



Office of the Vice President  
and Chief Financial Officer  
Procurement Services  
<http://procurement.ufl.edu/>

971 Elmore Drive  
PO Box 115250  
Gainesville, FL 32611-5250  
(352) 392-1331 Fax 352-392-8837

May 21, 2018

**ADDENDUM NUMBER 1 ON INVITATION TO BID ITB18KO-131**

**TITLE:** Building 700 Renovation – Phase 2

**Non-Mandatory pre-bid meeting** was held May 16, 2018 at 2:00 PM. **Bid opening** will be held June 12, 2018 at 3:00 PM in UF Procurement Services, 971 Elmore Drive, Gainesville, FL 32611.

This addendum shall be considered part of the Contract Documents for the above mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract documents, this addendum shall govern and take precedence. Bidders are hereby notified that they shall acknowledge receipt of the addendum.

**NOTES:**

See attached one (1) page Phasing Plan and 23 pages of Conformance Docs (drawings).

  
Karen Olitsky  
Procurement Agent III

**PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM 1 AND RETURN WITH YOUR BID.  
FAILURE TO ACKNOWLEDGE THIS ADDENDUM COULD CONSTITUTE REJECTION OF YOUR BID.**

\_\_\_\_\_  
VENDOR NAME

\_\_\_\_\_  
VENDOR ADDRESS

\_\_\_\_\_  
SIGNATURE



STUDIO M J G, LLC  
5206 SW 91ST TERRACE, SUITE A  
GAINESVILLE, FLORIDA 32608  
WWW.STUDIOMJG.COM

**MP02649 BUILDING 700 - INTERIOR  
RENOVATION**  
UNIVERSITY OF FLORIDA 3280 RADIO RD  
GAINESVILLE, FL 32611

CONFORMANCE  
DOCUMENTS

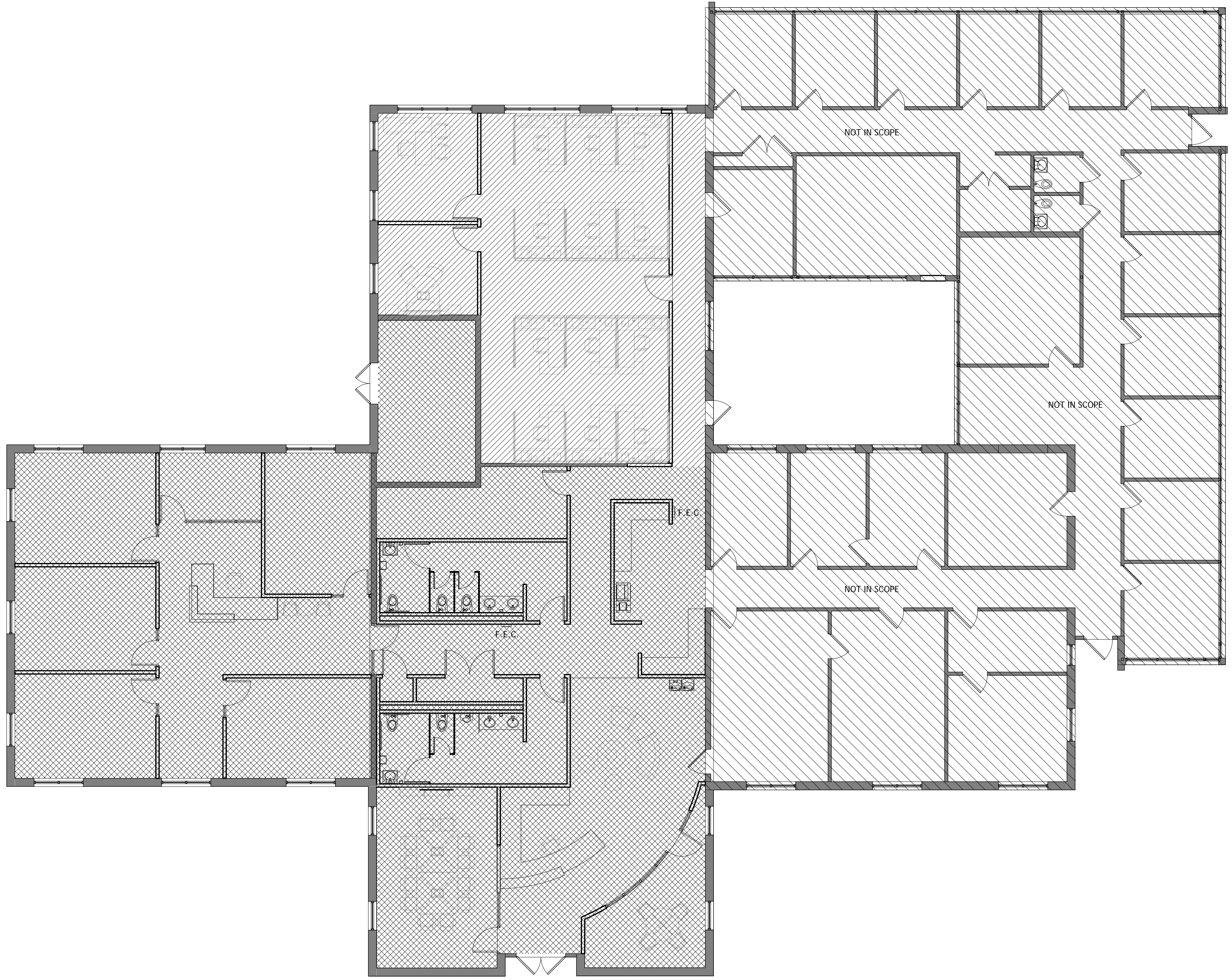
Michael J. Gilfilen  
AR94453

No.	DESCRIPTION	DATE

PROJECT NUMBER: 17016  
 ISSUE DATE: 1 NOVEMBER 2017  
 CREATED BY: MAR  
 CHECKED BY: MJG

**A100**  
ARCHITECTURAL  
PHASING PLAN

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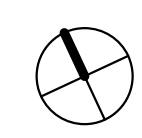


1 ARCHITECTURAL PHASING PLAN  
1/8" = 1'-0"

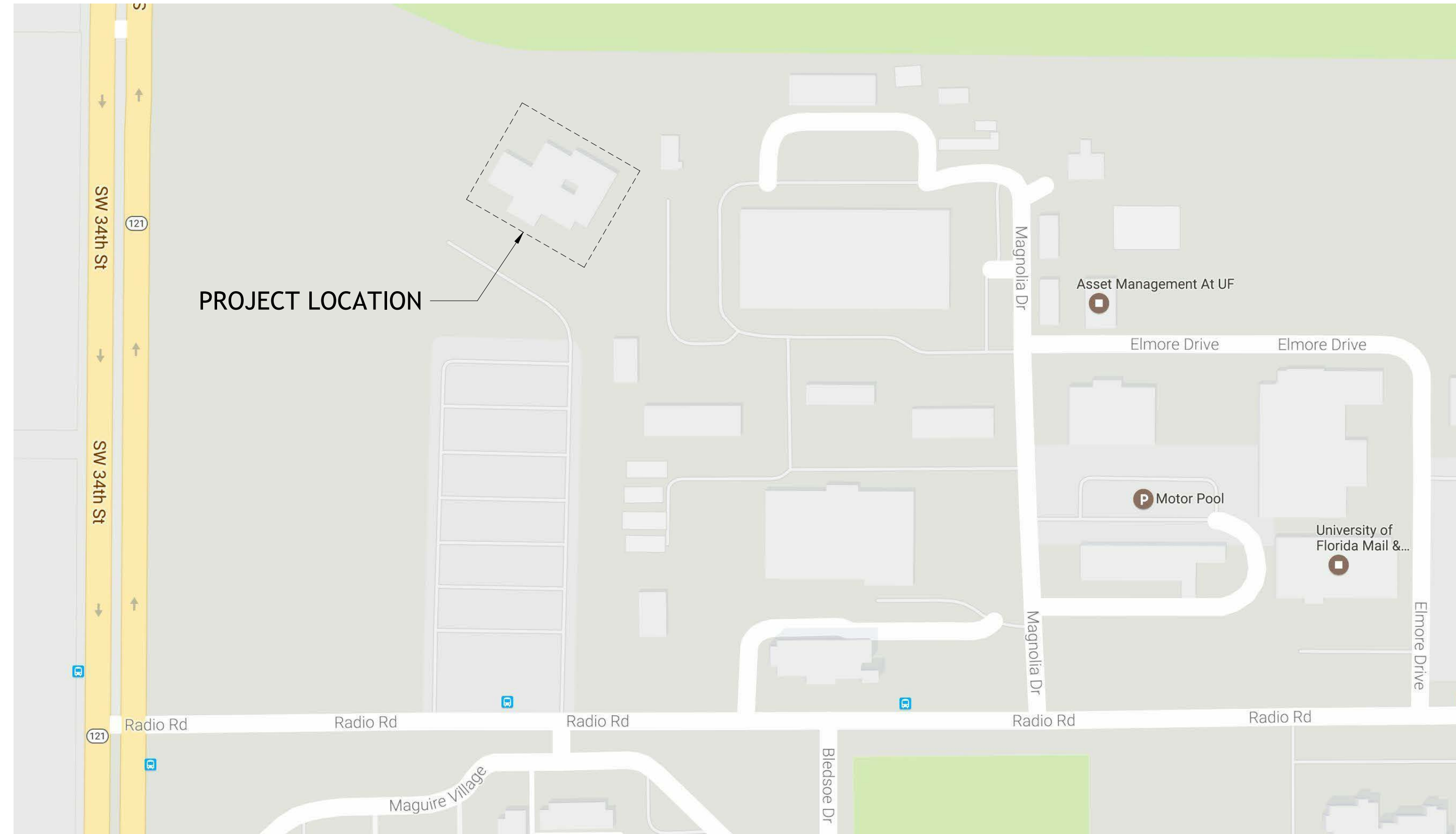
**PHASING LEGEND**

PHASE 1

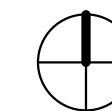
PHASE 2



# MP02649 BUILDING 700 - INTERIOR RENOVATION



LOCATION MAP



## SHEET INDEX

G100	COVER SHEET
	<b>LIFE SAFETY</b>
LS111	LIFE SAFETY BUILDING SUMMARY, CODE REFERENCE AND FLOOR PLAN
	<b>ARCHITECTURAL</b>
A101	ARCHITECTURAL DEMOLITION FLOOR PLAN AND REF. CEILING PLAN
A111	ARCHITECTURAL RENOVATION FLOOR PLAN & REFLECTED CEILING PLAN
A112	ARCHITECTURAL PARTITION AND DIMENSION FLOOR PLANS
A113	ARCHITECTURAL FINISH FLOOR PLAN, SCHEDULE AND LEGEND
A410	ARCHITECTURAL ENLARGED FLOOR PLAN WORKROOM 108 AND ELEVATIONS
A411	ARCHITECTURAL ENLARGED PLANS RESTROOMS 105, 106 AND ELEVATIONS
A412	ARCHITECTURAL ENLARGED FLOOR PLANS, ELEVATIONS AND DETAILS
A510	ARCHITECTURAL OPENING SCHEDULE, TYPES, AND DETAILS
A610	ARCHITECTURAL INTERIOR PARTITION TYPES
	<b>MECHANICAL</b>
M001	MECHANICAL LEGEND, NOTES, DETAILS & SCHEDULES
M101	MECHANICAL DEMOLITION FLOOR PLAN
M201	MECHANICAL FLOOR PLAN
	<b>PLUMBING</b>
P001	PLUMBING LEGEND, NOTES, DEMOLITION PLAN AND SCHEDULE
P101	PLUMBING FLOOR PLANS AND RISER
	<b>ELECTRICAL</b>
E001	ELECTRICAL LEGEND, NOTES & ABBREVIATIONS
E101	ELECTRICAL DEMOLITION FLOOR PLAN, DETAIL & NOTES
E201	ELECTRICAL POWER FLOOR PLAN
E202	ELECTRICAL LIGHTING FLOOR PLAN
E301	ELECTRICAL PANEL SCHEDULES
E302	ELECTRICAL RISERS AND DETAILS
	<b>TELECOMMUNICATION</b>
T101	TELECOMM FLOOR PLAN, LEGEND & RISER



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**G100**  
COVER SHEET





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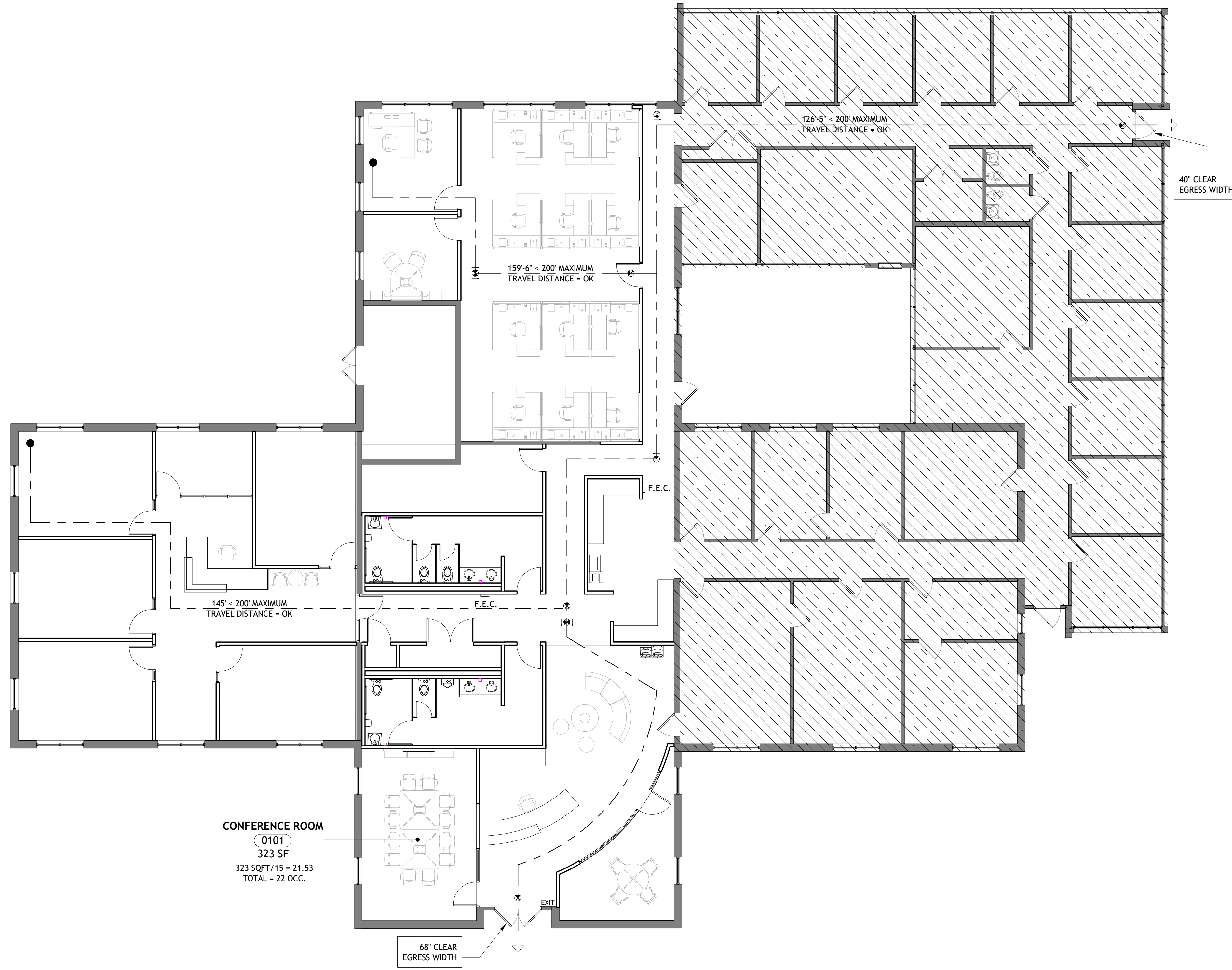
**LS111**  
LIFE SAFETY  
BUILDING SUMMARY,  
CODE REFERENCE  
AND FLOOR PLAN

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LIFE SAFETY LEGEND	
	EGRESS EXIT
	PATH OF TRAVEL
	1HR FIRE RATING
	2HR FIRE RATING
	F.E.C. FIRE EXTINGUISHER CABINET
	F.E. WALL MOUNTED FIRE EXTINGUISHERS
	EXIT SIGN
	TACTILE EXIT SIGNAGE PER FBCB (2014) 1006.3.4, & NFPA 101(2014) 7.10.1.3.

CODE REFERENCE	
ALL UNIVERSITY OF FLORIDA DESIGN AND CONSTRUCTION STANDARDS	
FFPC	FLORIDA FIRE PREVENTION CODE 5th EDITION - 2014
NFPA 1	FIRE CODE - 2012
NFPA 101	LIFE SAFETY CODE - 2012
NFPA 10	STANDARD FOR PORTABLE FIRE EXTINGUISHERS - 2010
NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS - 2010
NFPA 70	NATIONAL ELECTRICAL CODES - 2011
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE - 2010
NFPA 90A	INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2012
FBC	FLORIDA BUILDING CODE, BUILDING - 2014
FBC	FLORIDA BUILDING CODE, EXISTING BUILDING - 2014
FBC	FLORIDA BUILDING CODE, MECHANICAL - 2014
FBC	FLORIDA BUILDING CODE, PLUMBING - 2014
FLORIDA ADMINISTRATIVE CODE (FAC) AND FLORIDA STATUTES AS AMENDED, INCLUDING BUT NOT LIMITED TO:	
A.	STATE OF FLORIDA ENERGY CONSERVATION CODE (FLEET ANALYSIS PROGRAM)
B.	RULES AND REGULATIONS OF THE STATE FIRE MARSHAL (TITLE 4A)
C.	RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

EXISTING BUILDING CODE SUMMARY: BLDG 700	
OCCUPANCY CLASSIFICATION	BUSINESS "B"
EXISTING CONSTRUCTION TYPE	TYPE - III, UNPROTECTED
FIRE SUPPRESSION SYSTEM	NOT SPRINKLERED
PORTABLE FIRE EXTINGUISHERS	PROVIDE 75 FT. MAX.
PROJECT SQUARE FOOTAGE	
BUILDING 700	6,254 SQFT
TOTAL PROJECT AREA = 6,254 SQFT	
OCCUPANT LOAD	
PPD - BUILDING 700	BUSINESS (B) = 5,931 SQFT /100 = 59.31
	ASSEMBLY (A) - CONF RM 0101 = 323 SQ FT /15 = 21.53
TOTAL OCC. LOAD = 80.84 = 81 OCC.	
EGRESS REQUIREMENTS	
MINIMUM CORRIDOR WIDTH	81 OCC. X 0.2 INCH = 16.2" (44" MIN.)
MAXIMUM TRAVEL DISTANCE	200' (NOT SPRINKLERED)
COMMON PATH OF TRAVEL	50' (NOT SPRINKLERED)
MAXIMUM DEAD END CORRIDOR	20' (NOT SPRINKLERED)



1 LIFE SAFETY PLAN  
1/8" = 1'-0"





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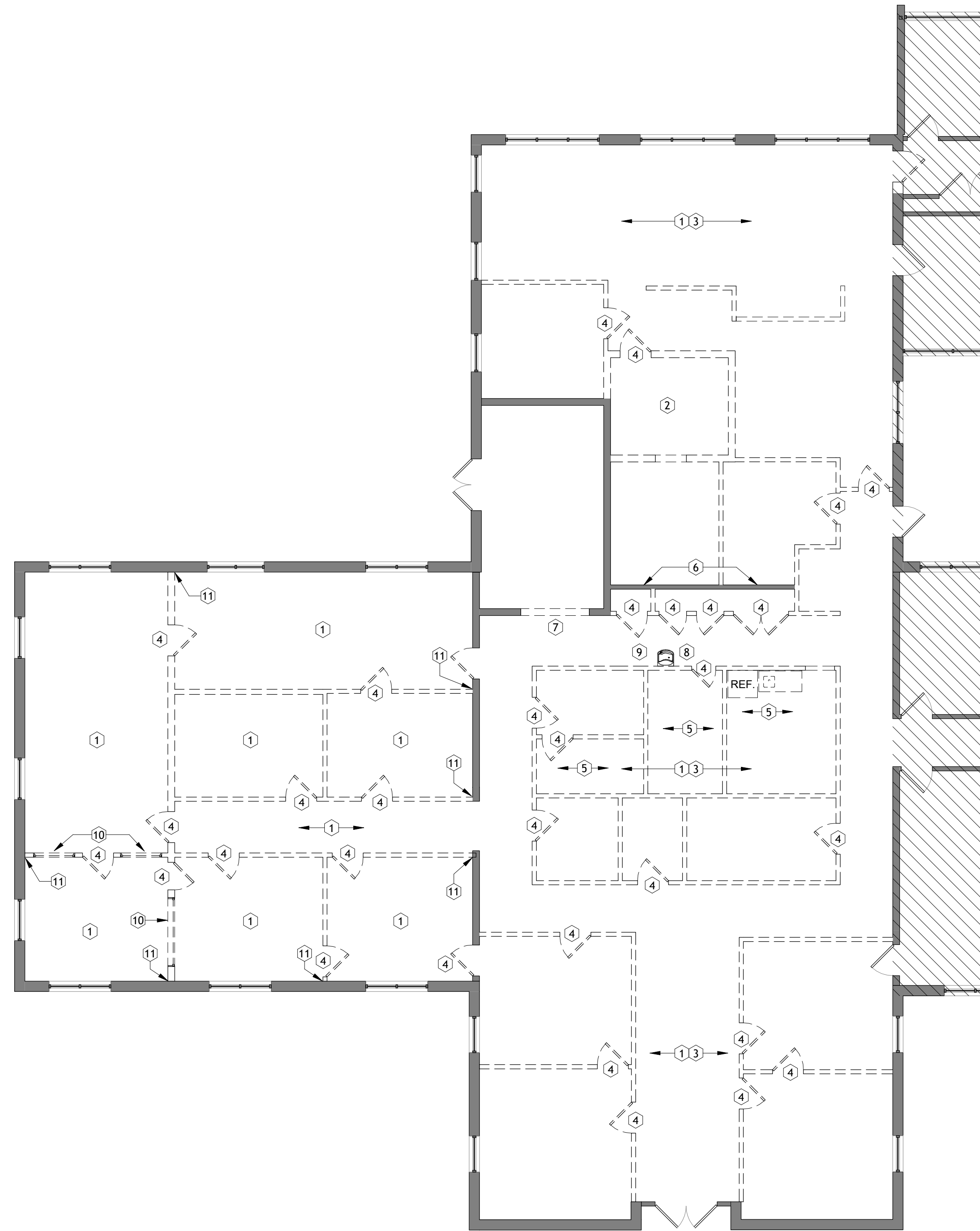
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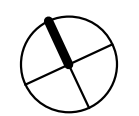
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**A101**  
ARCHITECTURAL  
DEMOLITION FLOOR  
PLAN AND REF.  
CEILING PLAN

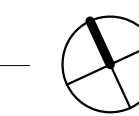
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1 DEMOLITION FLOOR PLAN  
1/8" = 1'-0"



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



**DEMOLITION NOTES**

1	REMOVE EXISTING FLOOR FINISH, WALL BASE AND PREP AND SKIN FLOOR AS REQUIRED TO RECEIVE NEW FINISH AS SCHEDULED
2	REMOVE 8" CMU PARTITION
3	REMOVE EXISTING FRAMED GWB PARTITION WALL TO DECK ABOVE CEILING
4	REMOVE EXISTING DOOR, FRAME AND ALL ASSOCIATED HARDWARE (TURN KEY CYLINDER OVER TO OWNER)
5	REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED HARDWARE
6	EXISTING MECHANICAL ROOM WALL TO REMAIN
7	REMOVE EXISTING WALL MOUNTED RETURN AIR GRILLE FOR FUTURE DUCTED RETURN SYSTEM
8	REMOVE EXISTING WATER COOLER
9	REMOVE EXISTING FIRE HOSE CABINET AND ALL ASSOCIATED PIPING
10	REMOVE EXISTING INTERIOR WINDOW
11	PATCH AND REPAIR WALLS AS REQUIRED

**WALL TYPE LEGEND**

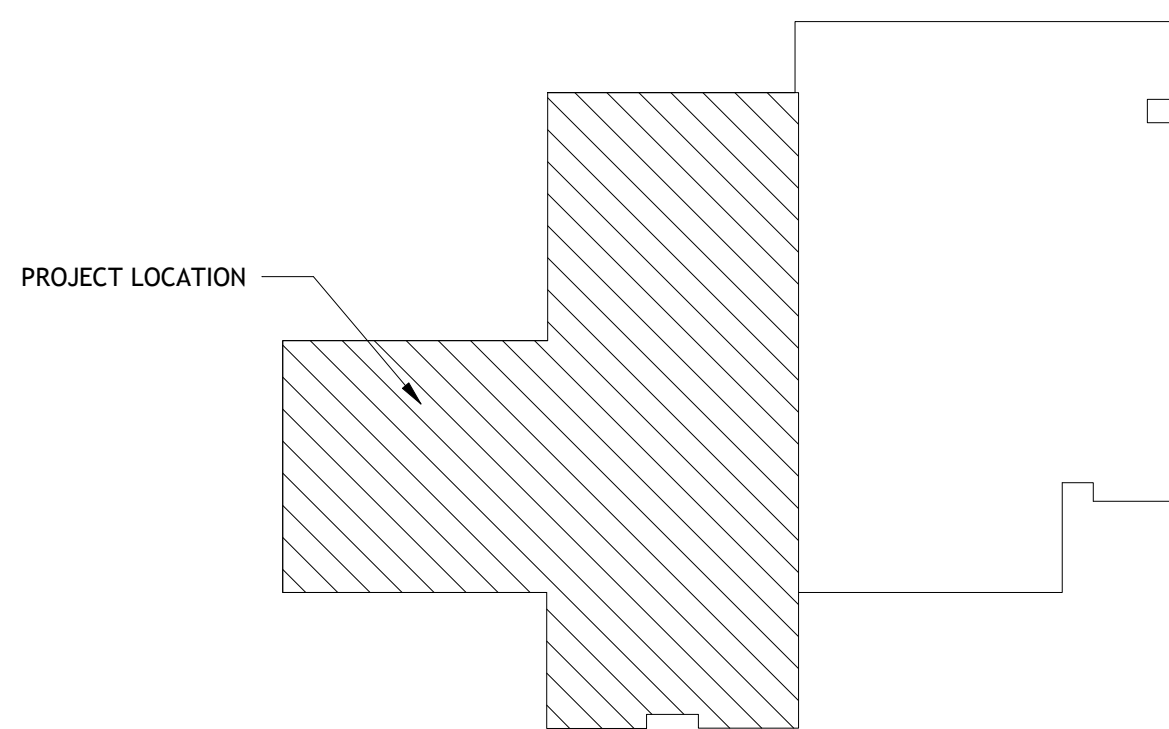
	EXISTING WALLS
	WALLS TO BE REMOVED
	NEW CONSTRUCTION

**DEMOLITION RCP NOTES**

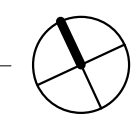
1	REMOVE EXISTING SUSPENDED CEILING SYSTEM AND ALL ASSOCIATED LIGHTING FIXTURES AND GRILLES
2	REMOVE EXISTING HARD CEILING AND ALL ASSOCIATED LIGHTING AND HVAC FIXTURES
3	EXISTING SKYLIGHT TO REMAIN, CLEAN EXISTING LENS AND SEAL ALL JOINTS

**DEMO RCP LEGEND**

	2x2 CEILING GRID		EXIT SIGN
	2x2 LAY-IN FIXTURE		SUPPLY DIFFUSERS
	2x2 LAY-IN FIXTURE		RETURN GRILLE
	RECESSED DOWNLIGHT		SKYLIGHT



KEY PLAN  
1/32" = 1'-0"







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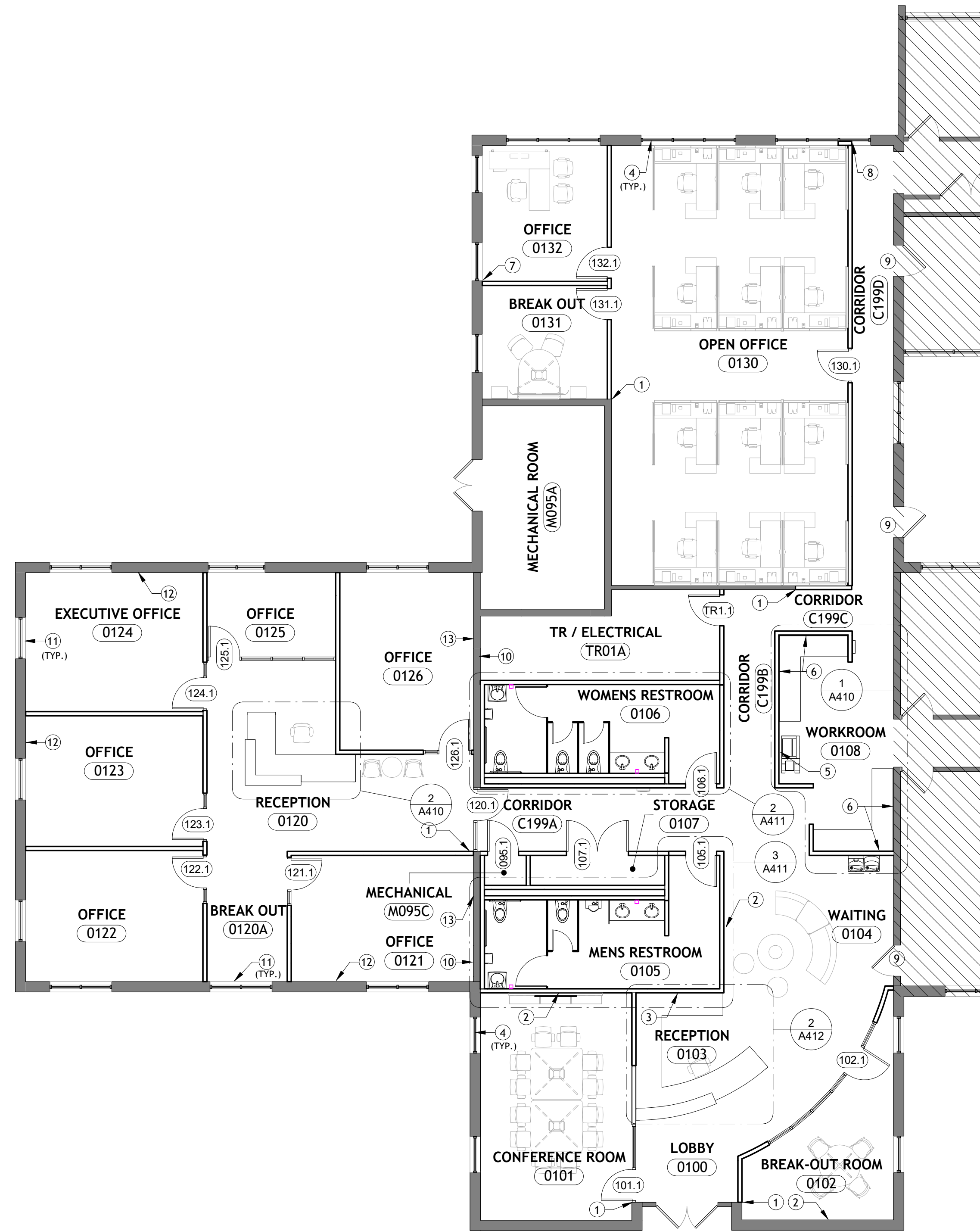
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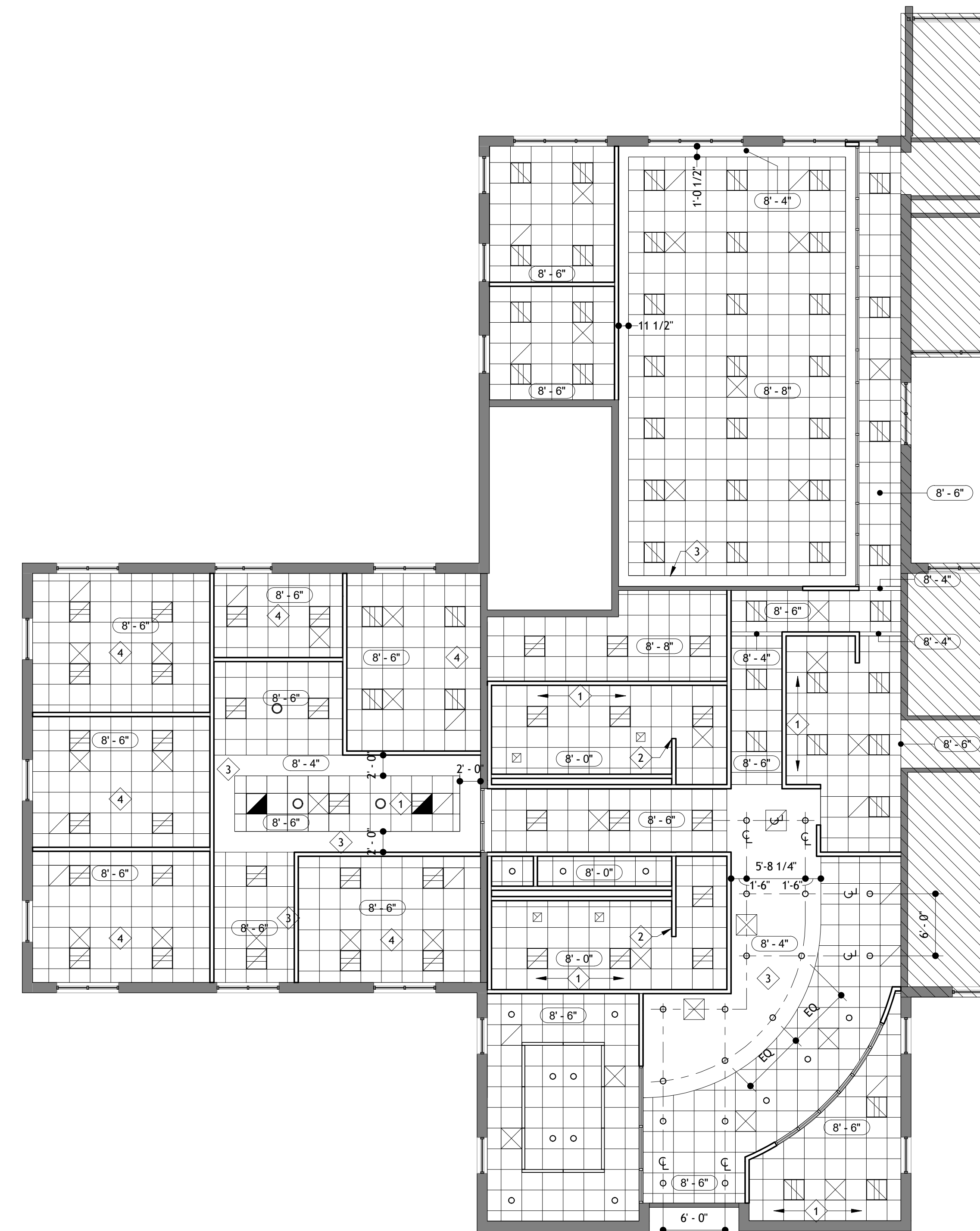
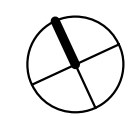
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**A111**  
ARCHITECTURAL RENOVATION FLOOR PLAN & REFLECTED CEILING PLAN

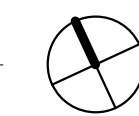
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1 ARCHITECTURAL RENOVATION FLOOR PLAN  
1/8" = 1'-0"



2 ARCHITECTURAL RENOVATION REFLECTED CEILING PLAN  
1/8" = 1'-0"



- RENOVATION NOTES**
- ALIGN FINISHED FACE OF NEW GWB PARTITION TO FINISH FLUSH WITH EXISTING ADJACENT FINISH
  - PROVIDE POWER AND DATA AT THIS LOCATION FOR WALL MOUNTED DISPLAY (SEE ELECTRICAL)
  - PROVIDE 6" BRUSHED ALUMINUM LETTERS AND BLOCKING AT THIS LOCATION FOR SUITE SIGNAGE
  - INSTALL ROLLER SHADES AT ALL EXTERIOR OPENINGS (TYP.)
  - PROVIDE DEDICATED CIRCUIT AND DATA FOR COPIER
  - INSTALL BLOCKING AS REQUIRED FOR UPPER CABINETS
  - ALIGN FINISHED FACE OF NEW GWB PARTITION WITH EXISTING FINISHED FACE OF WINDOW JAMB
  - PROVIDE GWB PARTITION RETURN TO CENTER LINE OF EXISTING MULLION, WRAP END OF WALL WITH ALUMINUM BREAK METAL
  - SAND, PRIME AND PAINT EXISTING DOOR FRAMES
  - INFILL EXISTING WALL OPENING, FINISH TO ALIGN FLUSH WITH ADJACENT SURFACES WITH PAINT ON 5/8" GWB ON 3 5/8" METAL STUD FRAMING
  - INSTALL NEW SOLID SURFACE WINDOW SILLS
  - PATCH AND REPAIR ALL EXISTING EXTERIOR WALL SURFACES AS REQUIRED TO PROVIDE A UNIFORM LEVEL 4 FINISH PRIOR TO PAINT
  - PATCH AND REPAIR ALL EXISTING WALL SURFACES AS REQUIRED TO PROVIDE A UNIFORM LEVEL 4 FINISH PRIOR TO PAINT

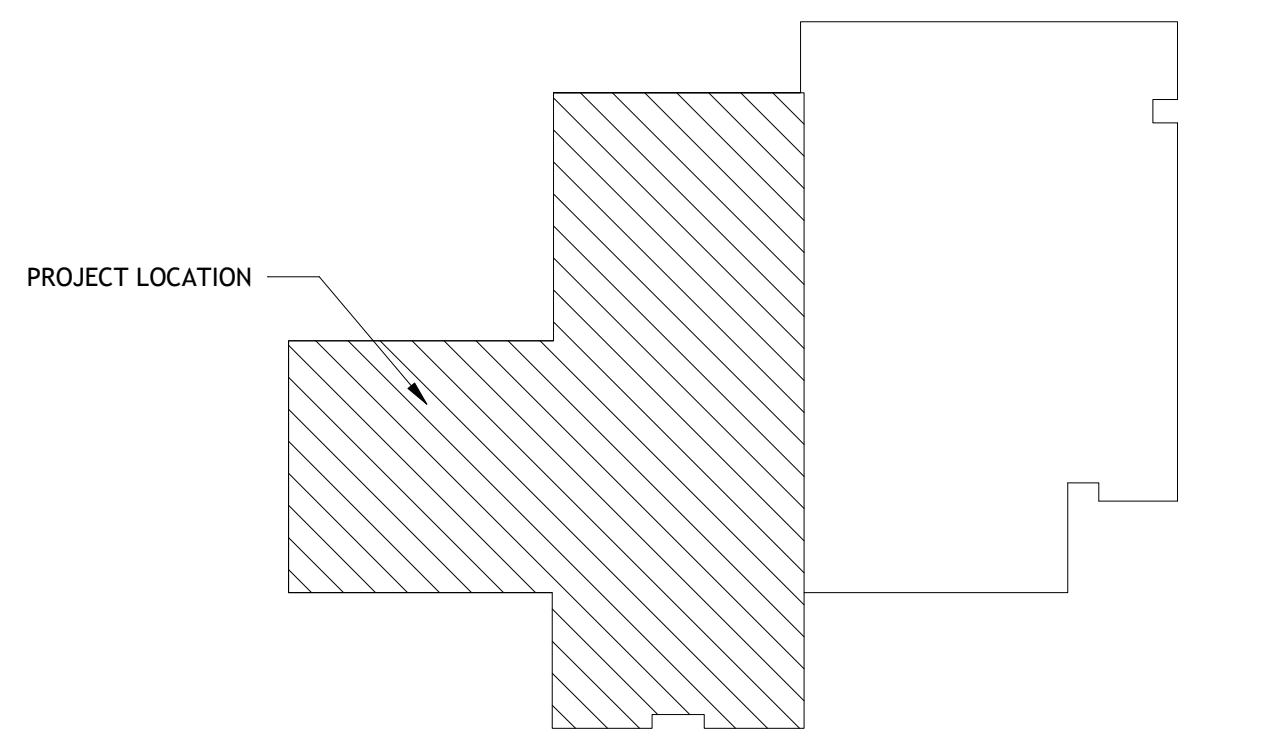
**WALL TYPE LEGEND**

	EXISTING WALLS
	WALLS TO BE REMOVED
	NEW CONSTRUCTION

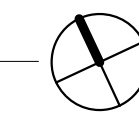
- REFLECTED CEILING PLAN NOTES**
- START CEILING GRID WITH FULL TILE AT THIS LOCATION
  - ALIGN CEILING GRID WITH ADJACENT WALL SURFACE
  - PAINT ON 5/8" GWB ON 22 GAUGE METAL STUD FRAMING SOFFIT
  - NEW SUSPENDED CEILING SYSTEM

**REFLECTED CEILING PLAN LEGEND**

	2X2 CEILING GRID		SUPPLY DIFFUSERS
	2X2 LAY-IN LIGHT FIXTURE (UNLESS NOTED OTHERWISE)		RETURN GRILLE
	RECESSED DOWNLIGHT		EXHAUST FAN
	SKYLIGHT DIFFUSER		EXIT SIGN



KEY PLAN  
1/32" = 1'-0"





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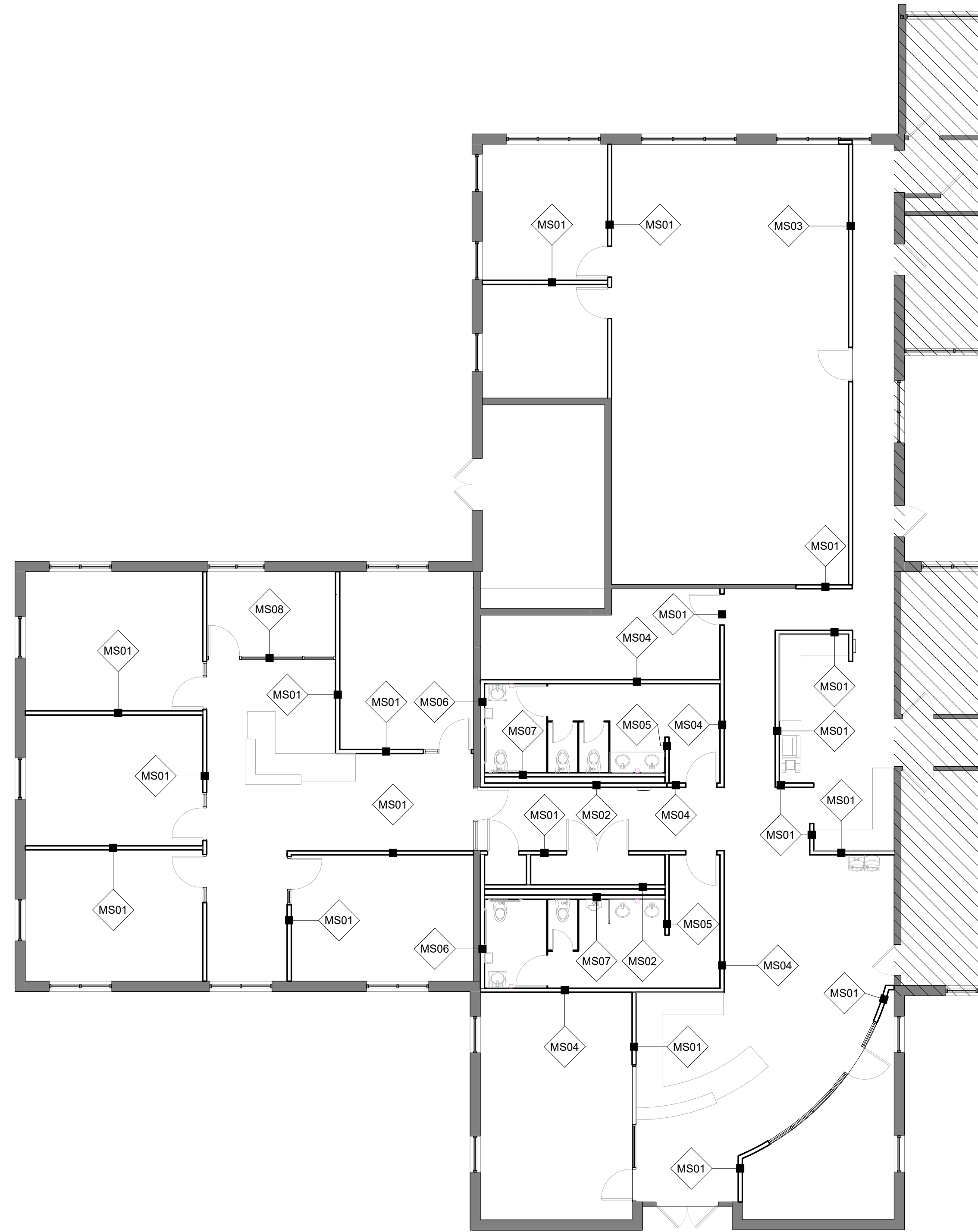
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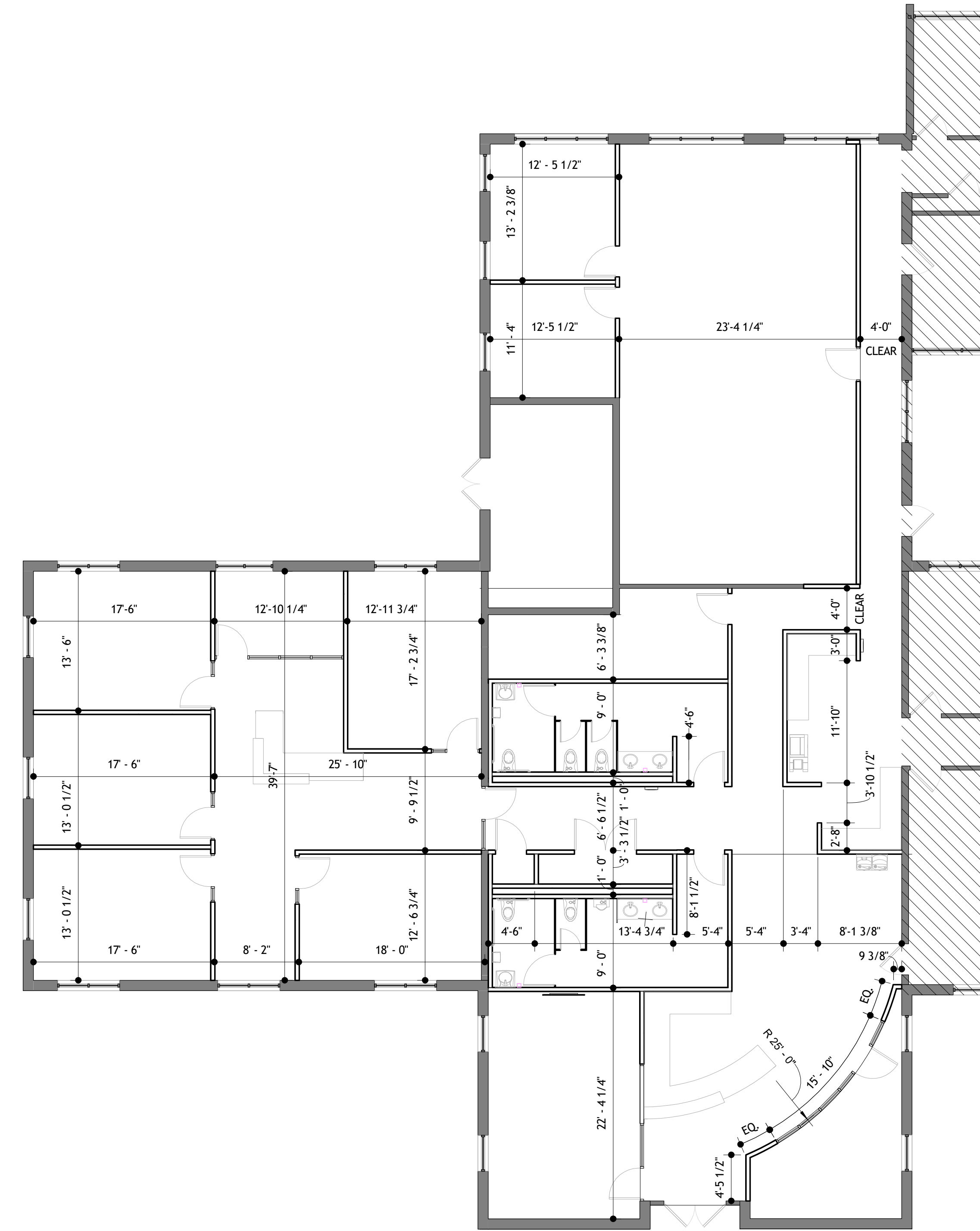
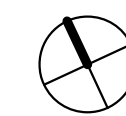
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**A112**  
ARCHITECTURAL  
PARTITION AND  
DIMENSION FLOOR  
PLANS

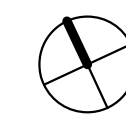
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1 ARCHITECTURAL PARTITION TYPE FLOOR PLAN  
1/8" = 1'-0"

