

PROJECT TITLE

INTERIOR RENOVATION

# LEARN REGIONAL SERVICE CENTER

44 HATCHETTS HILL RD  
OLD LYME, CT 06371



ARCHITECT  
 NOT FOR CONSTRUCTION NOT FOR CONSTRUCTION

**SILVER PETRUCELLI & ASSOC.**  
 3190 WHITNEY AVENUE, HAMDEN CT 06518  
 311 STATE STREET NEW LONDON, CT 06320  
 PHONE 203 230 9007 silverpetrucelli.com

M/E/P/FP  
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 COVER SHEET

Date: 2024.04.11  
 Scale: 12" = 1'-0"  
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 Project Number: 23.202  
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### ARCHITECTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	LAM.	LAMINATE
A.C.P.	ASBESTOS CEMENT PIPE	L.F.	LINEAL FOOT
ADJ.	ADJUSTABLE	LG.	LONG
A.F.F.	ABOVE FINISH FLOOR	LOC.	LOCATION
AC.T.	ACOUSTICAL CEILING TILE	L.P.	LOW POINT
ALUM.	ALUMINUM	LTG.	LIGHTING
APPROX.	APPROXIMATE	LVL.	LEVEL
ARCH.	ARCHITECTURAL		
ASPH.	ASPHALT		
AVG.	AVERAGE		
		M	MINUTE
BSMT.	BASEMENT	MAS.	MASONRY
BD.	BOARD	MAX.	MAXIMUM
BRG.	BEARING	MECH.	MECHANICAL
BRK.	BRICK	M.H.	MANHOLE
BIT.	BITUMINOUS	MIN.	MINIMUM
BLK.	BLOCK	MISC.	MISCELLANEOUS
BLDG.	BUILDING	M.O.	MISCELLANEOUS
B.S.	BOTH SIDES	MTD.	MOUNTED
		MTL.	METAL
		N.A.	NOT APPLICABLE
C.B.	CATCH BASIN	N.I.C.	NOT IN CONTRACT
C.B.R.	CATCH BASIN TO BE REMOVED	NO.	NUMBER
C.I.	CAST IRON	NOM.	NOMINAL
C.I.P.	CAST IN PLACE CONCRETE	N.P.S.	NOMINAL PIPE SIZE
CLG.	CEILING	N.S.	NEAR SIDE
Q.	CENTER LINE	N.T.S.	NOT TO SCALE
C.BD.	CHALK BOARD		
C.O.	CLEAN OUT	O.C.	ON CENTER
COL.	COLUMN	O.C.C.	OCCUPANT
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
C.M.U.	CONCRETE MASONRY UNIT	OPNG.	OPENING
CONE	CONFERENCE		
CONSTR.	CONSTRUCTION		
CONT.	CONTINUOUS, CONTINUE	P.C.B.	PAINTED GYPSUM BOARD
C.J.	CONTROL/CONSTRUCTION JOINT	P.G.B.	PLATE
CONTR.	CONTRACTOR	PL.	PLUMBING
C.C.	CURB CUT	PLUMB.	PLYWOOD
		PREP.	PREPARATION
DET.	DETAIL	P.T.	PRESSURE TREATED
DIA.	DIAMETER	PTD.	PAINTED
DIM.	DIMENSION	P.V.C.	POLYVINYL CHLORIDE
DR.	DOOR		
DN.	DOWN		
DWG.	DRAWING		
		R.	RISER
E	ELECTRICAL	RAD.	RADIUS
EA.	EACH	R.C.P.	REINFORCED CONCRETE PIPE
ECTR.	EXISTING CEILING TO REMAIN	R.D.	ROOF DRAIN
ED.	EDUCATION	REINF.	REINFORCEMENT
ELEC.	ELECTRICAL	REQD.	REQUIRED
E.F.	EACH FACE	R.H.	ROOF HATCH
E.J.	EXPANSION JOINT	R.L.	ROOF LEADER
EL.	ELEVATION	RM.	ROOM
ELEV.	ELEVATION		
EMER.	EMERGENCY	S.	STORM
ENCL.	ENCLOSURE	SAN.	SANITARY
ENL.	ENLARGED	S.C.	SEALED CONCRETE
ENT.	ENTRANCE	S.C.	SCHEDULE
EP.	EPOXY PAINT	SECT.	SECTION
EQ.	EQUAL	S.F.	STEP FOOTING
ES.	EXPOSED STRUCTURE	SIM.	SIMILAR
E.T.R.	EXISTING TO REMAIN	S.O.G.	SLAB ON GRADE
E.W.	EACH WAY	SPEC.	SPECIFICATIONS
E.W./E.F.	EACH WAY/EACH FACE	SQ.	SQUARE
EXAM.	EXAMINATION	SQ. FT.	SQUARE FEET
EXIST.	EXISTING	STL.	STEEL
EXP.	EXPANSION	STRUC.	STRUCTURAL
EXT.	EXTERIOR	SUSP.	SUSPENDED, SUSPENSION
		S.W.	SHEAR WALL
FDN.	FOUNDATION	S.W.F.	SHEAR WALL FOOTING
F.F.	FINISHED FLOOR	SYS., SYST.	SYSTEM
F.P.	FOLDING PARTITION		
FIN.	FINISH, FINISHED	T.	TELEPHONE
FIXT.	FIXTURE	T&B	TOP & BOTTOM
FL.	FLOOR	TECH.	TECHNOLOGY
FT.	FOOT	T.O.	TOP OF
F.S.	FAR SIDE	T.O.F.	TOP OF FRAME
FTG.	FOOTING	T.O.S.	TOP OF STEEL
		T/S	TOP OF SLAB
G.	GAS	T/W	TOP OF WALL
GA.	GAGE, GAUGE	tlf	TRIM TO FIT
GEN.	GENERAL	TYP.	TYPICAL
G.C.	GENERAL CONTRACTOR		
GYP.	GYPSUM		
GYP. BD.	GYPSUM BOARD	U.O.N.	UNLESS OTHERWISE NOTED
H.C.	HANDICAPPED	V.B.	VINYL BASE
HD.	HEADED	V.C.T.	VINYL COMPOSITE TILE
HWDR.	HARDWARE	VERT.	VERTICAL
HGT.	HEIGHT	V.I.F.	VERIFY IN FIELD
H.P.	HIGH POINT		
H.M.	HOLLOW METAL		
HORIZ.	HORIZONTAL, HORIZONTALLY	W.	WATER
H.B.	HOSE BIBB	W	WITH
HR.	HOUR	WCJ	WALL CONTROL JOINT
HYD.	HYDRANT	WD.	WOOD
		WF.	WIDE FLANGE
INSUL.	INSULATION, INSULATED	WINDW.	WINDOW
INT.	INTERIOR	W.W.F.	WELDED WIRE FABRIC
INV.	INVERT	W.W.M.	WELDED WIRE MESH
		@	AT
JAN.	JANITOR	Q	DIAMETER
K.P.	KICK PLATE		

