETAINED. PROVIDE NEW DEVICE AS SHOWN ON RENOVATION PLANS.

RN RELOCATED FIXTURE (NEW LOCATION).

RR EXISTING FIXTURE TO BE RELOCATED BY THE ELECTRICAL CONTRACTOR TO NEW LOCATION SHOWN ON RENOVATION PLAN.



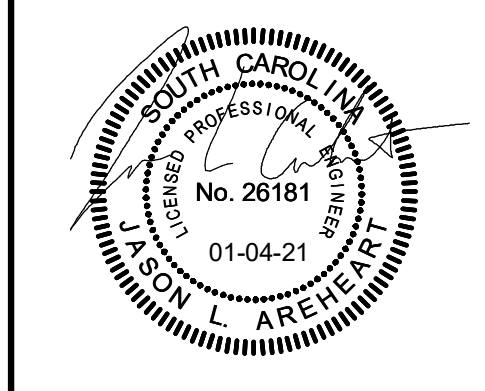
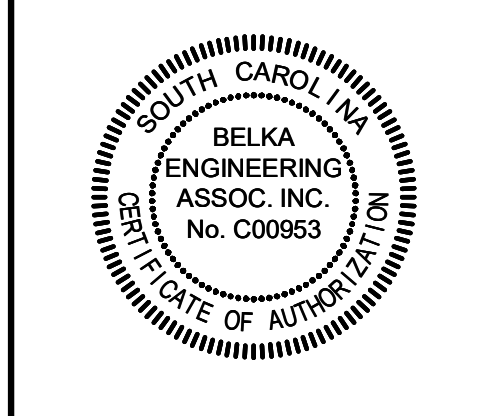
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CLIENT NAME: UNIVERSITY OF SOUTH CAROLINA  
PROJECT NAME: UofSC CLOSE-HIPP 3RD FLR TOILET RENOVATIONS  
LOCATION: 1705 COLLEGE ST. COLUMBIA, SC

**REVISIONS**

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 20001  
SHEET NUMBER: **E-100**  
THIRD FLOOR RESTROOMS ELECTRICAL PLANS  
DATE: 01/04/2021

ISSUED FOR CONSTRUCTION 1.04.2021