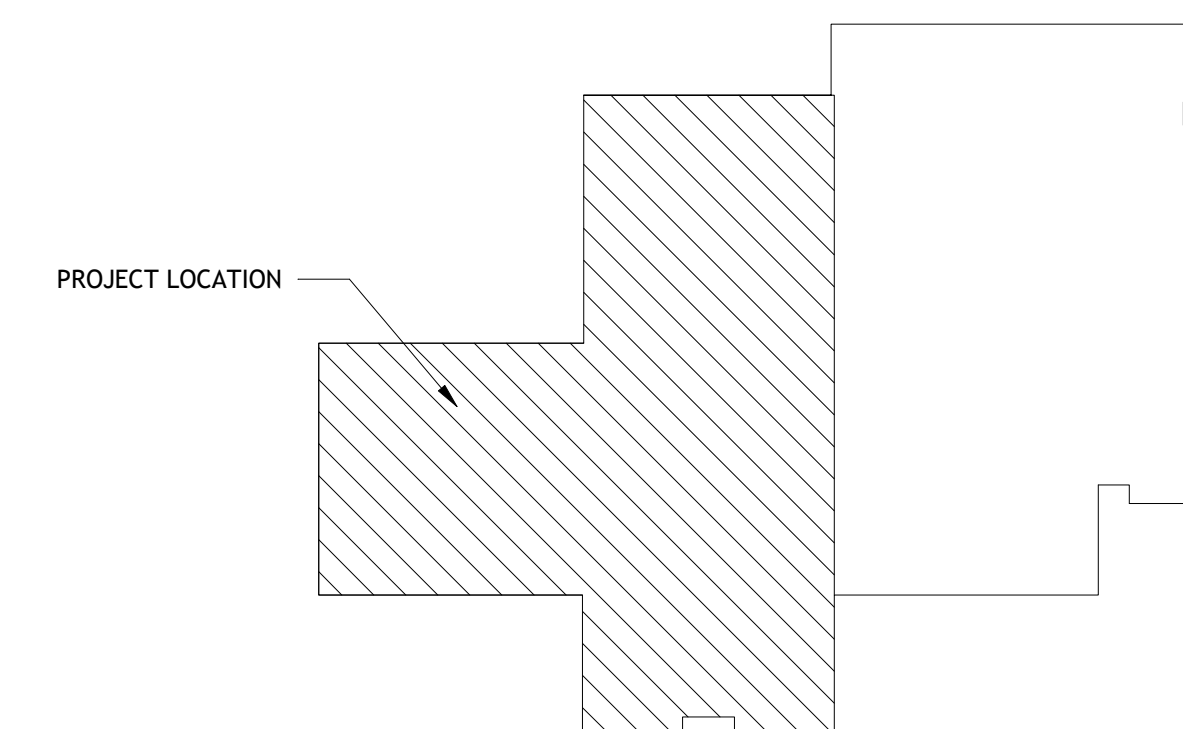


2 ARCHITECTURAL DIMENSION FLOOR PLAN  
1/8" = 1'-0"



**WALL TYPE LEGEND**

	EXISTING WALLS
	WALLS TO BE REMOVED
	NEW CONSTRUCTION



KEY PLAN  
1/32" = 1'-0"







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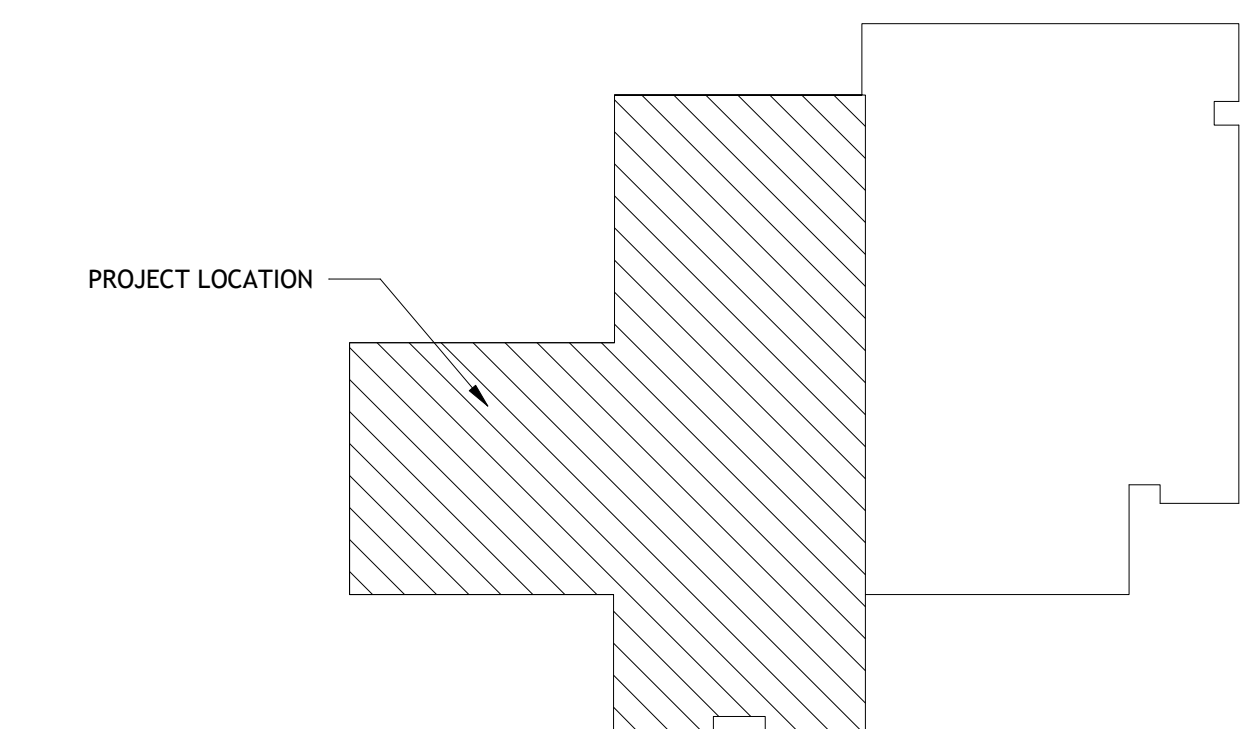
**A113**  
ARCHITECTURAL FINISH FLOOR PLAN, SCHEDULE AND LEGEND

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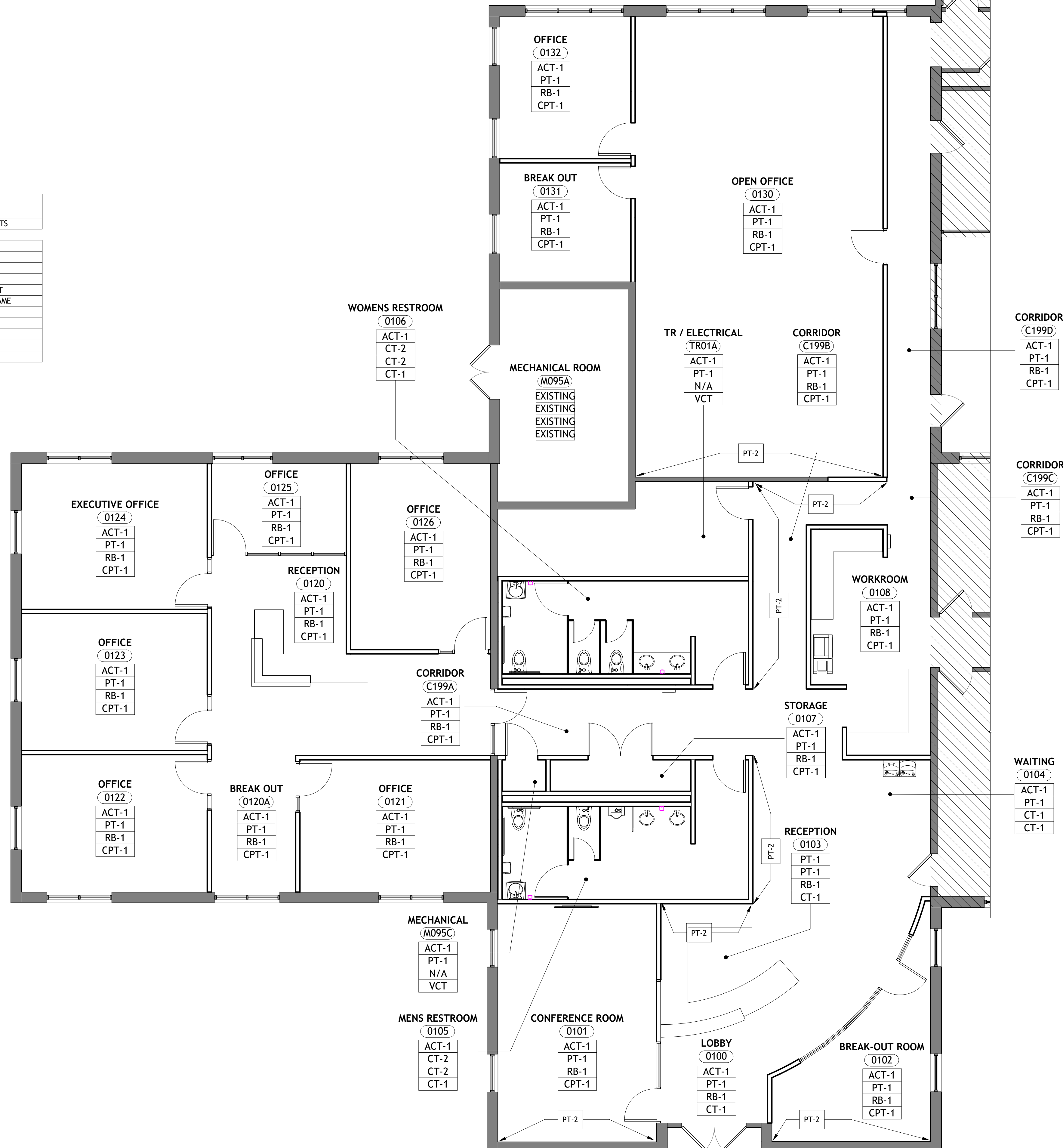
FINISH LEGEND						
MARK	MATERIAL	MANUFACTURER	COLLECTION	COLOR	LOCATION	COMMENTS
CPT-1	CARPET TILE	INTERFACE	ALTERED 5T128	IMAGE 26557	-	-
RB-1	RUBBER WALL BASE	JOHNSONITE	RUBBER 4' COVE	FLUDGE 167	-	-
CT-1	CERAMIC TILE	TRINITY TILE	ROCKSTAR	NUGENT	-	12x24
PT-1	WALL PAINT	SHERWIN WILLIAMS	-	SW7005 PURE WHITE	-	FIELD
PT-2	WALL PAINT	SHERWIN WILLIAMS	-	SW9031 PRIMAVERA	-	ACCENT
PT-3	WALL PAINT	SHERWIN WILLIAMS	-	SW7020 BLACK FOX	-	DOOR FRAME
PL-1	PLASTIC LAMINATE	WILSONART	STANDARD LAMINATE	MAGALORE MANGO 7984-38	-	VERTICAL SURFACES
PL-2	PLASTIC LAMINATE	WILSONART	STANDARD LAMINATE	SABLE SOAPSTONE 4883-38	-	HORIZONTAL SURFACES
SS-1	SOLID SURFACE	WILSONART	SOLID SURFACE	HOTSTONE 9201GS	-	RECEPTION DESK
ACT-1	ACOUSTIC TILE	ARMSTRONG	ULTIMA BEVELED TEGULAR 1894	WHITE 2x2	-	SUSPENDED CEILINGS
VCT-1	VINYL TILE	ARMSTRONG	STANDARD EXCELON	EARTHSTONE GREIGE 51804	-	-

ROOM FINISH SCHEDULE						
NUMBER	NAME	FLOOR	BASE	WALL	CEILING	Comments
0100	LOBBY	CT-1	RB-1	PT-1	ACT-1	
0101	CONFERENCE ROOM	CPT-1	RB-1	PT-1	ACT-1	
0102	BREAK-OUT ROOM	CPT-1	RB-1	PT-1	ACT-1	
0103	RECEPTION	CT-1	RB-1	PT-1	PT-1	
0104	WAITING	CT-1	CT-1	PT-1	ACT-1	
0105	MENS RESTROOM	CT-1	CT-2	CT-2	ACT-1	
0106	WOMENS RESTROOM	CT-1	CT-2	CT-2	ACT-1	
0107	STORAGE	CPT-1	RB-1	PT-1	ACT-1	
0108	WORKROOM	CPT-1	RB-1	PT-1	ACT-1	
0120	RECEPTION	CPT-1	RB-1	PT-1	ACT-1	
0120A	BREAK OUT	CPT-1	RB-1	PT-1	ACT-1	
0121	OFFICE	CPT-1	RB-1	PT-1	ACT-1	
0122	OFFICE	CPT-1	RB-1	PT-1	ACT-1	
0123	OFFICE	CPT-1	RB-1	PT-1	ACT-1	
0124	EXECUTIVE OFFICE	CPT-1	RB-1	PT-1	ACT-1	
0125	OFFICE	CPT-1	RB-1	PT-1	ACT-1	
0126	OFFICE	CPT-1	RB-1	PT-1	ACT-1	
0130	OPEN OFFICE	CPT-1	RB-1	PT-1	ACT-1	
0131	BREAK OUT	CPT-1	RB-1	PT-1	ACT-1	
0132	OFFICE	CPT-1	RB-1	PT-1	ACT-1	
C199A	CORRIDOR	CPT-1	RB-1	PT-1	ACT-1	
C199B	CORRIDOR	CPT-1	RB-1	PT-1	ACT-1	
C199C	CORRIDOR	CPT-1	RB-1	PT-1	ACT-1	
C199D	CORRIDOR	CPT-1	RB-1	PT-1	ACT-1	
M095A	MECHANICAL ROOM	EXISTING	EXISTING	EXISTING	EXISTING	
M095C	MECHANICAL	VCT	N/A	PT-1	ACT-1	
TR01A	TR / ELECTRICAL	VCT	N/A	PT-1	ACT-1	

WALL TYPE LEGEND	
	EXISTING WALLS
	WALLS TO BE REMOVED
	NEW CONSTRUCTION



KEY PLAN  
1/32" = 1'-0"



ARCHITECTURAL FINISH FLOOR PLAN  
3/16" = 1'-0"







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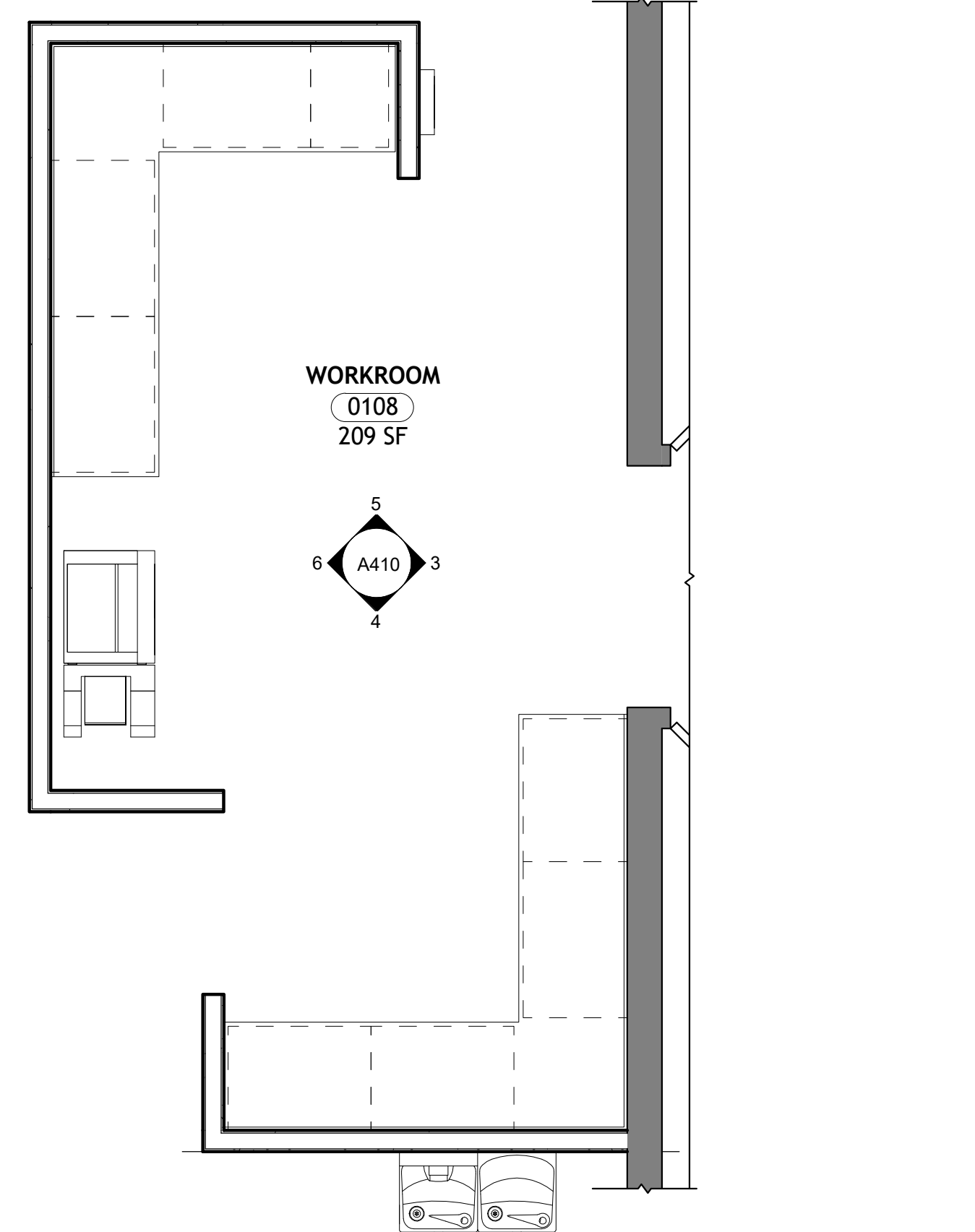
CONFORMANCE  
DOCUMENTS

Michael J. Gilfilen  
AR94453

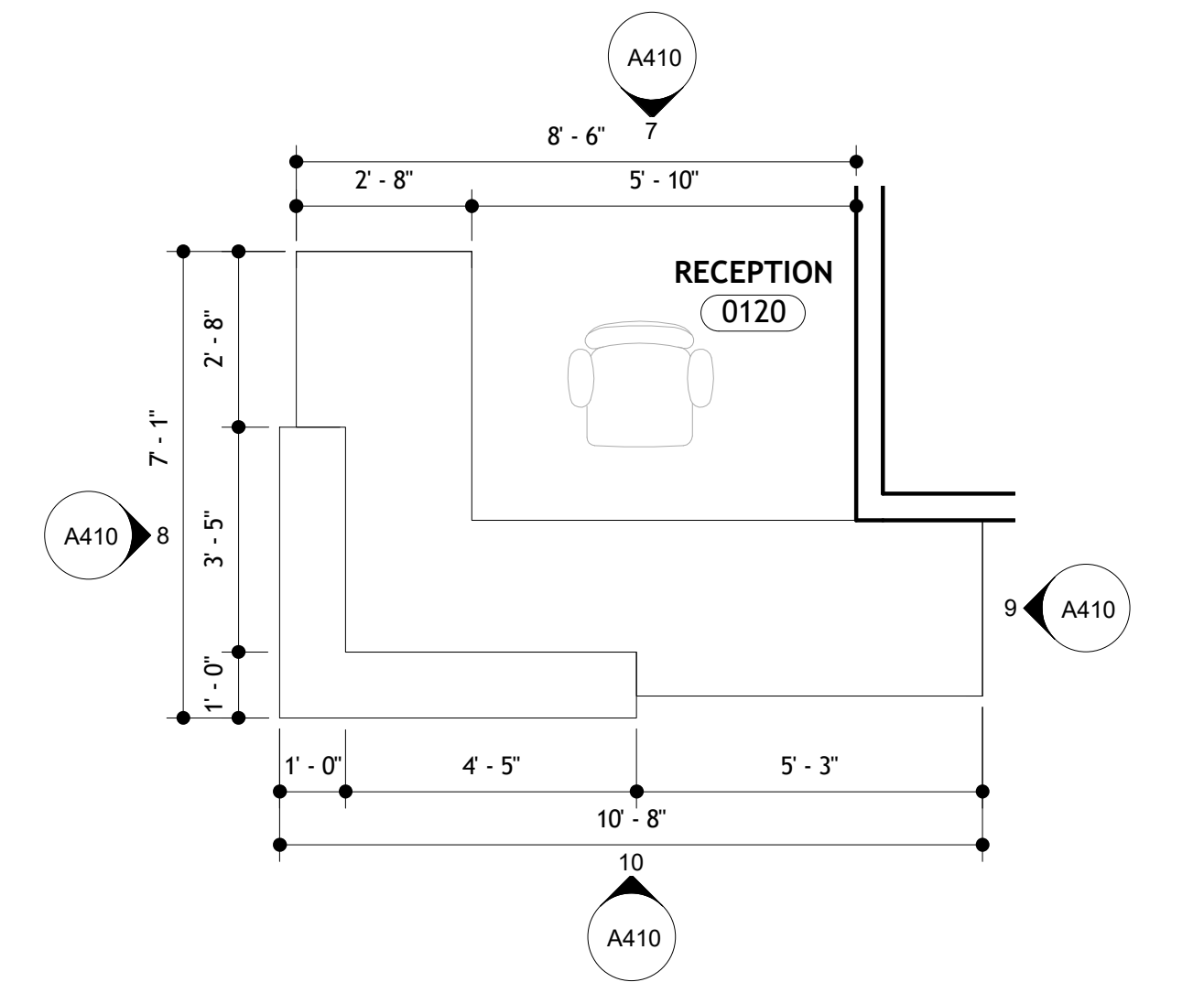
No.	DESCRIPTION	DATE

PROJECT NUMBER: 17016  
ISSUE DATE: 1 NOVEMBER 2017  
CREATED BY: MAR  
CHECKED BY: MJG

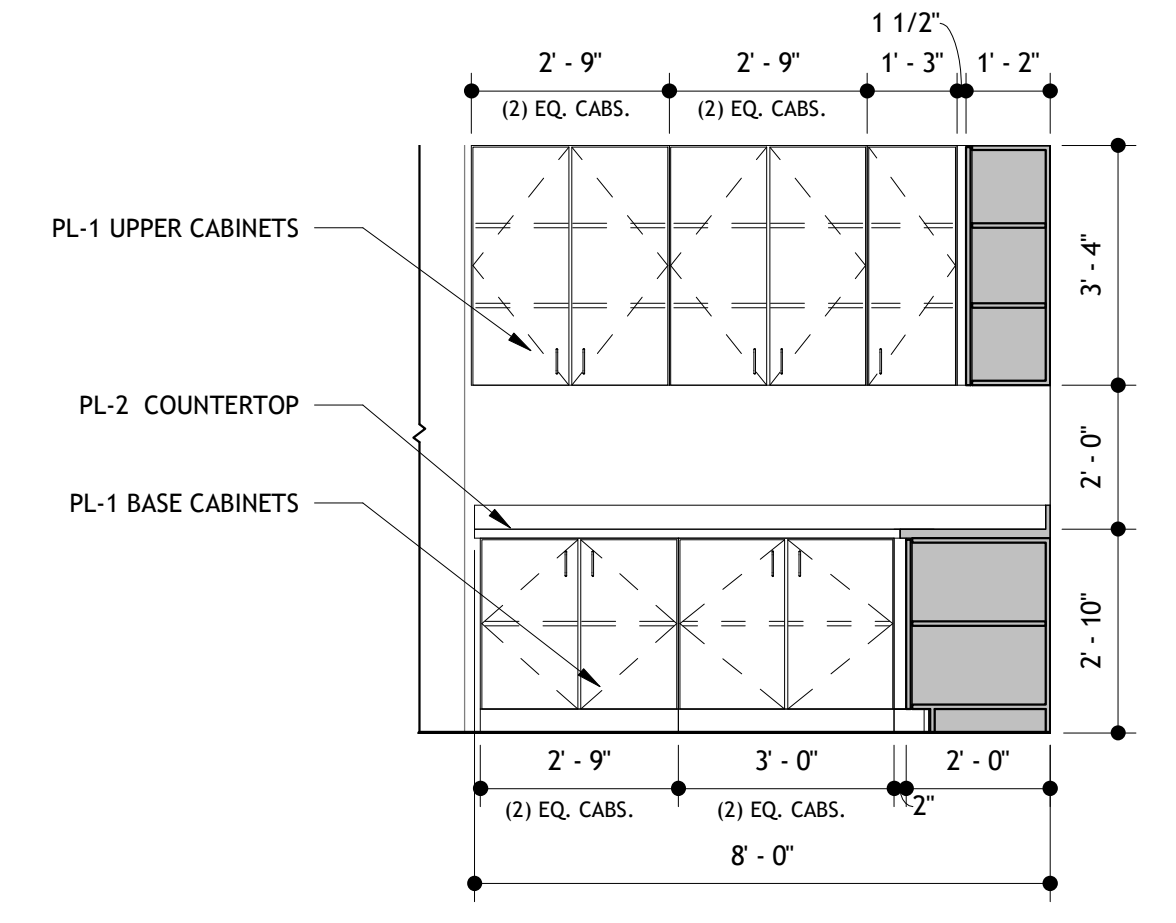
**A410**  
ARCHITECTURAL  
ENLARGED FLOOR  
PLAN WORKROOM  
108 AND ELEVATIONS



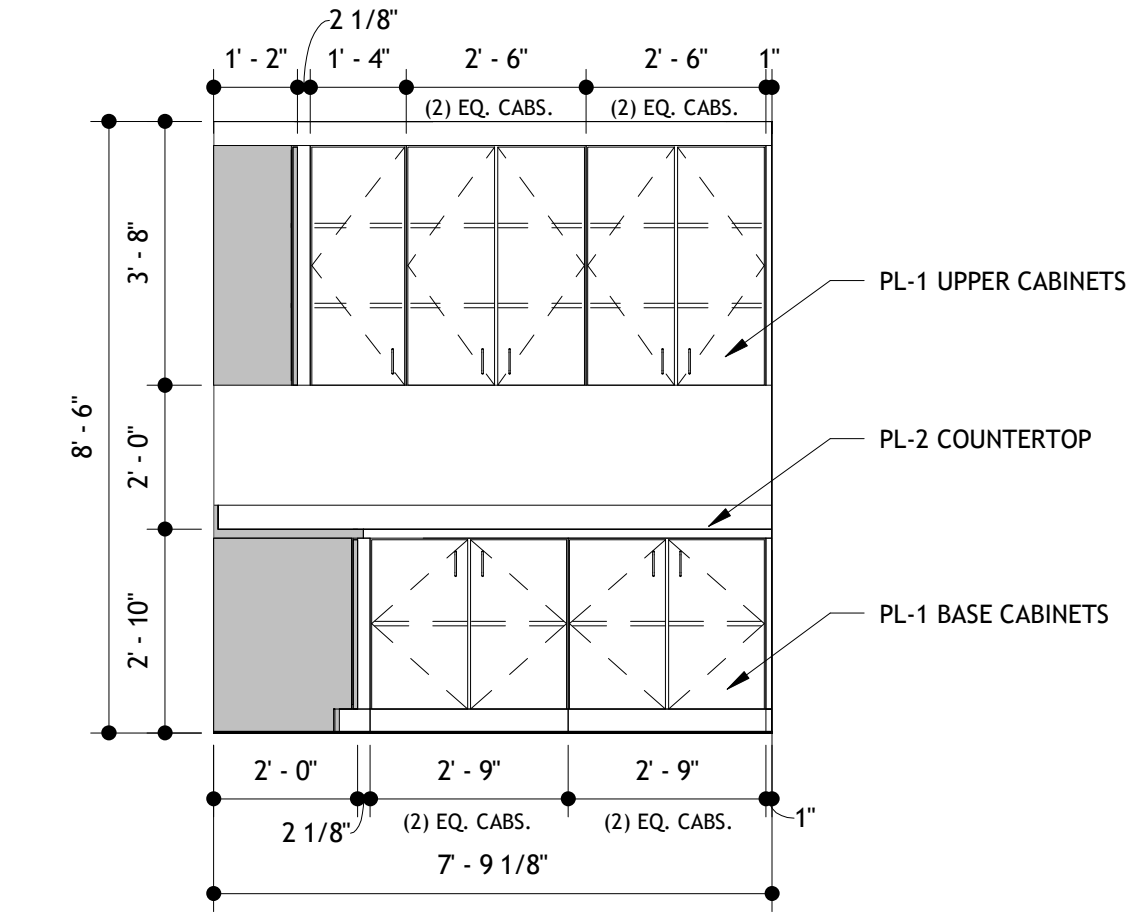
1 ENLARGED FLOOR PLAN WORKROOM 0108  
3/8" = 1'-0"



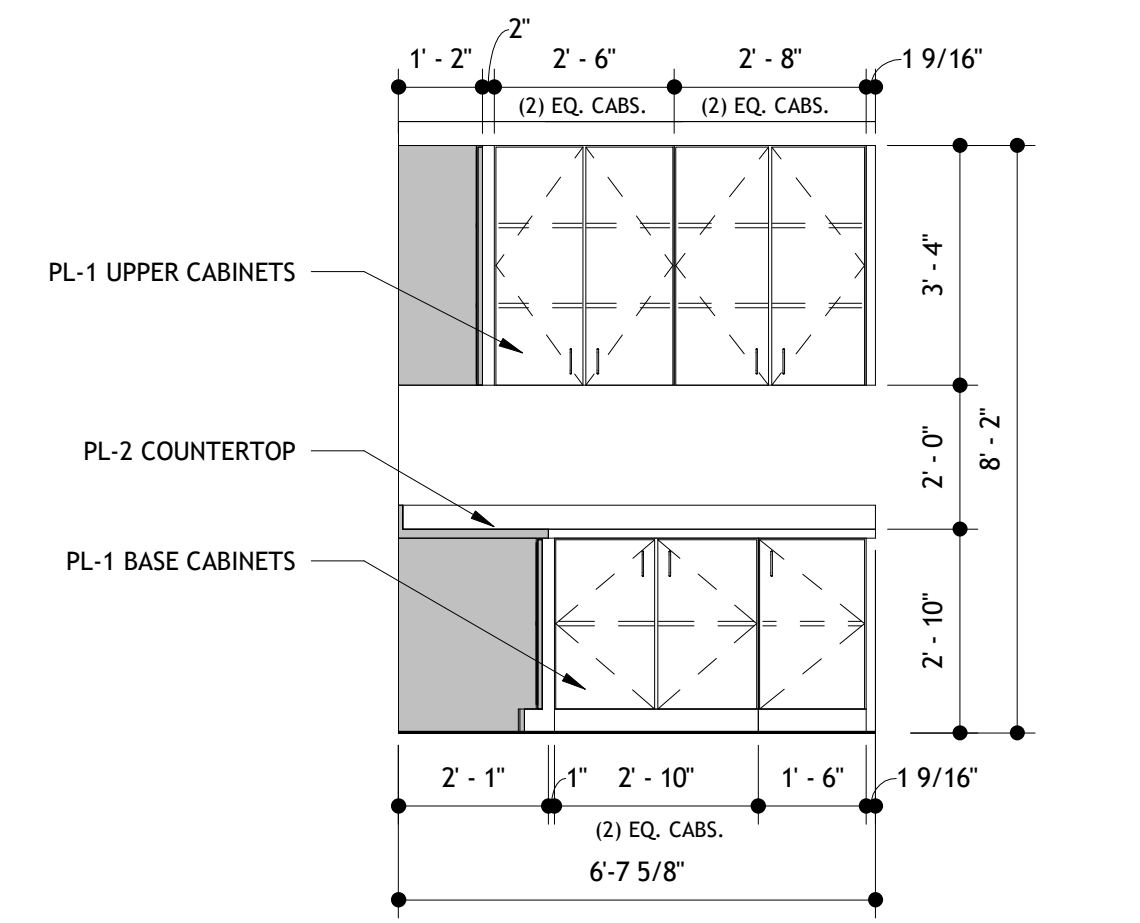
2 ENLARGED FLOOR PLAN RECEPTION 0120  
3/8" = 1'-0"



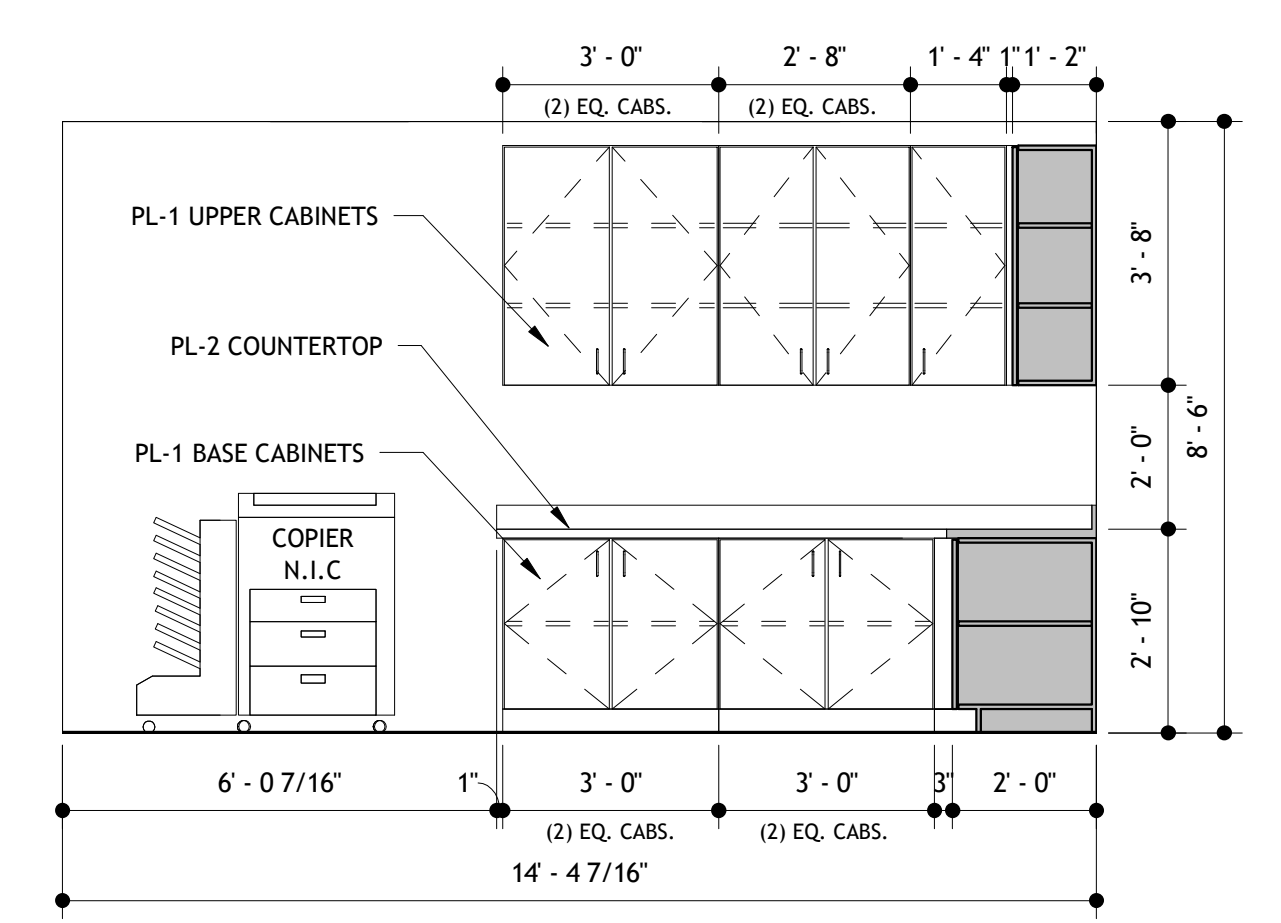
3 WORKROOM 0108 EAST ELEVATION  
3/8" = 1'-0"



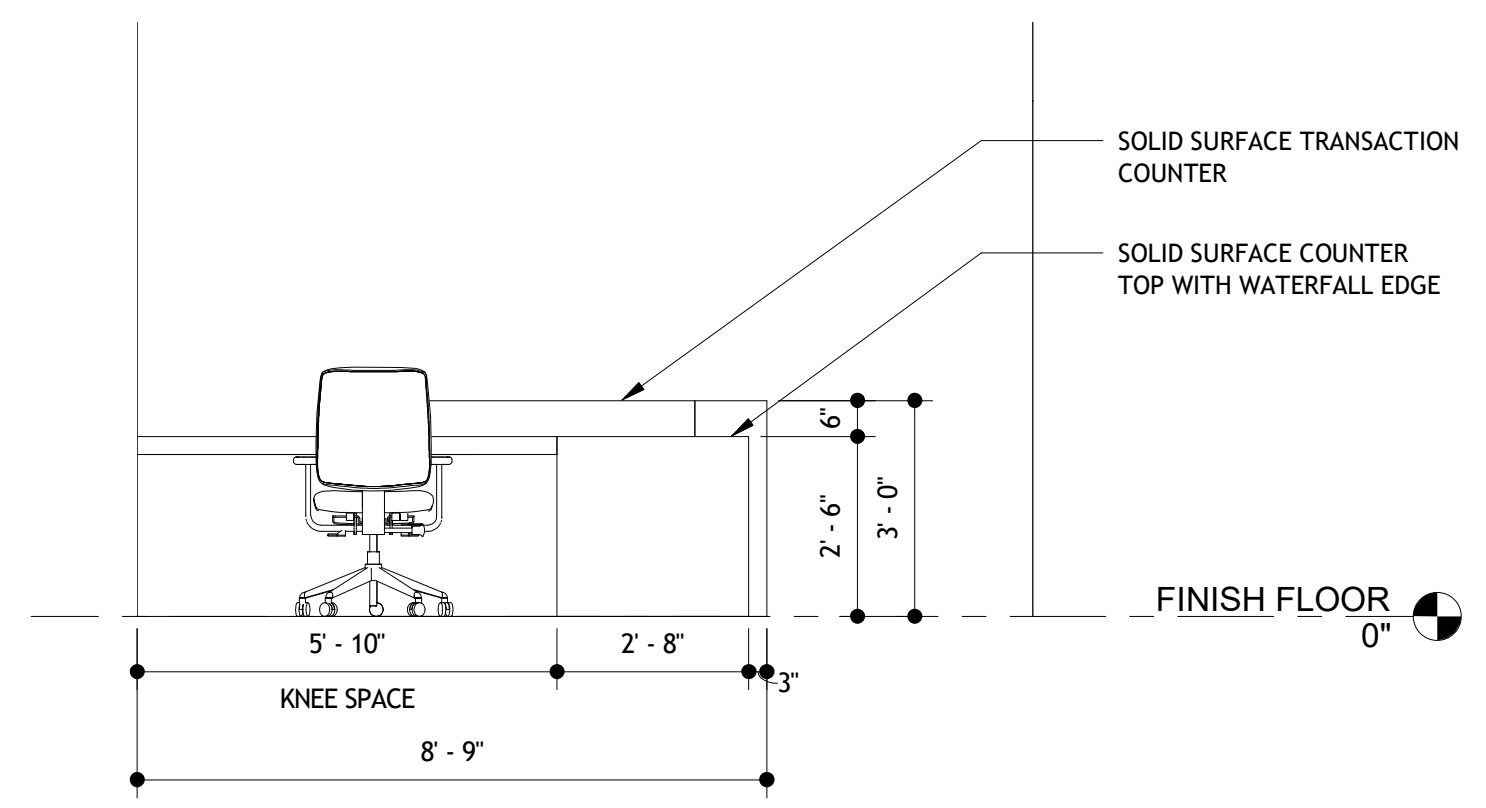
4 WORKROOM 0108 SOUTH ELEVATION  
3/8" = 1'-0"



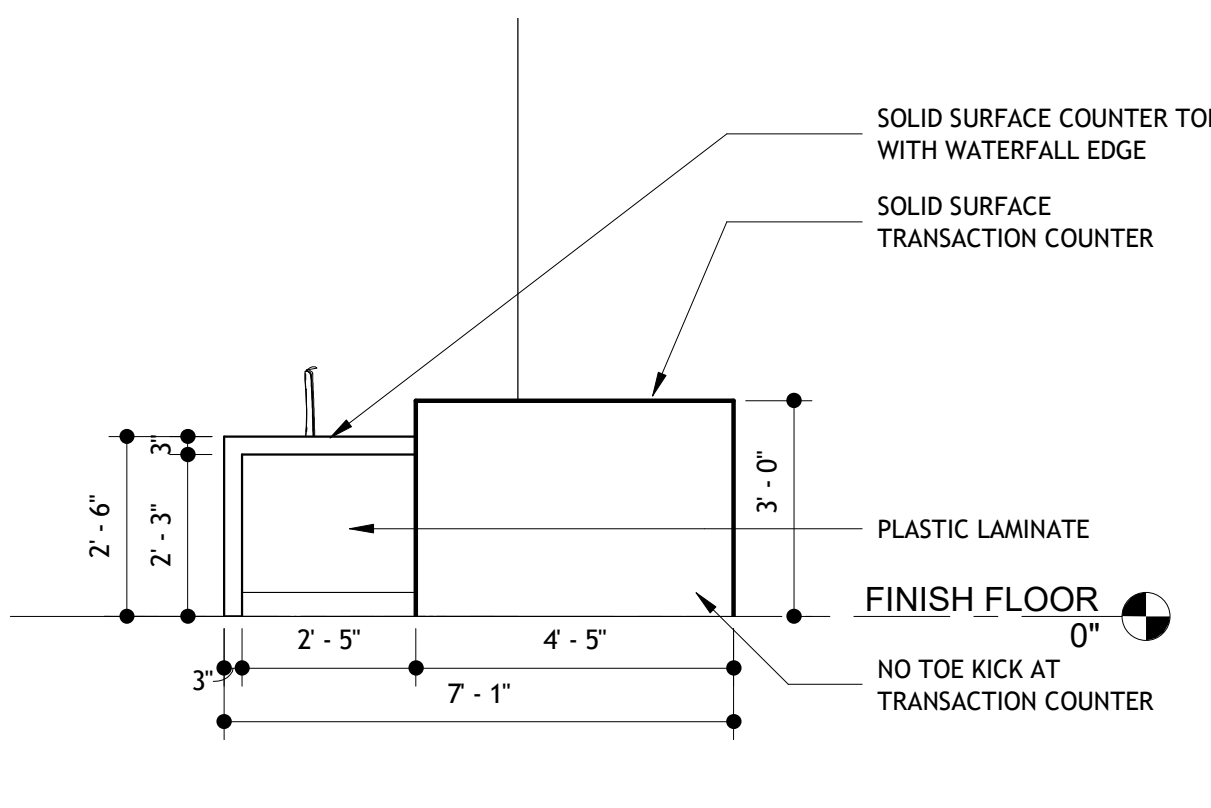
5 WORKROOM 0108 NORTH ELEVATION  
3/8" = 1'-0"



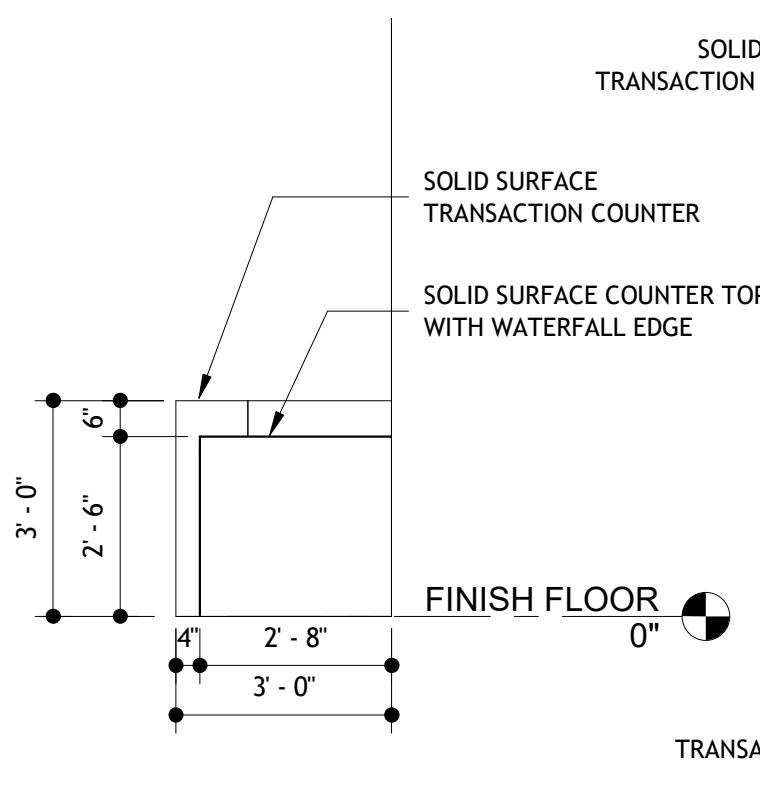
6 WORKROOM 0108 WEST ELEVATION  
3/8" = 1'-0"



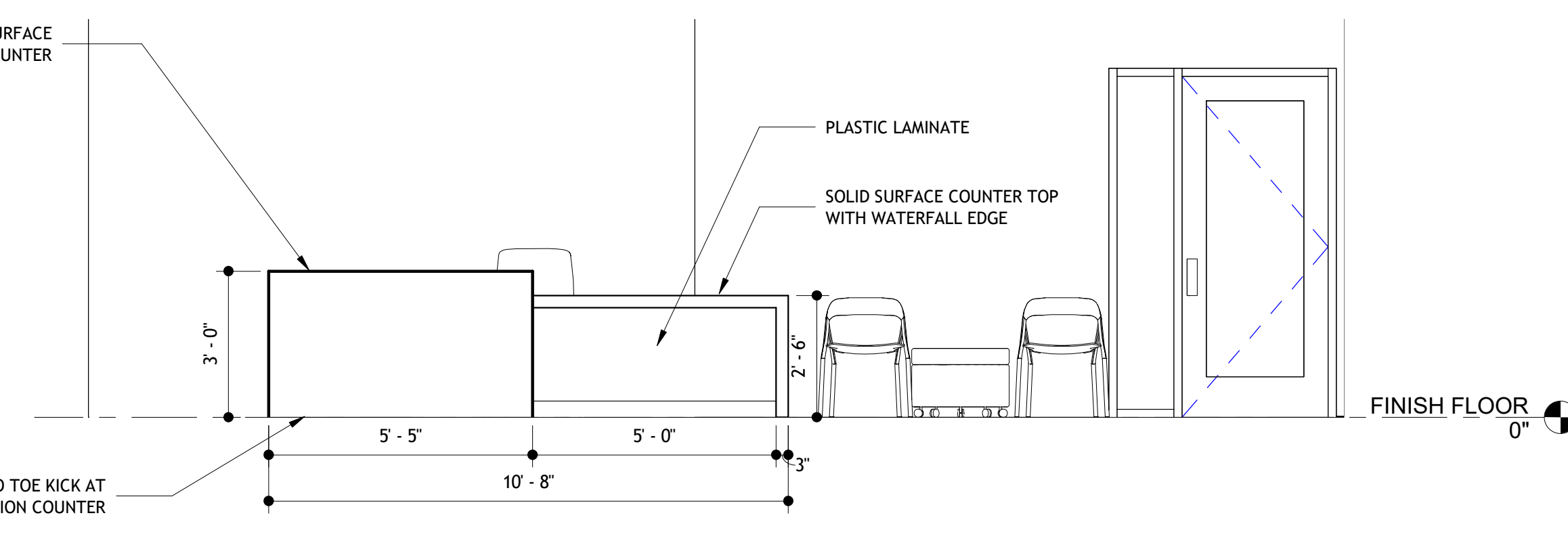
7 RECEPTION 0120 NORTH ELEVATION  
3/8" = 1'-0"