### GRAPHIC SYMBOLS

ROOM NAME	ROOM NAME	ROOM IDENTIFICATION
ROOM NUMBER	XXX	
ROOM NAME	ROOM NAME	ROOM IDENTIFICATION
ROOM NUMBER	###	
MATERIAL - HEIGHT	ACT-1 #'-##"	CEILING PLAN ROOM IDENTIFICATION
ROOM NAME	ROOM NAME	FINISH FLOOR PLAN ROOM IDENTIFICATION
MATERIAL - RM NUMBER	CPT-1 ##	
SQ FT	SQ FT	
CABINET TYPE	CB1	CASEWORK SYMBOL
NOMINAL HEIGHT/WIDTH	3630	
SPECIAL DEPTH &/OR EQUIP.	18"	
	XXX	EQUIPMENT SYMBOL
	XXX	DOOR NUMBER
	XX	DEMOLITION NOTE
	XX	WINDOW TYPE
	XX XX	DETAIL NUMBER DRAWING NUMBER
	XX	CONSTRUCTION NOTE
	X X	SECTION/DETAIL DRAWING NUMBER
	XX XX	BUILDING SECTION DRAWING NUMBER
	XX XX	WALL SECTION DRAWING NUMBER
	XX XX	EXTERIOR ELEVATION DRAWING NUMBER
	# XXX #	"#" INTERIOR ELEVATION "XX" DRAWING NUMBER
	X	WALL TYPE
	X	REVISION MARK
	X	COLUMNS (EXISTING)
detail #	XX XX	DETAIL CALL OUT
sheet #	XX XX	
ELEVATION LABEL		ELEVATION MARKER
		DATUM POINT
#		REVISION CLOUD