8 RECEPTION 0120 WEST ELEVATION  
3/8" = 1'-0"



9 RECEPTION 0120 EAST ELEVATION  
3/8" = 1'-0"

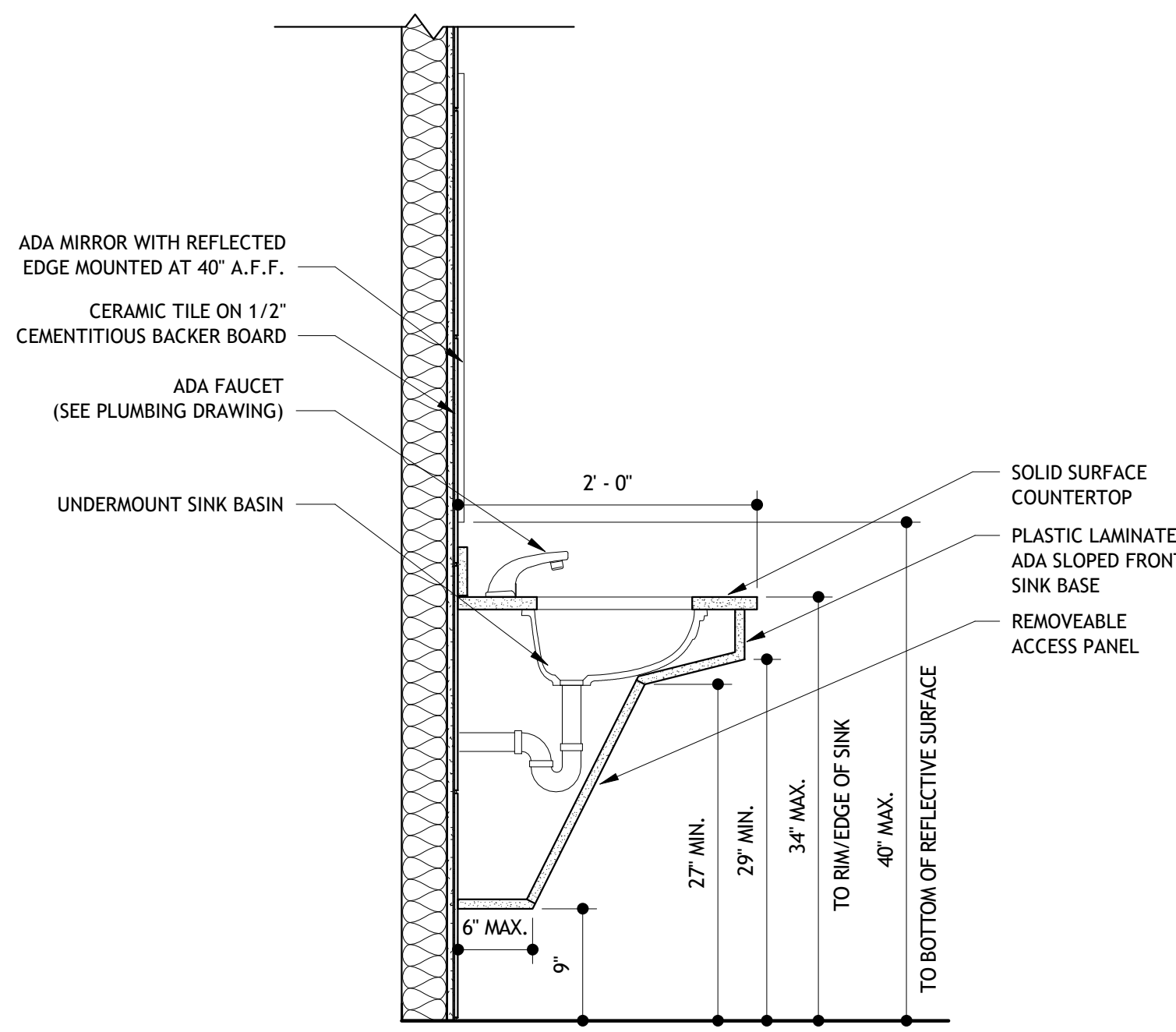


10 RECEPTION 0120 SOUTH ELEVATION  
3/8" = 1'-0"

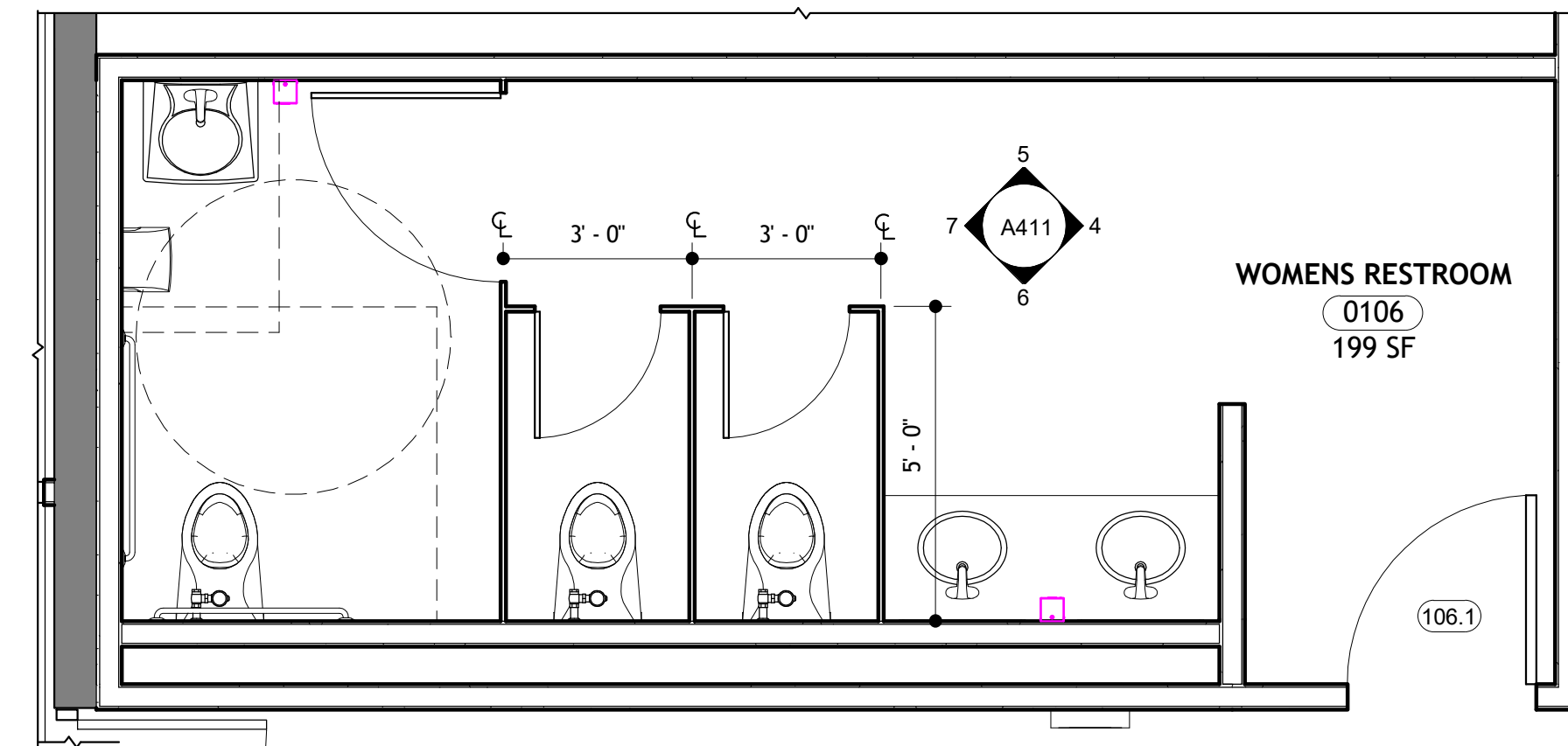


STUDIO MJG, LLC  
5206 SW 91ST TERRACE, SUITE A  
GAINESVILLE, FLORIDA 32608  
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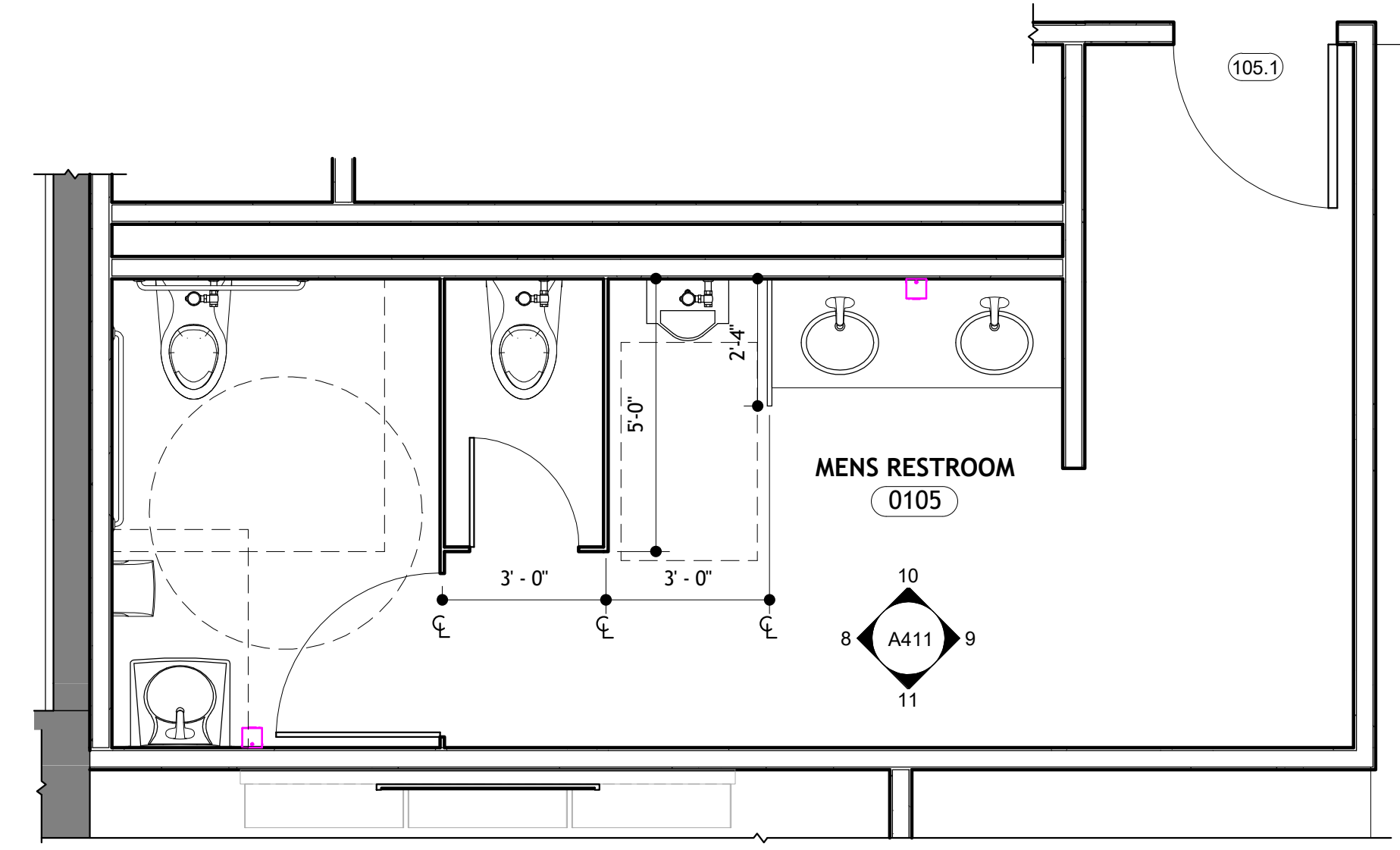
**MP02649 BUILDING 700 - INTERIOR  
RENOVATION**  
UNIVERSITY OF FLORIDA 3280 RADIO RD  
GAINESVILLE, FL 32611



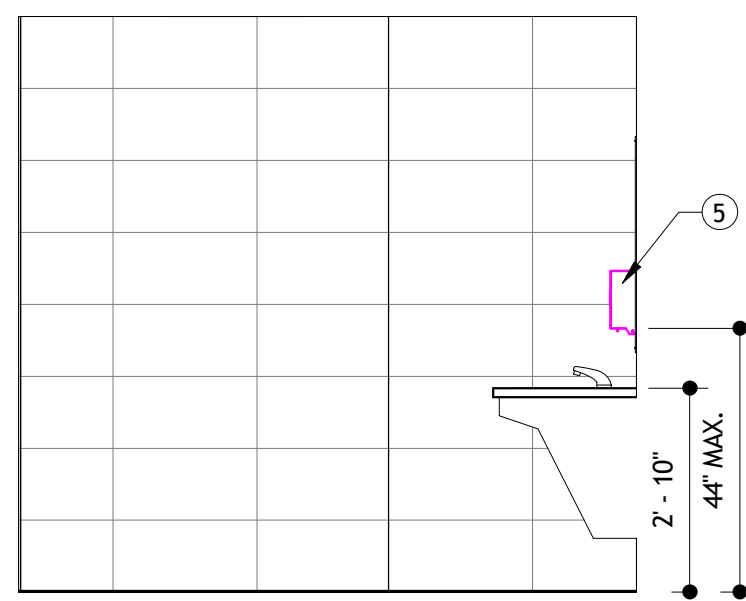
1 TYPICAL RESTROOM VANITY SINK DETAIL  
1" = 1'-0"



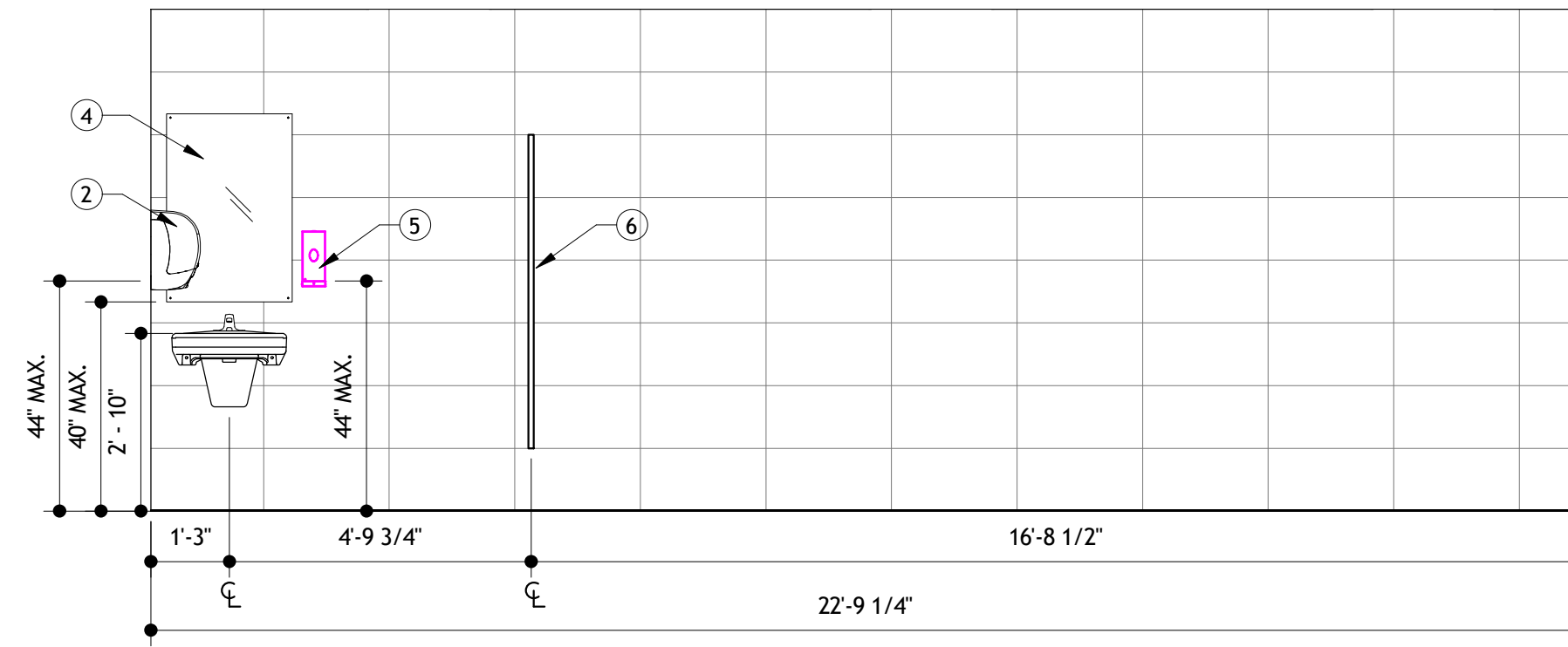
2 ENLARGED WOMENS RESTROOM 0106 FLOOR PLAN  
3/8" = 1'-0"



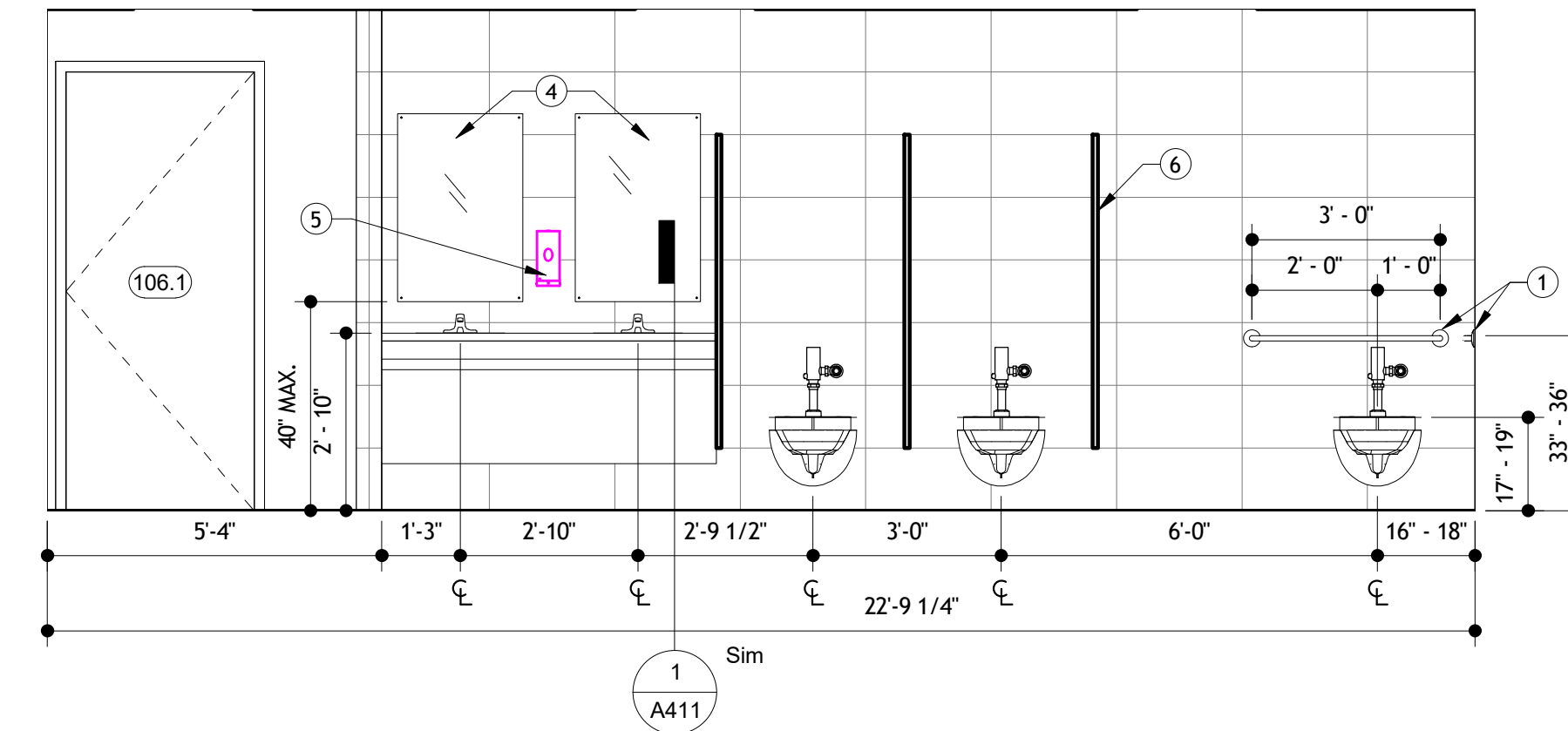
3 ENLARGED MENS RESTROOM 0105 FLOOR PLAN  
3/8" = 1'-0"



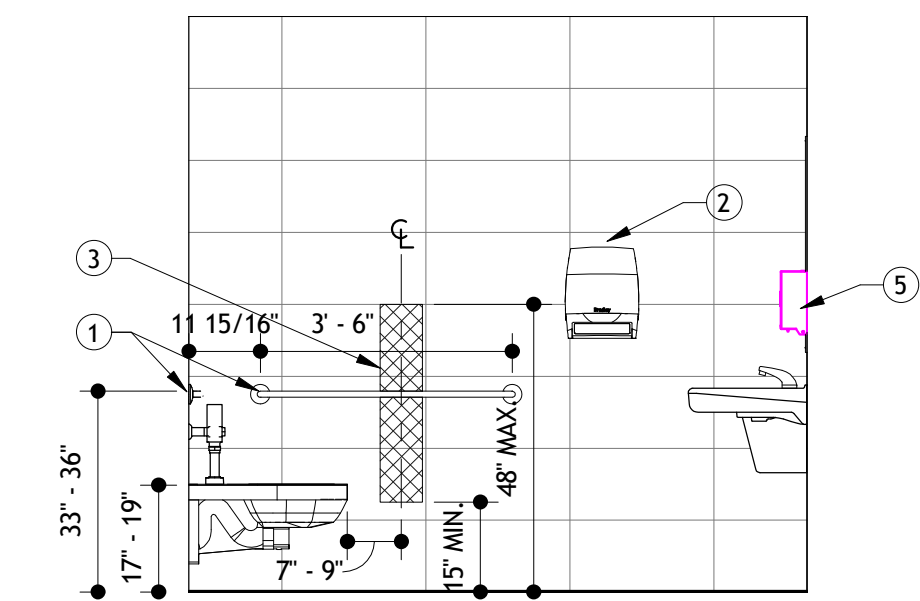
4 WOMENS RESTROOM 0106 EAST ELEVATION  
3/8" = 1'-0"



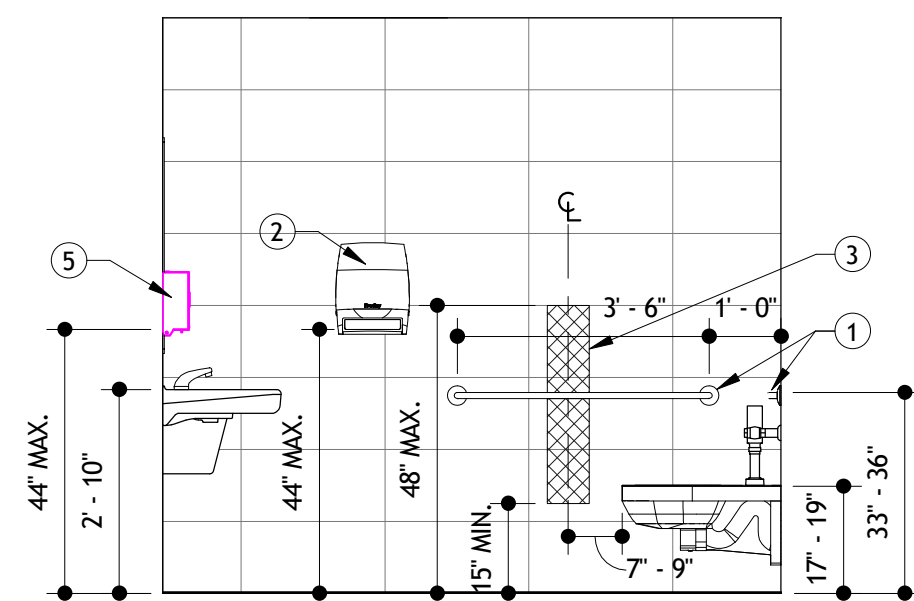
5 WOMENS RESTROOM 0106 NORTH ELEVATION  
3/8" = 1'-0"



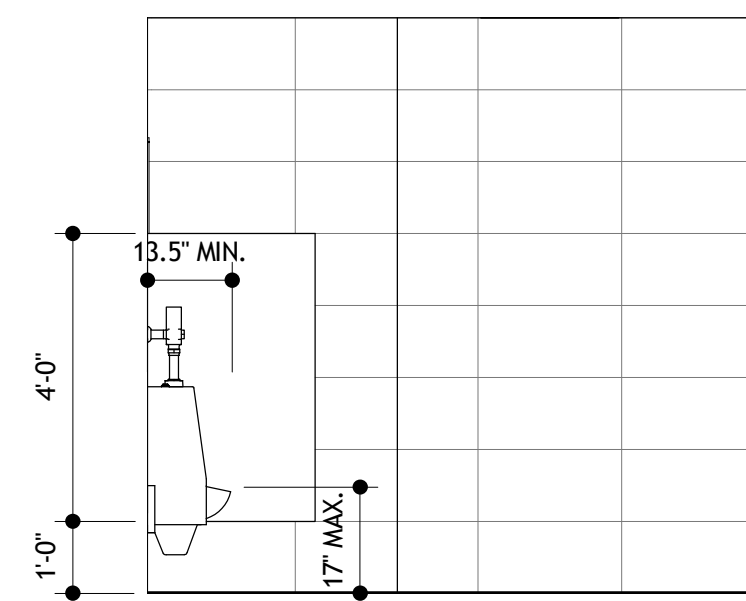
6 WOMENS RESTROOM 0106 SOUTH ELEVATION  
3/8" = 1'-0"



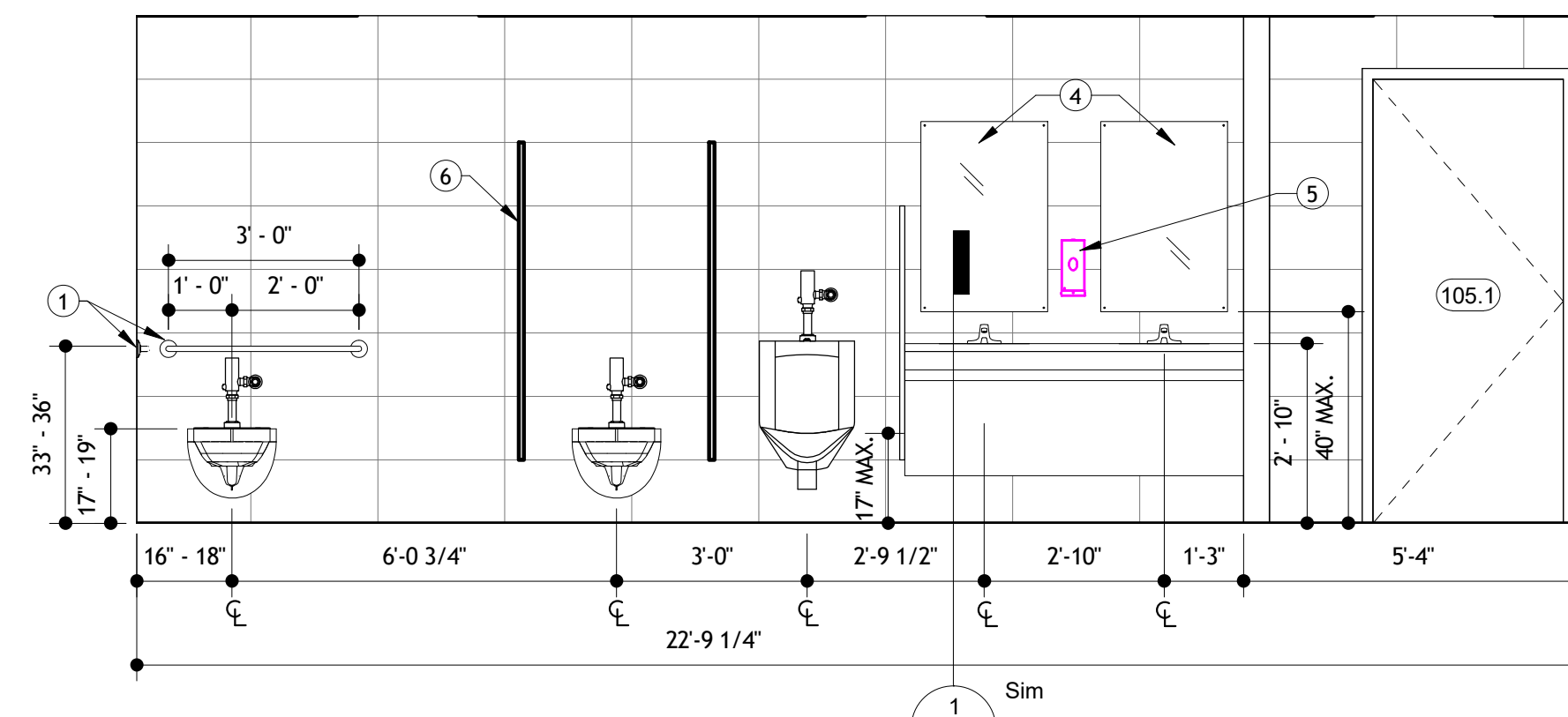
7 WOMENS RESTROOM 0106 WEST ELEVATION  
3/8" = 1'-0"



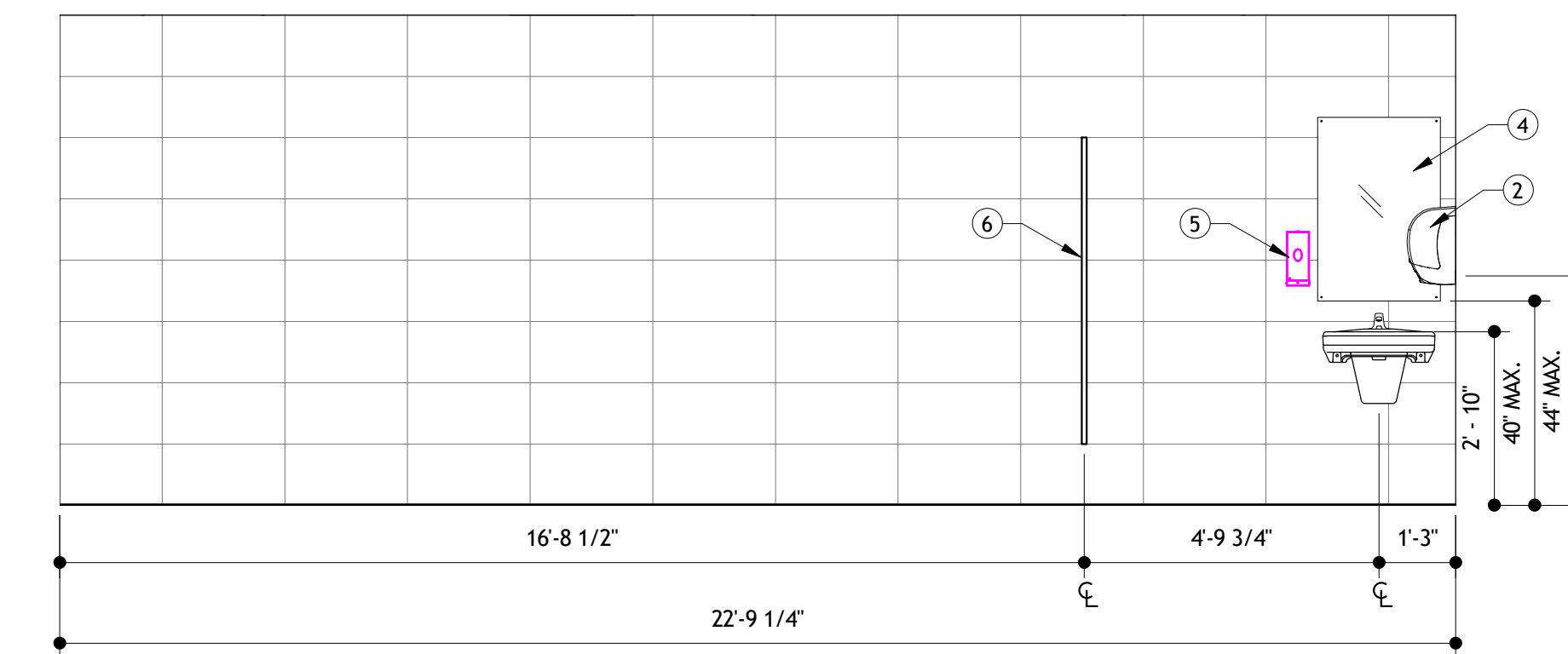
8 MENS RESTROOM 0105 WEST ELEVATION  
3/8" = 1'-0"



9 MENS RESTROOM 0105 EAST ELEVATION  
3/8" = 1'-0"



10 MENS RESTROOM 0105 NORTH ELEVATION  
3/8" = 1'-0"



11 MENS RESTROOM 0105 SOUTH ELEVATION  
3/8" = 1'-0"

ELEVATION NOTES	
NUMBER	NOTE
1	STAINLESS STEEL GRAB BAR
2	PAPER TOWEL DISPENSER
3	TOILET PAPER DISPENSER LOCATION
4	24X36 MIRROR WITH STAINLESS STEEL EDGE
5	SOAP DISPENSER
6	HINY HIDERS TOILET PARTITION

CONFORMANCE DOCUMENTS

Michael J. Gilfilen  
AR94453

No.	DESCRIPTION	DATE

PROJECT NUMBER: 17016  
ISSUE DATE: 1 NOVEMBER 2017  
CREATED BY: MAR  
CHECKED BY: MJG

**A411**  
ARCHITECTURAL ENLARGED PLANS  
RESTROOMS 105, 106  
AND ELEVATIONS



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RENOVATION**  
UNIVERSITY OF FLORIDA 3280 RADIO RD  
GAINESVILLE, FL 32611

CONFORMANCE  
DOCUMENTS

Michael J. Gilfilen  
AR94453

No.	DESCRIPTION	DATE

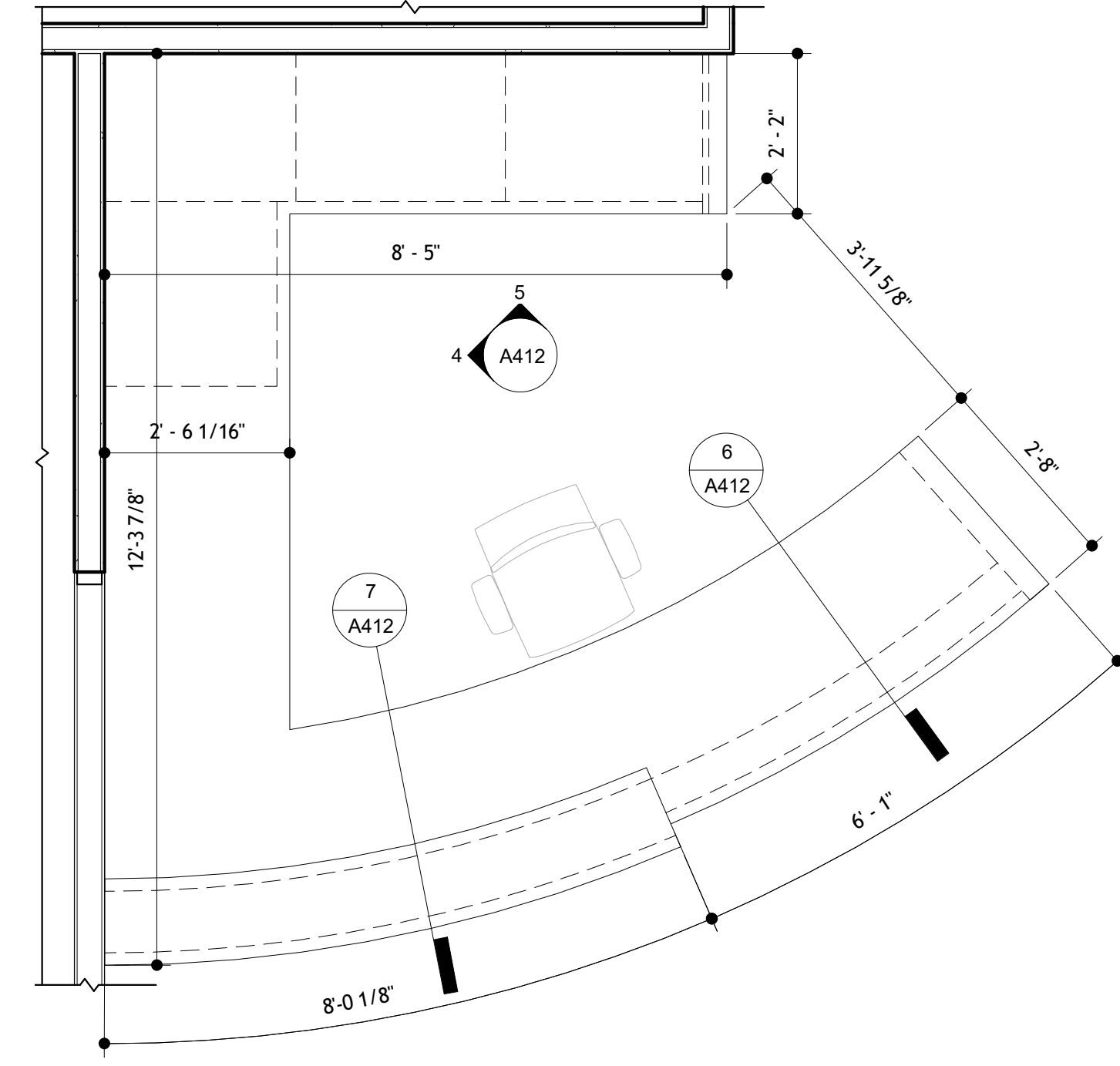
PROJECT NUMBER: 17016  
ISSUE DATE: 1 NOVEMBER 2017  
CREATED BY: MAR  
CHECKED BY: MJG

**A412**  
ARCHITECTURAL  
ENLARGED FLOOR  
PLANS, ELEVATIONS  
AND DETAILS

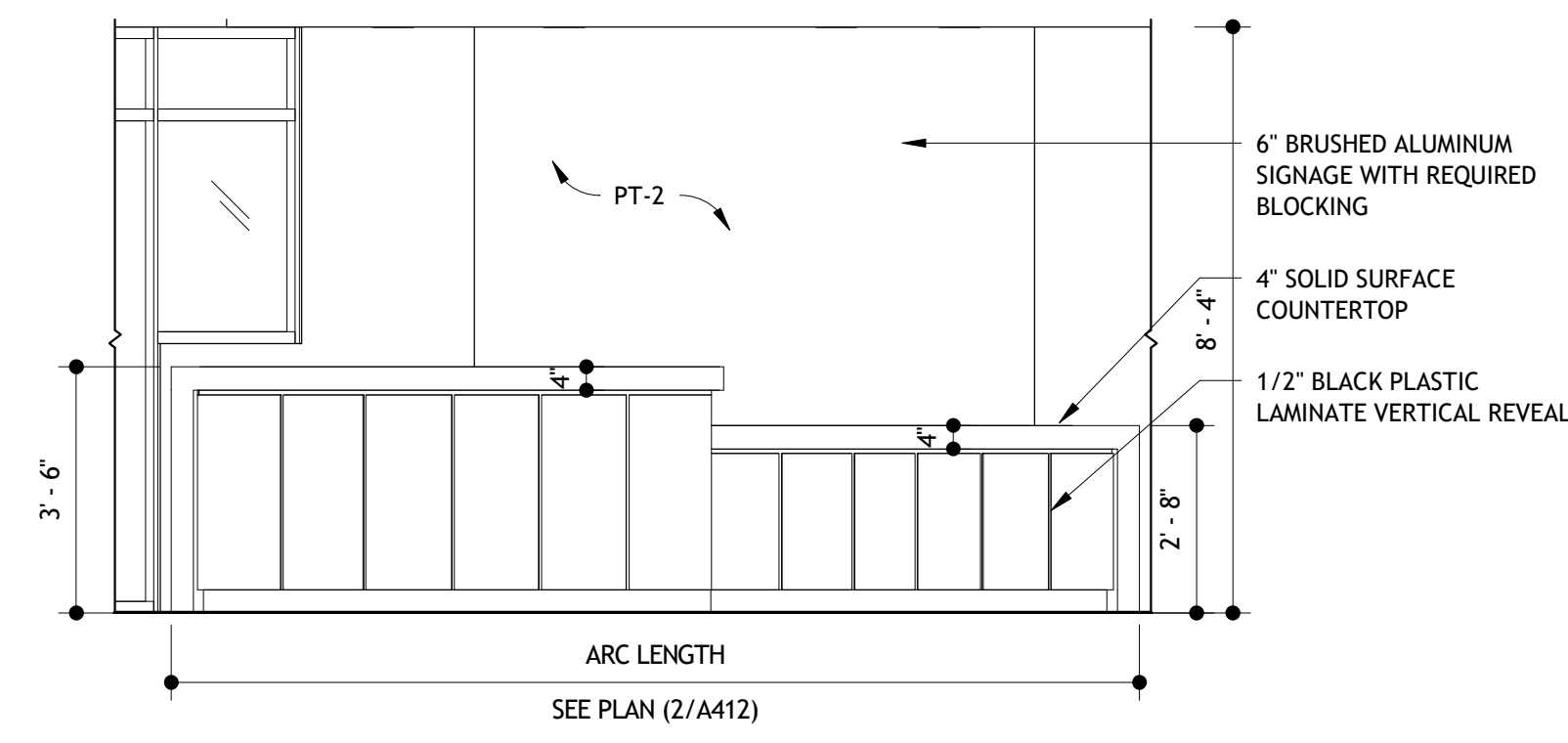
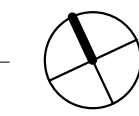
11/17/2017 5:37:16 PM



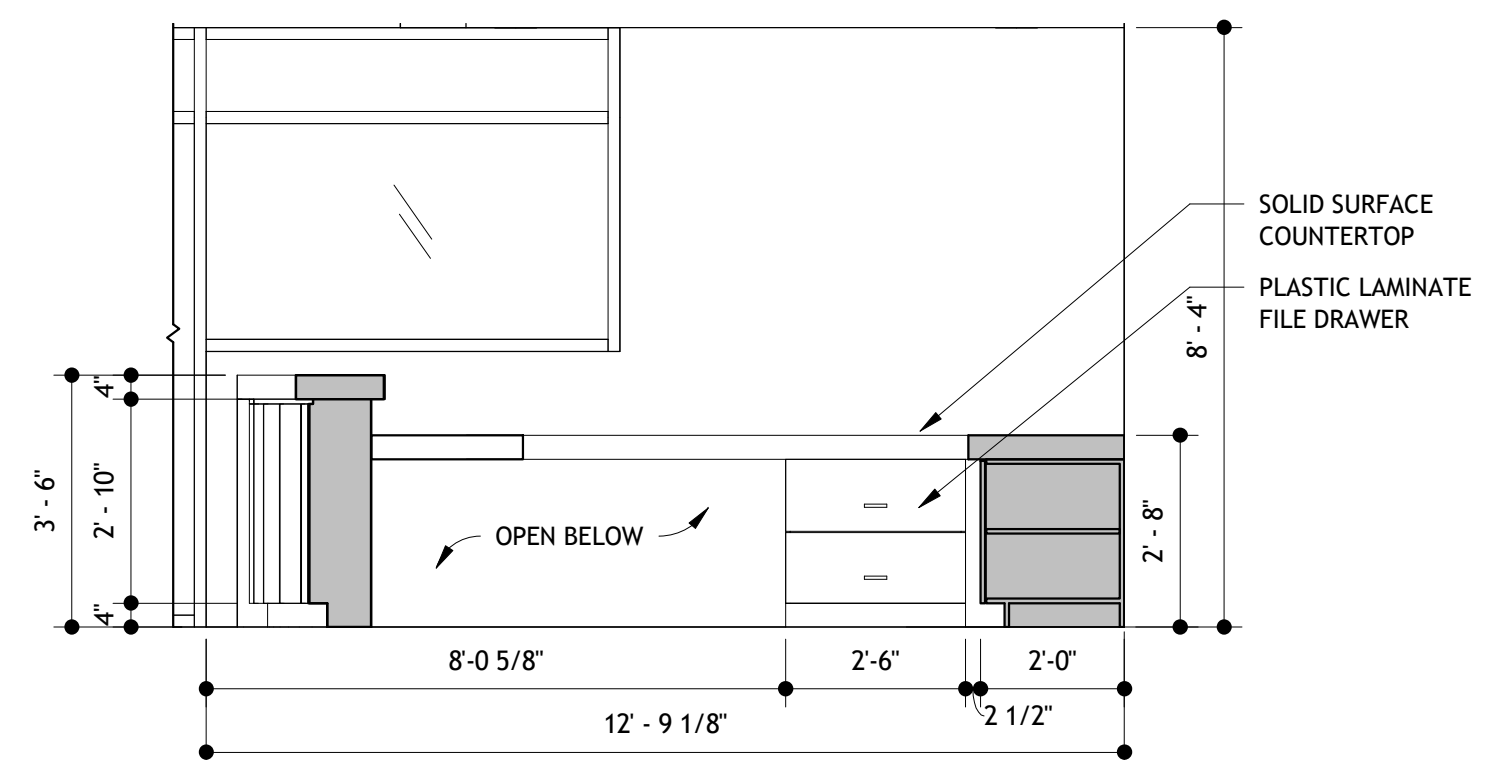
1 RECEPTION DESK VIEW



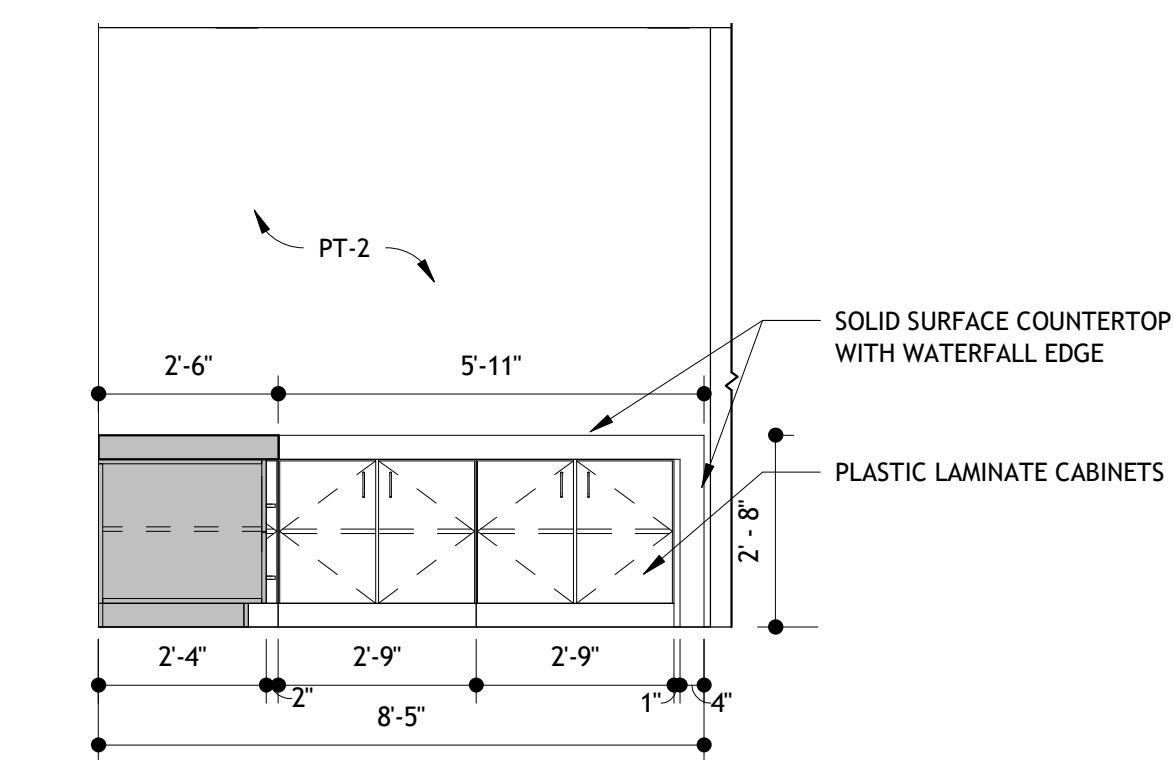
2 ENLARGED FLOOR PLAN RECEPTION 0103  
1/2" = 1'-0"



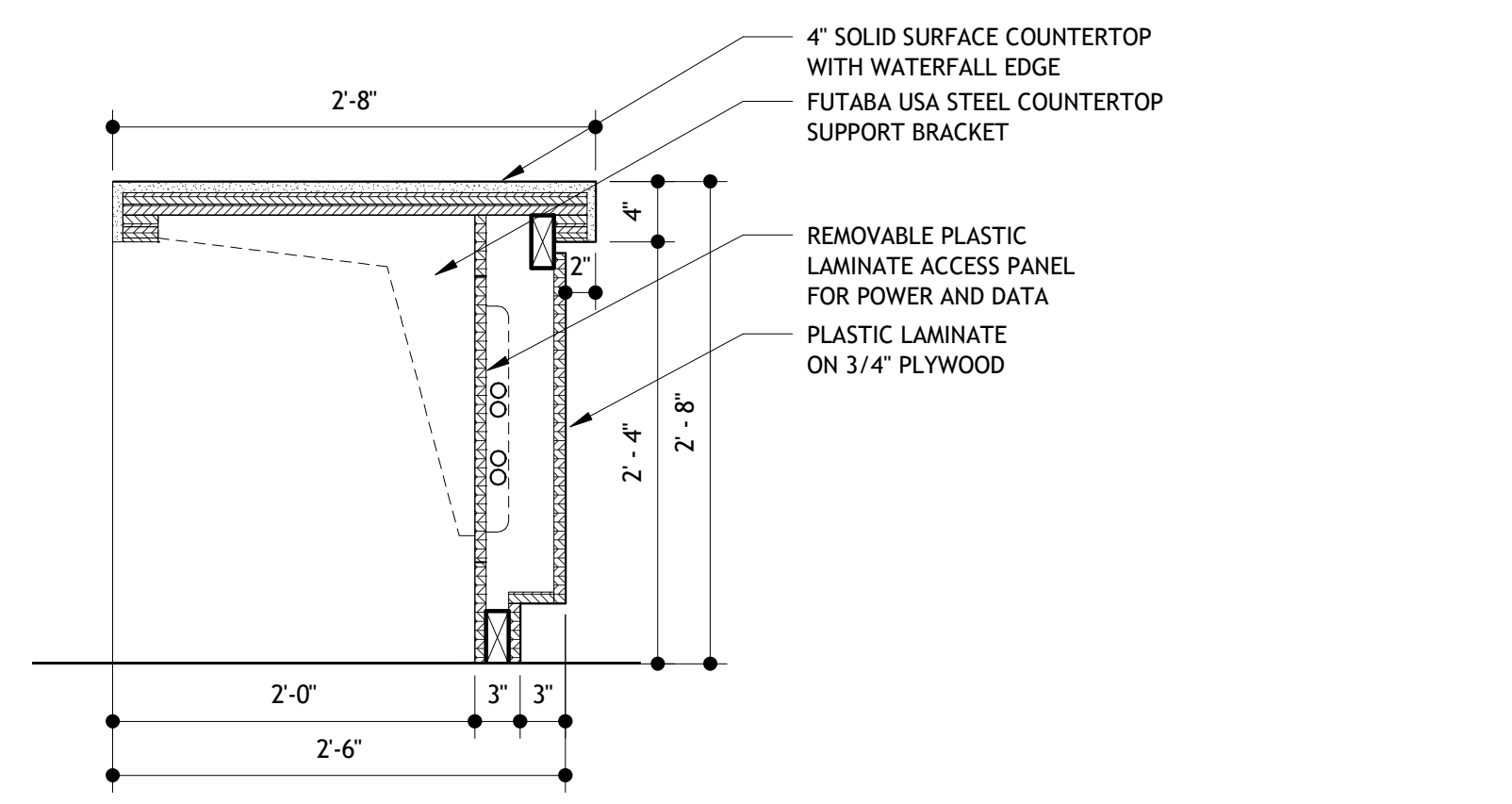
3 RECEPTION DESK FRONT ELEVATION  
3/8" = 1'-0"



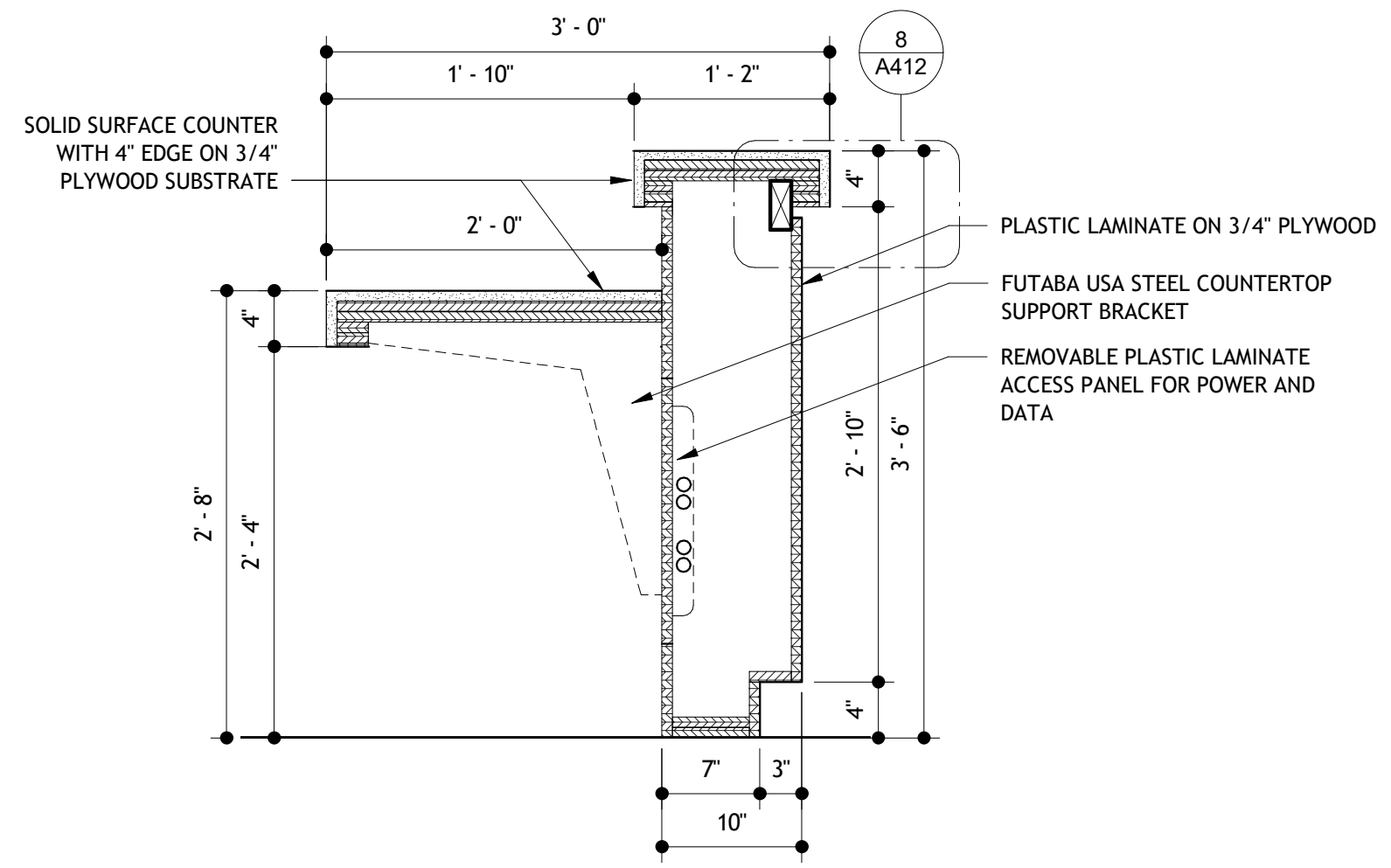
4 RECEPTION DESK SIDE ELEVATION  
3/8" = 1'-0"



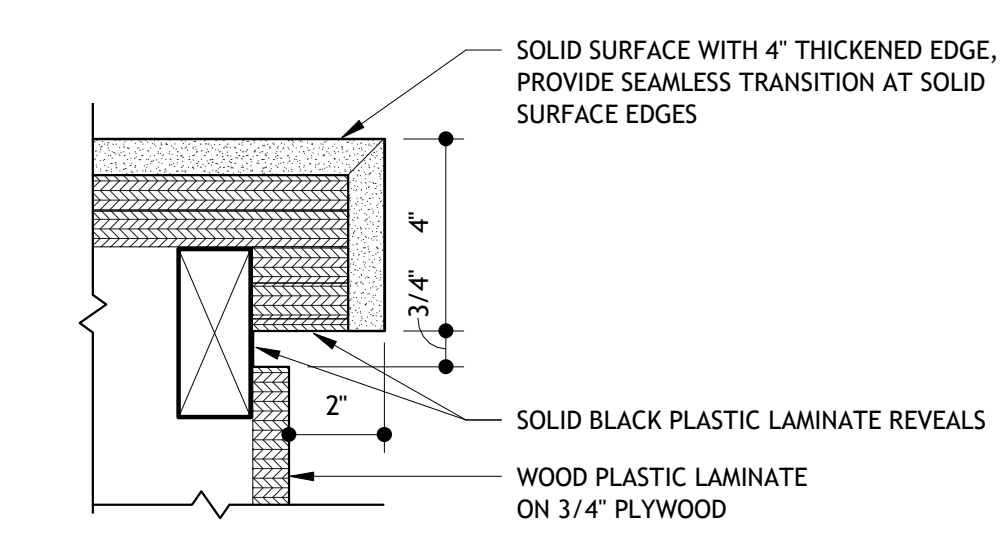
5 RECEPTION DESK BACK ELEVATION  
3/8" = 1'-0"



6 ADA TRANSACTION COUNTER DETAIL  
1" = 1'-0"



7 TRANSACTION COUNTER DETAIL  
1" = 1'-0"



8 RECEPTION DESK COUNTER EDGE DETAIL  
3" = 1'-0"





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RENOVATION**  
UNIVERSITY OF FLORIDA 3280 RADIO RD  
GAINESVILLE, FL 32611

**CONFORMANCE  
DOCUMENTS**

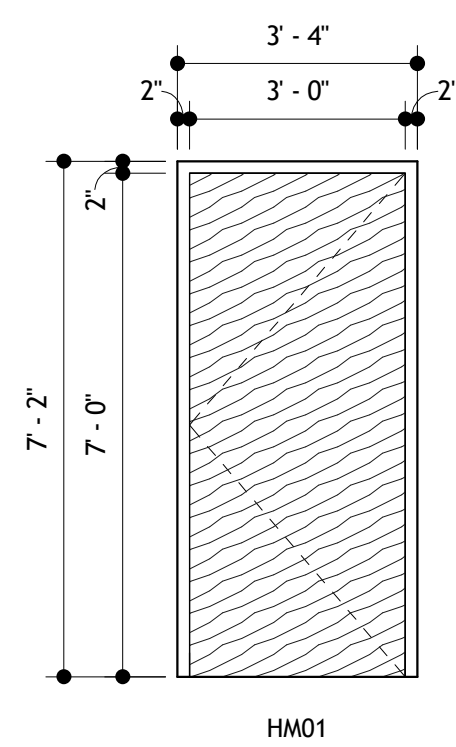
Michael J. Gilfilen  
AR94453

No.	DESCRIPTION	DATE

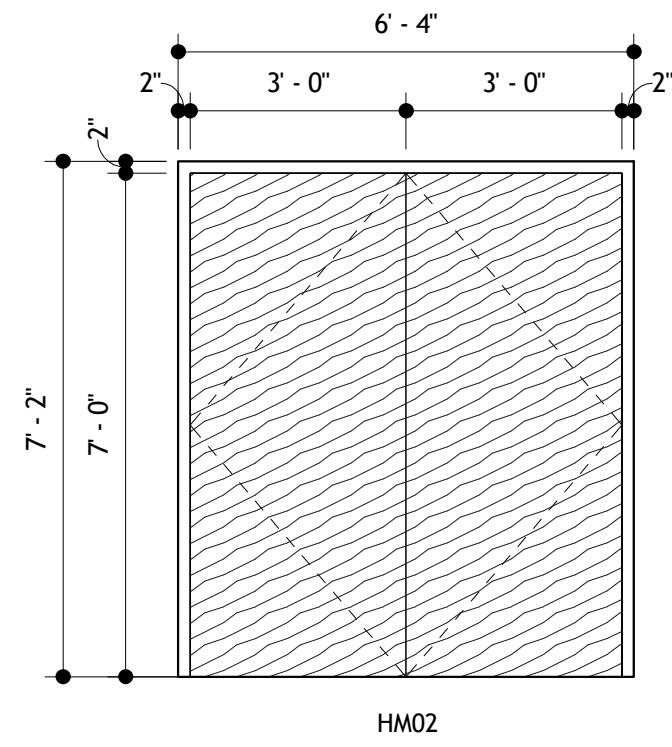
PROJECT NUMBER: 17016  
ISSUE DATE: 1 NOVEMBER 2017  
CREATED BY: MAR  
CHECKED BY: MJG

**A510**  
ARCHITECTURAL  
OPENING SCHEDULE,  
TYPES, AND DETAILS

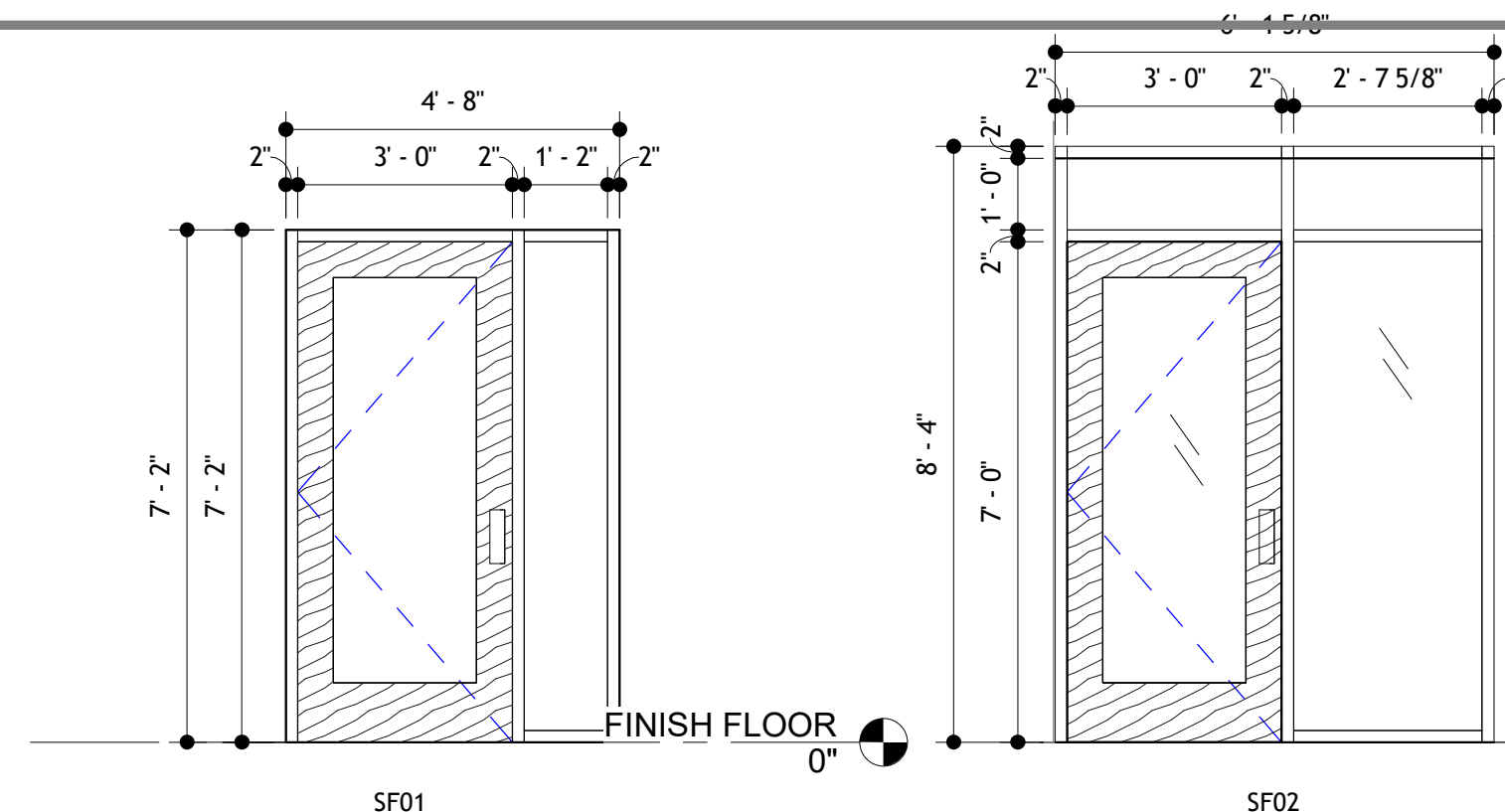
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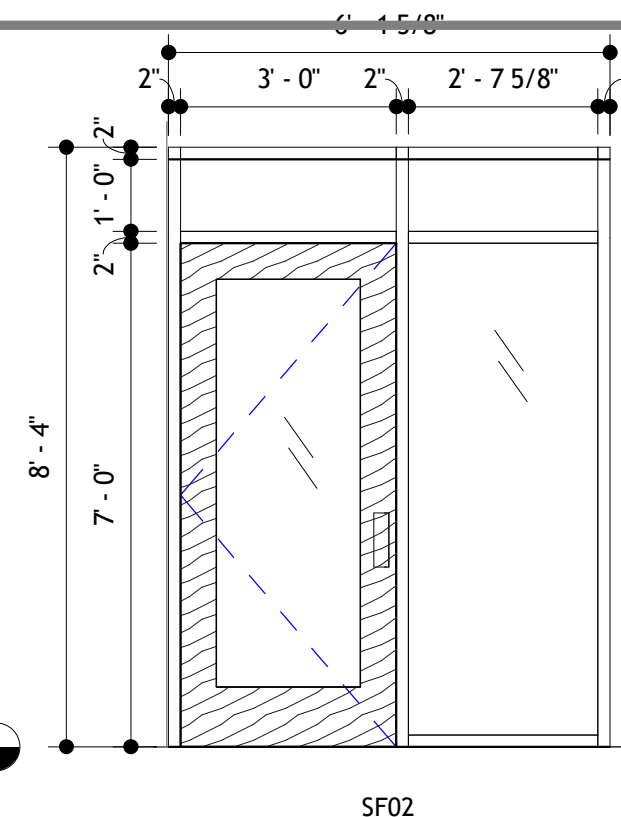
HM01



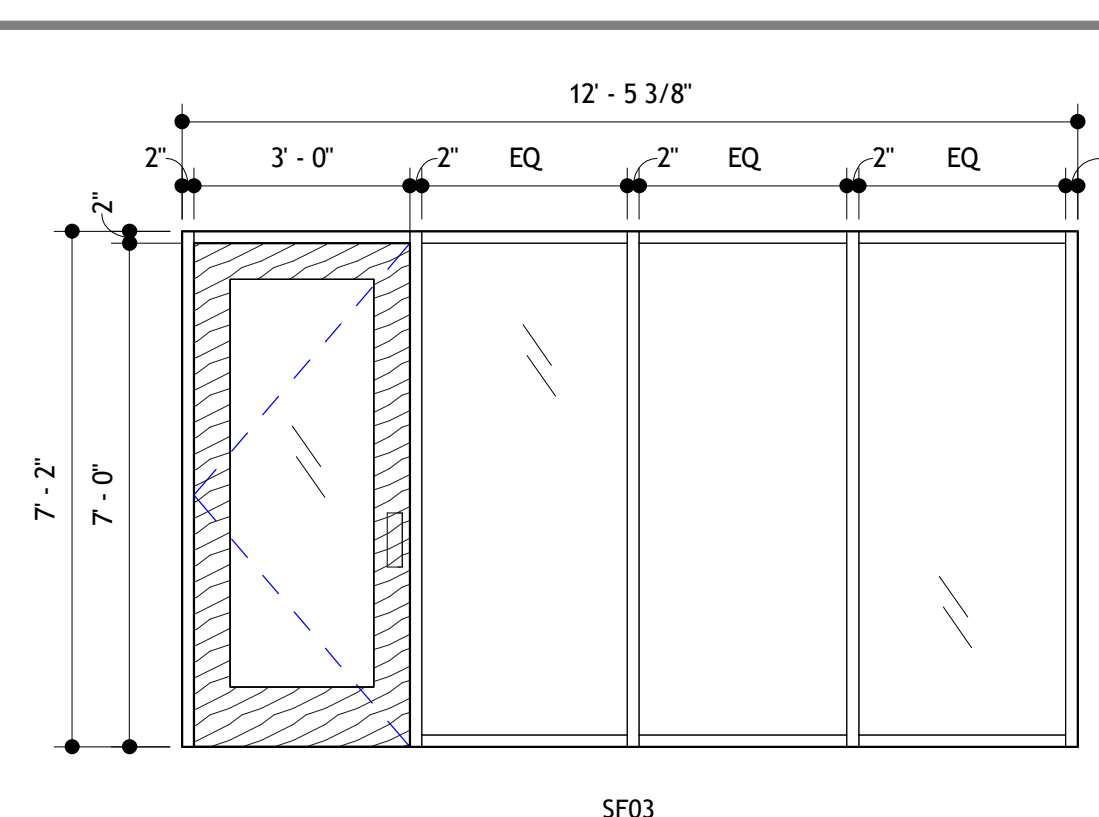
HM02



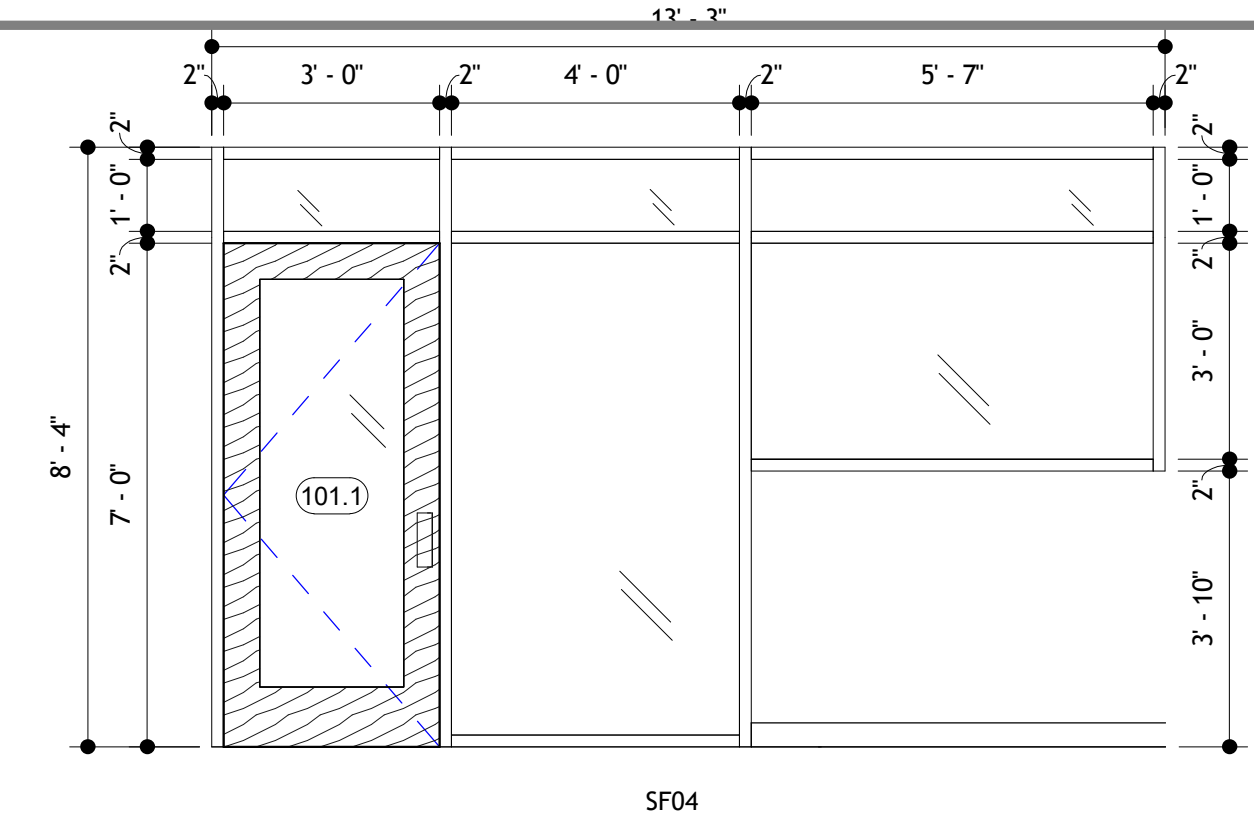
SF01



SF02



SF03



SF04

1 HM01  
3/8" = 1'-0"

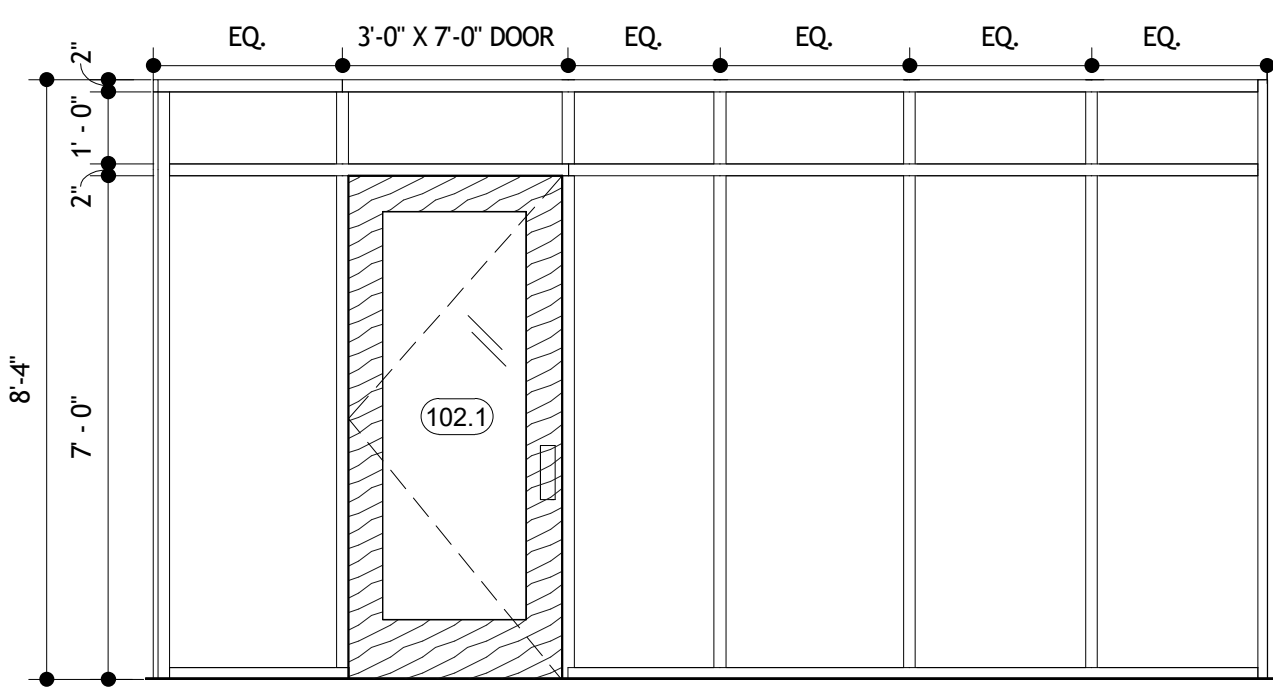
2 HM02  
3/8" = 1'-0"

3 SF01  
3/8" = 1'-0"

4 SF02  
3/8" = 1'-0"

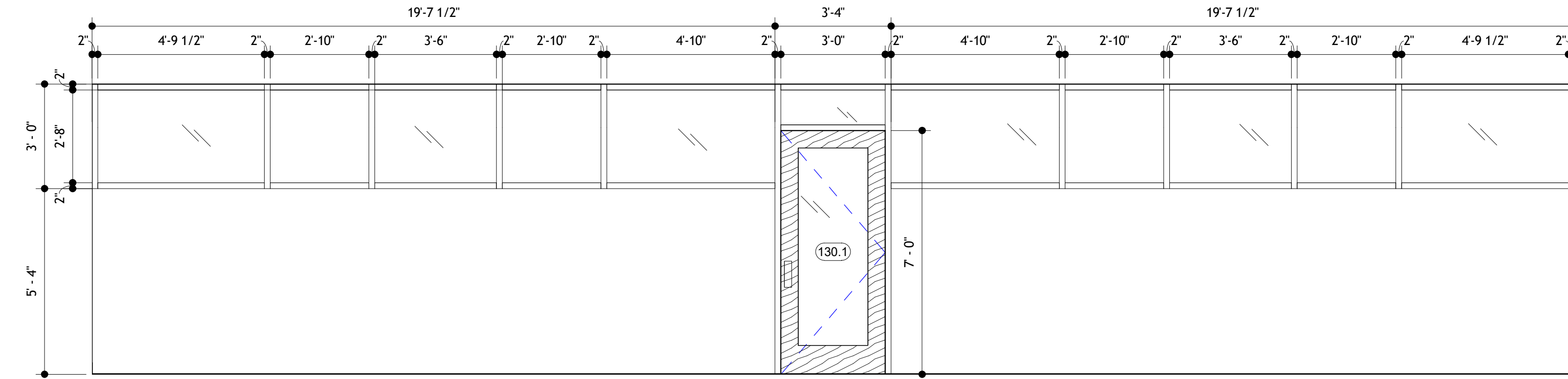
5 SF03  
3/8" = 1'-0"

6 SF04  
3/8" = 1'-0"



REFER TO FLOOR PLAN (1/A111)

7 SF05  
3/8" = 1'-0"

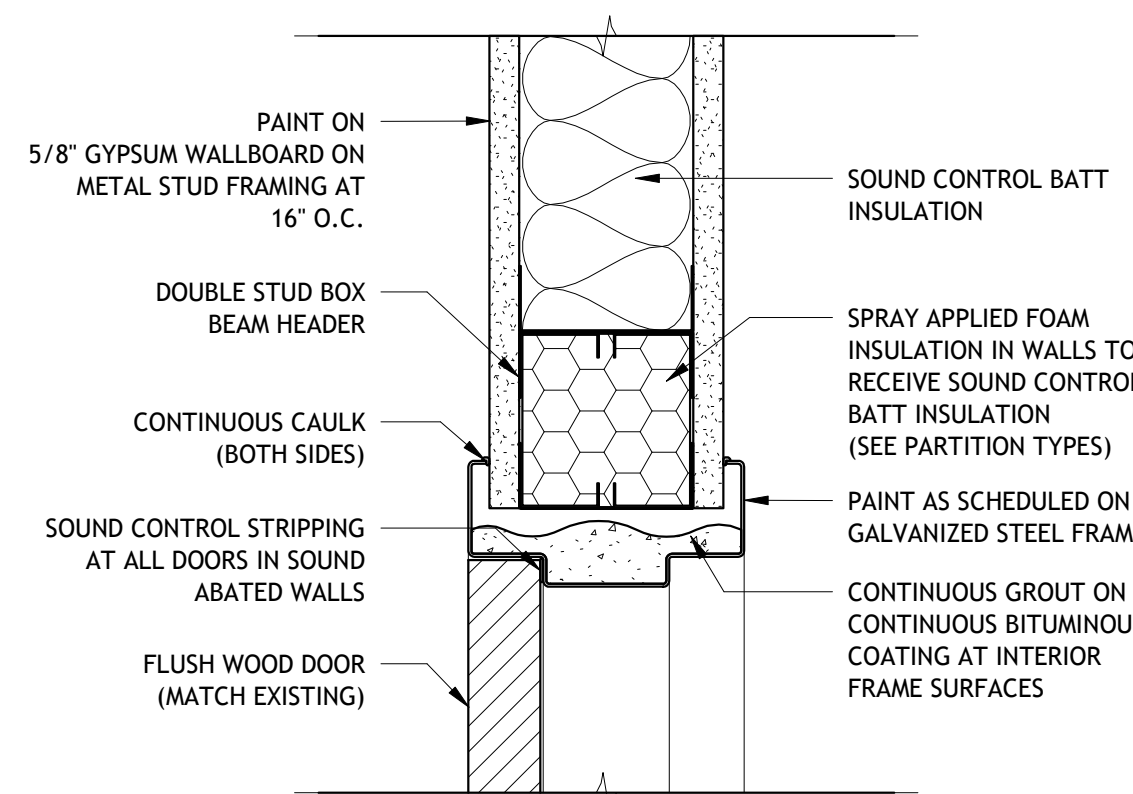


8 SF06  
3/8" = 1'-0"

OPENING SCHEDULE							
NUMBER	WIDTH	HEIGHT	DOOR	FRAME	OPENING TYPE	FIRE RATING	NOTES
095.1	3'-0"	7'-0"	FLUSH WOOD	HOLLOW METAL	HM01	-	
101.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF04	-	
102.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF05	-	
105.1	3'-0"	7'-0"	FLUSH WOOD	HOLLOW METAL	HM01	-	
106.1	3'-0"	7'-0"	FLUSH WOOD	HOLLOW METAL	HM01	-	
107.1	6'-0"	7'-0"	FLUSH WOOD PAIR	HOLLOW METAL	HM02	-	
120.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF02	-	
121.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF01	-	
122.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF01	-	
123.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF01	-	
124.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF01	-	
125.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF03	-	
126.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF01	-	
130.1	3'-0"	7'-0"	FLUSH WOOD W/ FULL LITE	ALUMINUM STOREFRONT	SF06	-	
131.1	3'-0"	7'-0"	FLUSH WOOD	HOLLOW METAL	HM01	-	
132.1	3'-0"	7'-0"	FLUSH WOOD	HOLLOW METAL	HM01	-	
TR1.1	3'-0"	7'-0"	FLUSH WOOD	HOLLOW METAL	HM01	-	

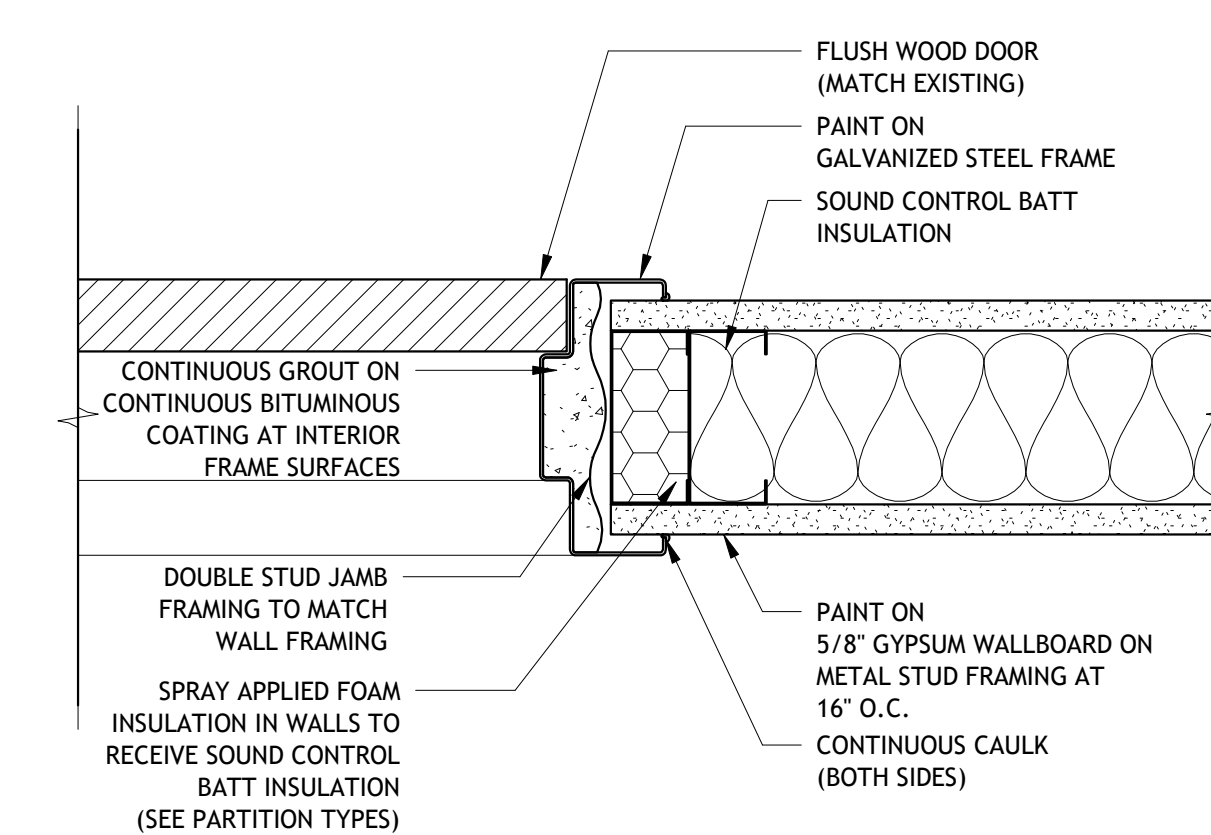
**NOTES:**

- ALL HEAD, JAMB AND SILL FRAMING SHALL BE 16 GAUGE
- ALL HOLLOW METAL FRAMES SHALL BE BACK PAINTED AND GROUTED SOLID PRIOR TO INSTALL
- ALL BOX BEAM HEADERS AND DOUBLE STUD JAMBS SHALL RECEIVE SPRAY FOAM INSULATION



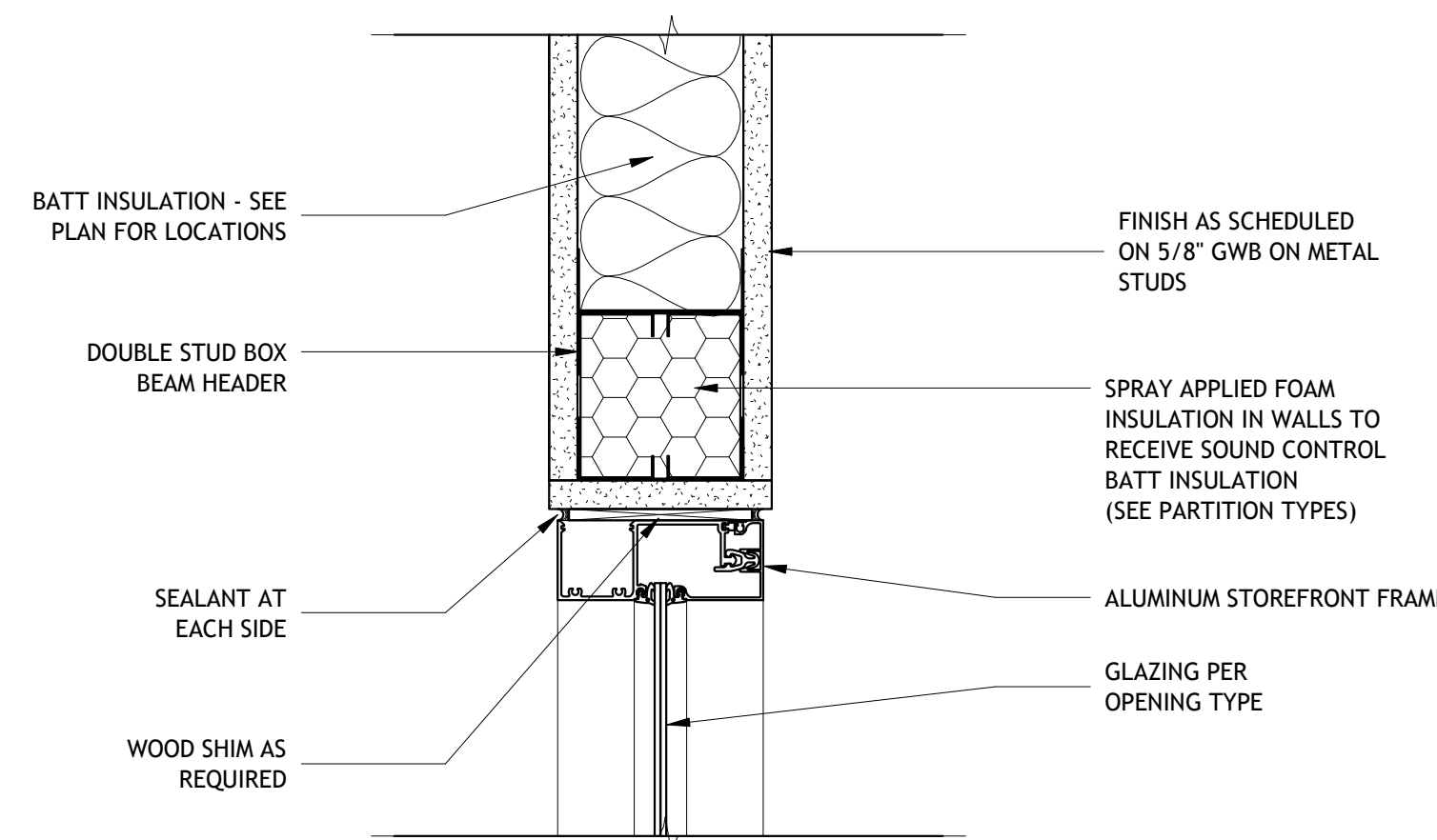
NOTE: ALL JAMB AND HEADERS SHALL BE 16 GAUGE MIN.

9 HOLLOW MF HEAD DETAIL  
3" = 1'-0"

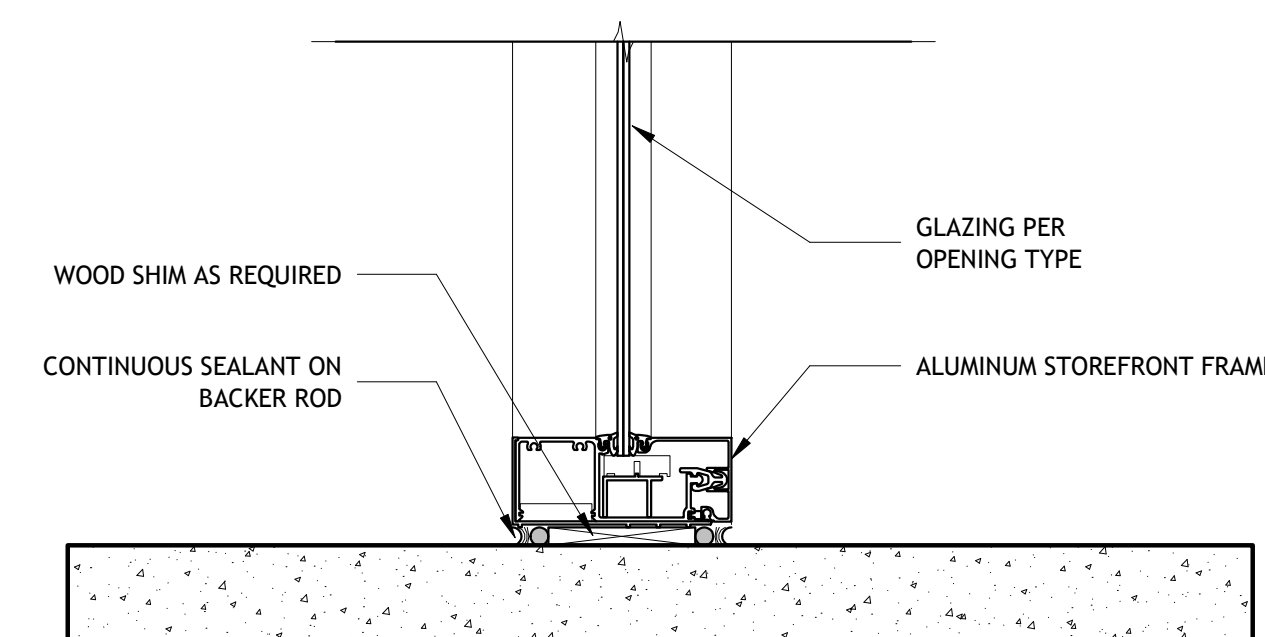


NOTE: ALL JAMB AND HEADERS SHALL BE 16 GAUGE MIN.

10 HOLLOW MF JAMB DETAIL  
3" = 1'-0"



11 STOREFRONT HEAD DETAIL  
3" = 1'-0"



12 STOREFRONT SILL DETAIL  
3" = 1'-0"



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**MP02649 BUILDING 700 - INTERIOR RENOVATION**  
UNIVERSITY OF FLORIDA 3280 RADIO RD  
GAINESVILLE, FL 32611

CONFORMANCE DOCUMENTS

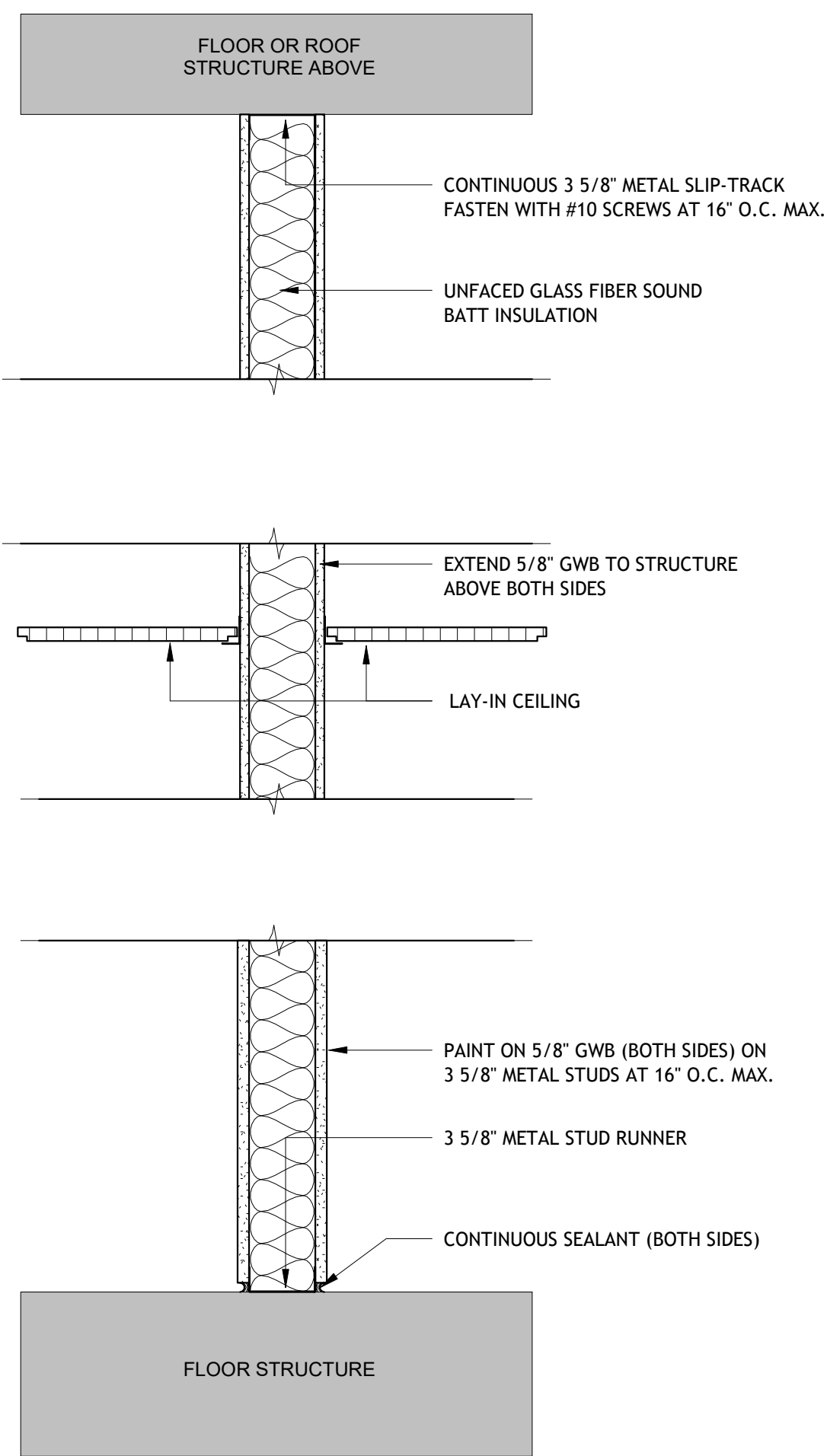
Michael J. Gilfilen  
AR94453

No.	DESCRIPTION	DATE

PROJECT NUMBER:	17016
ISSUE DATE:	1 NOVEMBER 2017
CREATED BY:	MAR
CHECKED BY:	MJG

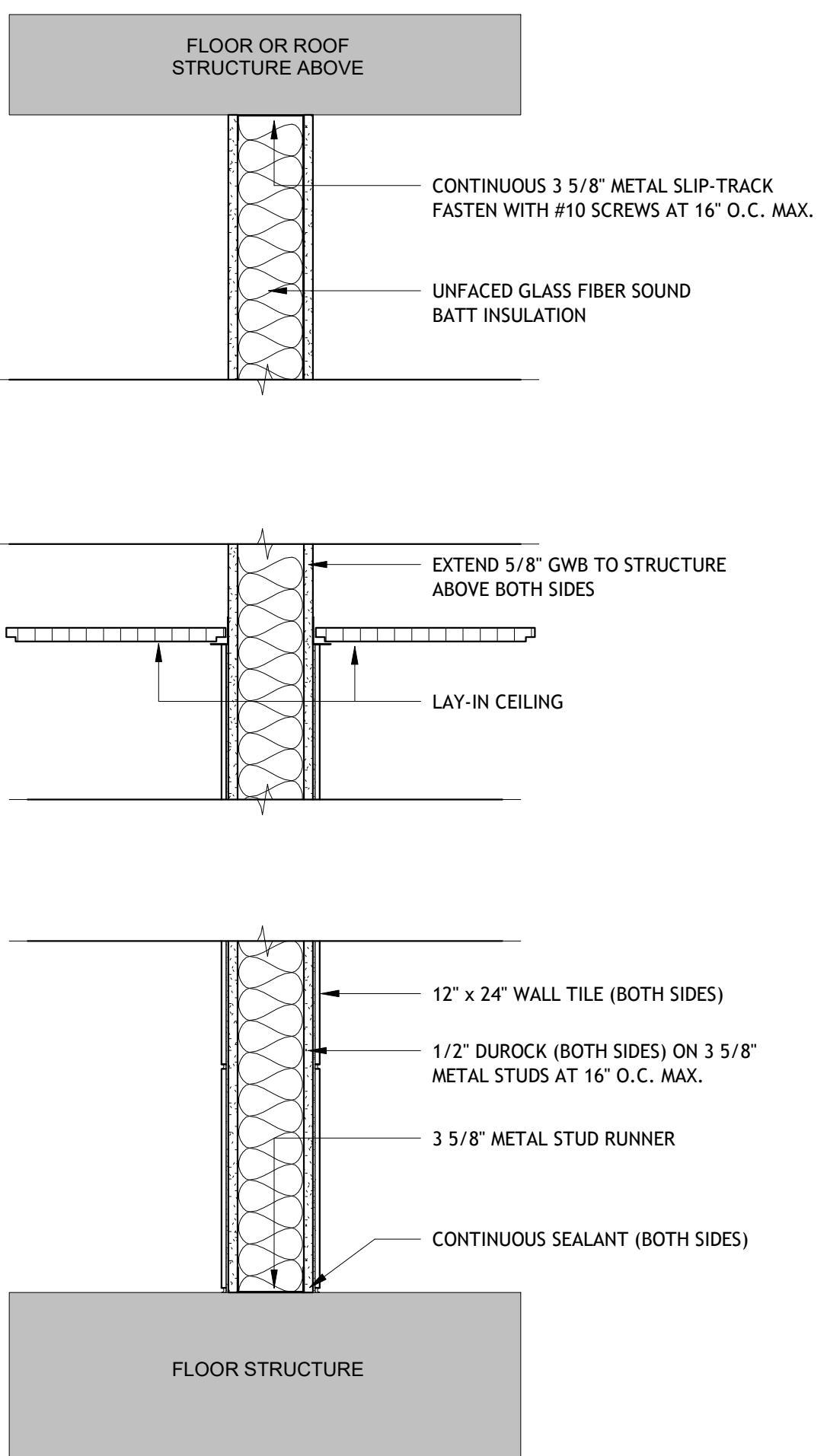
**A610**  
ARCHITECTURAL INTERIOR PARTITION TYPES