### MATERIAL CONVENTIONS

	BRICK
	CONCRETE MASONRY UNIT (CMU)
	CONCRETE (CAST-IN-PLACE)
	CONCRETE (PRE-CAST)
	RIGID BOARD INSULATION
	INSULATION (BATT)
	EARTH
	GYPSUM BOARD
	PLYWOOD
	WOOD FRAMING (THRU MEMBER)
	WD FRAMING (UNINTERRUPTED MEMBER)
	WD TRIM/FINISH
	ACOUSTICAL TILE OR PANEL

### DOOR INDICATIONS

	EXISTING DOOR
	EX. DOOR TO BE REMOVED
	NEW DOOR
	DOUBLE LEAF DOOR

### WALL INDICATIONS

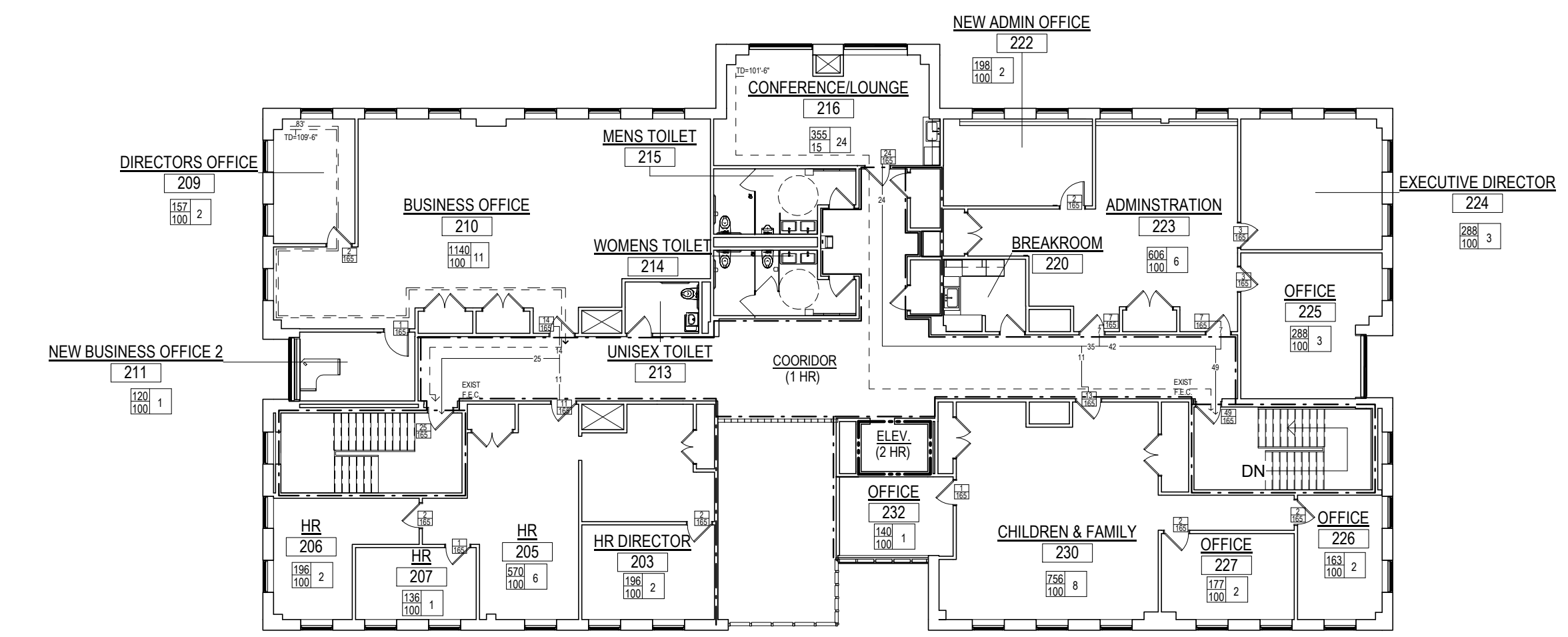
	EXISTING WALL TO REMAIN
	WALL TO BE REMOVED
	EXISTING WINDOW
	NEW CONSTRUCTION

### DRAWINGS LIST

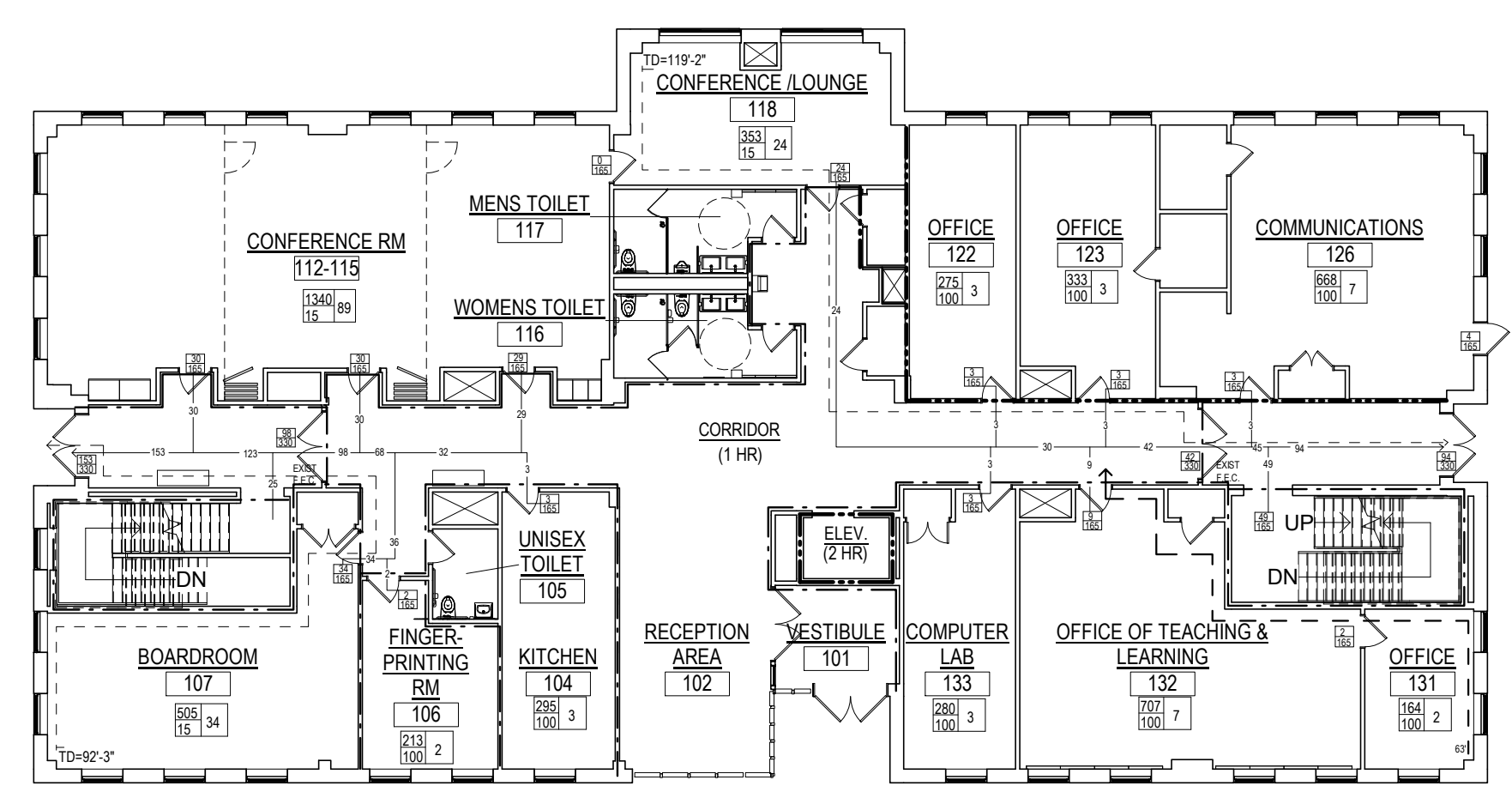
G01	COVERSHEET
G00	DRAWING LIST, SYMBOLS, AND ABBREVIATIONS
G001	BUILDING CODE PLANS & INFORMATION
<b>ARCHITECTURAL DRAWINGS</b>	
A010	GARDEN & FIRST LEVEL DEMOLITION PLANS
A011	SECOND LEVEL DEMOLITION PLANS
A110	GARDEN LEVEL & FIRST LEVEL FLOOR PLANS
A112	SECOND LEVEL FLOOR PLAN
A210	GARDEN LEVEL & FIRST LEVEL FINISH PLANS
A211	SECOND LEVEL FINISH PLAN
A230	FIRST LEVEL REFERENCE FURNITURE PLAN
A231	SECOND LEVEL REFERENCE FURNITURE PLAN
A250	FIRST & SECOND LEVEL REFLECTED CEILING PLAN
A260	CEILING DETAILS
A700	ENLARGED TOILET PLANS