11/17/2017 5:37:15 PM



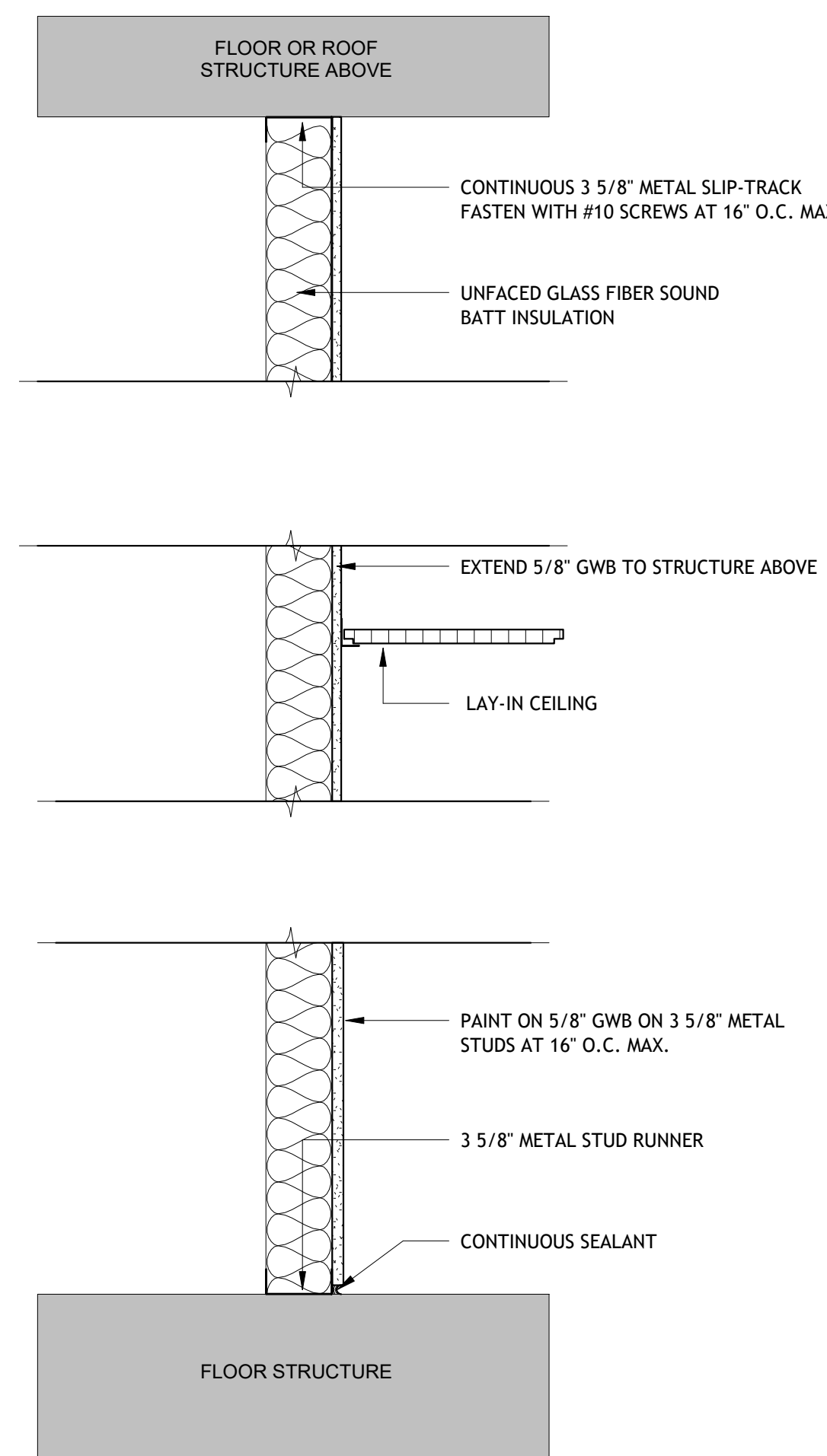
MS01

1 INTERIOR PARTITION TYPE - MS01  
1 1/2" = 1'-0"



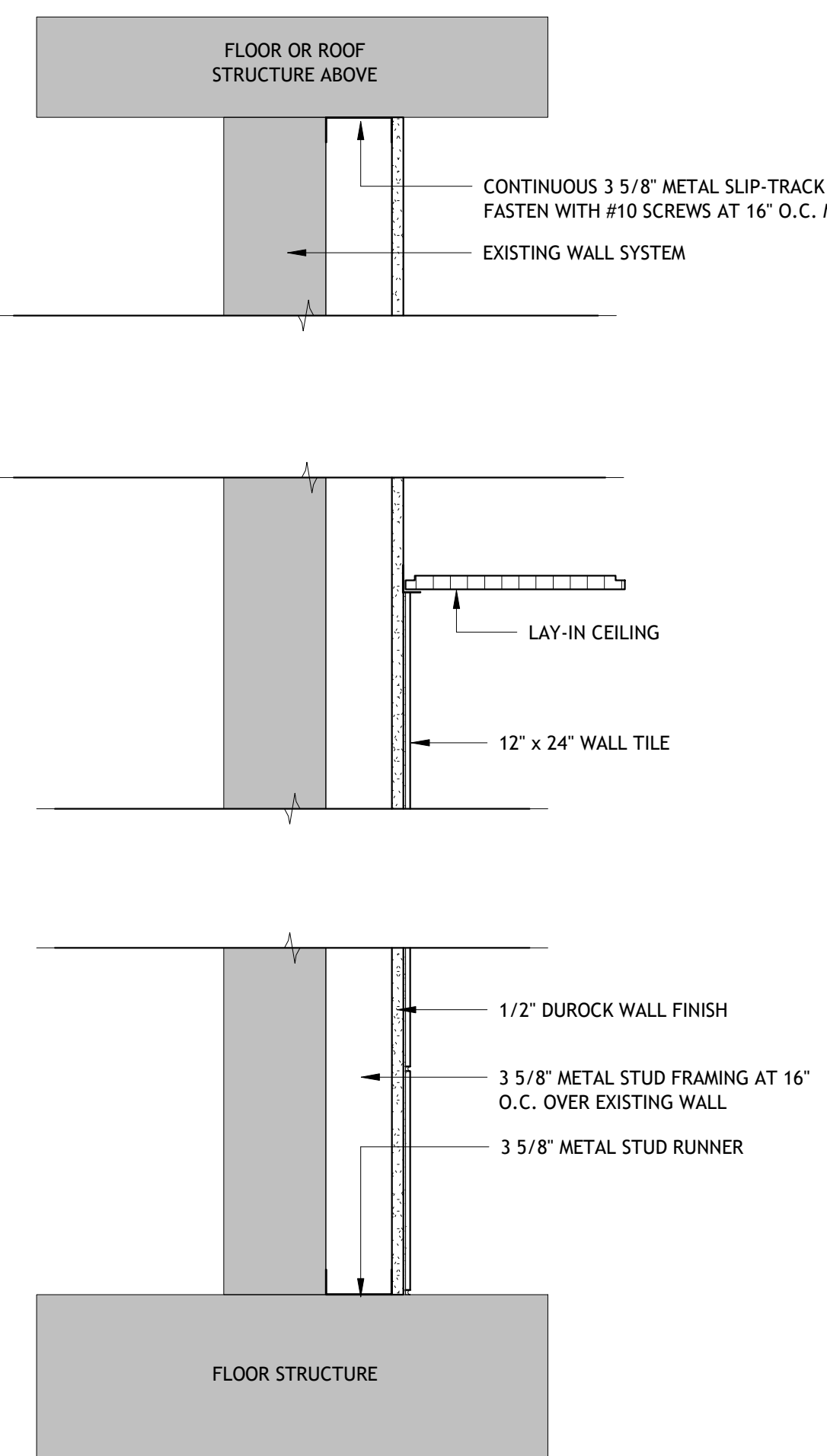
MS05

5 INTERIOR PARTITION TYPE - MS05  
1 1/2" = 1'-0"



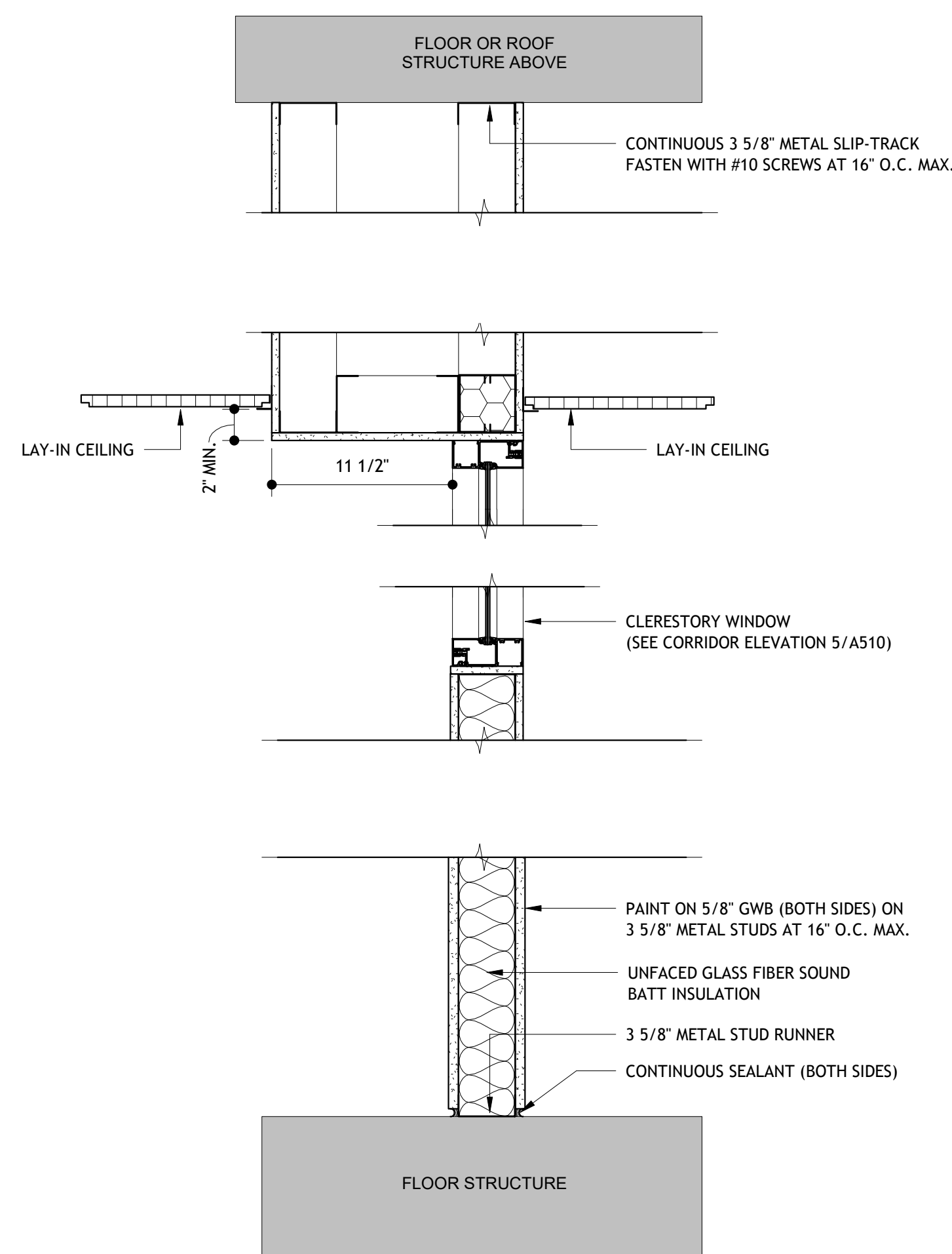
MS02

2 INTERIOR PARTITION TYPE - MS02  
1 1/2" = 1'-0"



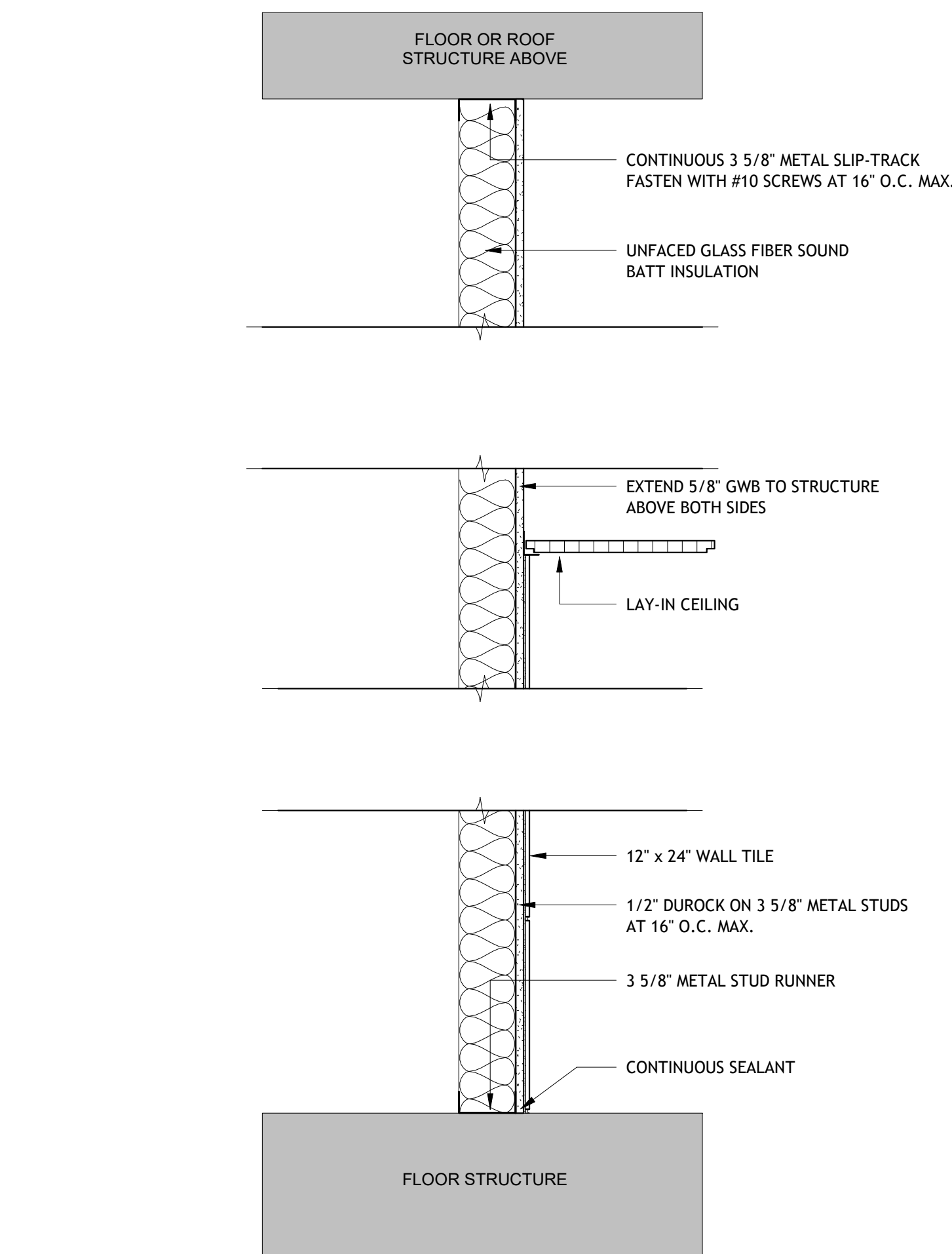
MS06

6 INTERIOR PARTITION TYPE - MS06  
1 1/2" = 1'-0"



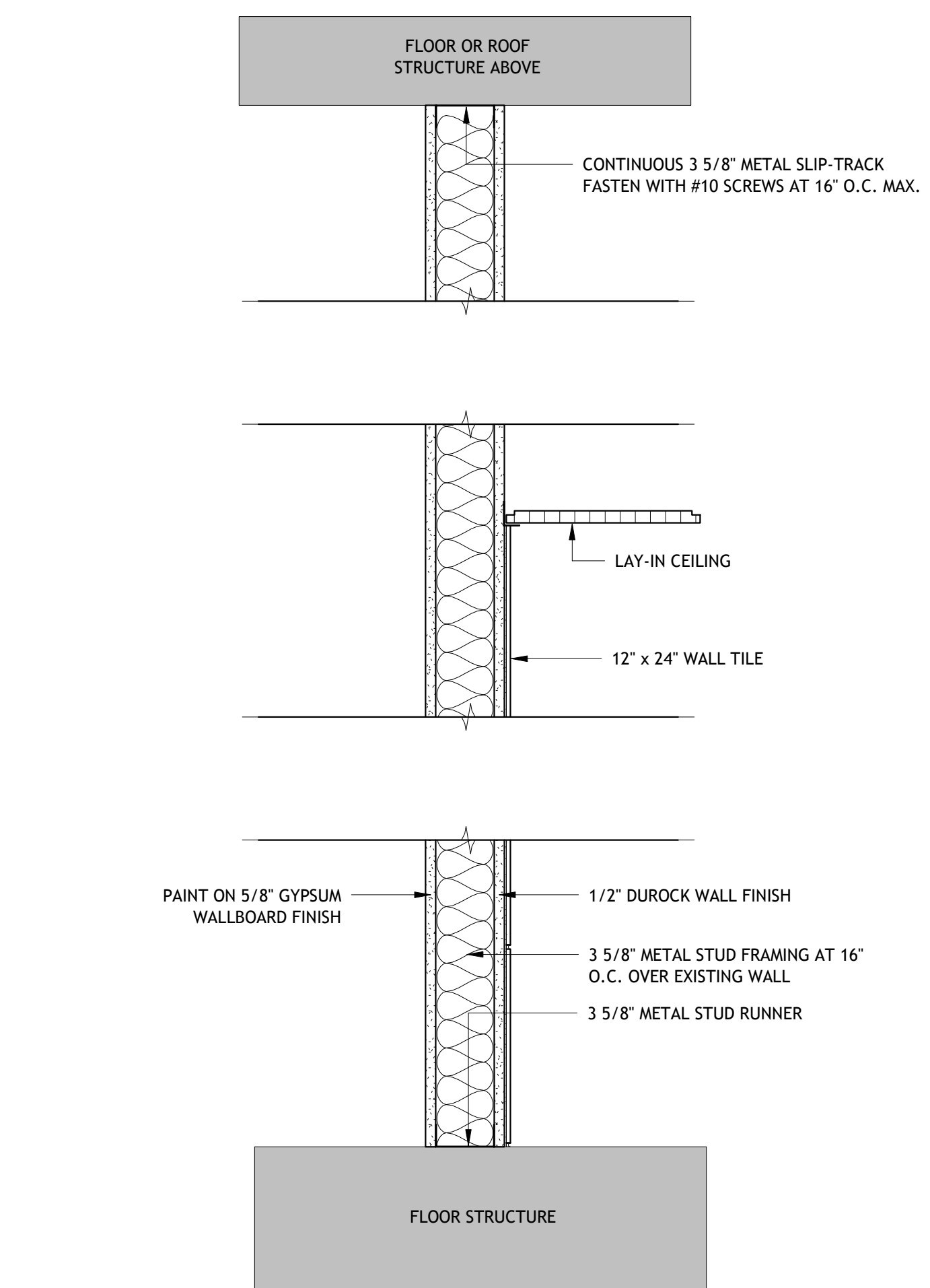
MS03

3 INTERIOR PARTITION TYPE - MS03  
1 1/2" = 1'-0"



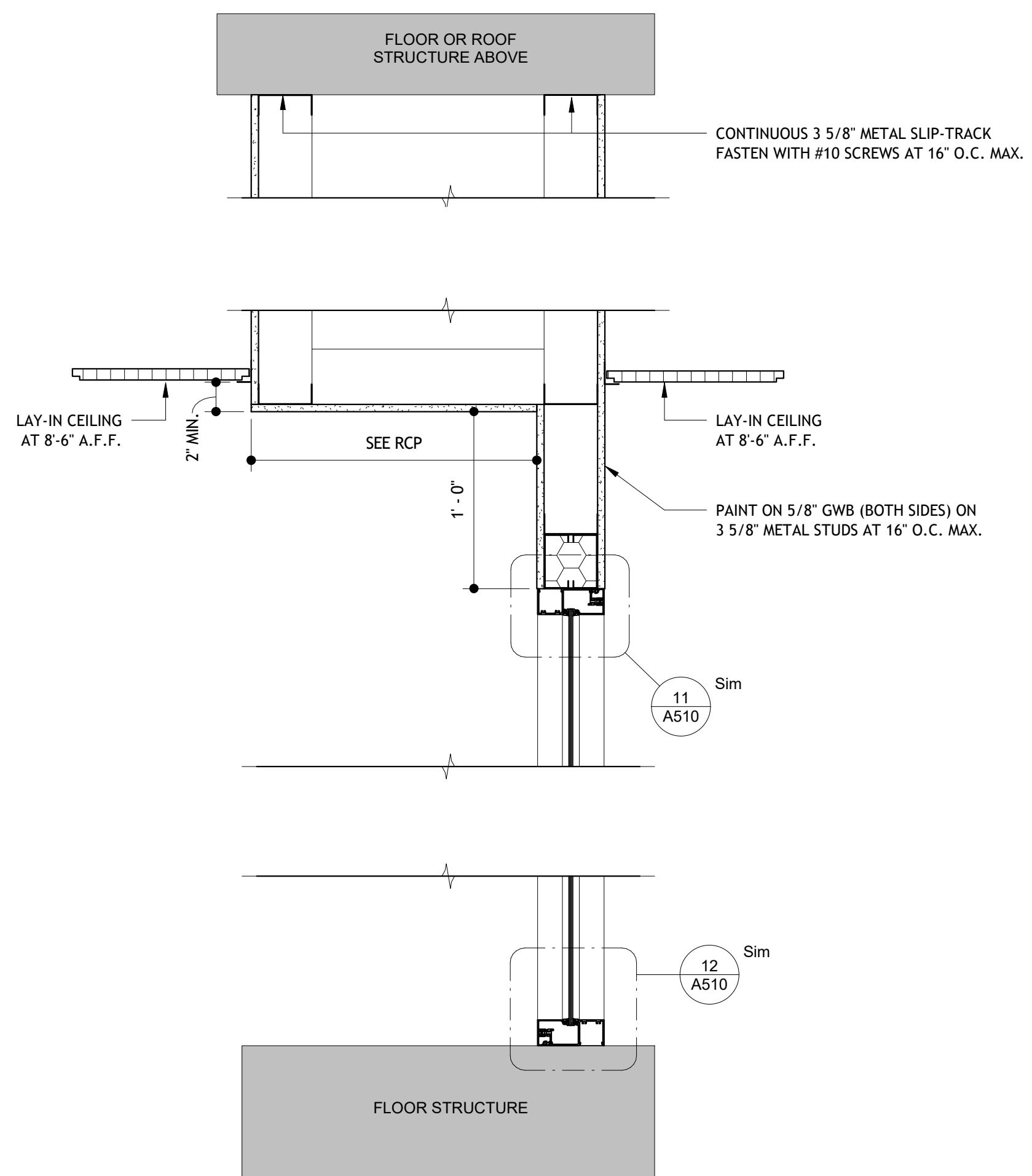
MS07

7 INTERIOR PARTITION TYPE - MS07  
1 1/2" = 1'-0"



MS04

4 INTERIOR PARTITION TYPE - MS04  
1 1/2" = 1'-0"



MS08

8 INTERIOR PARTITION TYPE - MS08  
1 1/2" = 1'-0"





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**MP02649 BUILDING 700 - INTERIOR RENOVATION**  
University of Florida, 2001  
McCarty Dr., Gainesville, FL 32611

CONFORMANCE

KEVIN M. SPELLICY  
PE - 76968

No.	DESCRIPTION	DATE
1	FIELD ORDER NO.1	8/18/2017
2	CONFORMANCE	11/01/2017

PROJECT NUMBER: 17032  
ISSUE DATE: 18 AUGUST 2017  
CREATED BY: AEF  
CHECKED BY: KMS

**M001**  
MECHANICAL LEGEND, NOTES DETAILS & SCHEDULES

**MECHANICAL ABBREVIATIONS**

- AAV AMP'S AREA
- ABV CLG AUTOMATIC AIR VENT
- ACU ABOVE FINISHED CEILING AIR CONDITIONING UNIT
- AFU ABOVE FINISHED FLOOR AIR HANDLING UNIT
- AP ACCESS PANEL
- BD BALANCING DAMPER
- BTU BRITISH THERMAL UNITS
- BTUH BTU PER HOUR
- CD CONDENSATE CEILING DIFFUSER
- CFM CUBIC FEET PER MINUTE
- CF CUBIC FEET
- DB DRY BULB DEFLECTION
- DEFL DOOR GRILLE
- DIA DIAMETER
- EACH EACH
- EAT ENTERING AIR TEMPERATURE
- ENT ENTERING
- ESP EXTERNAL STATIC PRESSURE
- EXH EXHAUST
- EXST EXISTING
- F DEGREES FAHRENHEIT
- FD FIRE DAMPER
- FL DR FLOOR DRAIN
- FT FEET
- FTM FEET PER MINUTE
- FWG FEET OF WATER, GAUGE
- GALV GALVANIZED
- HP HORSEPOWER
- HR HOUR
- ID INSIDE DIAMETER
- IN INCHES
- IN.WG INCHES OF WATER, GAUGE
- KW KILOWATTS
- KWH KILOWATT HOUR
- LAT LEAVING AIR TEMPERATURE
- LB POUND
- LVG LEAVING
- MAX MAXIMUM
- MBH THOUSANDS OF BTU'S
- MD MINUTE
- MIN MINIMUM
- NC NORMALLY CLOSED
- NIC NOT IN CONTRACT
- NO NORMALLY OPEN
- N.O. NUMBER
- NTS NOT TO SCALE
- OA OUTDOOR AIR
- OA OUTDOOR AIR LOUVER ON CENTER
- OC OUTSIDE DIAMETER
- PH PRESSURE
- PSI POUNDS PER SQUARE INCH
- R RADIUS
- RA RETURN AIR
- RAG RETURN AIR GRILLE
- RA REGISTER
- RD ROUND DIFFUSER
- RH RELATIVE HUMIDITY
- RL REFRIGERANT LIQUID
- RPM REFRIGERANT PER MINUTE
- RS REFRIGERANT SUCTION
- SA SUPPLY AIR REGISTER
- SAR SUPPLY AIR REGISTER
- SF SUPPLY FAN
- SP STATIC PRESSURE
- SPEC SPECIFICATION
- SF SQUARE FEET
- STD STANDARD
- STL STEEL
- TEMP TEMPERATURE
- TD TRANSFER DUCT
- TG TRANSFER GRILLE
- TSP TOTAL STATIC PRESSURE
- TYP TYPICAL
- UC UNDERCUT DOOR - 3/4"
- V VOLTS
- WB WET BULB
- WPD WATER PRESSURE DROP

**MECHANICAL GENERAL NOTES**

- DUCT SIZES ARE CLEAR INSIDE SHEET METAL SIZES. DUCT SIZES AND LOCATIONS ARE APPROXIMATE. AFTER THE START OF CONSTRUCTION THE CONTRACTOR SHALL OBTAIN TRUSS SHOP DRAWINGS AND SHALL RELOCATE AND RESIZE DUCT AS REQUIRED TO FIT BELOW THE TRUSSES AND MAINTAINING THE SAME DUCT FREE AREA. PRIOR TO FABRICATING DUCTWORK THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE REVISED LAYOUT. SEE NOTE 4.
- VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
- SEE ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING OUTLETS.
- CONTRACTOR SHALL VERIFY CLEARANCE SPACE AVAILABLE, OFFSETS REQUIRED, STRUCTURAL OPENINGS, AND WORK BY OTHER TRADES PRIOR TO FABRICATION OF DUCTWORK. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS. RETURN DUCT SHALL BE TESTED UNDER NEGATIVE PRESSURE.
- PROVIDE DUCT FLEX CONNECTIONS AT NEW UNITS. EXTERNALLY INSULATE FLEXIBLE CONNECTIONS.
- PROVIDE CLEAN PLEATED FILTERS PRIOR TO TEST AND BALANCE WORK. PROVIDE NEW PLEATED FILTERS AS REQUIRED PRIOR TO ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS, AIR INTAKES, ETC. COMPLETE SET OF FILTERS FOR EACH A/C UNIT FOR OWNERS USE AT SUBSTANTIAL COMPLETION.
- PROVIDE 2" EXTERNAL INSULATION FOR ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK. EXHAUST DUCTWORK SHALL BE UNINSULATED.

**EQUIPMENT NOTES**

- PROVIDE FULL SIZE PVC CONDENSATE DRAINS FROM ALL UNITS TO DISPOSAL POINT INDICATED ON THE DRAWINGS.
- PROVIDE A TRAP ON ALL CONDENSATE DRAIN OUTLETS. SLOPE ALL CONDENSATE DRAIN PIPING MINIMUM 1/4" INCH PER FOOT.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING AND DUCTWORK SUCH THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS, AIR INTAKES, ETC.
- FLOOR-MOUNTED AHUs SHALL BE INSTALLED ON BASE RAILS AS INDICATED. PROVIDE NEOPRENE PADS BETWEEN RAIL AND CONCRETE.
- PROVIDE ACCESS PANELS IN ALL NON-ACCESSIBLE CONSTRUCTIONS (INCLUDING CEILING, WALLS, ETC) SIZED AND LOCATED AS REQUIRED TO PROVIDE PROPER SERVICE ACCESS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION FOR ALL HVAC EQUIPMENT INCLUDING DAMPERS AND VALVES.

**VARIABLE REFRIGERANT FLOW SYSTEM INDOOR AC UNIT SCHEDULE**

UNIT DESIGNATION	AC-1-1 (7)	AC-1-2 (7)	AC-1-3 (7)	AC-1-4 (7)	AC-1-5 (7)	AC-1-6 (7)	AC-1-7 (7)	AC-1-8 (7)	AC-1-9 (7)
LOCATION	BREAKOUT/OFFICE	OPEN OFFICE	MECHANICAL	WORKROOM	CONFERENCE	WAITING	OFFICE 124	OFFICE 122	MECHANICAL
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	EXECUTIVE OFFICE
MODEL NUMBER	PEFY-P12NMAU-E	PEFY-P30NMAU-E3	PKFY-P06NBMU	PEFY-P27NMAU-E3	PEFY-P15NMAU-E	PEFY-P24NMAU-E	PEFY-P36NMAU-E	PEFY-P27NMAU-E3	PEFY-P24NMAU-E3
UNIT TYPE	CONCEALED DUCTED MEDIUM STATIC	CONCEALED DUCTED MEDIUM STATIC	WALL MOUNTED UNIT	CONCEALED DUCTED MEDIUM STATIC	CONCEALED DUCTED MEDIUM STATIC	CONCEALED DUCTED MEDIUM STATIC	CONCEALED DUCTED MEDIUM STATIC	CONCEALED DUCTED MEDIUM STATIC	CONCEALED DUCTED MEDIUM STATIC
NOMINAL COOLING CAPACITY (BTU/H)	12,000	30,000	6,000	27,000	15,000	24,000	36,000	27,000	24,000
ADJUSTED TOTAL COOLING CAPACITY (BTU/H) (1)(4)	9,849	24,271	4,863	21,225	11,833	18,805	29,464	21,968	19,404
ADJUSTED SENSIBLE COOLING CAPACITY (BTU/H) (1)(4)	7,735	19,892	3,923	18,600	10,415	17,598	26,070	18,910	17,843
NOMINAL HEATING CAPACITY (BTU/H)	13,500	34,000	6,700	30,000	17,000	27,000	40,000	30,000	27,000
ADJUSTED HEATING CAPACITY (BTU/H) (1)(4)	8,828	22,157	4,369	19,356	10,982	17,401	25,768	22,157	17,323
EXTERNAL STATIC PRESSURE (IN. WG)	0.6	0.6	N/A	0.6	0.6	0.6	0.4	0.4	0.4
TOTAL SUPPLY AIR (CFM)	315	880	410	615	350	615	990	620	615
OUTSIDE AIR (CFM) (2)	30	100	10	75	65	40	60	35	35
ELECTRICAL CHARACTERISTICS (V-ø)	208-1	208-1	208-1	208-1	208-1	208-1	208-1	208-1	208-1
UNIT MCA/MOCP (1)	1.20/15	2.73/15	0.19/15	2.73/15	1.45/15	2.73/15	3.5/15	2.73/15	2.73/15
REFRIGERANT PIPE SIZE LIQUID - GAS (IN. - IN.) (7)	1/4 - 1/2	3/8 - 5/8	1/4 - 1/2	3/8 - 5/8	1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
SOUND LEVEL (dB)	32	34	28	30	28	34	37	34	34
WEIGHT (LBS)	41	67	49	67	58	67	86	67	67

- CAPACITY ADJUSTED FOR ACTUAL DESIGN CONDITIONS AND PIPING LOSSES.
- TEMPERED OUTSIDE AIR DELIVERED FROM ERV-1. SEE SCHEDULE FOR DETAILS.
- PROVIDE FACTORY STARTUP FOR ENTIRE SYSTEM.
- ALL CAPACITIES ARE MINIMUMS, BASED ON ACTUAL PIPE ROUTING AND RUN LENGTHS.
- PROVIDE DRAIN PAN FLOAT SENSORS ON ALL UNITS FOR UNIT SHUTDOWN.
- PROVIDE WALL MOUNTED, BACKLIT THERMOSTAT WITH EACH INDOOR UNIT.
- PROVIDE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ISOLATION BALL VALVES WITH INTEGRAL SCHADER FITTINGS AT EACH AC UNIT.
- PROVIDE FACTORY-MATCHED CONDENSATE PUMP FOR EACH AC UNIT.
- INSTALLING CONTRACTOR MUST BE MITSUBISHI CERTIFIED FOR INSTALLING VRF SYSTEMS.
- WARRANTY: 10 YEAR PARTS ON ENTIRE UNIT & COMPRESSOR
- PROVIDE MANUFACTURER'S DISCONNECT (WITH MOCP) FOR ALL INDOOR UNITS.
- PROVIDE OPTIONAL FILTER RACK MODULE FOR EACH INDOOR UNIT. PROVIDE FIELD FABRICATED MIXING PLENUM FOR RA/OA CONNECTIONS. PLENUM SHALL BE FULL HEIGHT AND WIDTH OF FILTER INTAKE AND WITH DEPTH AS REQUIRED TO PERMIT ALL SPECIFIED DUCT CONNECTIONS.

**ENERGY RECOVERY VENTILATOR SCHEDULE**

MARK	CFM OA/EXH (CFM)	EXT. STATIC PRESSURE (IN. H2O)	OA WINTER EAT DB/RH	OA SUMMER EAT DB/RH	EXH WINTER EAT DB/RH	EXH SUMMER EAT DB/RH	OA WINTER LAT DB/WB	OA SUMMER LAT DB/WB	ELEC. CHAR. (V-ø)	MANUFACTURER	MODEL NUMBER	SOUND LEVEL (dB)	MCA/MOCP (AMPS)	REMARKS
ERV-1	450	0.6	20/30	95/57	70/40	75/50	56.3/43.8	80.5/73.8	208-1	MITSUBISHI	LGH-F470	33	3.1/15	(1)(2)(3)

- PROVIDE ELECTRICAL DISCONNECT WITH UNIT
- PROVIDE UNIT WITH 1" WASHABLE FILTERS (OA AND EXH)
- PROVIDE FACTORY STARTUP OF UNIT.

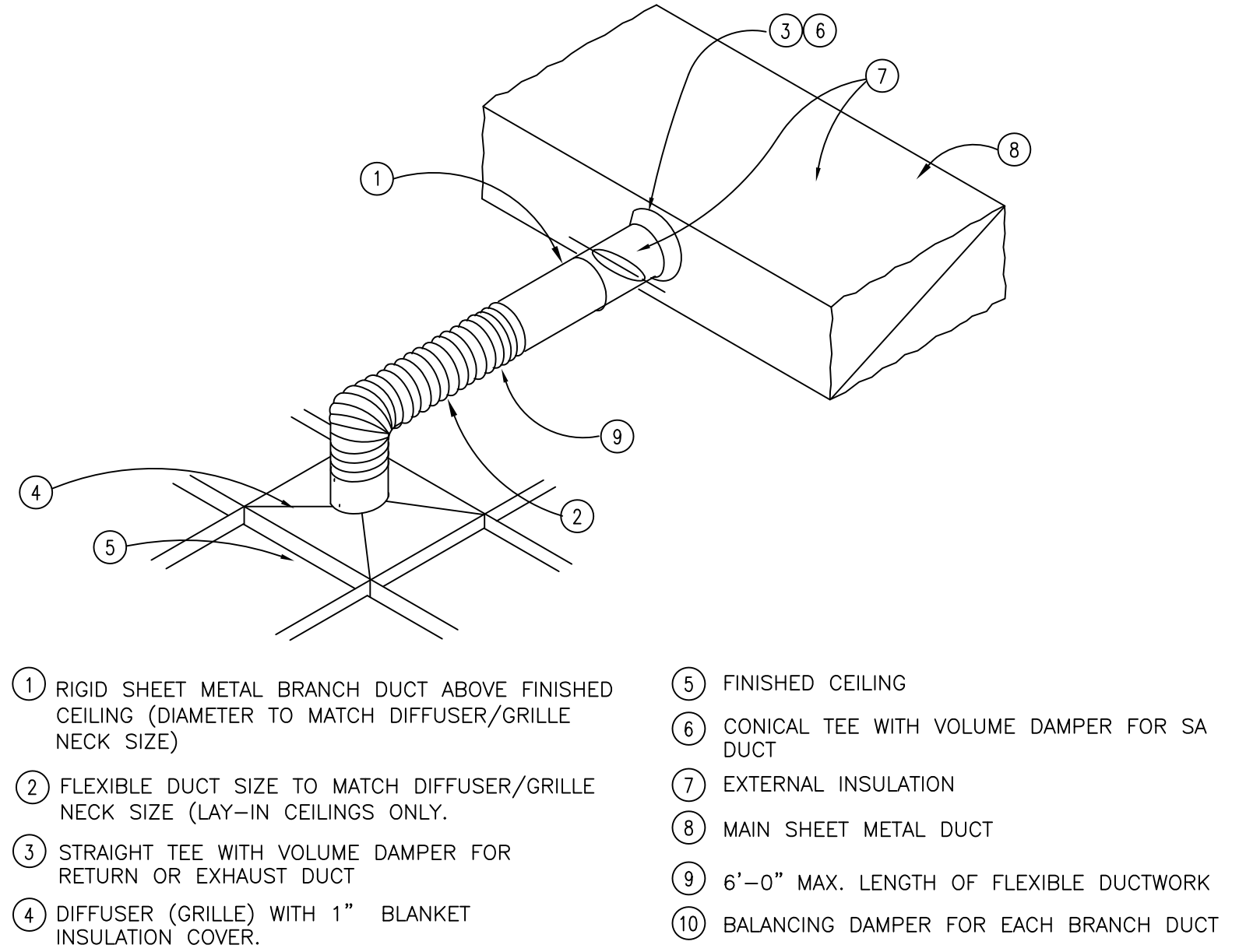
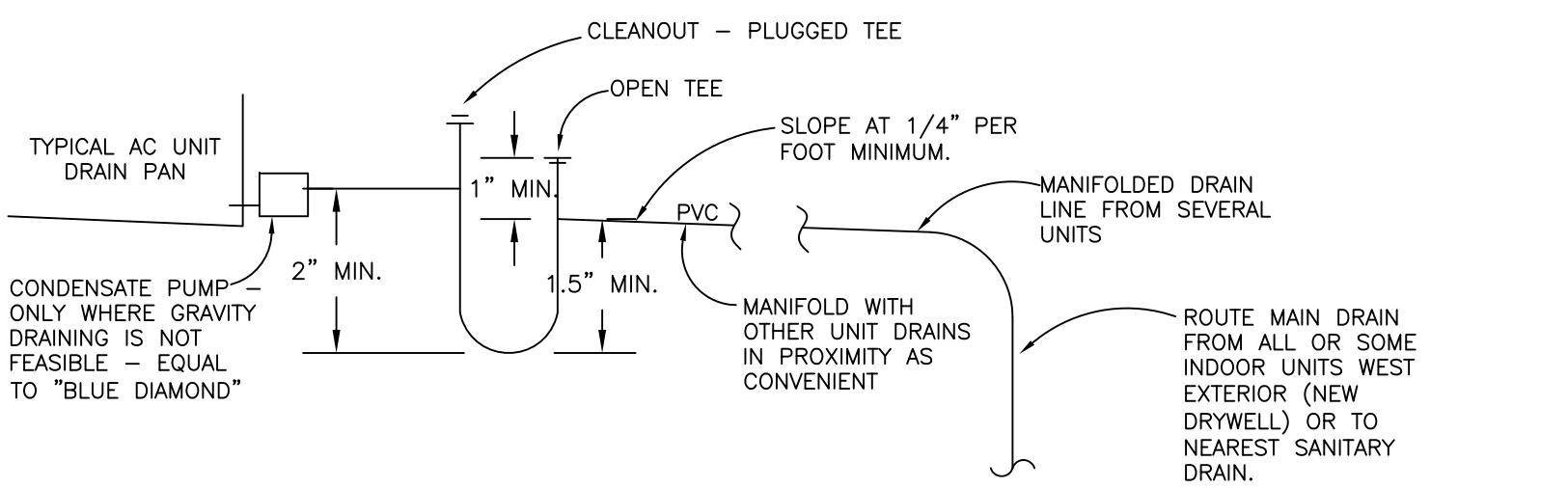
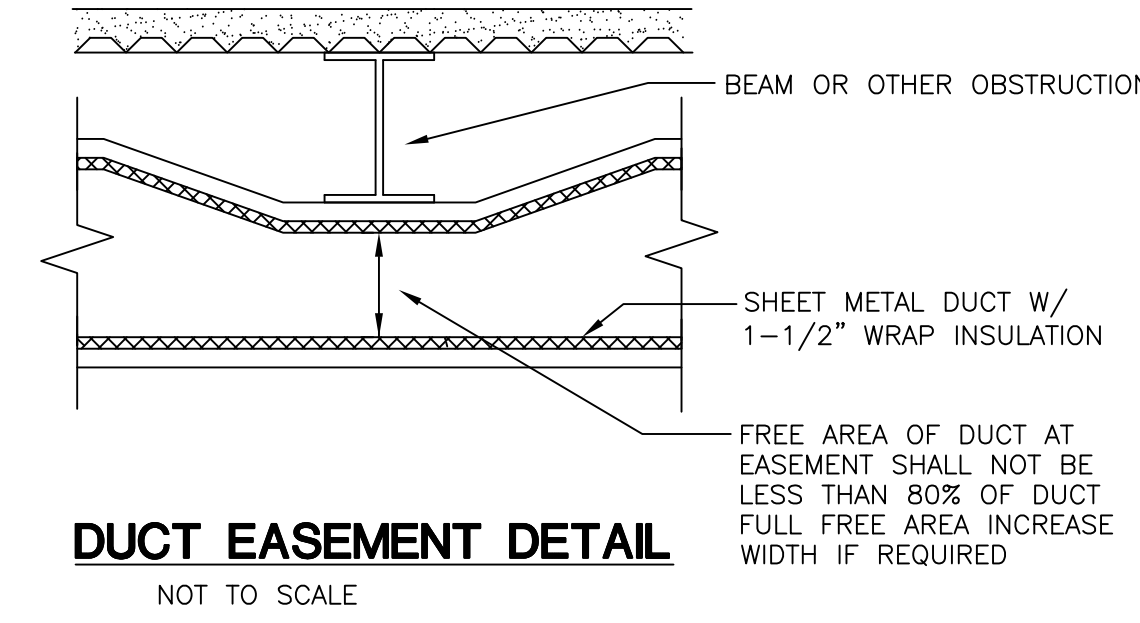
**VARIABLE REFRIGERANT FLOW SYSTEM OUTDOOR CONDENSING UNIT SCHEDULE**

UNIT DESIGNATION	CU-1
LOCATION	GROUND
MANUFACTURER	MITSUBISHI
MODEL NUMBER	PUHY-P216TSLMU-A-BS
UNIT TYPE	VRF HEAT PUMP
NOMINAL COOLING CAPACITY (BTU/H)	216,000
COOLING EFFICIENCY (EER/IEER)	13.3/24.5
NOMINAL HEATING CAPACITY (BTU/H)	243,000
HEATING FULL LOAD EFFICIENCY (COP)	3.64
MODULAR UNIT DESIGNATION	CU-1A (1) CU-1B (1)
MODULAR UNIT MODEL NUMBER	PUHY-P120TSLMU PUHY-P96TSLMU
ELECTRICAL CHARACTERISTICS (V-ø)	208-3 208-3
COMPRESSOR TYPE	INVERTER SCROLL INVERTER SCROLL
MINIMUM CIRCUIT AMPACITY (A)	42 (1) 32 (1)
MAXIMUM OVERCURRENT PROTECTION (A)	60 (1) 50 (1)
REFRIGERANT PIPE SIZE HIGH - LOW (IN. - IN.)	5/8 - 1-1/8 (4)
REFRIGERANT CHARGE (LBS)	69.2
SOUND LEVEL (dB)	62.5 62.5

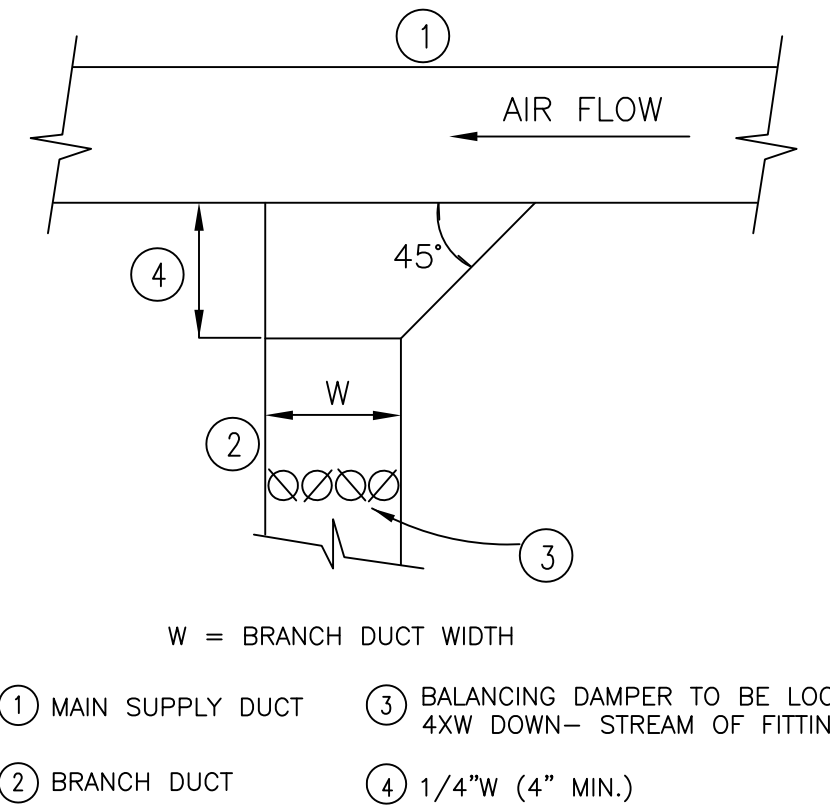
- CU-1 IS A MODULAR UNIT THAT CONSISTS OF ONE 72,000 BTU/H CONDENSING UNIT (CU-1A) AND 120,000 BTU/H CONDENSING UNIT (CU-1B) TWINNED TOGETHER. DISCONNECT SHALL BE PROVIDED FOR EACH CONDENSING UNIT BY DIVISION 16.
- PROVIDE FACTORY START-UP WITH UNIT.
- SYSTEM SHALL MAINTAIN 100% LOW AMBIENT COOLING CAPACITY DOWN TO 23°F.
- COMBINED PIPE SIZE FOR TOTAL UNIT. SEE MANUFACTURER'S RECOMMENDATIONS FOR INDIVIDUAL UNIT PIPE SIZING.
- ELECTRICAL DISCONNECTS SHALL BE PROVIDED BY DIVISION 16.

**MECHANICAL LEGEND**

- NEW SUPPLY AND RETURN DUCTWORK WITH 1-1/2" EXTERNAL INSULATION
- NEW UNINSULATED EXHAUST DUCTWORK
- WALL THERMOSTAT WITH ZONE # INDICATED
- VOLUME BALANCING DAMPERS (BD)
- SQUARE CEILING DIFFUSER (24x24 FACE & 8" NECK)
- RETURN AIR GRILLE (24x24 FACE, 8" NECK)
- FIRE DAMPER WITH ACCESS PANEL
- ROUND DUCT SYMBOL
- CONNECT TO EXISTING
- SPIN IN WITH DAMPER



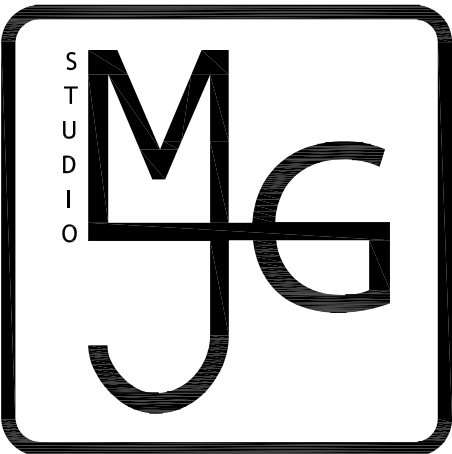
**BRANCH DUCT TAKEOFF DETAIL - TYPICAL**



**CAMPBELL SPELLICY ENGINEERING**  
PROJECT: 17032  
CONFORMANCE DOCUMENT

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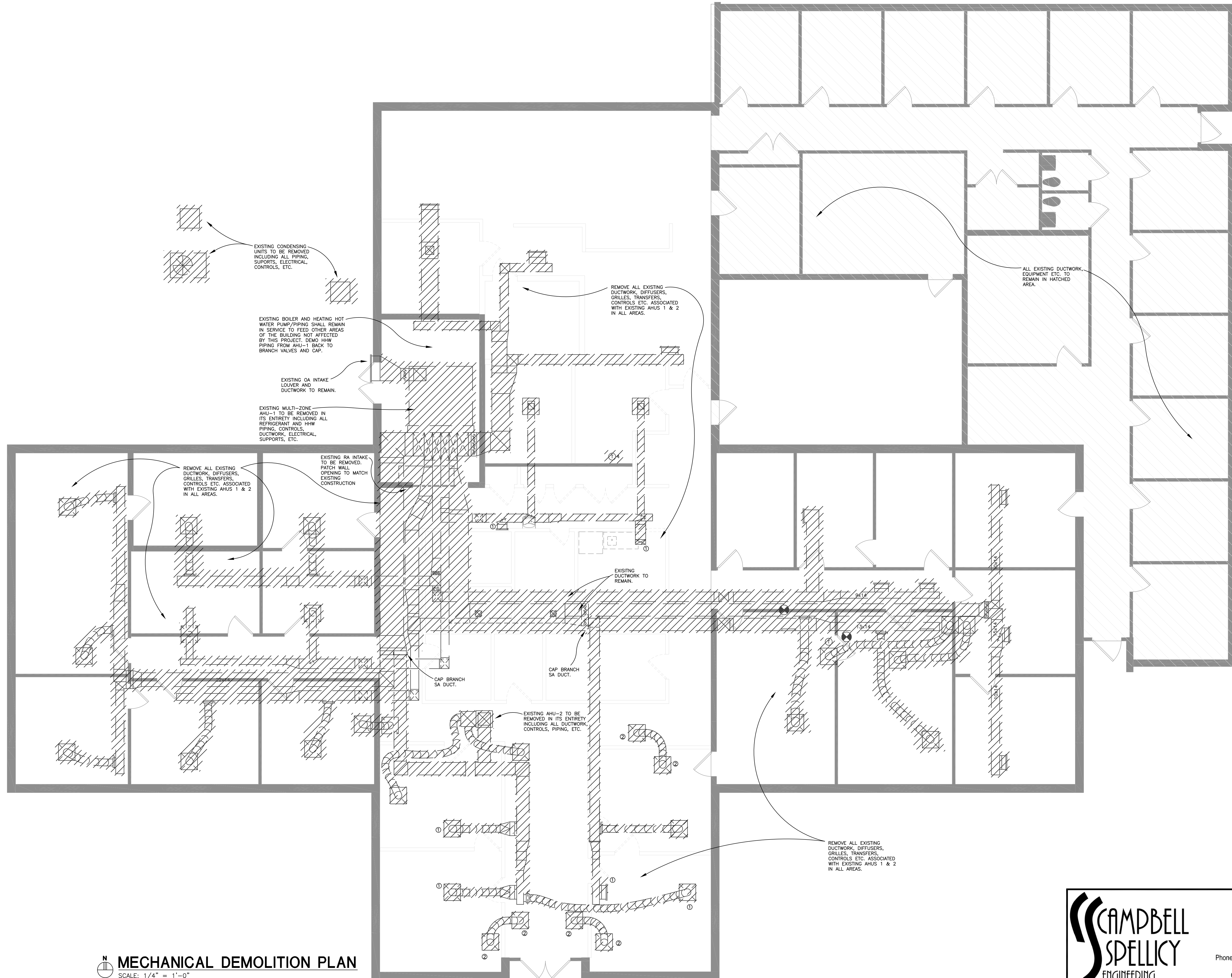
KEVIN M. SPELLICY  
PE - 76968

No.	DESCRIPTION	DATE
1	FIELD ORDER NO. 1	8/18/2017
2	CONFORMANCE	11/01/2017

PROJECT NUMBER: 17032  
ISSUE DATE: 18 AUGUST 2017  
CREATED BY:  
CHECKED BY: KMS

## M101

MECHANICAL  
DEMOLITION  
FLOOR PLAN



**MECHANICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



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PROJECT NUMBER:	17032
ISSUE DATE:	18 AUGUST 2017
CREATED BY:	AEF
CHECKED BY:	KMS

## M201

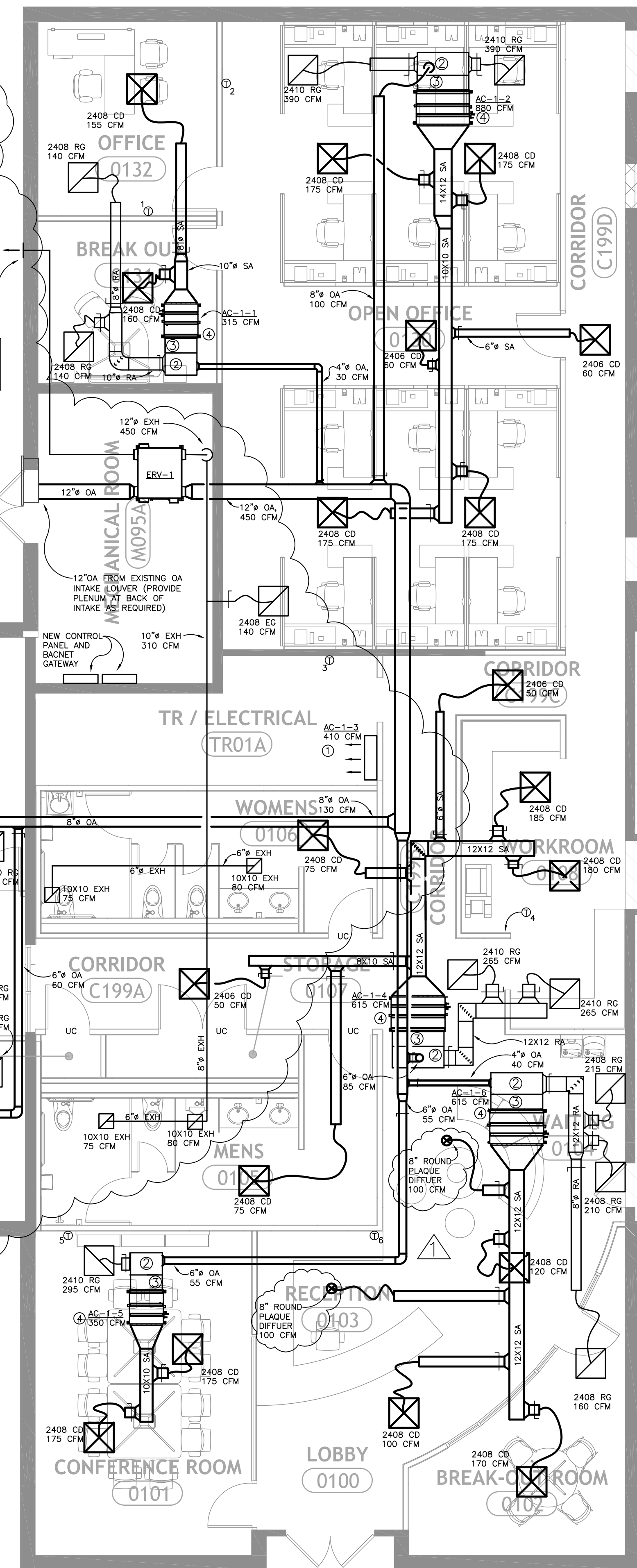
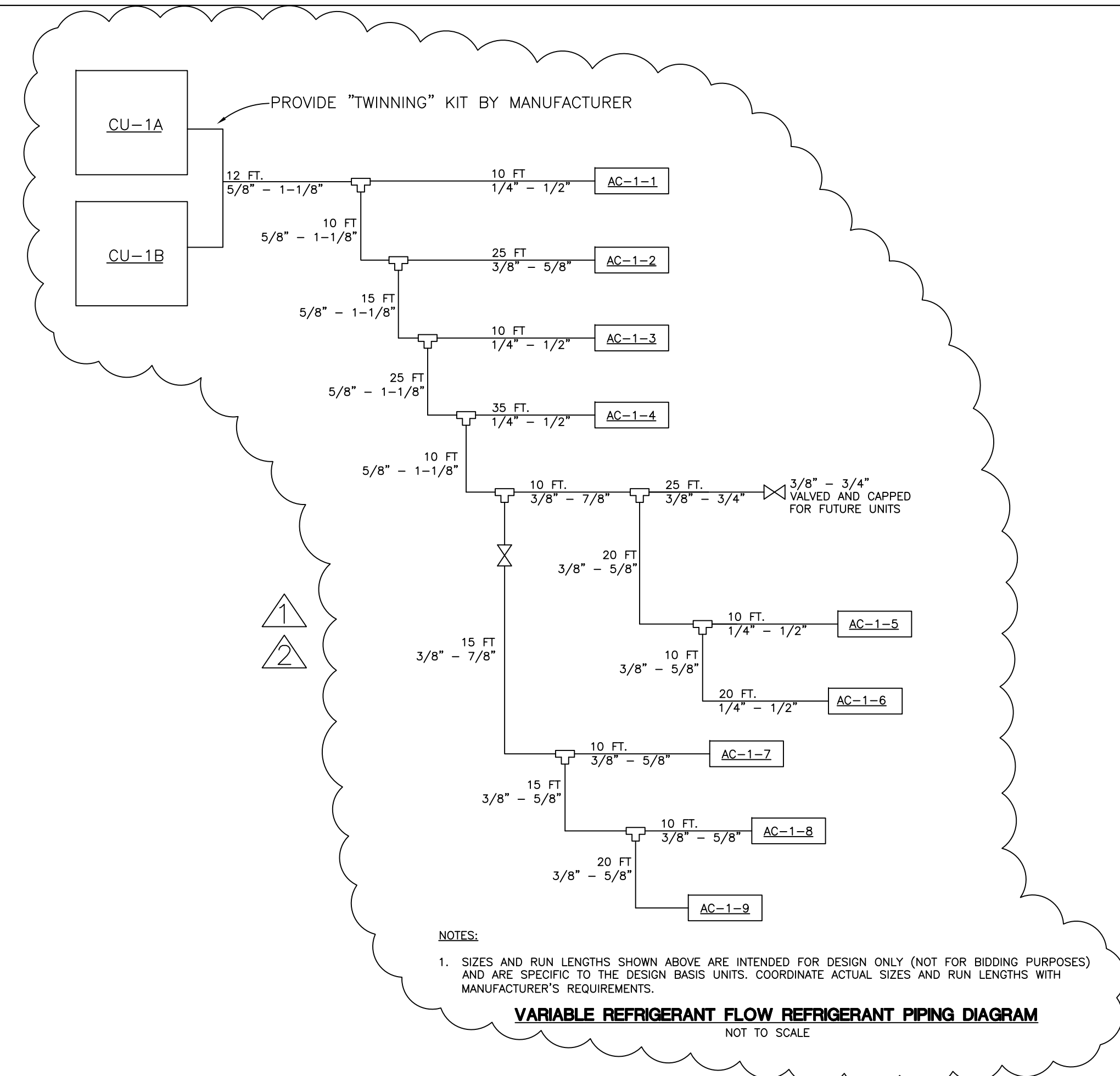
MECHANICAL FLOOR PLAN



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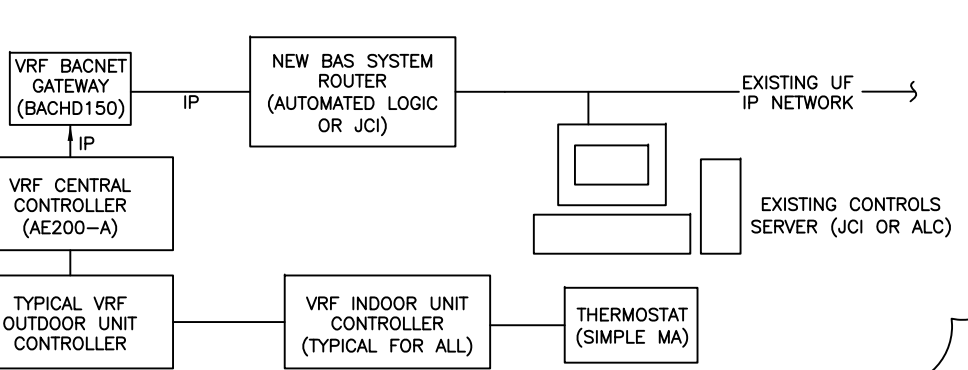
MECHANICAL FLOOR PLAN  
SCALE: 3/16" = 1'-0"

**DDC POINTS LIST SCHEDULE**

INPUT/OUTPUTS	FEATURES
ZONE TEMPERATURE	ZONE TEMPERATURE
SUPPLY AIR TEMPERATURE	SUPPLY AIR TEMPERATURE
SPACE HEATING SETPOINT	SPACE HEATING SETPOINT
SPACE COOLING SETPOINT	SPACE COOLING SETPOINT
FAN SPEED (HIGH/MED/LOW)	FAN SPEED (HIGH/MED/LOW)
RUN STATUS (ON/OFF)	RUN STATUS (ON/OFF)
COMPRESSOR STATUS (ON/OFF)	COMPRESSOR STATUS (ON/OFF)
DRAIN PAN FLOOD SWITCH (SHUTDOWN)	DRAIN PAN FLOOD SWITCH (SHUTDOWN)
COMPRESSOR STATUS (ALARM)	COMPRESSOR STATUS (ALARM)
BAS INTEGRATION	BAS INTEGRATION

TYPICAL VRF INDOOR UNIT  
TYPICAL VRF OUTDOOR UNIT  
ERV-1

1 FLOAT SWITCH SHUTDOWN FOR INDOOR UNIT SHALL SHUTDOWN ONLY THE UNIT IN ALARM AND NO OTHERS.



**SHEET NOTES**

- WALL MOUNTED VRF INDOOR UNIT MOUNTED ABOVE DOORWAY
- PROVIDE INSULATED SHEET METAL PLENUM AT BACK OF FILTER BOX. PLENUM SHALL BE FULL HEIGHT AND WIDTH OF FILTER BOX INTAKE OPENING. PROVIDE TAPS FOR BRANCH RETURN AIR DUCTS AS SHOWN INTO TOP OF PLENUM. PROVIDE BALANCING DAMPER FOR EACH TAP.
- FILTER BOX ACCESSORY FOR DUCTED VRF INDOOR UNIT
- CONCEALED DUCTED VRF INDOOR EVAPORATOR UNIT. PROVIDE REFRIGERANT PIPING FOR EACH UNIT TO OUTDOOR UNIT CU-1 PER MANUFACTURER'S RECOMMENDATIONS AND PIPING SCHEMATIC THIS SHEET.

HATCHED AREA TO BE LEFT AS UNCONDITIONED SHELL SPACE - OWNER TO COORDINATE SPOT COOLING AS REQUIRED FOR MOISTURE CONTROL

**PLUMBING LEGEND**

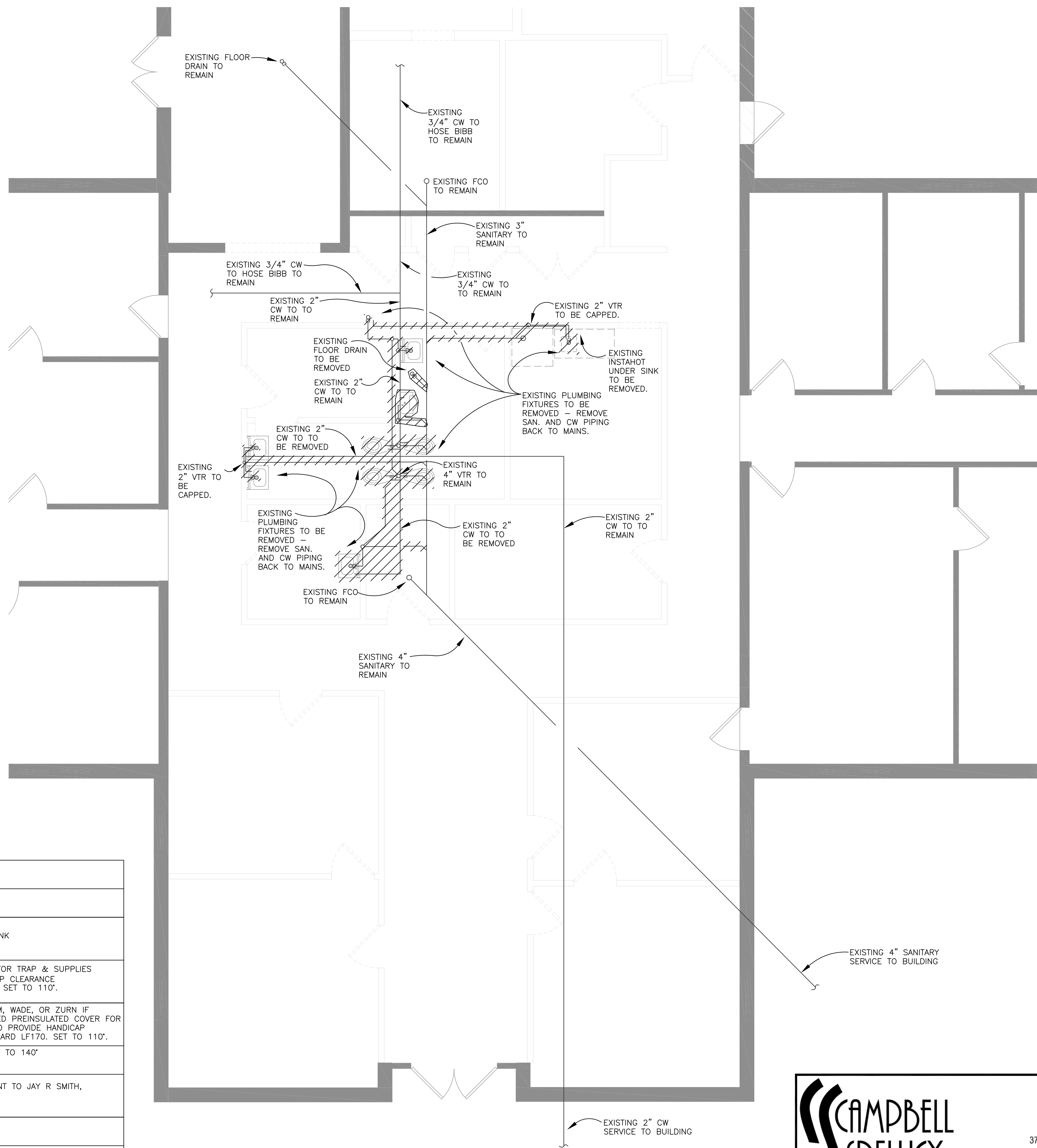
---	CW	COLD WATER SUPPLY PIPING (COPPER)
---	V	VENT PIPING (PVC)
---	S	SOIL PIPING (PVC)
⊕		WATER HAMMER ARRESTOR
⊕	BV	BALL VALVE
⊕		UNION
⊕		CAPPED PIPING
⊕	CO	CLEANOUT
⊕	CTG	CLEANOUT TO GRADE
⊕	FCO	FLOOR CLEANOUT
⊕	WCO	WALL CLEANOUT
⊕		P-TRAP
⊕	HB	HOSE BIBB
⊕	WHA	WATER HAMMER ARRESTOR
⊕	CTG	CLEANOUT UP TO GRADE
⊕	FCO	FLOOR CLEANOUT
⊕	WCO	WALL CLEANOUT
⊕	D	DRAIN
⊕	(F.U.)	FIXTURE UNIT COUNT
⊕		CONNECTION SYMBOL - VERIFY SITE WORK - PROVIDE MATERIALS AND LABOR TO COMPLETE CONNECTIONS
⊕	HB	HOSE BIBB
⊕	CW	COLD WATER
⊕	HW	HOT WATER
⊕	VTR	VENT THRU ROOF
⊕	DN	DOWN
⊕	AP	ACCESS PANEL
⊕	BVIYB	BALL VALVE IN YARD BOX

**PLUMBING GENERAL NOTES**

- COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO MISS DUCTS.
- COORDINATE ALL BUILDING PLUMBING PIPING WITH SITE PIPING SYSTEMS PRIOR TO START OF ANY WORK.
- FIELD VERIFY INVERTS PRIOR TO LAYING OUT SANITARY PIPING. ALL PIPING INDICATED ON THE PLUMBING DRAWINGS IS ABOVE THE CEILING EXCEPT THE OBVIOUS SOIL AND WASTE PIPING BELOW THE FLOOR.
- ALL VENTS-THRU-ROOF SHALL BE MINIMUM 10'-0" CLEAR FROM HVAC OUTSIDE AIR INTAKES.
- VERIFY ALL ELEVATIONS NOTED ON DRAWINGS WITH ACTUAL ELEVATIONS FOUND ON THE SITE AND WITH ELEVATIONS NOTED ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING NEW WORK. FAILURE TO RESOLVE COORDINATION PROBLEMS PRIOR TO INSTALLING NEW WORK SHALL NOT BE CAUSE FOR ADDITIONAL COSTS. ENGINEER WILL RESOLVE ANY APPARENT DISCREPANCIES. ALL PIPING PASSING THROUGH MASONRY WALLS SHALL HAVE A SLEEVE - (SEE SPECIFICATIONS).
- PROVIDE PIPE SLEEVES PER SPECIFICATIONS (AND IN ACCORDANCE WITH THE STANDARD PLUMBING CODE SECTION ON PIPING THROUGH FOUNDATION WALLS AND UNDER FOOTINGS) AT ALL LOCATIONS WHERE SANITARY DRAIN PIPING PASS THROUGH FOUNDATION WALLS BELOW FLOOR SLABS (STEM WALLS). REFER TO STANDARD PLUMBING CODE AND FOOTING DRAWINGS. PROVIDE PIPE SLEEVE AND CONCRETE RELIEVING ARCH AT ALL LOCATIONS WHERE SANITARY PIPES PASS UNDER FOOTINGS. REFER TO FLORIDA PLUMBING CODE AND FOOTING DRAWINGS. COORDINATE ALL BELOW GRADE PIPING WITH FOUNDATION DRAWINGS TO ENSURE PROPER DROPPED FOOTINGS, RELIEVING ARCHES AND/OR SLEEVES ARE INSTALLED.
- SUPPORT PIPING USING MANUFACTURED HANGERS AND SUPPORTS SUCH AS THOSE MANUFACTURED BY HUBBARD INDUSTRIES.
- SEAL WALL OR ROOF PENETRATIONS USING A METAL ROOF PIPE FLASHING. USE SOLAR SEAL SEALANT AND BUTYL TAPE TO SEAL AIR AND WATER TIGHT.
- DROP PIPING AS REQUIRED AT EXITS OF BUILDING WALL.
- ALL WALL CLEANOUTS SHALL BE EXTENDED WITH PIPING FLUSH WITH WALL. THIS WILL BE UNDERSTOOD THAT THE RIM OF THE SCREWED PORTION OF THE CLEANOUT ADAPTOR IS FLUSH WITH THE WALL. THIS ARRANGEMENT WILL REQUIRE A RECESSED HEAD PLUG. SET ALL WALL CLEANOUTS SO BOTTOM OF ADAPTOR IS A MINIMUM OF 6" ABOVE THE FINISHED FLOOR AND COVER IS ABOVE FLOOR CORNER TILE OR FLOOR BASE MOULDING. A WALL CLEANOUT IS REQUIRED IN EVERY VERTICAL STACK. FILL WALL CAVITY WITH CONCRETE BELOW ALL WALL CLEANOUTS THAT ARE SET BELOW FLOOD LEVEL RIMS OF FIXTURES, TO PREVENT DRIPPINGS FROM SETTLING IN WALL CAVITIES.
- PROVIDE CLEANOUTS AS FOLLOWS: (A) AT BASE OF EACH VERTICAL STACK INCLUDING BACKVENT (OR INDIVIDUAL VENTS). (B) AT EACH CHANGE OF DIRECTION OF HORIZONTAL RUN. (C) AT 50 FOOT INTERVALS OF HORIZONTAL RUNS.
- STOPS FOR THIS PROJECT SHALL HAVE CAST BRASS BODIES WITH METAL HANDLES AND STEMS.
- ALL SHUT OFF CONTROL VALVES, WATER HAMMER ARRESTOR'S, CLEANOUTS OR OTHER OPERABLE PLUMBING DEVICES SHALL BE ACCESSIBLE FROM AN EIGHT FOOT STEP LADDER ON THE STANDING RUNGS OF THE LADDER.

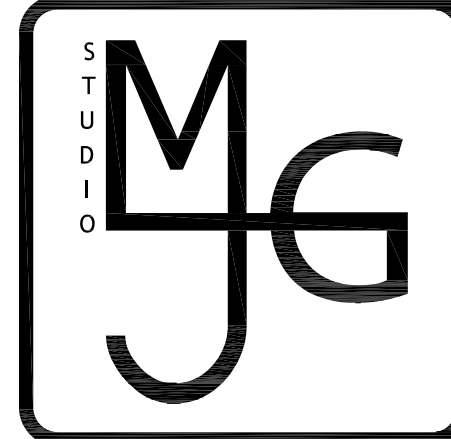
**PLUMBING FIXTURE AND CONNECTION SCHEDULE**

P-NO	FIXTURE DESCRIPTION	MOUNTING HEIGHT	MIN. CONNECTIONS			SPECIFICATION			NOTES
			WASTE	CW	HW	MANUFACTURER	FIXTURE	TRIM	
P-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE 1.28 GAL/FLUSH	FLOOR TO RIM 16 1/2"	4"	1/2"	---	AMERICAN STANDARD	2859.111	---	SEAT - SPERZEL 50-EWSSCH PROVIDE FLUSH HANDLE ON LAV SIDE OF TANK
P-2	ADA LAVATORY W/ VANITY 4" CENTER SET	FLOOR TO BTM OF APRON MIN. 29"	1 3/4"	1/2"	1/2"	BOWL W/ CABINET	---	---	PROVIDE PREMOLDED PREINSULATED COVER FOR TRAP & SUPPLIES PROVIDE DRAIN OFFSET TO PROVIDE HANDICAP CLEARANCE PROVIDE TEMPERING VALVE. LEONARD LF170. SET TO 110'.
						CHICAGO	---	2200-E28	
P-3	ADA LAVATORY WALL HUNG 21"x18" 4" CENTER SET	FLOOR TO BOTTOM OF APRON MIN. 29"	1 1/4"	1/2"	1/2"	AMERICAN STANDARD	0355.012	---	PROVIDE FLOOR MOUNTED CARRIER BY JOSAM, WADE, OR ZURN IF MOUNTED ON STUD WALL PROVIDE PREMOLDED PREINSULATED COVER FOR TRAP & SUPPLIES PROVIDE DRAIN OFFSET TO PROVIDE HANDICAP CLEARANCE PROVIDE TEMPERING VALVE. LEONARD LF170. SET TO 110'.
						CHICAGO	---	2200-E28	
P-4	ELECTRIC WATER HEATER 30 GAL STORAGE	---	---	3/4"	3/4"	A.O. SMITH	DEL-30	---	30 GALLON STORAGE. 6.0 KW, 208V/3Ø. SET TO 140'
P-5	URINAL WALL HUNG FLUSH VALVE 1.0 PINT/FLUSH	FLOOR TO RIM 17"	2"	1/2"	---	SLOAN	SU-1006	---	PROVIDE FLOOR MOUNTED CARRIER EQUIVALENT TO JAY R SMITH, MODEL 0637
						SLOAN ROYAL	---	186-0.5	
P-6	ADA HI/LOW WATER COOLER	WALL HUNG	1-1/2"	1/2"	---	ELKAY	EZS8	---	SEE SPECIFICATIONS
P-7	FLOOR DRAIN	FLUSH	3"	---	---	JOSAM	30003-5A	---	SEE SPECIFICATIONS



**PARTIAL PLUMBING DEMOLITION PLAN**  
 SCALE: 1/4" = 1'-0"

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 McCarty Dr., Gainesville, FL 32611

CONFORMANCE

KEVIN M. SPELICY  
 PE - 76968

No.	DESCRIPTION	DATE
1	FIELD ORDER NO. 1	8/18/2017
2	CONFORMANCE	11/01/2017

PROJECT NUMBER: 17032  
 ISSUE DATE: 18 AUGUST 2017  
 CREATED BY: AEF  
 CHECKED BY: KMS

**P001**  
 PLUMBING LEGEND, NOTES, DEMOLITION PLAN AND SCHEDULE

PROJECT: 17032 CONFORMANCE DOCUMENT





STUDIO M&J, LLC  
5211 SW 91ST TERRACE, SUITE F  
GAINESVILLE, FLORIDA 32608  
WWW.STUDIOMJG.COM

**MP02649 BUILDING 700 - INTERIOR  
RENOVATION**

University of Florida, 2001  
McCarty Dr., Gainesville, FL 32611

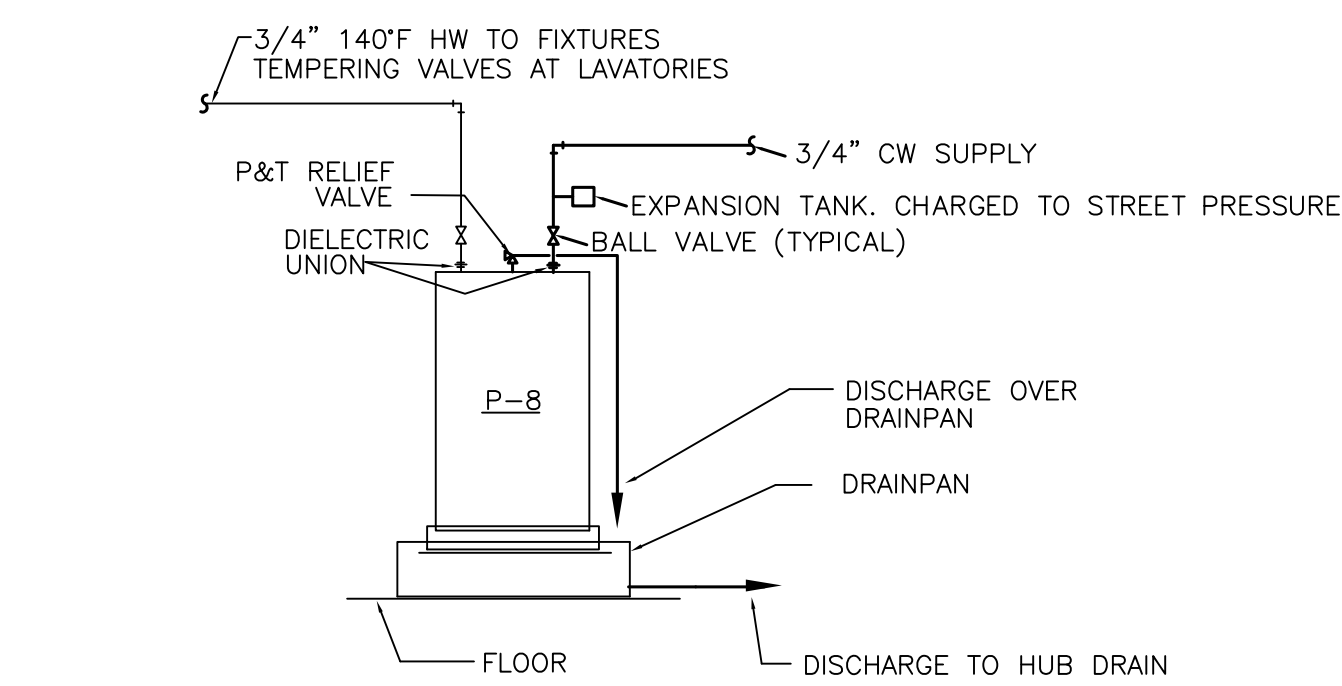
CONFORMANCE

KEVIN M. SPELICY  
PE - 76968

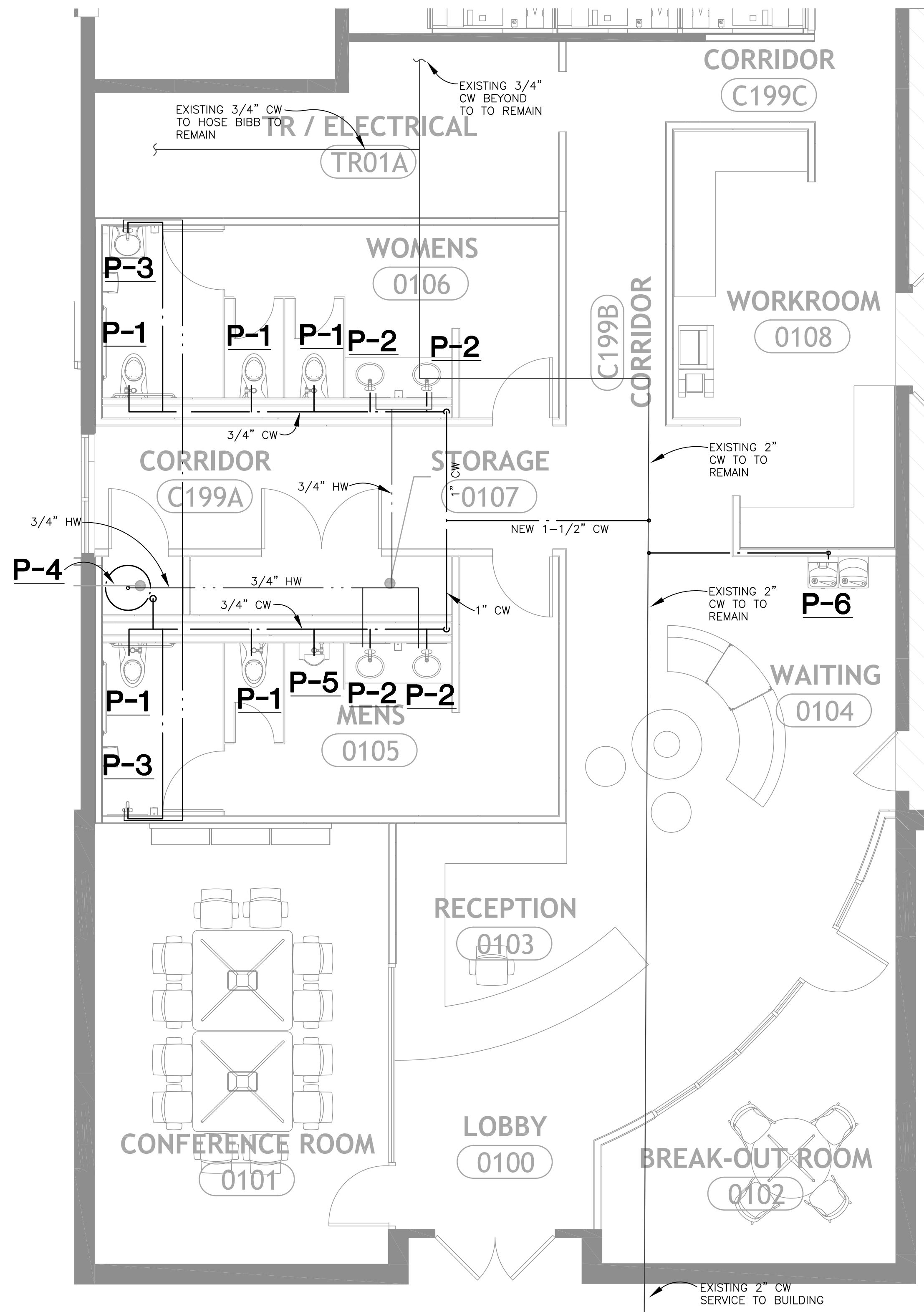
No.	DESCRIPTION	DATE
△	FIELD ORDER NO.1	8/18/2017
△	CONFORMANCE	11/01/2017

PROJECT NUMBER:	17032
ISSUE DATE:	18 AUGUST 2017
CREATED BY:	AEF
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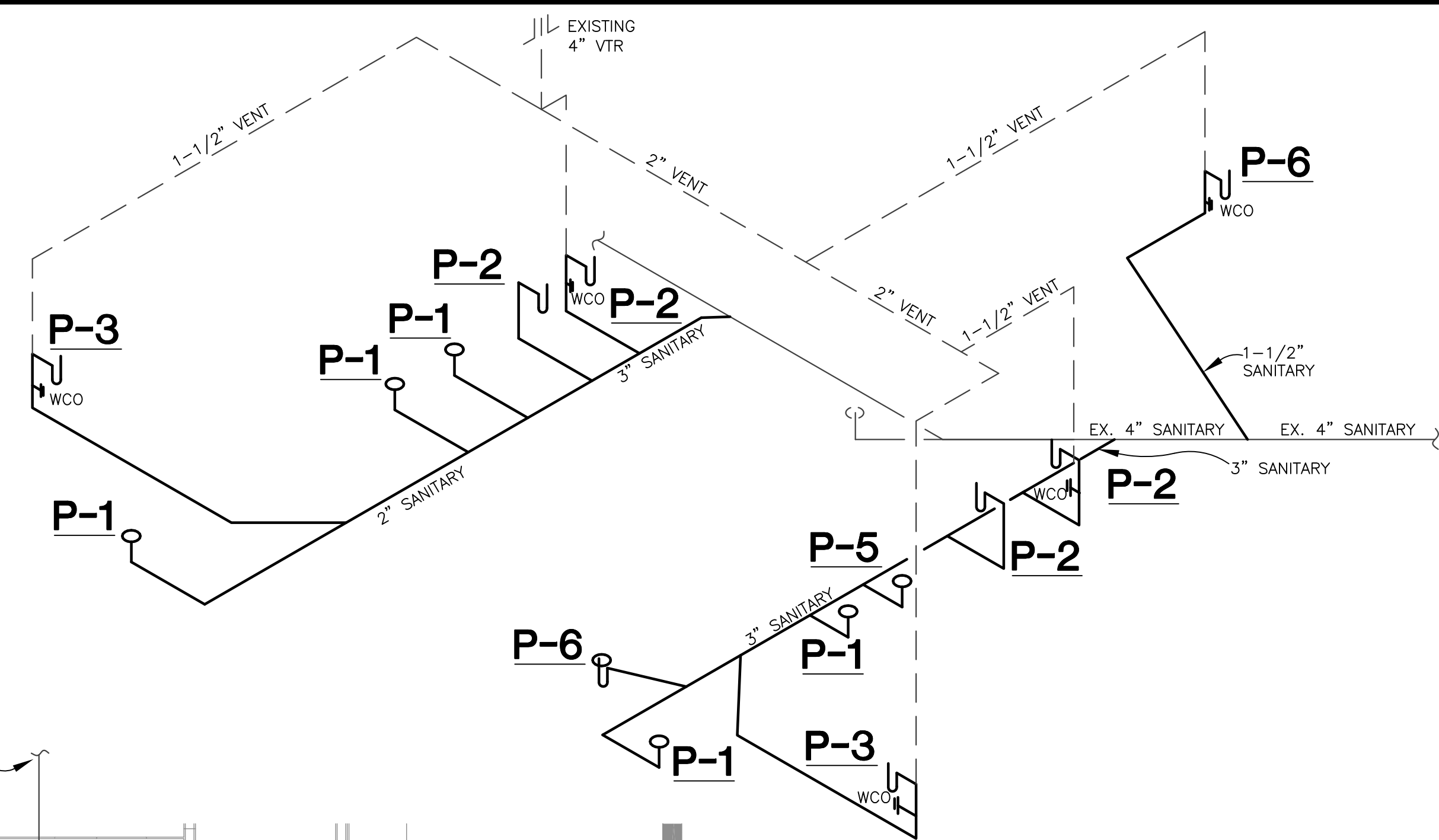
**P101**  
PLUMBING FLOOR  
PLANS AND RISER



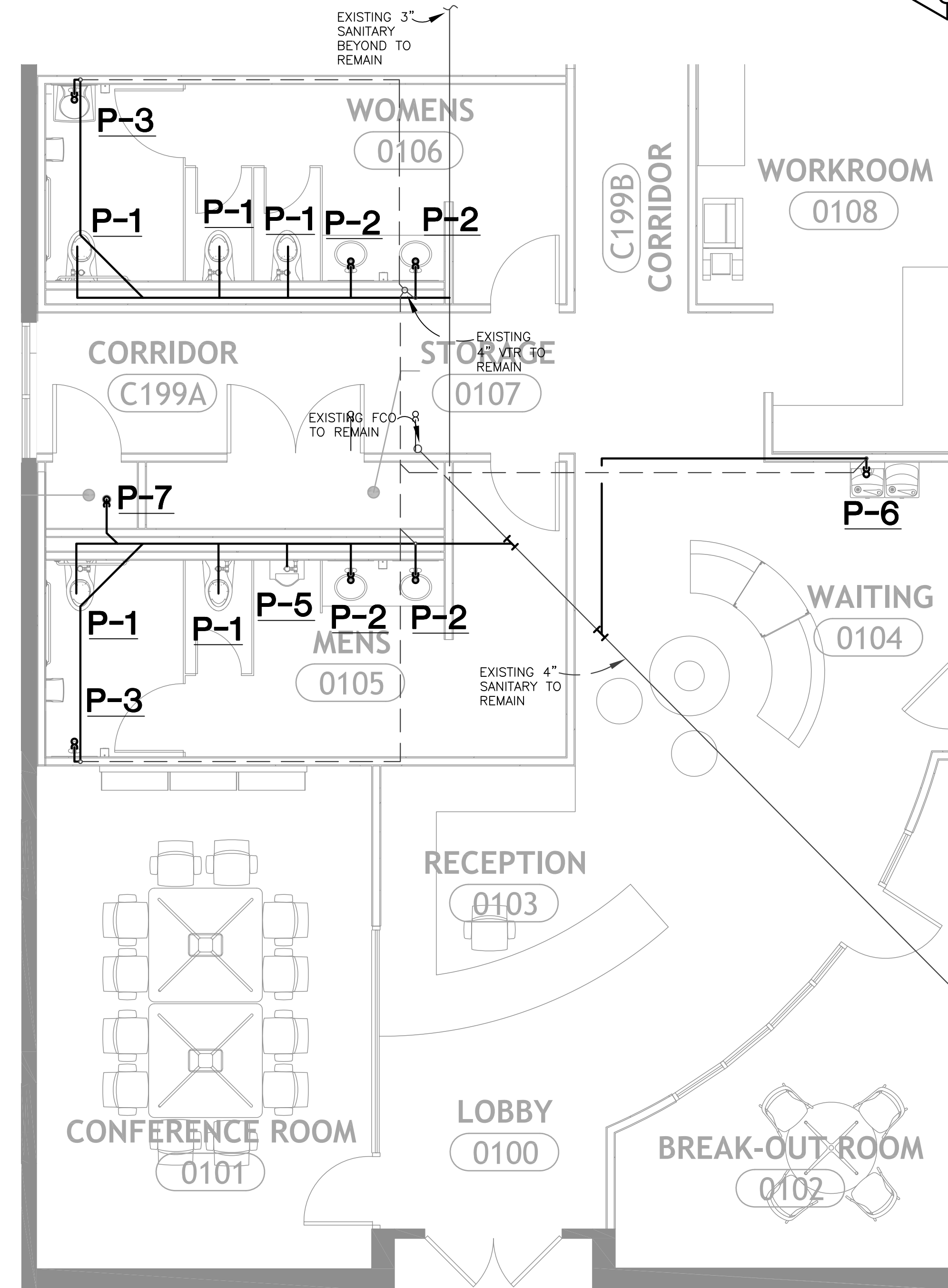
**NEW WATER HEATER (P-4) INSTALLATION DETAIL**  
NOT TO SCALE



**PARTIAL PLUMBING PLAN NEW DOMESTIC WATER**  
SCALE: 1/4" = 1'-0"



**PARTIAL SANITARY  
RISER DIAGRAM**  
NOT TO SCALE




















**PARTIAL PLUMBING PLAN NEW SANITARY PIPING**  
SCALE: 1/4" = 1'-0"


**CAMPBELL  
SPELICY  
ENGINEERING**


3720 NW 43rd Street, Suite 106  
Gainesville, Florida 32606  
Phone: 352-372-6967 / Fax: 352-372-7232  
www.CampbellSpelicy.com  
Certificate of Authorization: 00008813


PROJECT: 17032 CONFORMANCE DOCUMENT


## ELECTRICAL LEGEND

-  FIRE ALARM PULL STATION MOUNTED 48"A.F.F.
-  FIRE ALARM HORN MOUNTED AT LEAST 90"A.F.F. AND AT LEAST 6" BELOW FINISHED CEILING MEASURED TO TOP OF DEVICE.
-  FIRE ALARM FLASHING LIGHT MOUNTED 80-1/2"A.F.F., TO THE BOTTOM OF THE LENS, UNLESS INDICATED IN A CEILING; STROBE SHALL BE RATED FOR MINIMUM OF 75cd
-  FIRE ALARM HORN AND FLASHING LIGHT MOUNTED 80-1/2"A.F.F., TO THE BOTTOM OF THE LENS, UNLESS INDICATED IN A CEILING; STROBE SHALL BE RATED FOR MINIMUM OF 75cd
-  SMOKE DETECTOR - "D" DENOTES SAMPLING TUBES IN AIR CONDITIONING DUCTWORK
-  FIRE ALARM ANNUNCIATOR
-  FIRE ALARM CONTROL PANEL
-  METER
-  RELAY
  -  DATA/TELEPHONE OUTLET - WALL
  -  DATA/TELEPHONE OUTLET - FLOOR
  -  DATA/TELEPHONE OUTLET - MOUNTED IN MILLWORK
-  DISTRIBUTION SWITCHBOARD OR PANELBOARD
-  BRANCH CIRCUIT PANELBOARD
-  DISCONNECT SWITCH - POLES, RATING AND FUSING AS INDICATED
-  EQUIPMENT CONNECTION OUTLET
-  JUNCTION BOX

 WALL MOUNTED OCCUPANCY SENSOR WITH BOTH PASSIVE INFRARED (PIR) DETECTION AND ULTRASONIC SOUND DETECTION (MICROPHONICS) DUAL TECHNOLOGY. WALL MOUNTED SENSORS SHALL BE AT NORMAL WALL SWITCH MOUNTING HEIGHT. USE LOW-VOLTAGE TYPE WITH POWER PACKS WITH 20 AMP RATING AS NECESSARY PER MANUFACTURER'S INSTRUCTIONS. THIS IS REQUIRED WHEN MORE THAN ONE SENSOR IS INDICATED CONTROLLING THE SAME LIGHTING SUCH AS IN A LARGER ROOM, WHEN ONLY ONE WALL SENSOR CONTROLS THE SAME LIGHTING FIXTURES. LINE-VOLTAGE TYPE MAY BE USED. PROVIDE WATTSTOPPER DW-100 SERIES OR APPROVED EQUAL. REFER TO WWW.LEGRAND.US/WATTSTOPPER.COM FOR DETAILED INFORMATION. ANY MANUAL LIGHT SWITCHES, IF INDICATED, SHALL BE ON THE LOAD SIDE OF THE OCCUPANCY SENSORS; ALL LIGHTING SHALL BE SHUT OFF IN THE EVENT OF OCCUPANCY NOT BEING DETECTED.

 LOW-VOLTAGE CEILING-MOUNTED OR CORNER-MOUNTED, AS SPECIFIED ON DRAWING, OCCUPANCY SENSOR WITH BOTH PASSIVE INFRARED (PIR) DETECTION AND ULTRASONIC SOUND DETECTION (MICROPHONICS) DUAL TECHNOLOGY. USE LOW-VOLTAGE TYPE WITH POWER PACKS WITH 20 AMP RATING AS NECESSARY PER MANUFACTURER'S INSTRUCTIONS. WATTSTOPPER DT-300 SERIES (CEILING MOUNTED), DT-200 SERIES (CORNER MOUNTED), OR APPROVED EQUAL. REFER TO WWW.LEGRAND.US/WATTSTOPPER.COM FOR DETAILED INFORMATION. ANY MANUAL LIGHT SWITCHES, IF INDICATED, SHALL BE ON THE LOAD SIDE OF THE OCCUPANCY SENSORS; ALL LIGHTING SHALL BE SHUT OFF IN THE EVENT OF OCCUPANCY NOT BEING DETECTED. "C" DENOTES MOUNTING TYPE - WHERE C MEANS CEILING-MOUNTED AND N MEANS CORNER-MOUNTED.

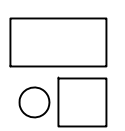
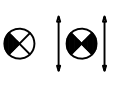

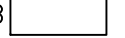
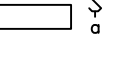
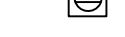
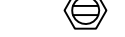
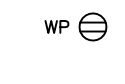




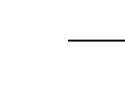

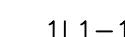

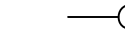

 SINGLE POLE SWITCH 47-1/2"A.F.F. OR AS INDICATED

 3-WAY SWITCH 47-1/2"A.F.F. OR AS INDICATED

 DIMMER WITH ON/OFF SWITCH 47-1/2"A.F.F. OR AS INDICATED

## DEMOLITION NOTES

1. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS NECESSARY TO REMOVE ALL ELECTRICAL ITEMS INDICATED AS EXISTING TO BE REMOVED; TO REMOVE, STORE, CLEAN, AND REINSTALL ALL ELECTRICAL ITEMS INDICATED AS EXISTING TO BE RELOCATED; AND TO NOT DISTURB ANY OTHER ELECTRICAL ITEMS EXCEPT AS NECESSARY TO ACCOMMODATE OTHER WORK SPECIFIED. ALL EXISTING DEVICES, STRUCTURES, EQUIPMENT OR OTHER FEATURES SHALL BE CONSIDERED TO BE EXISTING TO REMAIN UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS NECESSARY TO PROTECT ANY EXISTING OR NEW SMOKE DETECTORS, IF ANY, DURING DEMOLITION AND CONSTRUCTION TO ENSURE NO PARTICULATE MATTER MAY ENTER THESE DETECTORS.
3. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS NECESSARY AND SHALL SCHEDULE WORK AS NECESSARY TO ENSURE THAT OUTAGES TO THE SERVICE OF FIRE ALARM DEVICES ARE MINIMIZED. ALL OUTAGES TO SUCH FIRE ALARM SYSTEM COMPONENTS, IF ANY, SHALL BE COORDINATED WITH THE OWNER AND CONDUCTED DURING TIMES SPECIFIED BY OWNER; SEE PROJECT MANUAL DIVISION ONE.
4. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS NECESSARY TO MAINTAIN IN SERVICE DURING DEMOLITION AND CONSTRUCTION THOSE EXISTING FIRE ALARM SYSTEM COMPONENTS WHICH ARE OUTSIDE THE RENOVATION AREA EVEN IF THESE COMPONENTS ARE SUPPLIED BY OR SERVED BY MATERIALS TO BE REMOVED, MATERIALS TO BE RELOCATED, OR OTHER MATERIALS WITHIN THE RENOVATION AREA.
5. CONTRACTOR SHALL REMOVE ALL UNUSED CONDUCTORS BACK TO SOURCE OR TO THE FIRST JUNCTION POINT SUPPLYING EXISTING OR NEW LOADS TO REMAIN.
6. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO RESUPPLY OR TO MAINTAIN IN SERVICE - TO THE ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND THE ENGINEER - ANY ELECTRICAL ITEMS OUTSIDE OF THE RENOVATION AREA WHICH ARE SERVED BY OR SUPPLIED BY ELECTRICAL ITEMS WITHIN THE RENOVATION AREA.
7. ALL EXPOSED UNUSED CONDUIT SHALL BE REMOVED. ALL UNUSED CONCEALED CONDUIT SHALL BE ABANDONED IN PLACE AFTER INSTALLING A PULLSTRING.
8. DEVICES SHOWN INSIDE THE RENOVATION AREA ARE NOT INTENDED TO REPRESENT ALL DEVICES WITHIN SPACE. ADDITIONAL DEMOLITION WORK MAY BE REQUIRED FOR INSTALLING NEW WORK. CONTRACTOR SHALL ASSUME ADDITIONAL ITEMS NOT INDICATED ARE PRESENT AND SHALL THOROUGHLY INSPECT PROJECT AREA PRIOR TO BIDDING.
9. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS NECESSARY TO REPAIR OR TO REPLACE - TO THE ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND THE ENGINEER - ANY EXISTING DEVICES, FINISHES, SURFACES, OR EQUIPMENT TO REMAIN WHICH IS DAMAGED DURING DEMOLITION OR CONSTRUCTION WITH NO CHANGE TO THE CONTRACT AMOUNT OR TIME SCHEDULE.
10. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS NECESSARY TO EXTEND, RELOCATE, ADD TO, OR REPLACE (AS NECESSARY) FIRE ALARM AND POWER CONDUITS AND CONDUCTORS IN ORDER TO ACCOMMODATE RELOCATION, REMOVAL, OR REINSTALLATION OF ANY ELECTRICAL ITEMS WHICH ARE SO INDICATED.
11. DEMOLITION SHALL INCLUDE ANY REMOVAL AND REPLACEMENT OF EXISTING MATERIALS TO MAKE PREVISION FOR NEW FINISHES IF REQUIRED TO ACCOMMODATE WORK BY OTHER DIVISIONS OF THIS CONTRACT.
12. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR NECESSARY TO PERFORM ELECTRICAL DEMOLITION NECESSARY TO ACCOMMODATE ARCHITECTURAL WORK SPECIFIED ON DEMOLITION SHEET. COORDINATE EXACT REQUIREMENTS WITH ARCHITECTURAL DOCUMENTS AND FIELD CONDITIONS PRIOR TO BID.