A710	TOILET ROOM DETAILS & ELEVATIONS
A730	INTERIOR ELEVATIONS & CASEWORK DETAILS
A940	DOOR SCHEDULE, DETAILS & WALL TYPES
A950	SIGNAGE
A960	FINISH SCHEDULE
<b>PLUMBING DRAWINGS</b>	
P001	GENERAL NOTES - PLUMBING
P010	GARDEN AND FIRST LEVEL DEMOLITION PLANS - PLUMBING
P011	SECOND LEVEL DEMOLITION PLAN - PLUMBING
P100	GARDEN AND FIRST LEVEL PLANS - PLUMBING
P101	SECOND LEVEL PLAN - PLUMBING
P200	DETAILS AND SCHEDULES - PLUMBING
P300	SPECIFICATIONS - PLUMBING
<b>MECHANICAL DRAWINGS</b>	
M001	GENERAL NOTES - MECHANICAL
M100	FIRST FLOOR PLAN - MECHANICAL
M101	SECOND FLOOR PLAN - MECHANICAL
M200	SPECIFICATIONS AND SCHEDULES - MECHANICAL
M300	DETAILS - MECHANICAL
<b>ELECTRICAL DRAWINGS</b>	
E001	ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS
E010	FIRST LEVEL DEMOLITION PLAN - LIGHTING
E011	SECOND LEVEL DEMOLITION PLAN - LIGHTING
E020	FIRST LEVEL DEMOLITION PLAN - POWER
E021	SECOND LEVEL DEMOLITION PLAN - POWER
E110	FIRST LEVEL PLAN - LIGHTING
E111	SECOND LEVEL PLAN - LIGHTING
E210	FIRST LEVEL & PARTIAL GARDEN LEVEL PLAN - POWER
E211	SECOND LEVEL PLAN - POWER
E300	LIGHT FIXTURE SCHEDULE, DETAILS & SPECIFICATION