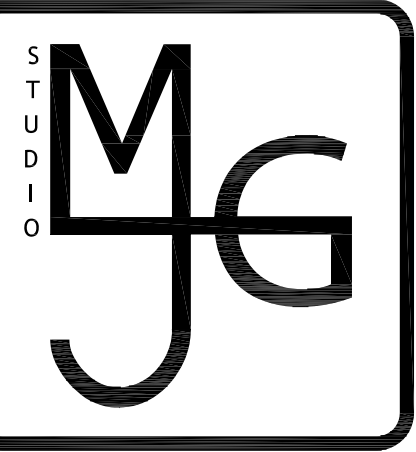
-  CEILING LIGHTING OUTLETS
-  LIGHTED EXIT SIGN - SHADED QUADRANTS DENOTE LIGHTED FACE, ARROWS DENOTE DIRECTION
-  SHADED LIGHTING FIXTURES INDICATE THAT THE FIXTURE HAS AN EMERGENCY BATTERY INVERTER UNIT IN THE BALLAST COMPARTMENT
-  "B" INDICATES THE FIXTURE TYPE
-  LOWER CASE LETTERS "a" AT LIGHTING OUTLETS AND AT SWITCHES INDICATE THE FIXTURE CONTROLLED
-  DUPLEX RECEPTACLE OUTLET WITH GROUND - FLOOR TYPE NEMA 5-20R
-  DUPLEX RECEPTACLE OUTLET WITH GROUND MOUNTED IN MILLWORK - NEMA 5-20R
-  DUPLEX RECEPTACLE OUTLET WITH GROUND - NEMA 5-20R WEATHERPROOF 18"A.F.F.
-  DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTING 18"A.F.F. - NEMA 5-20R
-  DUPLEX RECEPTACLE OUTLET WITH GROUND MOUNTED 42"A.F.F. OR 8" ABOVE COUNTERTOP (TO CLEAR BACK SPLASH) OR AS INDICATED - NEMA 5-20R
-  DOUBLE DUPLEX RECEPTACLE OUTLET WITH GROUND 18"A.F.F. - NEMA 5-20R
-  DOUBLE DUPLEX RECEPTACLE OUTLET WITH GROUND - FLOOR TYPE NEMA 5-20R
-  DOUBLE DUPLEX RECEPTACLE OUTLET WITH GROUND MOUNTED IN MILLWORK - NEMA 5-20R
-  CONDUIT CONCEALED IN CEILING, WALL OR FLOOR
-  SURFACE MOUNTED CONDUIT
-  HOMERUN TO PANELBOARD. "L1" INDICATES THE PANELBOARD NUMBER. "1,3" INDICATES THE BRANCH CIRCUIT NUMBERS. HATCH MARKS DENOTE NUMBER OF CONDUCTORS EXCLUDING GROUND CONDUCTOR. NO HATCH MARKS DENOTES TWO #12 CONDUCTORS AND ONE #12 GROUNDING CONDUCTOR
-  CONDUIT STUB-UP - CONDUIT IS AT HIGHER ELEVATION ON RIGHT SIDE
-  CABLE TRAY

## ELECTRICAL ABBREVIATIONS

A	AMPS
AC	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AICS	AMPS INTERRUPTING CAPACITY SYMMETRICAL
BKR	BREAKER
C	CONDUIT
CLG	CEILING
CKT	CIRCUIT
CU	CONDENSING UNIT
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING TO REMAIN
FACP	FIRE ALARM CONTROL PANEL
F/A	FIRE ALARM
FLR	FLOOR
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HP	HEAT PUMP OR HORSEPOWER
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
P	POLE
PWR	POWER
RE	EXISTING TO BE RELOCATED
RGS	RIGID GALVANIZED STEEL
RV	EXISTING TO BE REMOVED
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT-AMPERES
W	WATTS OR WIRE
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
ø	PHASE

## ELECTRICAL NOTES

1. ALL MATERIALS AND LABOR PROVIDED SHALL COMPLY WITH REQUIREMENTS OF THE 2014 EDITION OF THE FLORIDA BUILDING CODE WITH ALL ADOPTED AMENDMENTS.
2. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH AN INDEPENDENT AND SEPARATE GROUNDING CONDUCTOR (NEUTRAL) WHICH IS NOT SHARED BY ANY OTHER CIRCUITS, UNLESS THE BRANCH CIRCUITS WHICH SHARE THE SAME NEUTRAL ALL SUPPLY THE SAME INDIVIDUAL ELECTRICAL LOAD SUCH AS THE SAME 3-PHASE MOTOR.
3. WHERE TWO SWITCHES ARE SHOWN CONTROLLING THREE OR FOUR LAMP FIXTURES, THE INSIDE LAMP(S) OF EACH FIXTURE SHALL BE ON ONE SWITCH (OR CIRCUIT) AND THE OUTSIDE LAMPS OF EACH FIXTURE SHALL BE ON THE OTHER SWITCH (OR CIRCUIT), WHERE TWO SWITCHES ARE SHOWN CONTROLLING TWO LAMP FIXTURES, THE LEFT AND RIGHT LAMPS OF EACH FIXTURE SHALL BE CONTROLLED BY SEPARATE SWITCHES.
4. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC. WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN WORK. DO NOT SCALE ELECTRICAL DRAWINGS.
5. INSTALL ALL CEILING MOUNTED SPEAKERS TO AVOID CONFLICTS WITH AIR DEVICES, LIGHTS, SPRINKLERS, ETC.
6. INSTALL 4' X 4' AND 2' X 2' FIXTURE SUCH THAT LAMPS ARE PARALLEL IN SAME VISUAL AREA.
7. THERE SHALL BE NO WALL OUTLETS INSTALLED BACK TO BACK; OFFSET TWELVE INCHES MINIMUM.
8. ALL WIRE SHALL BE COPPER.
9. INSTALL 1" CONDUIT (OR SIZE AS INDICATED) FROM EACH TELEPHONE OUTLET TO THE NEAREST TELEPHONE BACKBOARD OR CABINET.
10. STUB AND CAP THREE 3/4" EMPTY CONDUITS TO ABOVE CEILING FROM EACH RECESSED MOUNTED PANELBOARD. THESE CONDUITS SHALL BE ACCESSIBLE FOR FUTURE CIRCUIT INSTALLATION.
11. ALL RACEWAY FOR THE FIRE ALARM SYSTEM SHALL BE RED AND SHALL BE 3/4" CONDUIT MINIMUM.
12. UNLESS INDICATED OTHERWISE, COMMUNICATION BOXES SHALL BE 4-11/16" X 4-11/16" X 2-1/8" DEEP WITH SINGLE DEVICE COVER PLATES.
13. PROVIDE 6'-0" MINIMUM PIG TAIL OF #6 COPPER GROUND WIRE AT EACH TELEPHONE BACKBOARD. CONNECT TO BUILDING GROUND.
14. RECEPTACLES AND COVER PLATES CONNECTED TO THE EMERGENCY SYSTEM SHALL BE COLORED RED.
15. PROVIDE AN INSULATED GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.
16. PROVIDE A 6'-0" MAXIMUM FLEXIBLE CONNECTION FROM EACH RECESSED LIGHTING FIXTURE TO JUNCTION BOX ABOVE CEILING.
17. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR NECESSARY TO PROPERLY RECYCLE (IF POSSIBLE) OR OTHERWISE TO PROPERLY DISPOSE OF ALL EXISTING ELECTRICAL ITEMS (LIGHTS, CLOCKS, SPEAKERS, ETC.) THAT HAVE BEEN REMOVED AND NOT REINSTALLED - UNLESS STATED OTHERWISE BY OWNER.
18. REMOVE ALL UNUSED EXISTING EXPOSED CONDUIT, WIRE, AND BOXES. PULL OUT ALL WIRE FROM EXISTING CONCEALED CONDUIT THAT HAS BEEN ABANDONED.
19. DRAWINGS MAY INDICATE THE REUSE OF SOME EXISTING OUTLET BOXES OR RACEWAY. WHERE IT IS IMPRACTICAL OR NON-COMPLIANT WITH THE NEC BECAUSE OF JOB CONDITIONS TO REUSE AN OUTLET BOX OR RACEWAY, CONTRACTOR SHALL PROVIDE NEW OUTLET BOX OR RACEWAY AS REQUIRED.
20. CONTRACTOR SHALL REPAIR - TO ORIGINAL CONDITION TO OWNER'S SATISFACTION - ANY EXISTING WALL, FLOOR, CEILING, OR OTHER EXISTING ITEMS REMOVED, ALTERED, OR DAMAGED DURING CONSTRUCTION.
21. IN ORDER TO MINIMIZE BALLAST QUANTITY, TANDEM WIRING OF FIXTURE BALLASTS SHALL BE USED WHEREVER PRACTICAL DUE TO FIXTURE PROXIMITY, WHEN DOUBLE SWITCHING IS USED FOR LIGHTING FIXTURES. ALSO, EVEN IF DOUBLE SWITCHING IS NOT INDICATED, WHENEVER TWO OR MORE ONE OR THREE-LAMP LIGHTING FIXTURES IN THE SAME SPACE ARE INDICATED AS BEING CONTROLLED BY THE SAME SWITCH OR SWITCHES, TANDEM WIRING OF FIXTURE BALLASTS SHALL BE USED IF REQUIRED BY FLORIDA BUILDING CODE 505.3 (2010 ED.). SEE THE EXCEPTIONS FOR THIS CODE REQUIREMENT IN THIS PORTION OF THE FLORIDA BUILDING CODE.
22. MOUNTING TOLERANCES FOR FIRE ALARM DEVICES IS ±1/2".
23. REMOVE EXISTING ELECTRICAL EQUIPMENT ONLY AS INDICATED. PROVIDE MATERIALS AND LABOR NECESSARY TO MAINTAIN EXISTING ELECTRICAL POWER OR COMMUNICATIONS SUPPLIES TO EQUIPMENT, DEVICES, FIXTURES, OR OTHER EXISTING ITEMS TO REMAIN.
24. REPLACE EXISTING RECEPTACLES NOT CONFORMING WITH N.E.C. WITH APPLICABLE NEMA GROUNDING TYPE.
25. IF EXISTING FIXTURES ARE REINSTALLED OR RELOCATED, AFFECTED FIXTURES SHALL BE STORED SAFELY; CLEANED; AND SHALL HAVE NEW BALLASTS, LENSES, AND LAMPS PROVIDED, AS NECESSARY.
26. THE CONTRACTOR SHALL REROUTE EXISTING CIRCUITS OR PROVIDE NEW CIRCUITS AS REQUIRED TO MAINTAIN ELECTRICAL POWER OR COMMUNICATIONS SUPPLIES TO FIXTURES, DEVICES, OUTLETS, OR OTHER EXISTING ITEMS TO REMAIN WHICH ARE SUPPLIED BY ITEMS TO BE REMOVED OR RELOCATED.
27. DIVISION 16 DESIGN PROVIDES A NUMBER OF BRANCH CIRCUITS, PHASES, AMPACITY, AND OVERCURRENT PROTECTION DEVICES FOR DESIGN-BASIS EQUIPMENT (PROVIDED BY DIVISION 15 OR OTHER DIVISIONS OF THIS CONTRACT) CONFORMING TO MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS AVAILABLE AT TIME OF DESIGN. IF REQUIREMENTS OF EQUIPMENT ACTUALLY PROVIDED UNDER CONTRACT FOR CONSTRUCTION ARE DIFFERENT, CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED WITHOUT INCREASE IN THE CONTRACT AMOUNT OR TIME SCHEDULE. SUCH CHANGES REQUIRED MAY INCLUDE - BUT SHALL NOT BE LIMITED TO - QUANTITY AND SIZE OF WIRES; QUANTITY AND SIZE OF CONDUITS; AND QUANTITY, TYPE, AND SIZE OF CIRCUIT BREAKERS, FUSE PROTECTION, AND DISCONNECT SWITCHES. DIVISION 16 SYSTEM SHALL COMPLY WITH REQUIREMENTS OF EQUIPMENT PROVIDED BY OTHER DIVISIONS OF THIS CONTRACT EVEN IF DIFFERENT FROM DESIGN-BASIS REQUIREMENTS.
28. CONTRACTOR SHALL PROVIDE ADDITIONAL JUNCTION BOXES, CONDUCTORS, AND OTHER MATERIALS AND LABOR NECESSARY TO CONNECT PARALLEL OR OVERSIZED FEEDER RUNS WHERE SUCH FEEDERS EXCEED CONNECTION CAPACITY OF CIRCUIT BREAKERS, PANELBOARDS, AND OTHER CONNECTION POINTS.
29. RISER DIAGRAMS SHOW ONLY THE GENERAL CONFIGURATION OF SYSTEMS SHOWN. REFER TO THE APPROPRIATE DRAWINGS FOR EXACT DEVICE, QUANTITIES, AND LOCATIONS.
30. EXIT SIGNS SHALL REMAIN ON CONTINUOUSLY AND SHALL NOT BE SWITCHED. ANY LIGHTING FIXTURES WHICH ARE INDICATED WITH EMERGENCY BATTERY INVERTER PACKS SHALL BE PROVIDED WITH AN UNSWITCHED CIRCUIT FROM THE SAME CIRCUIT BREAKER SUPPLYING THAT LIGHTING FIXTURE SO THAT THE BATTERY INVERTER PACK CAN SENSE THE AVAILABILITY OF NORMAL POWER TO THAT FIXTURE. BATTERY PACK SHALL AUTOMATICALLY ILLUMINATE FIXTURE IN THE EVENT OF LOSS OF POWER FROM THAT CIRCUIT BREAKER REGARDLESS OF THE SWITCH POSITION OF ANY MANUAL OR AUTOMATIC SWITCHING CONTROLLING THE LIGHTING FIXTURE.
31. ALL RECEPTACLES IN TOILET ROOMS, OUTSIDE, AND WITHIN 6'-0" OF A SINK OR OTHER SOURCE OF WATER SHALL BE A GROUND FAULT INTERRUPTER (GFI) RECEPTACLE. CONTRACTOR MAY NOT USE GROUND FAULT CIRCUIT BREAKERS AND SHALL NOT FEED THROUGH A GROUND FAULT INTERRUPTER RECEPTACLE TO SERVE OTHER RECEPTACLES.
32. PROVIDE A SINGLE GFI RECEPTACLE OUTLET AT EACH ELECTRIC WATER COOLER (EWC) AND LOCATE BEHIND UNIT. COORDINATE EXACT LOCATION WITH DIVISION 15.
33. ELECTRICAL CONTRACTOR SHALL WORK CLOSELY WITH THE MASONRY CONTRACTOR ON THE INSTALLATION OF ALL ELECTRICAL BOXES, CABINETS, EXTENSION RINGS, ETC. IN MASONRY WALLS. THE BOXES SHALL BE INSTALLED AT THE UNIFORM HEIGHTS CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. PROVIDE 2" DEEP MASONRY EXTENSION RINGS FOR ALL OUTLETS IN MASONRY WALLS TO INSURE PROPER CUTTING AND FITTING. THE FACE OF THE CABINETS, BOXES, EXTENSION RINGS, ETC. SHALL BE PLUMB AND FLUSH WITH THE FACE OF THE FINISH MATERIAL. ANY CABINET, OUTLET BOX, ETC. NOT MEETING THE ABOVE REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.
34. ELECTRICAL CONTRACTOR SHALL SECURELY MOUNT ALL OUTLET BOXES MOUNTED IN DRYWALL. CEILING TO THE METAL STUD SYSTEM. PROVIDE PROPER EXTENSION RINGS SO THAT OUTSIDE EDGE OF RING IS FLUSH WITH FINISH CEILING. ANY OUTLET BOX NOT MEETING THE ABOVE REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.
35. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL OUTLETS, DEVICES, LIGHT FIXTURES, ETC. BUILT IN OR MOUNTED ON CEILINGS. NO OUTLET BOX, DEVICE, LIGHT FIXTURE, ETC. SHALL BE SUPPORTED FROM ANY ACOUSTICAL CEILING TILE OR DRYWALL CEILINGS. PROVIDE METAL SUPPORTS THAT ARE MADE FOR USE WITH CEILING GRID SYSTEMS OR PROVIDE HANGERS FROM STRUCTURE ABOVE. PROVIDE MATERIALS AND LABOR NECESSARY TO COMPLY WITH NEC 300.11.
36. THE CONTRACTOR SHALL INSTALL COVERS ON ALL JUNCTION BOXES LOCATED ABOVE CEILING PRIOR TO ACOUSTICAL CEILING TILE INSTALLATION.
37. JUNCTION BOXES LOCATED ABOVE CEILING SHALL BE INSTALLED FACING DOWN AND SHALL BE ACCESSIBLE AFTER INSTALLATION. COORDINATE WITH OTHER TRADES AND STRUCTURE.
38. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WALL AND FLOOR OUTLET LOCATIONS WITH MILLWORK DRAWINGS, LOCATIONS OF CHALKBOARDS, TACKBOARDS, FURNITURE PLANS, AND ANY OTHER APPLICABLE ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION OF ANY BOXES.
39. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
40. REFER TO ARCHITECTURAL DRAWINGS FOR PHASING OF CONSTRUCTION, TEMPORARY AND PERMANENT FENCES, AND ALL CONCRETE WORK.
41. EXISTING UTILITIES AND OTHER UNDERGROUND OR CONCEALED ITEMS ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL ITEMS NOT SHOWN ARE LIKELY TO BE PRESENT AND LOCATIONS MAY DIFFER FROM THAT SHOWN. CONTRACTOR SHALL EXCAVATE AND CONDUCT DEMOLITION AS NECESSARY TO AVOID DAMAGE TO EXISTING ITEMS, SHALL NOTIFY OWNER AND ENGINEER AT ONCE OF ALL DAMAGE, AND SHALL REPAIR DAMAGE TO ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AND ENGINEER.
42. ALL RACEWAY PROVIDED SHALL BE CONCEALED UNDERGROUND, IN FLOORS, IN CEILINGS, OR IN WALLS UNLESS NOTED OTHERWISE.
43. PROVIDE PERMANENT MARKER LABELING (WHICH IS NOT PAINTED OVER) ON ALL BOXES OR DEVICES PROVIDED WHICH INDICATES PANELBOARD NAME AND CIRCUIT NUMBER IN AN ACCESSIBLE LOCATION. LABELING SHALL BE VISIBLE WITHOUT REMOVING DEVICE FROM BOX BUT SHALL NOT BE VISIBLE UNLESS COVERPLATE OR CEILING TILES ARE REMOVED.
44. PROVIDE MATERIALS AND LABOR NECESSARY TO INDICATE CIRCUIT NUMBER FOR EACH SWITCH OR RECEPTACLE PROVIDED AS FOLLOWS: DEVICE SHALL BE LABELED WITH 1/4 INCH MINIMUM HEIGHT VINYL CLOTH ADHESIVE MARKER (THOMAS AND BETTS E-2 CODE MARKERS, OR APPROVED EQUAL) IN A LOCATION WHICH IS VISIBLE WITH ONLY THE REMOVAL OF THE DEVICE COVERPLATE. LABELING SHALL NOT BE VISIBLE WITH COVERPLATE INSTALLED.





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# MP02649 BUILDING 700 - INTERIOR RENOVATION

University of Florida, 2001  
McCarthy Dr., Gainesville, FL 32611

## CONFORMANCE

TIMOTHY W. SMITH  
PE - 64454

No.	DESCRIPTION	DATE
	FIELD ORDER NO.1	8/18/2017
	CONFORMANCE	11/01/2017

PROJECT NUMBER:	17032
ISSUE DATE:	18 AUGUST 2017
CREATED BY:	JSA
CHECKED BY:	TWS

# E001

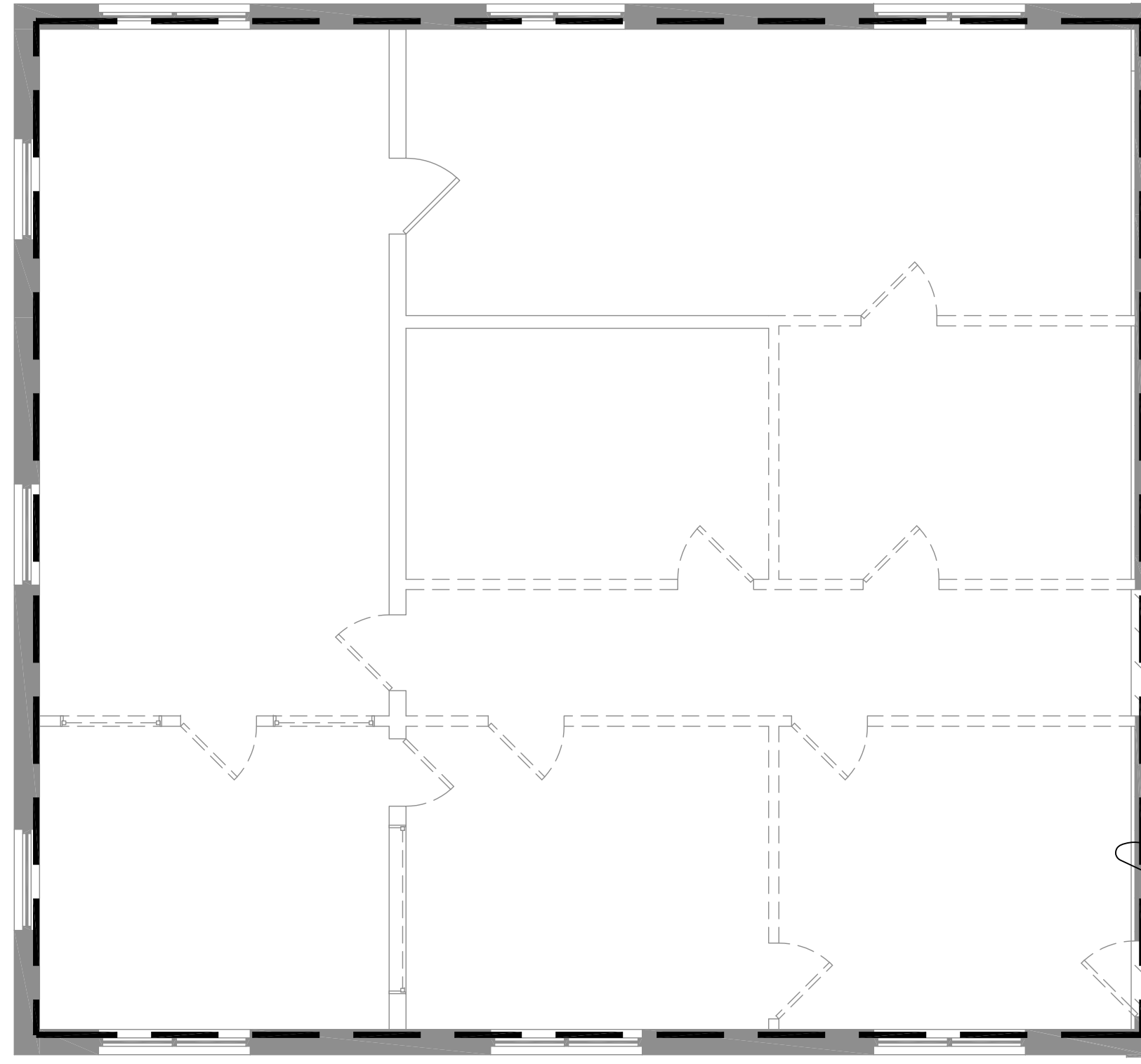
ELECTRICAL  
ABBREVIATIONS,  
LEGEND, & NOTES



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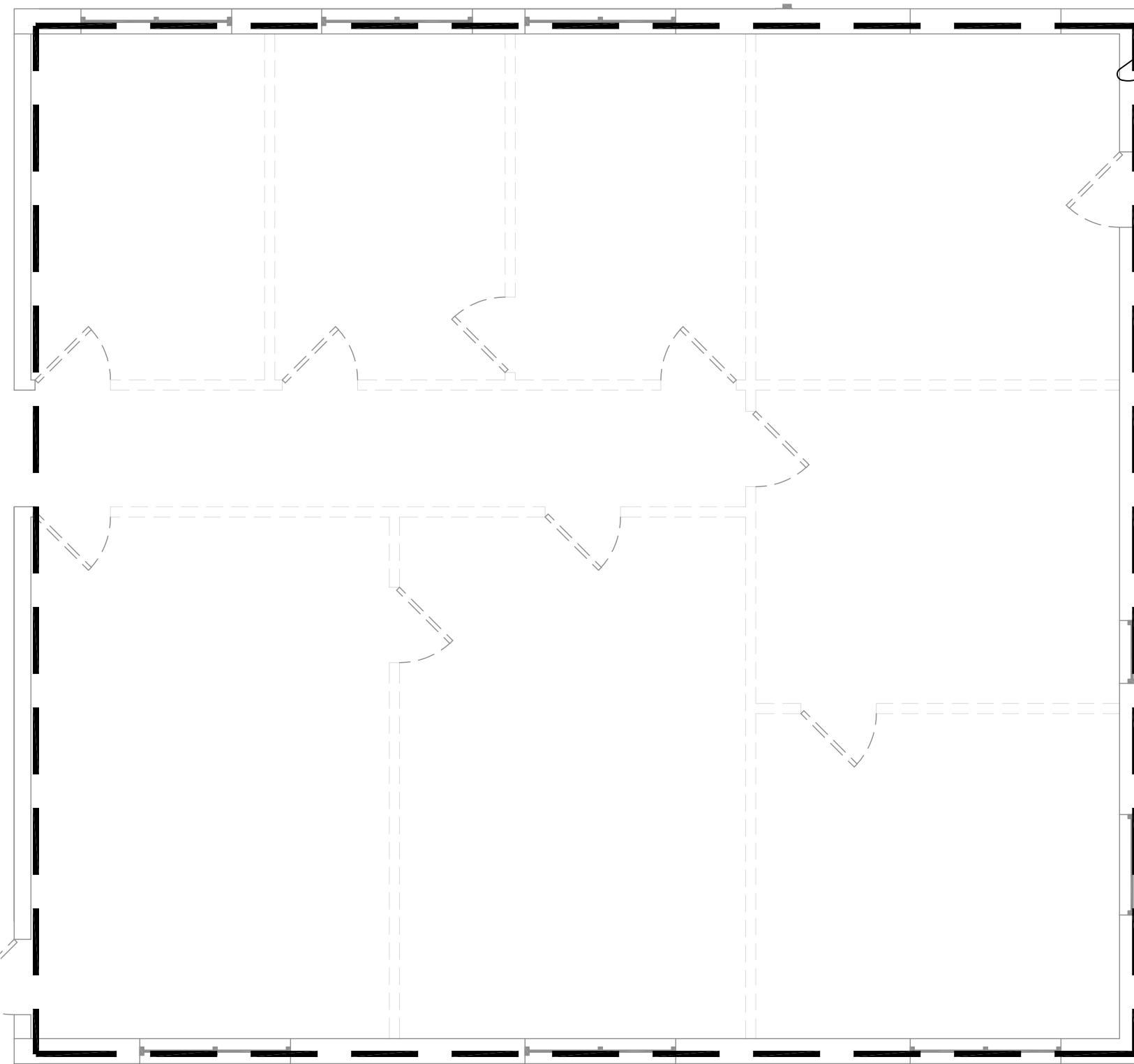
**PROJECT: 17032** **CONFORMANCE DOCUMENT**



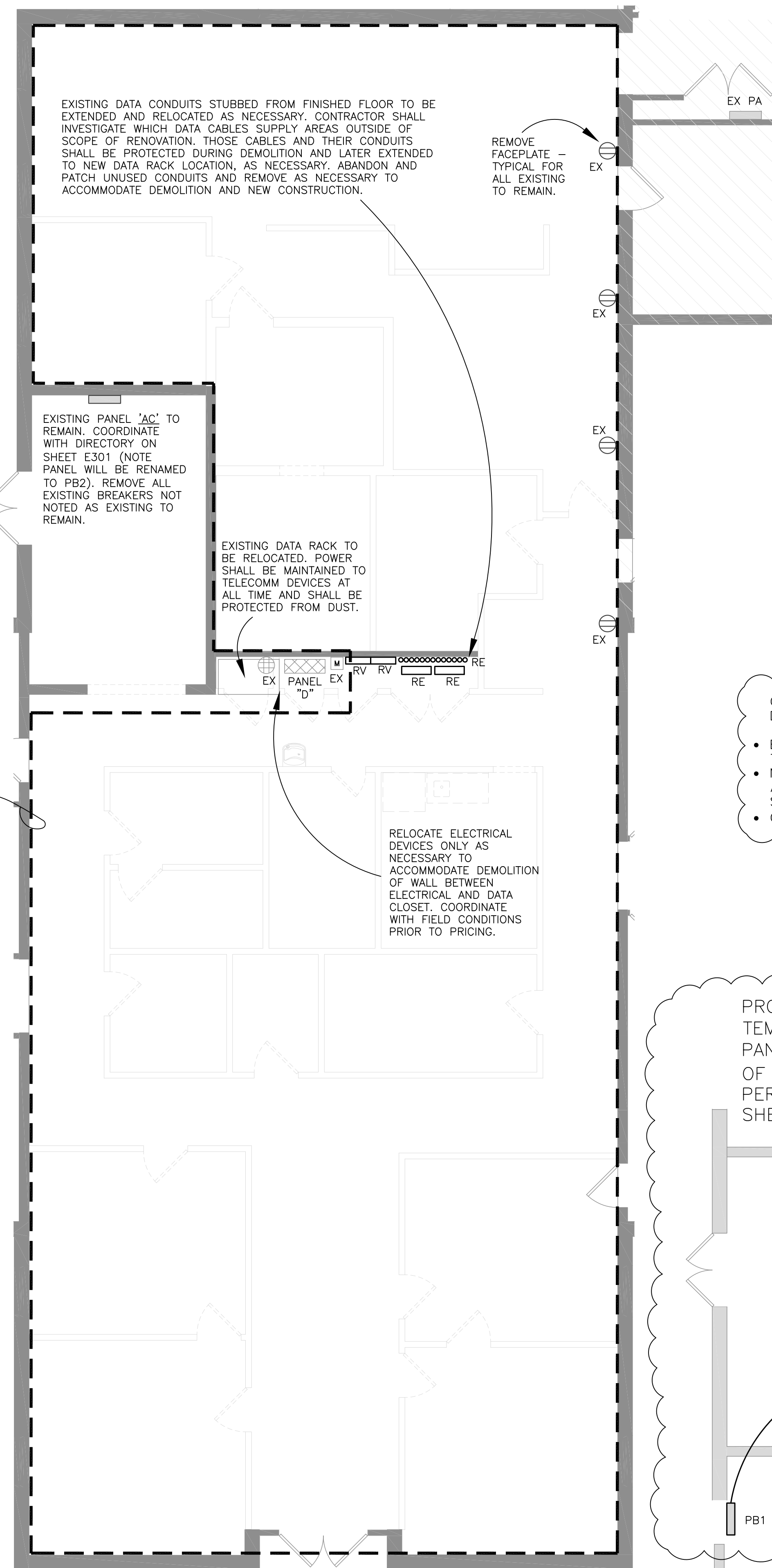


**ELECTRICAL PARTIAL FLOOR PLAN - WEST WING DEMOLITION**  
SCALE: 3/16" = 1'-0"

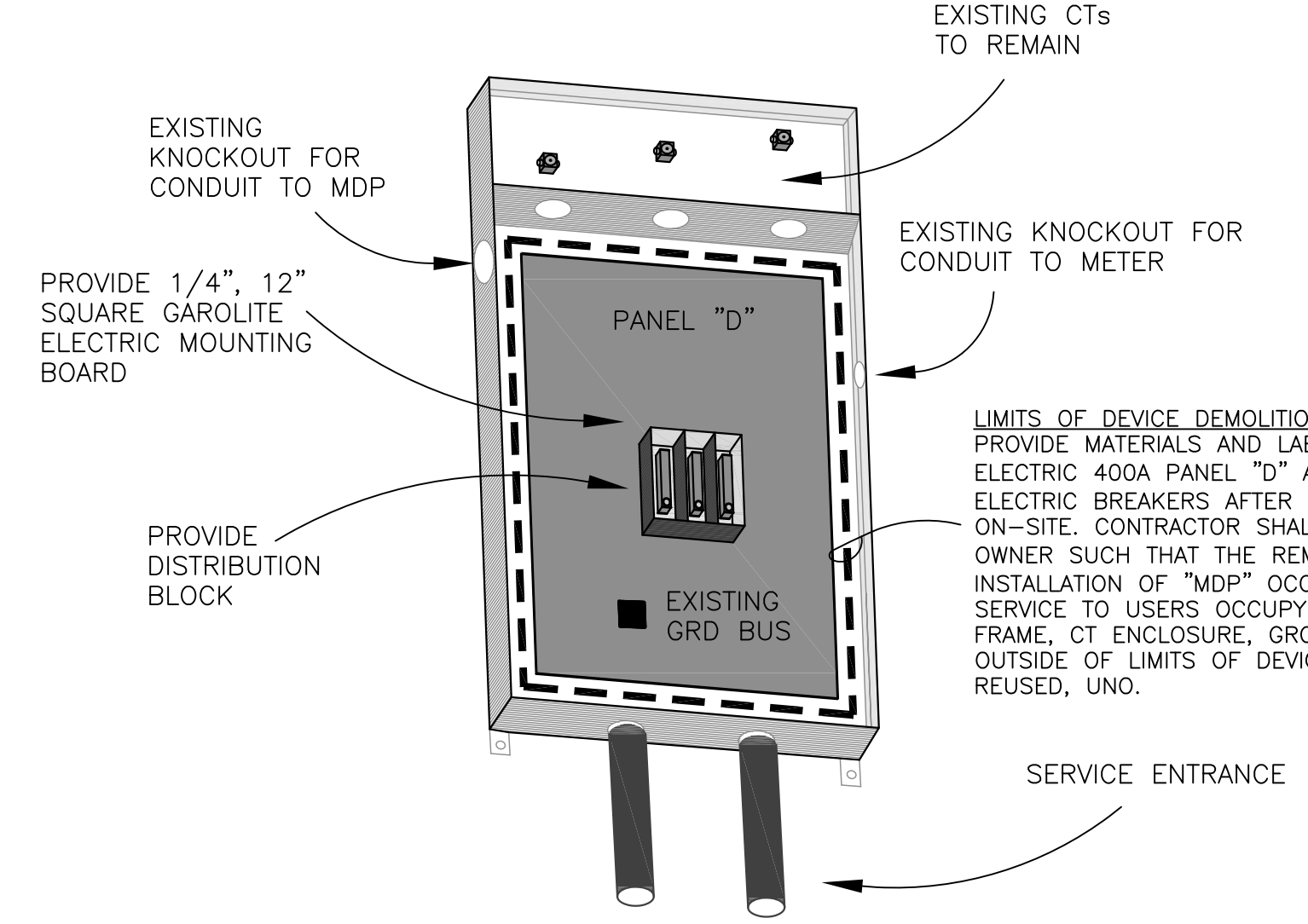
**LIMITS OF ELECTRICAL DEMOLITION**  
PROVIDE MATERIALS AND LABOR NECESSARY TO REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES FROM THIS AREA AS NECESSARY TO ACCOMMODATE DEMOLITION AND NEW CONSTRUCTION, UNO. COORDINATE WITH FIELD CONDITIONS PRIOR TO PRICING. ALL UNUSED CONDUIT AND CONDUCTORS SHALL BE REMOVED BACK TO FIRST JUNCTION BOX SUPPLYING LOADS TO REMAIN OR BACK TO PANEL BOARD.



**ELECTRICAL PARTIAL FLOOR PLAN - EAST WING DEMOLITION**  
SCALE: 3/16" = 1'-0"



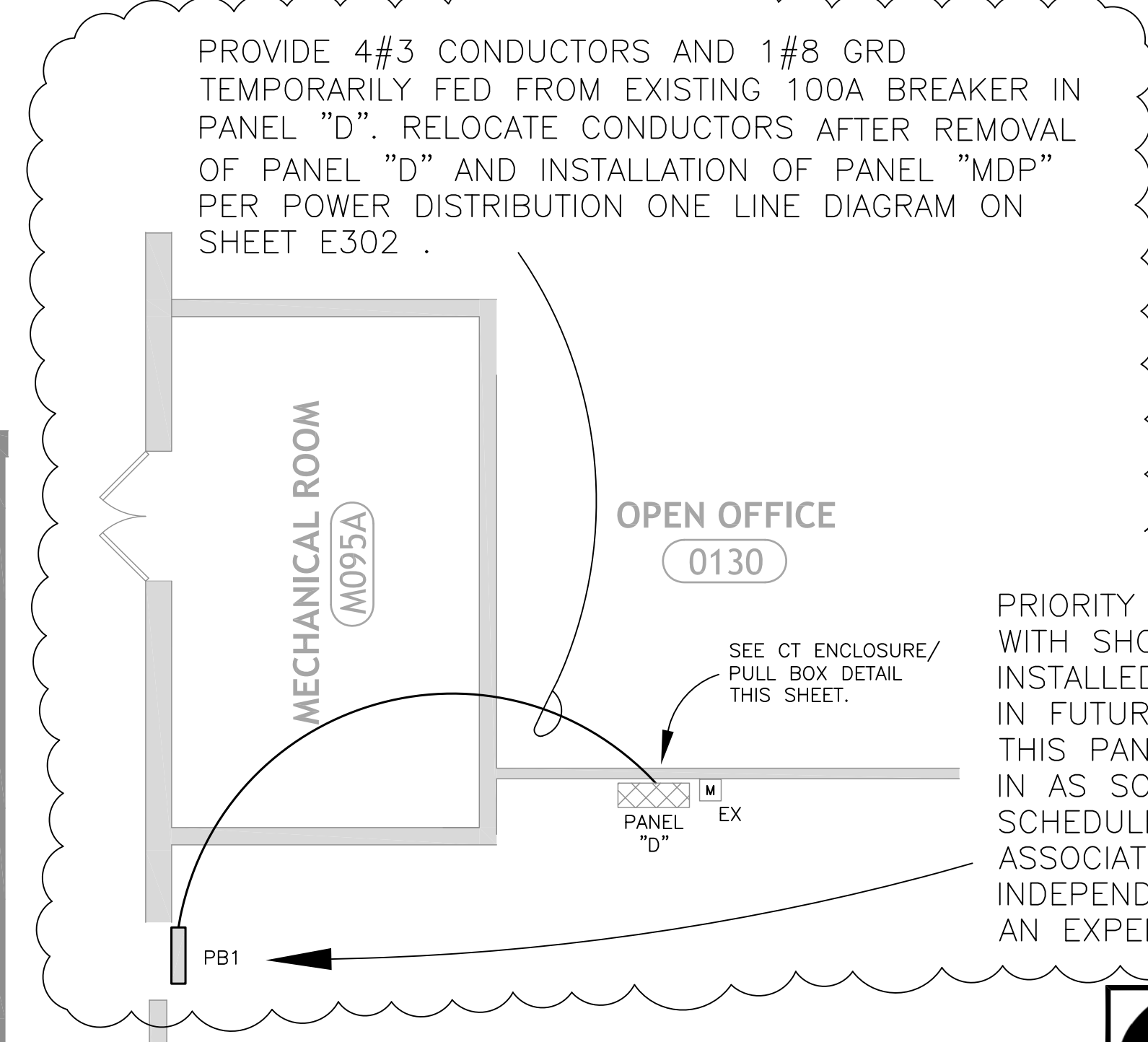
**ELECTRICAL PARTIAL FLOOR PLAN - CENTER DEMOLITION**  
SCALE: 3/16" = 1'-0"



**CT ENCLOSURE/PULL BOX DETAIL**

CHANGES THIS SHEET FROM 100% CONSTRUCTION DOCS:

- EAST & WEST WING SECTIONS OF BUILDING ADDED TO DEMOLITION SCOPE.
- NOTES PERTAINING TO SCHEDULING PRIORITIES ADDED. CONTRACTOR SHALL COORDINATE EXACT SCHEDULING WITH OWNER PRIOR TO PRICING.
- CT ENCLOSURE/PULL BOX DETAIL ADDED.



**PARTIAL ELECTRICAL FLOOR PLAN - RENOVATION PRIORITY**  
SCALE: 3/16" = 1'-0"

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**MP02649 BUILDING 700 - INTERIOR RENOVATION**

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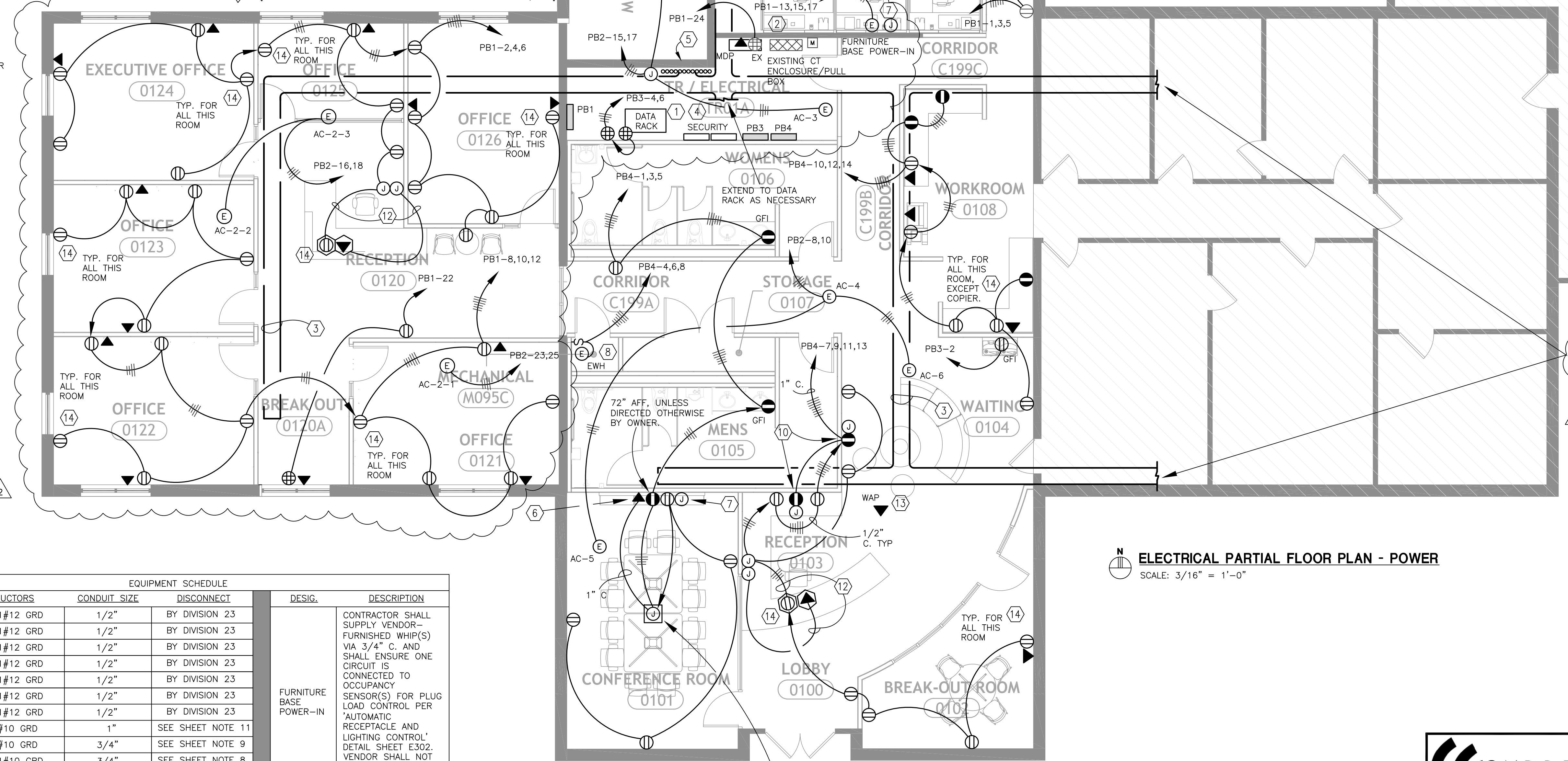
**E101**

ELECTRICAL DEMO FLOOR PLAN, DETAIL & NOTES



**KEY NOTES:**

- 1 EXISTING HALF DATA RACK TO BE RELOCATED - COORDINATE WITH FIELD CONDITIONS PRIOR TO RELOCATING.
- 2 SERVICE ENTRANCE LOCATION. EXISTING 400A 'GENERAL ELECTRIC' DISTRIBUTION PANEL TO BE REMOVED AND EXISTING CT ENCLOSURE TO BE REUSED AS PULL BOX. COORDINATE WITH RENOVATION PRIORITY ON SHEET E101 AND ONE LINE DIAGRAM ON SHEET E302.
- 3 PROVIDE 14" MINIMUM WIDTH CABLE TRAY ABOVE CEILING WITH 1" C BONDED TO TRAY AND EXTENDED TO THE WORK AREA OUTLET BOX. COORDINATE EXACT LOCATION AND LENGTH OF TRAY WITH FIELD CONDITIONS AND UF INFORMATION TECHNOLOGY DEPT PRIOR TO ORDERING MATERIALS. CENTER SUPPORT CABLE TRAYS SHALL NOT BE USED.
- 4 RELOCATE EXISTING SECURITY SYSTEM PANELS TO APPROXIMATELY THIS LOCATION ON WALL. EXTEND CABLES AND RACEWAY AS NECESSARY TO ACCOMMODATE RELOCATION OF DEVICES - COORDINATE WITH OWNER.
- 5 RELOCATE EXISTING DATA CONDUITS STUBBED FROM FINISHED FLOOR TO APPROXIMATELY THIS LOCATION. CONDUITS SHOWN IN THIS AREA ARE NOT INTENDED TO REPRESENT EXACT QUANTITY; CONTRACTOR SHALL COORDINATE EXACT QUANTITY AND LOCATION WITH OTHER DIVISIONS OF THIS CONTRACT, OWNER AND FIELD CONDITIONS PRIOR TO PRICING. PULL EXISTING DATA CABLES AS NECESSARY TO ACCOMMODATE RELOCATION AND PROVIDE MATERIALS AND LABOR NECESSARY TO REPAIR OR REPLACE CABLES OR EQUIPMENT DAMAGED DURING CONSTRUCTION WITH NO CHANGE TO THE CONTRACT AMOUNT OR TIME SCHEDULE.
- 6 COORDINATE EXACT ELEVATION WITH OWNER PRIOR TO ROUGH-IN. CONDUIT SHALL BE EXTENDED FOR DATA OUTLET IN FLOORBOX.
- 7 MOUNT JUNCTION BOX AT 18" AFF WITH 1-1/4" C STUBBED TO ABOVE CEILING. FIELD COORDINATE MINIMUM BEND RADIUS WITH ARCHITECT AND UF-IT PRIOR TO ROUGH-IN. PROVIDE COVERPLATE IF OWNER HAS NOT FURNISHED. CONNECTION TYPE BY SUBSTANTIAL COMPLETION.
- 8 PROVIDE 3-POLE 30A NEMA 1 MANUAL TOGGLE SWITCH. COORDINATE EXACT LOCATION AND ELEVATION WITH DIVISION 22 PRIOR TO ROUGH-IN.
- 9 PROVIDE WEATHERPROOF 3-POLE 60A RATED FUSED DISCONNECT SWITCH LISTED FOR WET LOCATIONS AND OUTDOOR EXPOSURE WITH 22KA RATING AND 50A FUSE. COORDINATE EXACT LOCATION AND ELEVATION WITH DIVISION 23 PRIOR TO ROUGH-IN.
- 10 RECEPTACLE FOR OWNER FURNISHED TV. COORDINATE EXACT ELEVATION WITH OWNER AND TV SPECIFICATIONS PRIOR TO ROUGH-IN. PROVIDE ADJACENT JUNCTION BOX WITH 1" C STUBBED TO ABOVE CEILING. PROVIDE BLANK COVERPLATE FOR JUNCTION BOX IF OWNER HAS NOT FURNISHED CONNECTION TYPE BY SUBSTANTIAL COMPLETION.
- 11 PROVIDE WEATHERPROOF 3-POLE 60A RATED FUSED DISCONNECT SWITCH LISTED FOR WET LOCATIONS AND OUTDOOR EXPOSURE WITH 22KA RATING AND 60A FUSE. COORDINATE EXACT LOCATION AND ELEVATION WITH DIVISION 23 PRIOR TO ROUGH-IN.
- 12 1-1/4" RACEWAY, OR SMALLER (AS LONG AS THE FILL OF THE CONDUIT DOES NOT EXCEED 40%), IN CHASE BETWEEN CASEWORK. PROVIDE SHOP DRAWING WITH RACEWAY TYPE. FOR CONDUIT SUPPLYING DATA CABLES, FIELD COORDINATE MINIMUM BEND RADIUS WITH ARCHITECT AND UF-IT PRIOR TO ROUGH-IN.
- 13 OUTLET IN CEILING FOR WIRELESS ACCESS POINT. CONFIRM EXACT LOCATION WITH OWNER, FIELD CONDITIONS AND OTHER DIVISIONS OF THIS CONTRACT PRIOR TO ROUGH-IN.
- 14 RECEPTACLE SHALL COMPLY WITH AUTOMATIC RECEPTACLE AND LIGHTING CONTROL DETAIL ON SHEET E302.
- 15 CONTRACTOR SHALL NOTE THAT ARCHITECT HAS SPECIFIED CLERESTORY ON WALL AND THEREFORE CONDUIT SHALL NOT RUN VERTICALLY FROM JUNCTION BOX TO ABOVE CEILING, INSTEAD CONDUIT SHALL RUN HORIZONTALLY TOWARDS PERPENDICULAR WALL AND THEN VERTICAL TO ABOVE CEILING. FIELD COORDINATE MINIMUM BEND RADIUS WITH ARCHITECT AND UF-IT PRIOR TO ROUGH-IN.



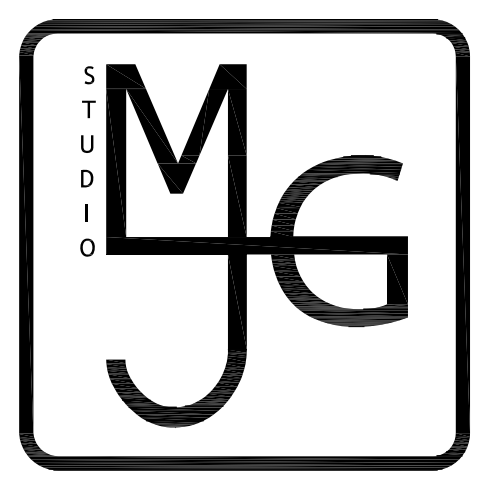
CHANGES THIS SHEET FROM 100% CONSTRUCTION DOCS:

- DELETED FIRE ALARM DEVICES.
- DELETED RECEPTACLES MOUNTED IN MILLWORK IN OFFICE 130.
- ADDED EQUIPMENT CONNECTIONS FOR FURNITURE BASE POWER-INS IN OFFICE 130.
- RECONFIGURED CIRCUITING.
- ADDED PANEL 'PB4'.
- RECONFIGURED CU-A,B SUPPLY SIZE.
- ADDED NOTES TO AUTOMATIC RECEPTACLE AND LIGHTING CONTROL DETAIL.
- POWER AND DATA TO WEST WING SECTION OF BUILDING ADDED TO SCOPE.

EXTEND CABLE TRAY TO APPROXIMATELY THIS AREA FOR FUTURE DATA CABLES (PHASE 3). COORDINATE EXACT TERMINATION WITH OWNER PRIOR TO ROUGH-IN.

**ELECTRICAL PARTIAL FLOOR PLAN - POWER**  
SCALE: 3/16" = 1'-0"

PROVIDE 3-GANG RECESSED CAST IRON FLOORBOX COMPATIBLE WITH POWER, DATA, AND A/V CONNECTIONS. DEPTH OF FLOORBOX SHALL NOT EXCEED 4". PROVIDE ONE DUPLEX RECEPTACLE AND PROVIDE PULLSTRING AT OTHER GANG PASS-THROUGH OPENINGS TERMINATING AT JUNCTION BOX ABOVE CEILING. PROVIDE WIREMOLD RFB SERIES OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY WITH FIELD CONDITIONS TO ENSURE FLOOR IS CAPABLE OF BEING CUT WITHOUT COMPROMISING CONCRETE MOISTURE BARRIER, PRIOR TO ORDERING DEVICE.



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**MP02649 BUILDING 700 - INTERIOR RENOVATION**  
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McCarty Dr., Gainesville, FL 32611

CONFORMANCE

TIMOTHY W. SMITH  
PE - 64454

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1	FIELD ORDER NO. 1	8/18/2017
2	CONFORMANCE	11/01/2017

PROJECT NUMBER: 17032  
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CREATED BY: JSA  
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**CAMPBELL SPELLICY ENGINEERING**  
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**E201**  
ELECTRICAL POWER FLOOR PLAN



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**MP02649 BUILDING 700 - INTERIOR  
RENOVATION**

University of Florida, 2001  
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**E202**  
ELECTRICAL  
LIGHTING FLOOR  
PLAN

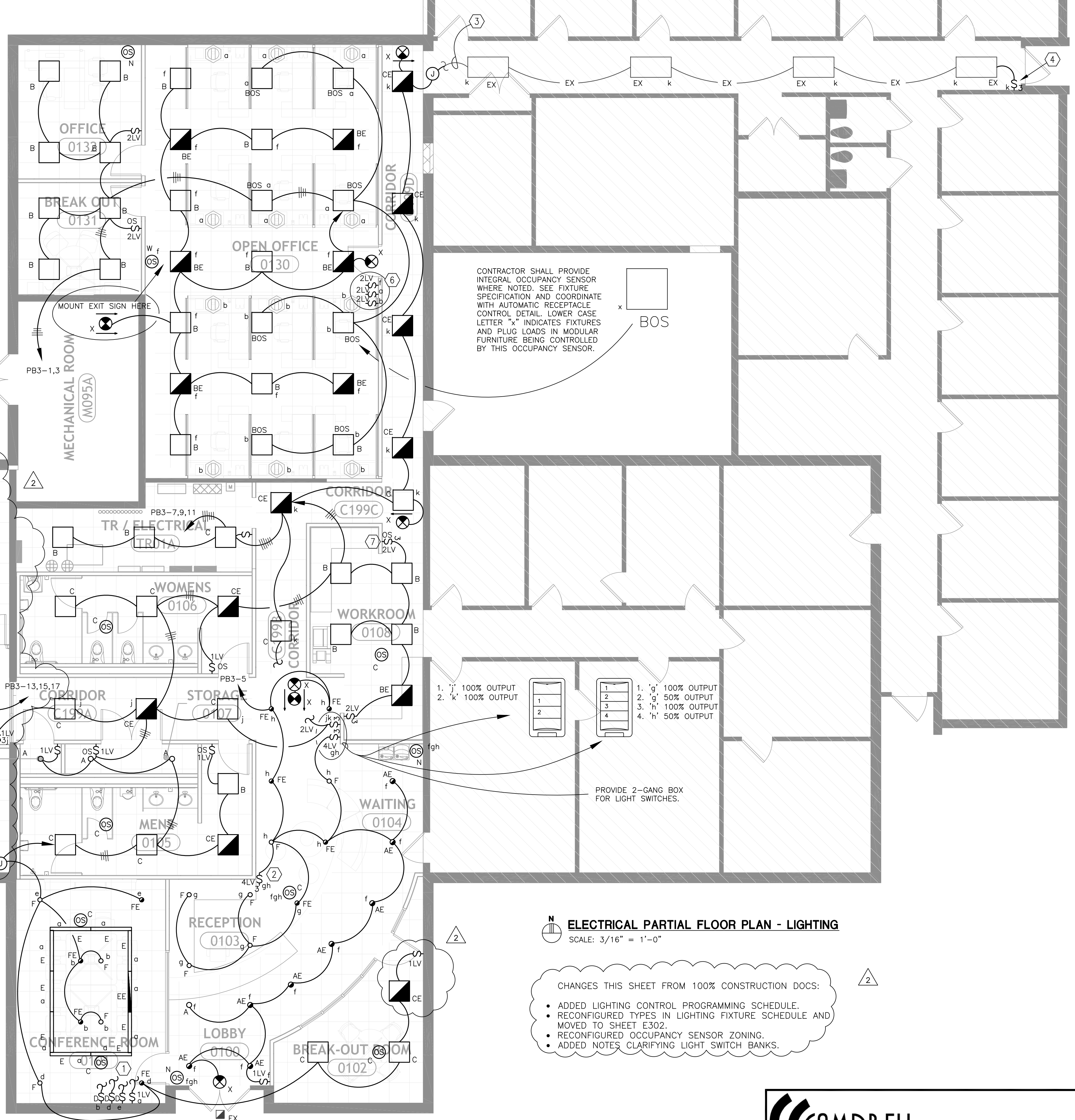
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**LIGHTING CONTROL PROGRAMMING**

PROGRAMMING NOTES	ZONE CONTROLLED & DESIGNATION	
1 100% OUTPUT AUTO-ON	RM. 130 LETTER "i" (1 4 6)	CONF. RM. 101 LETTER "a" (1 6)
2 100% OUTPUT MANUAL-ON/OFF	RM. 130 LETTER "a" (1 4 6)	CONF. RM. 101 LETTER "b, d, e" (2 6 7)
3 50% OUTPUT AUTO-ON	RM. 130 LETTER "b" (1 4 6)	LOBBY/WAITING RM. LETTER "i" (1 6)
4 DIMMING-LVL 50% OUTPUT-ON/OFF	BREAKOUT RM. 131 (2 4 6)	RECEPTION 103 LETTER "g" (1 4 6)
5 DIMMING-LVL 30% OUTPUT-ON/OFF	OFFICE 132 (2 4 6)	WAITING RM. LETTER "h" (1 4 6)
6 100% OUTPUT AUTO-OFF 20 MINUTE TIME DELAY	MENS RESTROOM (1 6)	RM. 124 LETTER "a" (1 4 6)
7 MANUAL DIMMING	WOMENS RESTROOM (1 6)	RM. 124 LETTER "b" (2 4 6)
	STORAGE RM. 107 (1 6)	OFFICE 121 (2 4 6)
	TR/ELECTRICAL ROOM TR01A (2)	OFFICE 122 (2 4 6)
	ALL CORRIDORS (2)	OFFICE 123 (2 4 6)
	WATER HEATER CLOSET (2)	OFFICE 125 (2 4 6)
	WORKROOM 108 (1 4 6)	OFFICE 126 (2 4 6)
	BREAKOUT RM. 102 (2 4 6)	RECEPTION 120 LETTER (1 4 6)



1. 'a' 100% OUTPUT
2. 'a' 50% OUTPUT
3. 'b' 100% OUTPUT
4. 'b' 50% OUTPUT

- KEY NOTES:**
- 1 SWITCHES TO CONTROL DESIGNATED LIGHTING FIXTURES.
  - 2 SWITCHES TO CONTROL DESIGNATED LIGHTING FIXTURES. MOUNT SWITCHES ON WALL AND PROVIDE MATERIALS AND LABOR NECESSARY SUCH THAT FIXTURES CAN BE CONTROLLED TO 100% OUTPUT AND 50% OUTPUT.
  - 3 PROVIDE MATERIALS AND LABOR NECESSARY TO INTERCEPT EXISTING LIGHTING CONDUIT AND CONDUCTORS IN EXISTING CORRIDOR. SUPPLY EXISTING FIXTURES FROM PB3-7. REUSE EXISTING CONDUITS AND CONDUCTORS AS PRACTICAL SUCH THAT EXISTING AND NEW FIXTURES IN CORRIDORS ARE CONTROLLED BY SAME SWITCHES AS NOTED ON DRAWINGS.
  - 4 COORDINATE THE REUSE OF EXISTING LIGHT SWITCH AT APPROXIMATELY THIS LOCATION WITH FIELD CONDITIONS PRIOR TO PRICING. CONTRACTOR SHALL PROVIDE ADDITIONAL MATERIALS NECESSARY IF EXISTING LIGHT SWITCH IS DEEMED NOT PRACTICAL FOR REUSE.
  - 5 SEE LIGHTING CONTROL PROGRAMMING.
  - 6 PROVIDE 3-GANG BOX FOR LIGHT SWITCHES. LIGHT SWITCH(ES) WITH TWO BUTTONS CONTROL FIXTURES AT 100% OUTPUT AND 50% OUTPUT. CONTRACTOR SHALL NOTE THAT ARCHITECT HAS SPECIFIED CLERESTORY ON WALL AND THEREFORE CONDUIT SHALL NOT RUN VERTICALLY FROM SWITCH BANK TO ABOVE CEILING, INSTEAD CONDUIT SHALL RUN HORIZONTALLY TOWARDS PERPENDICULAR WALL AND THEN VERTICAL TO ABOVE CEILING - COORDINATE WITH ELEVATION DETAILS ON DRAWING A510 PRIOR TO ROUGH-IN.
  - 7 PROVIDE 2-GANG BOX FOR LIGHT SWITCHES. LIGHT SWITCH(ES) WITH TWO BUTTONS CONTROL FIXTURES AT 100% OUTPUT AND 50% OUTPUT. PROVIDE 1/2" C STUBBED TO ABOVE CEILING FROM EMPTY GANG OPENING AND PROVIDE BLANK COVERPLATE (FOR PHASE 3 USE).
  - 8 'SOLATUBE' DAYLIGHT TUBE SPECIFIED BY ARCHITECT. COORDINATE WITH ARCHITECTURAL DRAWINGS TO ENSURE ELECTRICAL DEVICES AND MATERIALS ARE NOT INSTALLED IN PATH OF DAYLIGHT TUBE.
  - 9 LIGHT SWITCHES WITH TWO BUTTONS CONTROL LIGHTING FIXTURES AT 100% OUTPUT AND 50% OUTPUT.

**ELECTRICAL PARTIAL FLOOR PLAN - LIGHTING**  
SCALE: 3/16" = 1'-0"

CHANGES THIS SHEET FROM 100% CONSTRUCTION DOCS:

- ADDED LIGHTING CONTROL PROGRAMMING SCHEDULE.
- RECONFIGURED TYPES IN LIGHTING FIXTURE SCHEDULE AND MOVED TO SHEET E302.
- RECONFIGURED OCCUPANCY SENSOR ZONING.
- ADDED NOTES CLARIFYING LIGHT SWITCH BANKS.



PNL - PB1		100A MLO			SCR : 22 KAIC			PPD BLDG 700		
120/208V-3PH 4W	CKT BKR	PHASE LOAD AMP			CKT BKR	SURFACE MNTD				
CKT	LOAD	P/TRIP	X	A	B	C	X	P/TRIP	LOAD	CKT
1	CORR. 199D RCPT	1/20	R	6.0	9.0		R	1/20	RM. 126 RCPT	2
3	RM. 131 RCPT	1/20	R		7.5	7.5	R	1/20	RM. 120 & 125	4
5	RM. 132 RCPT	1/20	R			7.5	7.5	R	RM. 124 RCPT	6
7	RM. 130 RCPT	1/20	R	10.5	9.0		R	1/20	RM. 121 RCPT	8
9	RM. 130 RCPT	1/20	R		10.5	7.5	R	1/20	RM. 122 RCPT	10
11	RM. 130 RCPT	1/20	R			4.5	7.5	R	RM. 123 RCPT	12
13	RM. 130 RCPT	1/20	R	10.5	0.0			1/20	SPARE	14
15	RM. 130 RCPT	1/20	R		4.5	0.0		1/20	SPARE	16
17	RM. 130 RCPT	1/20	R			10.5	0.0	1/20	SPARE	18
19	SPARE	1/20		0.0	0.0			1/20	SPARE	20
21	SPARE	1/20			0.0	4.5	R	1/20	AREA 120A RCPT	22
23	SPARE	1/20				0.0	4.0	R	EX. DATA RACK RCPT	24
25	SPACE	-		0.0	0.0			-	SPACE	26
27	SPACE	-			0.0	0.0		-	SPACE	28
29	SPACE	-				0.0	0.0	-	SPACE	30

NOTES: 45.0 42.0 42.0

AMP CONNECTED: 43.0  
DEMAND: 35.3

EX. PNL - PB2		200A MCB			SCR : 22 KAIC			PPD BLDG 700		
120/208V-3PH 4W	CKT BKR	PHASE LOAD AMP			CKT BKR	SURFACE MNTD				
CKT	LOAD	P/TRIP	X	A	B	C	X	P/TRIP	LOAD	CKT
1	HVAC UNIT CU-A [N1]	3/60	M	40.0	30.5		M	3/50	HVAC UNIT CU-B [N1]	2
3			M		40.0	30.5	M			4
5			M			40.0	30.5	M		6
7	EX. BOILER INDUCER	1/20	M	5.0*	10.0		M	2/15	AC-4, AC-5, AC-6 [N1]	8
9	EX. HHW CIRC.PUMP	1/20	M		5.0*	10.0	M			10
11	ERV-1	1/20	M			3.5	0.0	-	SPACE	12
13	EX. HVAC CONTROLS	1/20	M	1.0*	5.0*		M	1/20	EX. BOILER INDUCER	14
15	AC-1, AC-2, AC-3 [N1]	2/15	M		10.0	10.0	M	2/15	AC-2-2, AC-2-3 [N1]	16
17			M			10.0	10.0	M		18
19	EX. HEAT PUMP	2/40	M	19.0*	0.0			-	SPACE	20
21			M		19.0*	0.0		-	SPACE	22
23			M			5.0	0.0	-	SPACE	24
25	AC-2-1 [N1]	2/15	M	5.0	0.0			-	SPACE	26
27	SPACE	-			0.0	0.0		-	SPACE	28
29	SPACE	-				0.0	0.0	-	SPACE	30

NOTES: 116.0 125.0 99.0

\* AS CALCULATED USING PANEL DIRECTORIES AND AS-BUILT DRAWINGS  
[N1] PROVIDE NEW BREAKER  
\*EX IN LOAD DESCRIPTION MEANS EXISTING BREAKER TO REMAIN

AMP CONNECTED: 113  
DEMAND: 113

PNL - PB3		100A MLO			SCR : 22 KAIC			PPD BLDG 700			
120/208V-3PH 4W	CKT BKR	PHASE LOAD AMP			CKT BKR	SURFACE MNTD					
CKT	LOAD	P/TRIP	X	A	B	C	X	P/TRIP	LOAD	CKT	
1	RM. 130, 131, 132 LTG	1/20	L	3.5	3.8		R	1/20	WATER COOLER	2	
3	GENERAL LTG RM 130	1/20	L			3.0	5.0	T	1/20	ELEC. TR01A RCPT	4
5	AREA 100, 103, 104 LTG	1/20	L					T	1/20	ELEC. TR01A RCPT	6
7	TR01A/HALLWAY LTG	1/20	L	6.3	0.0			1/20	SPARE	8	
9	RM. 108/RESTROOM LTG	1/20	L			5.1	0.0	1/20	SPARE	10	
11	RM. 121 CONF. 101 LTG	1/20	L				4.3	0.0	1/20	SPARE	12
13	AREA 120, 120A LTG	1/20	L	1.7	0.0			1/20	SPARE	14	
15	RM. 122, 123, 126 LTG	1/20	L			2.4	0.0	1/20	SPARE	16	
17	RM. 124, 125 LTG	1/20	L				1.0	0.0	-	SPACE	18
19	EX. LTG [N1]	1/20	L	7.0	0.0			-	SPACE	20	
21	EX. LTG [N1]	1/20	L			7.0	0.0	-	SPACE	22	
23	EX. LTG [N1]	1/20	L				7.0	0.0	-	SPACE	24
25	EX. LTG [N1]	1/20	L	7.0	0.0			-	SPACE	26	
27	EX. LTG [N1]	1/20	L			7.0	0.0	-	SPACE	28	
29	EX. LTG [N1]	1/20	L				7.0	0.0	-	SPACE	30

NOTES: 30.0 30.0 29.0

[N1] PROVIDE NEW BREAKER AND SUPPLY ANY EXISTING LIGHTING  
LOADS FROM OUTSIDE AREA OF RENOVATION, AS NECESSARY.

AMP CONNECTED: 29.7  
DEMAND: 24.9

PNL - PB4		100A MLO			SCR : 22 KAIC			PPD BLDG 700		
120/208V-3PH 4W	CKT BKR	PHASE LOAD AMP			CKT BKR	SURFACE MNTD				
CKT	LOAD	P/TRIP	X	A	B	C	X	P/TRIP	LOAD	CKT
1	RSTRMS RCPT	1/20	R	4.5	0.0		R	1/20	SPARE - PHASE 3	2
3	CONF RM. 101	1/20	R		6.0	21.0	H			4
5	CONF RM. 101	1/20	H			6.0	21.0	H	EWH	6
7	RM. 103, 104 TV	1/20	R	6.0	21.0			H		8
9	RM. 103 RCPT	1/20	R		3.0	6.0	R	1/20	RM. 108 RCPT	10
11	RM. 103 RCPT	1/20	R			6.0	12.0	R	COPIER RM. 108	12
13	RM. 102 RCPT	1/20	R	6.0	6.0			R	RM. 108 RCPT	14
15	SPACE	-			0.0	0.0		1/20	SPARE - PHASE 3	16
17	SPACE	-				0.0	0.0	1/20	SPARE - PHASE 3	18
19	SPACE	-		0.0	0.0			1/20	SPARE - PHASE 3	20
21	SPACE	-			0.0	0.0		1/20	SPARE - PHASE 3	22
23	SPACE	-				0.0	0.0	1/20	SPARE - PHASE 3	24
25	SPACE	-		0.0	0.0			1/20	SPARE - PHASE 3	26
27	SPACE	-			0.0	0.0		1/20	SPARE - PHASE 3	28
29	SPACE	-				0.0	0.0	1/20	SPARE - PHASE 3	30

NOTES: 44.0 36.0 45.0

AMP CONNECTED: 42  
DEMAND: 30

MDP		*600A MCB			SCR : 22 KAIC			PPD BLDG 700		
120/208V-3PH 4W	CKT BKR	PHASE LOAD AMP			CKT BKR	SURFACE MNTD				
CKT	LOAD	P/TRIP	X	A	B	C	X	P/TRIP	LOAD	CKT
1		G		45.0	44.0		G			2
3	PB1	3/100	G		42.0	36.0	G	3/100	PB4	4
5			G			42.0	45.0	G		6
7			G	116	98			G		8
9	PB2	3/200	G		125	98	G	3/200	MA	10
11			G			99	98	G		12
13			G	30.0	0.0					14
15	PB3	3/100	G		30.0	0.0		3/30	TVSS	16
17			G			29.0	0.0			18
19	SPACE	-		0.0	0.0			-	SPACE	20
21	SPACE	-			0.0	0.0		-	SPACE	22
23	SPACE	-				0.0	0.0	-	SPACE	24
25	SPACE	-		0.0	0.0			-	SPACE	26
27	SPACE	-			0.0	0.0		-	SPACE	28
29	SPACE	-				0.0	0.0	-	SPACE	30

NOTES: 333.0 331.0 313.0

\* MICROLOGIC MCB SHALL BE SET TO 400 TRIP

AMP CONNECTED: 326  
DEMAND: 347



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MP02649 BUILDING 700 - INTERIOR  
RENOVATION

University of Florida, 2001  
McCarty Dr., Gainesville, FL 32611

CONFORMANCE

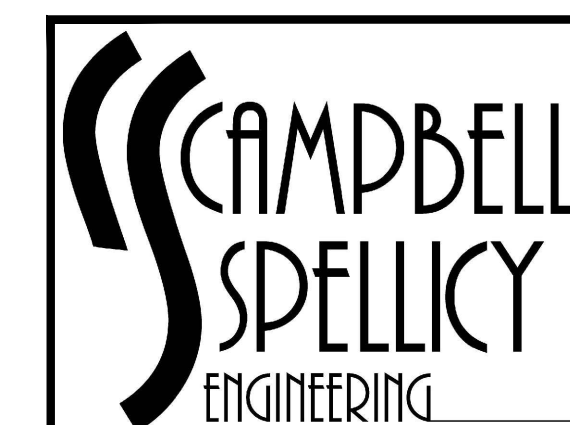
TIMOTHY W. SMITH  
PE - 64454

No.	DESCRIPTION	DATE
1	FIELD ORDER NO.1	8/18/2017
2	CONFORMANCE	11/01/2017

PROJECT NUMBER: 17032  
ISSUE DATE: 18 AUGUST 2017  
CREATED BY: JSA  
CHECKED BY: TWS

E301

ELECTRICAL PANEL  
SCHEDULES



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Gainesville, Florida 32606  
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Certificate of Authorization: 00008813

PROJECT: 17032

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**MP02649 BUILDING 700 - INTERIOR RENOVATION**  
University of Florida, 2001  
McCarthy Dr., Gainesville, FL 32611

CONFORMANCE

TIMOTHY W. SMITH  
PE - 64454

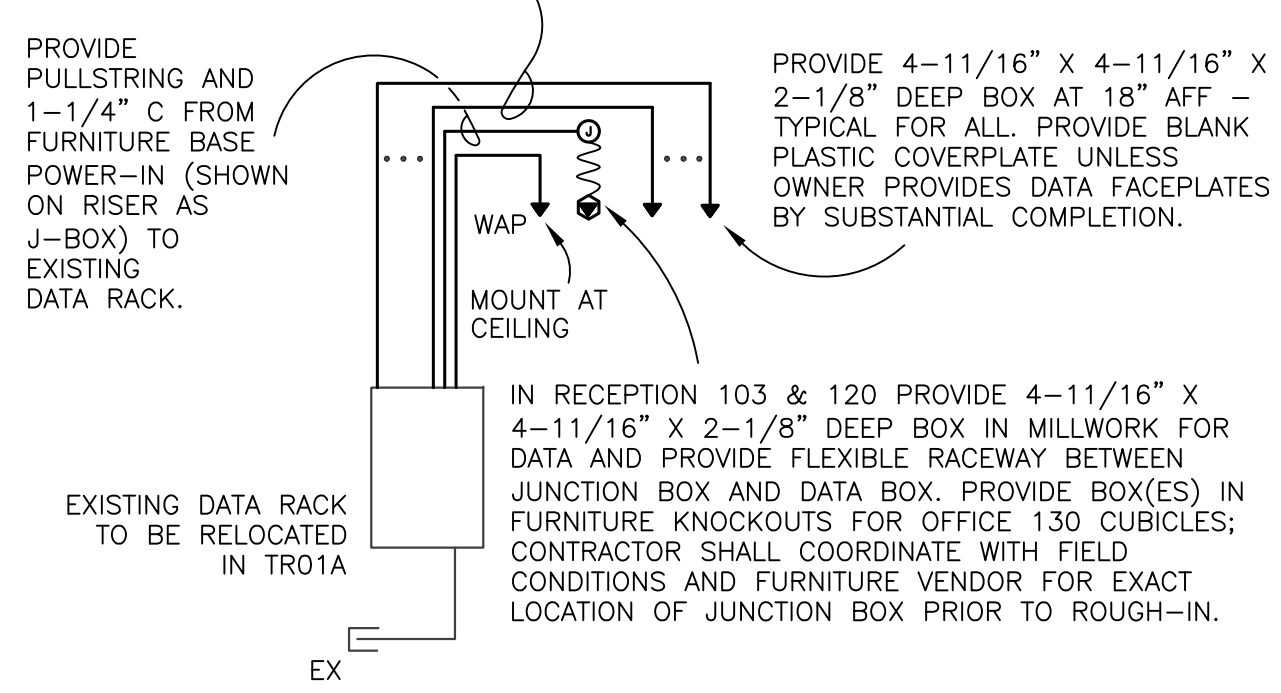
No.	DESCRIPTION	DATE
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**E302**  
ELECTRICAL RISERS AND DETAILS

LIGHTING FIXTURE SCHEDULE	
TYPE	DESCRIPTION
A	6" RECESSED ROUND LED DOWN LIGHT WITH AT LEAST 18 GAUGE GALVANIZED STEEL HOUSING, SELF FLANGED TRIM WITH CLEAR LOW IRIDESCENT REFLECTOR (OR AS SELECTED BY ARCHITECT), 1,750 MINIMUM OUTPUT LUMENS, 4000K CCT, MINIMUM 80 CRI, NO LESS THAN 50° BEAM SPREAD, 120V OR UNIVERSAL VOLTAGE, NON-DIMMING DRIVER AND INTEGRAL EMERGENCY BATTERY PACKS AS INDICATED ON DRAWINGS.
AE	INTENSE LIGHTING IML613409 SERIES, CONTECH RL38SA40KC SERIES, PRESCOLITE MD6LED (WITH BETWEEN .6 AND .3 LUMEN FACTOR) OR FOR MANUFACTURERS NOT LISTED, COMPLY WITH 'REQUEST FOR SUBSTITUTION' SECTION IN ELECTRICAL SPECIFICATIONS BOOK; ONLY PROPOSED FIXTURES SUBMITTED (14) BUSINESS DAYS PRIOR TO PRICING WILL BE REVIEWED.
B	2'X2' RECESSED LED TROFFER FIXTURE WITH DIE FORMED 22-GAUGE COLD ROLLED STEEL, FROSTED ACRYLIC SHIELDING, MINIMUM 2,000-3,000 OUTPUT LUMENS, 4000K CCT, NON-GLARE FINISH WITH WHITE COLOR OR AS SELECTED BY ARCHITECT, MOUNTING TYPE AS NECESSARY TO ACCOMMODATE CEILING TYPE SPECIFIED, 120V OR UNIVERSAL VOLTAGE WITH 0-10V DIMMING DRIVER.
BE	H.E. WILLIAMS LT-22-L28/840-AF SERIES, PHILLIPS-DAYBRITE FLUXGRID SERIES, COLUMBIA LIGHTING LSR22-40-ED-U SERIES OR FOR MANUFACTURERS NOT LISTED, COMPLY WITH 'REQUEST FOR SUBSTITUTION' SECTION IN ELECTRICAL SPECIFICATIONS BOOK; ONLY PROPOSED FIXTURES SUBMITTED (14) BUSINESS DAYS PRIOR TO PRICING WILL BE REVIEWED.
CE	SHALL BE THE SAME AS TYPE B, EXCEPT WITH INTEGRAL EMERGENCY BACKUP DRIVER.
BOS	SHALL BE THE SAME AS TYPE B, EXCEPT WITH INTEGRAL OCCUPANCY SENSOR. ADD H.E. WILLIAMS OCC OPTION, PHILLIPS DAYOC SENSOR, OR COLUMBIA OW SENSOR AS APPLICABLE.
C	SHALL BE THE SAME AS TYPE B, EXCEPT WITH 3,500-4,200 LUMEN OUTPUT INSTEAD; DIMMING DRIVER NOT REQUIRED AND PROVIDE INTEGRAL EMERGENCY BACKUP DRIVER WHERE INDICATED ON DRAWINGS.
CE	SHALL BE THE SAME AS TYPE B, EXCEPT WITH 3,500-4,200 LUMEN OUTPUT INSTEAD; DIMMING DRIVER NOT REQUIRED AND PROVIDE INTEGRAL EMERGENCY BACKUP DRIVER WHERE INDICATED ON DRAWINGS.
CEOS	SHALL BE THE SAME AS TYPE C, EXCEPT WITH INTEGRAL OCCUPANCY/DAYLIGHT SENSOR. PROVIDE INTEGRAL EMERGENCY BACKUP DRIVER WHERE INDICATED ON DRAWINGS. ADD H.E. WILLIAMS OCC OPTION, PHILLIPS DAYOC SENSOR, OR COLUMBIA ODW SENSOR AS APPLICABLE.
EE	4' LONG STAND-ALONE LINEAR RECESSED LED FIXTURE, MOUNTING OPTION AS NECESSARY TO ACCOMMODATE CEILING TYPE SPECIFIED, 1,500-1,800 LUMEN OUTPUT PER 4', WITH 4000K CCT, DIFFUSER STYLE AND COLOR AS SELECTED BY ARCHITECT, UNIVERSAL VOLTAGE, NON-DIMMING DRIVER WITH INTEGRAL EMERGENCY BACKUP AS INDICATED ON DRAWINGS.
FE	PHILIPS TRUGROOVE 39S1LA SERIES, FINELITE HP-4R-4'-S-840-F SERIES, METALUMEN CALEDONIA RML1L40K SERIES OR FOR MANUFACTURERS NOT LISTED, COMPLY WITH 'REQUEST FOR SUBSTITUTION' SECTION IN ELECTRICAL SPECIFICATIONS BOOK; ONLY PROPOSED FIXTURES SUBMITTED (14) BUSINESS DAYS PRIOR TO PRICING WILL BE REVIEWED.
FE	SHALL BE THE SAME AS TYPE A, EXCEPT WITH 0-10V DIMMING DRIVER AND 1100 OUTPUT LUMEN INSTEAD OF 2,500.
X	WALL OR CEILING MOUNTED LED EXIT SIGN WITH DIE-CAST ALUMINUM HOUSING, A BLACK FINISH, SIGN SHALL HAVE 6" HIGH RED LETTERS ON A BRUSHED ALUMINUM FACEPLATE, PROVIDE SINGLE OR DOUBLE FACE SIGN WITH DIRECTIONAL ARROWS AS INDICATED ON THE DRAWINGS, SOLID STATE AND BATTERY BACKUP. BEGHELLI, CHLORIDE, LEGION LIGHTING OR FOR MANUFACTURERS NOT LISTED, SUBMIT PROPOSED FIXTURES TO THE ENGINEER (14) BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW.

PROVIDE PULLSTRING AND 1" C FROM OUTLETS TO EXISTING DATA RACK. CONDUITS SHALL ONLY BE ROUTED IN NORTH, SOUTH, EAST AND WEST DIRECTIONS; CONDUITS SHALL NOT BE ROUTED DIAGONALLY THROUGH CEILING SPACES. CABLE TRAY MAY BE UTILIZED INSTEAD OF CONDUIT, IF PRACTICAL, ONLY IN CONCEALED CEILING SPACES. COORDINATE EXACT REQUIREMENTS, ELEVATIONS, AND LOCATIONS OF ALL ITEMS (INCLUDING POWER RECEPTACLES) IN TRO1A ROOM WITH OWNER AND FIELD CONDITIONS PRIOR TO ROUGH-IN.



**TELECOMMUNICATIONS PARTIAL RISER DIAGRAM**  
NOT TO SCALE

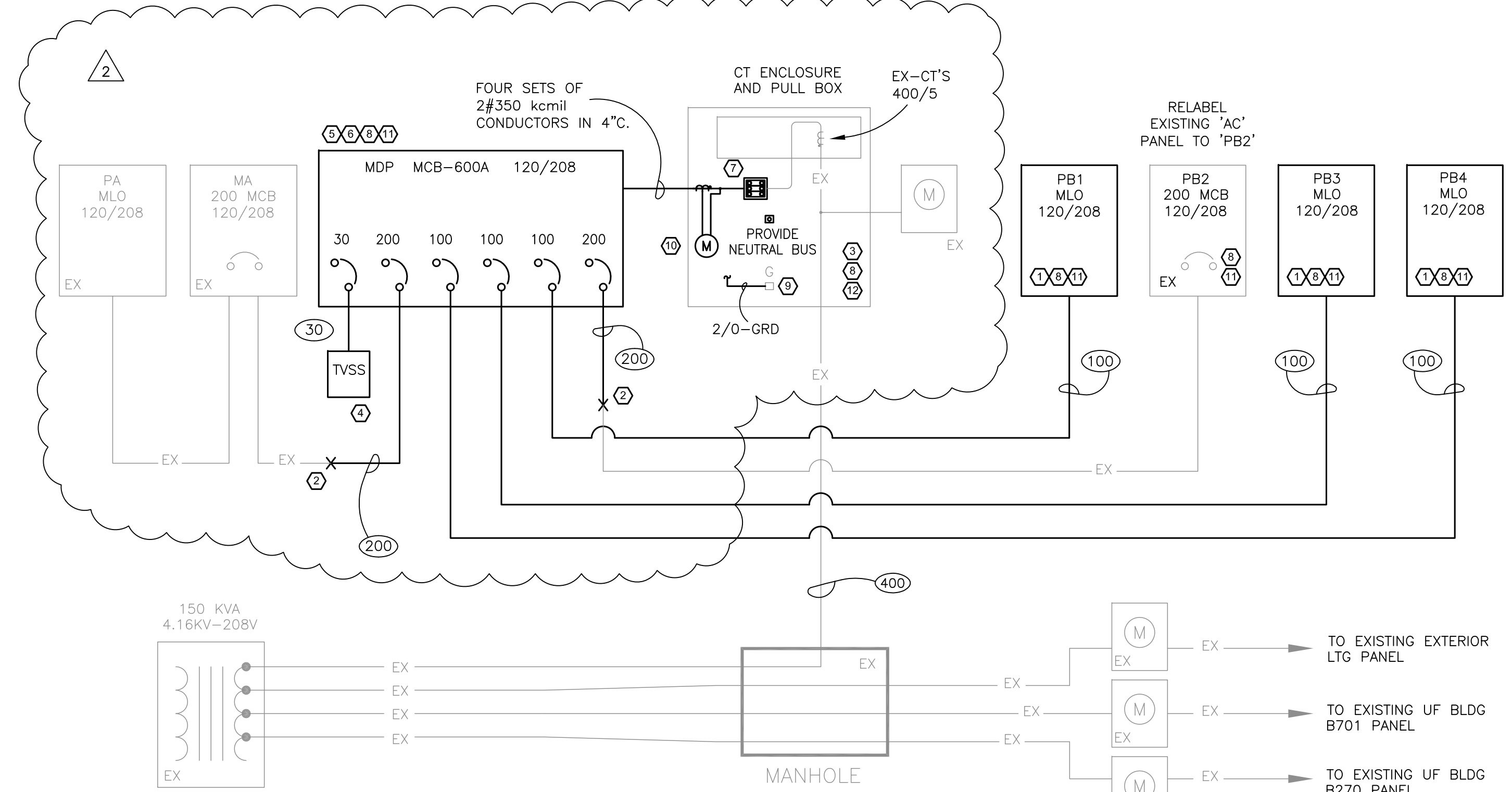
LOAD DESCRIPTION	DISTRIBUTION PNL MDP				
	A	B	C	V	KVA
† METERED PEAK DEMAND				120	50.6
‡ EXISTING LOAD					
‡ LOAD BEING REMOVED (-)	109	116	120	120	41.4
LOAD BEING ADDED (+)	286	288	275	120	101.9
RESULTANT LOAD	317.5	312.5	295.5	120	111.1
CALCULATED CONNECTED LOAD (AMPS)	308.5				111.1
ADDITIONAL PER NEC (AMPS) - 25%	386				150
MDP BREAKER (AMPS)	400				

† FROM METERING DATA  
‡ CALCULATED USING AS-BUILT DRAWINGS AND PANEL DIRECTORIES  
SINCE SERVICE TO MAIN BREAKER IS RATED FOR 400 AMP, METER AND UPGRADE SERVICE WHEN METERED DATA EXCEEDS 400 AMP.

**LOAD SUMMARY TABLE**

**FEEDER SCHEDULE**

- 30 4#10, 1#10GRD. 3/4".
- 100 4#3, 1#8GRD. 1 1/4".
- 200 4#3/0, 1#6GRD. 2 1/2".
- 400 TWO PARALLEL SETS OF 4#4/0 CONDUCTORS IN 3".



**POWER DISTRIBUTION ONE LINE DIAGRAM**

**NOTES:**

- 1 PROVIDE NEW PANELS IN NEW LOCATION, BOND TO BUILDING STEEL, COORDINATE WITH SHEET E201.
- 2 PROVIDE MATERIALS AND LABOR TO SPLICE AND EXTEND CONDUCTORS.
- 3 COORDINATE WITH CT ENCLOSURE/PULL BOX DETAIL SHEET E101.
- 4 PROVIDE SURGELOGIC 100KA TYPE 2 TVSS, OR APPROVED EQUAL, MAY BE INSTALLED WHERE PANEL OR DIRECTLY OUTSIDE IT, AS MOST COST EFFECTIVE.
- 5 PROVIDE 600A LSI MCB (WITH 400A TRIP AND SWITCH OPERATOR), MODIFY EXISTING ENCLOSURE AND PROVIDE HINGE COVER AND LATCH-LOCK, BOND MAIN DISTRIBUTION PANEL (MDP) TO EXISTING GROUND BUS WITH 2/0 GROUNDING CABLE.
- 6 PROVIDE PERMANENT PLASTIC SIGN (MOUNTED ABOVE PANEL), WITH THE FOLLOWING "PERSONAL PROTECTIVE EQUIPMENT REQUIRED FOR THIS ROOM SHALL NOT BE LESS THAN PPE LEVEL OF 1".
- 7 PROVIDE SQUARE D TYPE LB CLASS 9080 SURFACE MNTD COPPER POWER DISTRIBUTION BLOCK WITH NUMBER OF TERMINALS TO ACCOMMODATE PARALLEL CONDUCTOR SETS.

- 8 PROVIDE TYPED PANEL DIRECTORY WITH BREAKER AMPERAGE, POLES, LOAD DESCRIPTION AND CONNECTED LOAD. PROVIDE PERMANENT PHENOLIC LABEL INDICATING PANEL NAME, AMPERAGE, FEEDER, VOLTAGE AND ARC FLASH. DIGITAL COPY OF DIRECTORY SHALL BE PROVIDED TO OWNER.
- 9 ELECTRICAL GROUNDING SYSTEM SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70).
- 10 TO AVOID NUISANCE TRIPPING OF MAIN BREAKER INSTALL A DATA LOGGING METER EQUAL TO SHARK 200 WITH THE FOLLOWING ACCESSORIES. METER SHALL HAVE AN ETHERNET CONNECTION (AND CAT-6 CONNECTION IN 1" C TO NEAREST DATA RACK, V1-V2-V3 OPTION, SINGLE SOFTWARE PC LICENSE, 24V DC, REMOTE MAINTENANCE TROUBLE INDICATOR, AND BE SUPERVISED MONTHLY BY UF MAINTENANCE. INFORM SUPERVISION IF AMPERAGE EXCEEDS 400A.
- 11 ALL NEW BREAKERS SHALL BE RATED FOR AT LEAST 22 KAIC.
- 12 PROVIDE 1/4" THICK 12" SQUARE GAROLITE SHEET FOR MOUNTING POWER DISTRIBUTION BLOCK - McMASTER CARR OR APPROVED EQUAL.

**CAMPBELL SPELLICY ENGINEERING**

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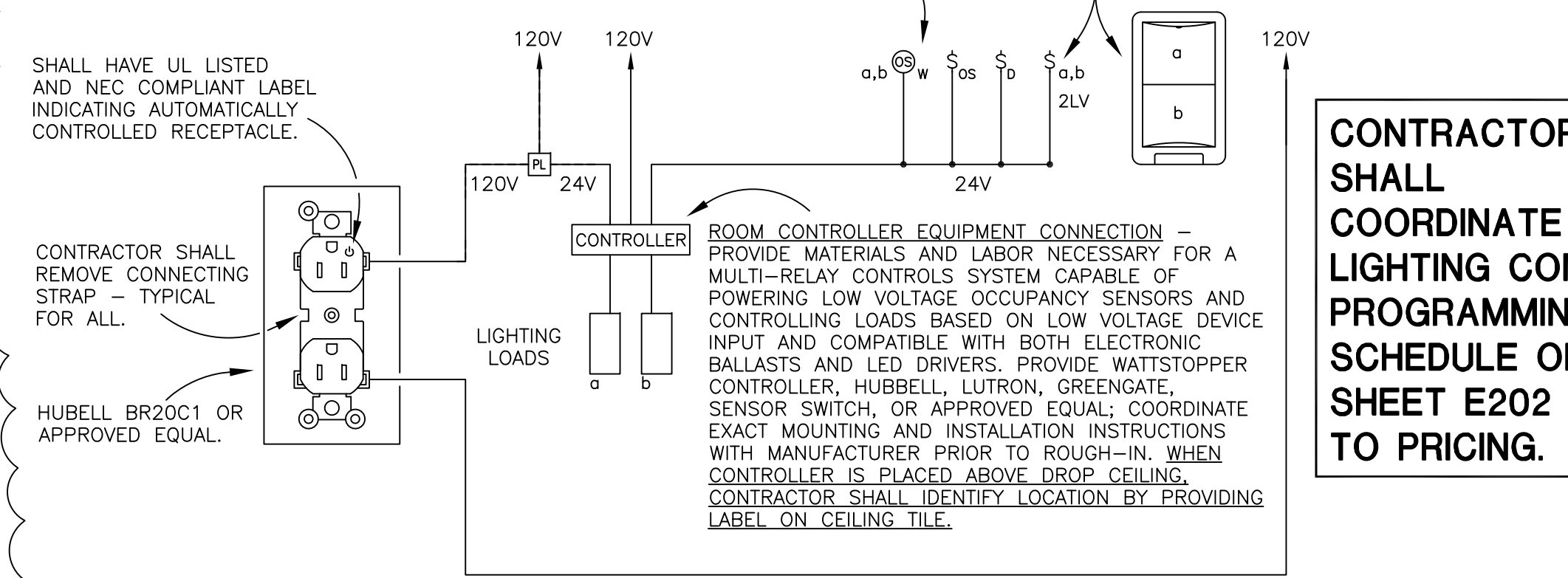
PROJECT: 17032 CONFORMANCE DOCUMENT

RISER DIAGRAMS ON THIS SHEET SHOW THE GENERAL CONFIGURATION OF THE SYSTEMS. SEE APPROPRIATE DRAWINGS AND/OR MANUFACTURER INSTRUCTIONS FOR EXACT DEVICE, QUANTITIES AND LOCATIONS.

- W INPUT/OUTPUT INTERFACE FOR THIRD PARTY DEVICES.
- R PLUG LOAD CONTROLLER WITH 20A RELAY

"W" DENOTES MOUNTING TYPE - WHERE C MEANS CEILING-MOUNTED N MEANS CORNER-MOUNTED AND W MEANS WALL-MOUNTED.

LOW VOLTAGE WALL SWITCH\* - LOWER CASE LETTERS AT CONTROL DEVICES AND AT SWITCH BUTTONS INDICATE FIXTURE CONTROLLED. NUMBER NEXT TO LV INDICATES NUMBER OF BUTTONS.

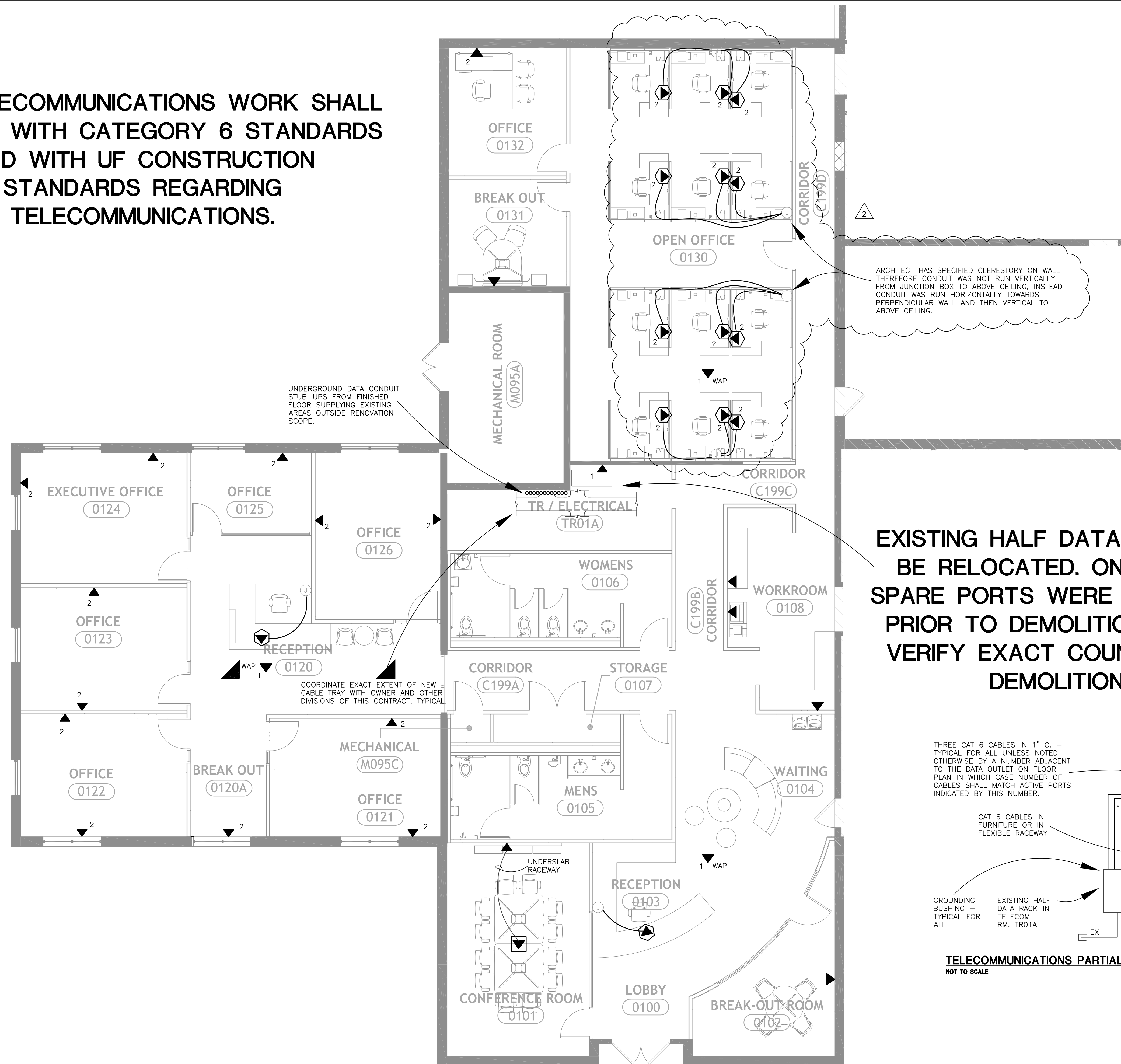


**AUTOMATIC RECEPTACLE AND LIGHTING CONTROL DETAIL**

NOT TO SCALE  
\* CONTRACTOR MAY USE LINE-VOLTAGE SWITCHES IN LIEU OF LOW VOLTAGE TYPE BUT SHALL HAVE EQUAL NUMBER OF BUTTONS OR TOGGLES AND SHALL PROVIDE SAME FUNCTIONALITY AS DESIGN INTENT.

**CONTRACTOR SHALL COORDINATE WITH LIGHTING CONTROL SCHEDULE ON SHEET E202 PRIOR TO PRICING.**

ALL TELECOMMUNICATIONS WORK SHALL COMPLY WITH CATEGORY 6 STANDARDS AND WITH UF CONSTRUCTION STANDARDS REGARDING TELECOMMUNICATIONS.



TELECOMMUNICATIONS PARTIAL TELECOMMUNICATIONS FLOOR PLAN  
SCALE: 3/16" = 1'-0"

**TELECOMMUNICATIONS LEGEND**

- ▶ DATA/TELEPHONE OUTLET - WALL
- ◻ DATA/TELEPHONE OUTLET - FLOOR
- DATA/TELEPHONE OUTLET - IN MODULAR FURNITURE OR MILLWORK. PROVIDE FACEPLATE IN FURNITURE KNOCKOUT OR MILLWORK.

**TELECOMMUNICATIONS ABBREVIATIONS**

- AFF ABOVE FINISHED FLOOR
- EX EXISTING TO REMAIN
- WAP WIRELESS ACCESS POINT

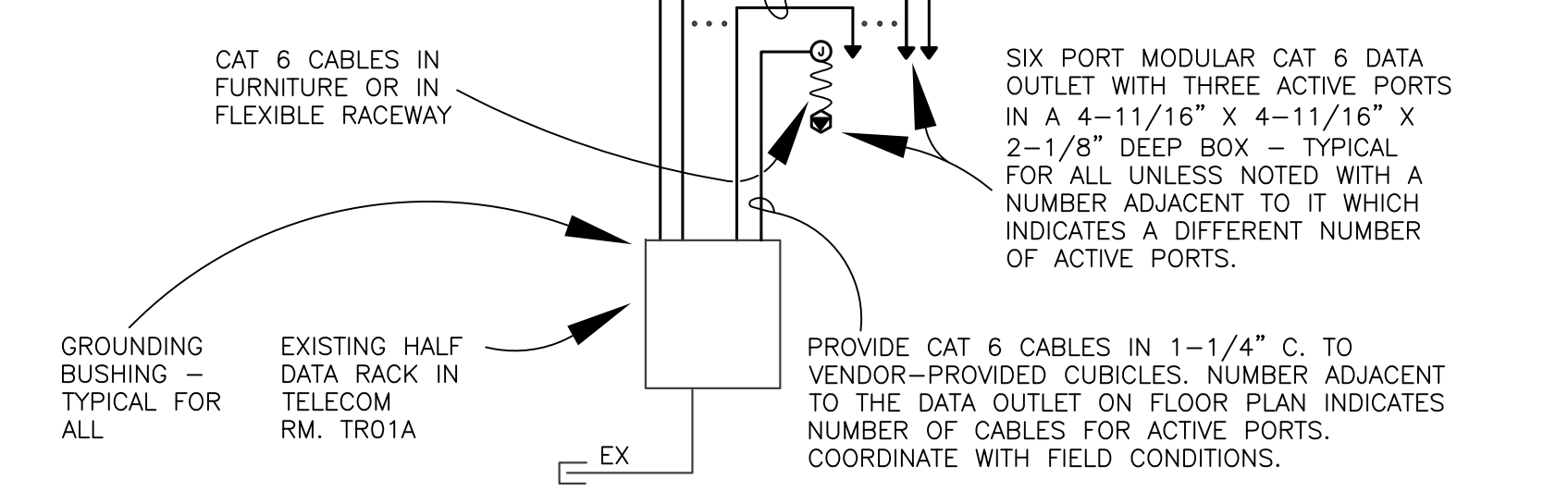
ARCHITECT HAS SPECIFIED CLERESTORY ON WALL THEREFORE CONDUIT WAS NOT RUN VERTICALLY FROM JUNCTION BOX TO ABOVE CEILING, INSTEAD CONDUIT WAS RUN HORIZONTALLY TOWARDS PERPENDICULAR WALL AND THEN VERTICAL TO ABOVE CEILING.

UNDERGROUND DATA CONDUIT STUB-UPS FROM FINISHED FLOOR SUPPLYING EXISTING AREAS OUTSIDE RENOVATION SCOPE.

COORDINATE EXACT EXTENT OF NEW CABLE TRAY WITH OWNER AND OTHER DIVISIONS OF THIS CONTRACT, TYPICAL.

EXISTING HALF DATA RACK TO BE RELOCATED. ONLY TWO SPARE PORTS WERE OBSERVED PRIOR TO DEMOLITION WORK. VERIFY EXACT COUNT AFTER DEMOLITION.

THREE CAT 6 CABLES IN 1" C. - TYPICAL FOR ALL UNLESS NOTED OTHERWISE BY A NUMBER ADJACENT TO THE DATA OUTLET ON FLOOR PLAN IN WHICH CASE NUMBER OF CABLES SHALL MATCH ACTIVE PORTS INDICATED BY THIS NUMBER.



TELECOMMUNICATIONS PARTIAL RISER DIAGRAM  
NOT TO SCALE



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TIMOTHY W. SMITH  
PE - 64454

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**T101**  
TELECOMM FLOOR PLAN, LEGEND, & RISER

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