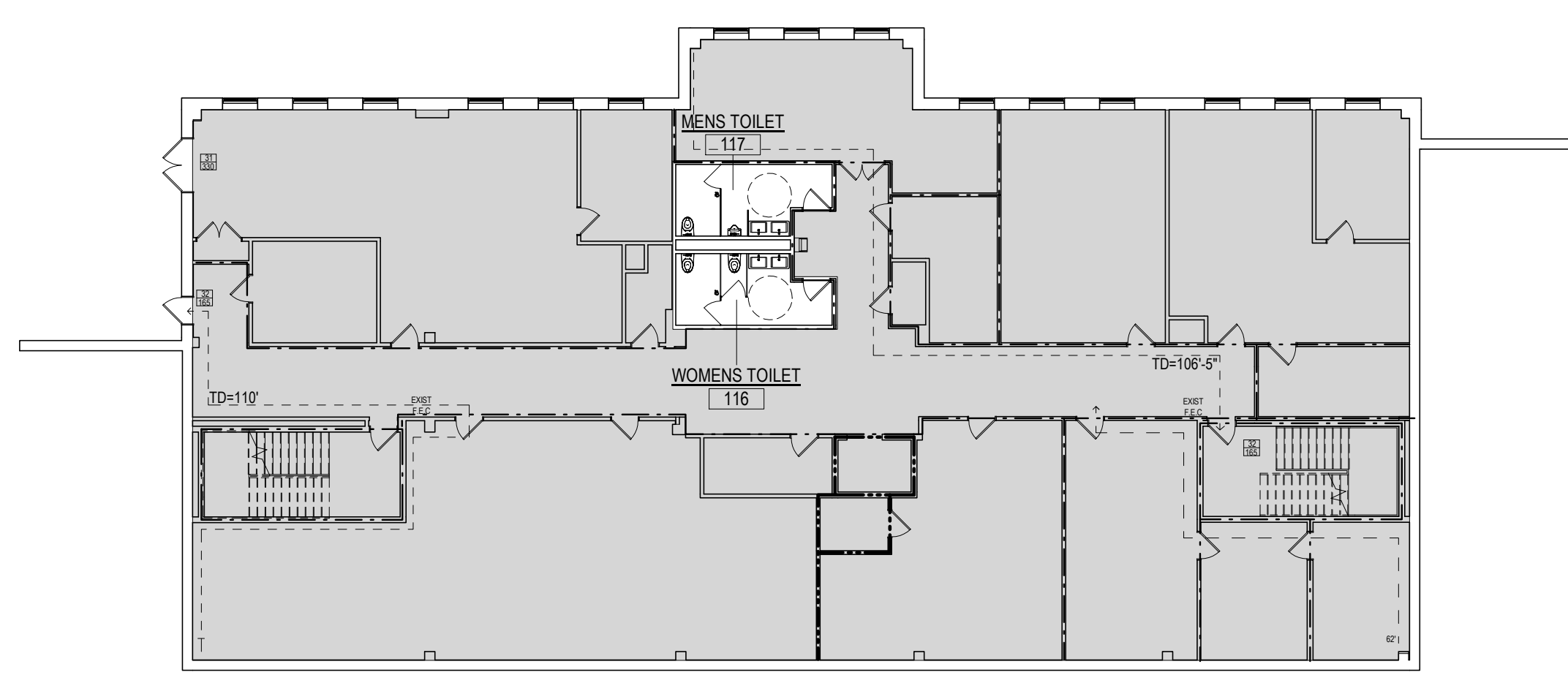
Revision:	Description:	Date:	Revised By:



**2 UPPER LEVEL**  
1/16" = 1'-0"



**1 MAIN LEVEL**  
1/16" = 1'-0"



**G GARDEN LEVEL**  
1/16" = 1'-0"

**CODE LEGEND**

AREA IN SF	840	42	ROOM OCCUPANCY
OCC. LOAD FACTOR	20		LOAD
ACTUAL EGRESS OCC. OF DOOR	42		EXIT CAPACITY
MAX. ALLOWABLE EGRESS OCC. OF DOOR	168		

TD=145' → MAXIMUM TRAVEL DISTANCE FROM FURTHEST POINT  
123 → DIRECTION OF TRAVEL WITH ACCUMULATED OCC. LOAD  
-198' → FURTHEST COMMON PATH OF TRAVEL

--- 1 HR FIRE RATED WALL  
--- 2 HR FIRE RATED WALL

**B USE**  
9,457 S.F.  
(95 OCC.)

GARDEN LEVEL KEY PLAN  
(NOT TO SCALE)

**B USE**  
9,457 S.F.  
(95 OCC.)

FIRST LEVEL KEY PLAN  
(NOT TO SCALE)

**B USE**  
9,457 S.F.  
(95 OCC.)

SECOND LEVEL KEY PLAN  
(NOT TO SCALE)

**CODE INFORMATION**

DATE OF ORIGINAL CONSTRUCTION	1994
DATE OF ADDITIONS	N/A
DATE OF PROPOSED RENOVATION	2024

- GROUP CLASSIFICATION (Chapter 3)**  
(Primary) **B (BUSINESS)**
- CONSTRUCTION TYPE (Chapter 6)**  
Minimum Type Required: **IIB**  
Actual Type Provided (existing): **IIB**  
(Proposed new): **IIB**
- BUILDING HEIGHT (Chapter 5)**  
Allowable Height (story/feet): **3/55'-0"**  
Actual Height (story/feet): **3/40'-0"**  
(Stories Above Grade): **3**
- BUILDING AREA (Chapter 5)**

1) Building Area (Garden Level)		
Existing construction	9,457	sq. ft.
New construction	0	sq. ft.
Total floor	9,457	sq. ft.
2) Building Area (First Level)		
Existing construction	9,457	sq. ft.
New construction	0	sq. ft.
Total floor	9,457	sq. ft.
3) Building Area (Second Level)		
Existing construction	9,457	sq. ft.
New construction	0	sq. ft.
Total floor	9,457	sq. ft.
4) Building Area (All Floors)		
Existing construction	28,371	sq. ft.
New construction	0	sq. ft.
Total floor	28,371	sq. ft.

**5. AREA MODIFICATIONS TO TABLE 506.2**

Total Perimeter =	65	141	141	65	ft.
Open Perimeter =	65	141	141	65	ft.
	N	E	W	S	
Total Frontage (F)	419	ft.	Perimeter (P)	419	ft.
(building perimeter which fronts on a public way or open space having 20 feet open min.) (perimeter of the entire building)					
Width of open space (W) =	>30'				
If=100[F/P-0.25]W/30					
100[419 / 419 - 0.25] 30/30=	75				

**BUSINESS:**

Aa = At + (NS x If )

At = 23,000  
NS = 23,000

Aa = 23,000 + (23,000 x .75)

Aa = 40,250 sq. ft. (Max allowable area)

**9. OCCUPANCY LOAD**

Design Total for Garden Level	95
Total Exit Capacity for Garden Level	660
Design Total for First Level	95
Total Exit Capacity for First Level	1,155
Design Total for Second Level	95
Total Exit Capacity for Second Level	330
Design Total for Building	285
Total Exit Capacity for Building	2,145

**10. MINIMUM PLUMBING FIXTURE COUNT (IPC CHAPTER 4)**

**BUSINESS (B) Group occupancy**

TOTAL Occupancy Load (Use B) : (Design Load = 285)

	Required	Provided
W/C Male	3.85 (4)	7
W/C Female	3.85 (4)	7
Lavs Male	2.78 (3)	7
Lavs Female	2.78 (3)	7

The following fixtures are included in the "Provided" tabulation above, and have been evenly divided by gender:

- 3 existing renovated single-sex accessible restrooms.
- 2 existing single-occupant renovated Unisex accessible restrooms.

**11. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS**

Structural frame: including columns, girders, trusses	0	Hr(s)
Bearing walls:		
Exterior (Table 602)	0	Hr(s)
Interior	0	Hr(s)
Nonbearing walls & partitions		
Exterior (Table 602)	0	Hr(s)
Fire Walls	2	Hr(s)
Fire Separations	2	Hr(s)
Enclosures of Exits	1	Hr(s)
Smoke Barriers	1	Hr(s)
Shafts	2	Hr(s)
Floor Construction (including supporting beams & joists)	0	Hr(s)
Roof Construction (including supporting beams & joists)	0	Hr(s)

**12. MODIFICATIONS**

	Approved	Not Approved
M-XXX-XXX (Allowable Area Increase)	<input type="checkbox"/>	<input type="checkbox"/>
N/A	<input type="checkbox"/>	<input type="checkbox"/>
N/A	<input type="checkbox"/>	<input type="checkbox"/>

**13. ACCESSIBLE BUILDING**

	<input checked="" type="checkbox"/>	Designated
	<input type="checkbox"/>	Non Designated

**14. ENTIRE BUILDING SPRINKLERED**

	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
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**15. THRESHOLD BUILDING CONDITIONS**

	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
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**16. CODES TO WHICH THIS PROJECT WAS DESIGNED**

State Building Code w/ CT Amendments	2021 IBC/2022 CT
State Existing Building Code w/ CT Amendments	2021 EIBC/2022 CT
State Fire Safety Code	2021 IF/2022 CT
State Plumbing Code w/ CT Amendments	2021 IPC/2022 CT
State Mechanical Code w/ CT Amendments	2021 IMC / 2022 CT
State Energy Conservation Code w/ CT Amend.	2021 IECC / 2022 CT
State Electrical Code w/ CT Amendments	2020 NFPA 70 / 2022 CT
Accessible and Usable Bldgs. w/ CT Amendments	2017 ICC A117.1 / 2022 CT
State Fire Prevention / Life Safety Code	2021 NFPA 1 & 101 / 2022 CT
Section 504	Current
ADA Standards for Accessible Design	2010 ADA

- CODE NOTES:**
- ALL EXISTING CORRIDOR WALL/DOORS RESIST PASSAGE OF SMOKE
  - NEW DOORS 236 & 237 RESIST PASSAGE OF SMOKE
  - ADA ACCESSIBLE ELEVATOR AVAILABLE WITHIN EXISTING BUILDING
  - ALL EXISTING TOILETS ARE ADA COMPLIANT
  - ALL EXISTING DOORS ARE ADA COMPLIANT
  - ALL EXISTING STAIRS/RAILINGS ARE ADA COMPLIANT
  - EXISTING STAIRS ARE 1 HOUR RATED INCLUDING DOORS/FRAMES
  - EXISTING PLUMBING COUNTS REMAIN UNCHANGED, COMPLIANT WITH IEBC SECTION 1109.2.1

EXISTING RENOVATED USE GROUP: B & E (BUSINESS & EDUCATIONAL)  
PROPOSED RENOVATED USE GROUP: B (BUSINESS)

EXISTING & NEW CONSTRUCTION TYPE: 2B

CODE ANALYZED FOR PROJECT: IEBC 2021  
COMPLIANCE METHOD: 301.3.2 - PER CHAPTER 6-12 OF 2021 IEBC  
ADDITIONAL CODES: 302.2 - 2021 INTERNATIONAL FIRE CODE  
ACCESSIBILITY: PER SECTION 306 IEBC

CLASSIFICATION OF WORK: 603.1 - ALTERATION LEVEL 2 (ADDITION OF DOORS)

APPLICATION 603.2 - LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 ALTERATIONS AS WELL AS THE PROVISIONS OF CHAPTER 8

CONFORMANCE 701.2 - AN EXISTING BUILDING SHALL NOT BE ALTERED SUCH THAT THE BUILDING BECOMES LESS SAFE THAN ITS EXISTING CONDITION

BUILDING ELEMENTS 702.1 - INTERIOR FINISHES: NEWLY INSTALLED INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH CHAPTER 8 OF IBC

801.2 ALTERATION LEVEL 1 COMPLIANCE: IN ADDITION TO THE REQUIREMENTS OF THIS CHAPTER, ALL WORK SHALL COMPLY WITH REQUIREMENTS OF CHAPTER 7

801.4 COMPLIANCE: NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS IN SPACES SHALL COMPLY WITH THE REQUIREMENTS OF IBC.

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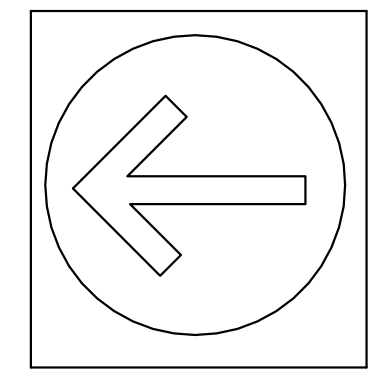
**SILVER PETRUCELLI + ASSOCIATES**

3190 WHITNEY AVENUE HAMDEN CT 06518  
311 STATE STREET NEW LONDON CT 06320  
203 230 9007 silverpetrucci.com


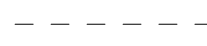







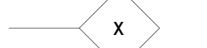
Revision:	Description:	Date:	Revised By:

Drawing Title: **BUILDING CODE PLANS & INFORMATION**

Date: 2024.04.11  
Scale:   
As indicated  
Drawn By:   
MF  
Project Number: 23.202  
Drawing Number: **G001**



**SYMBOL LEGEND**

-  EXISTING WALL TO REMAIN
-  WALL TO BE REMOVED
-  TYPICAL WINDOW
-  NEW CONSTRUCTION
-  EQUIPMENT SYMBOL
-  DOOR NUMBER
-  DEMOLITION NOTE
-  "#" INTERIOR ELEVATION  
"XX" DRAWING NUMBER
-  WALL TYPE
-  AREA EXISTING TO REMAIN

**GENERAL DEMOLITION NOTES:**

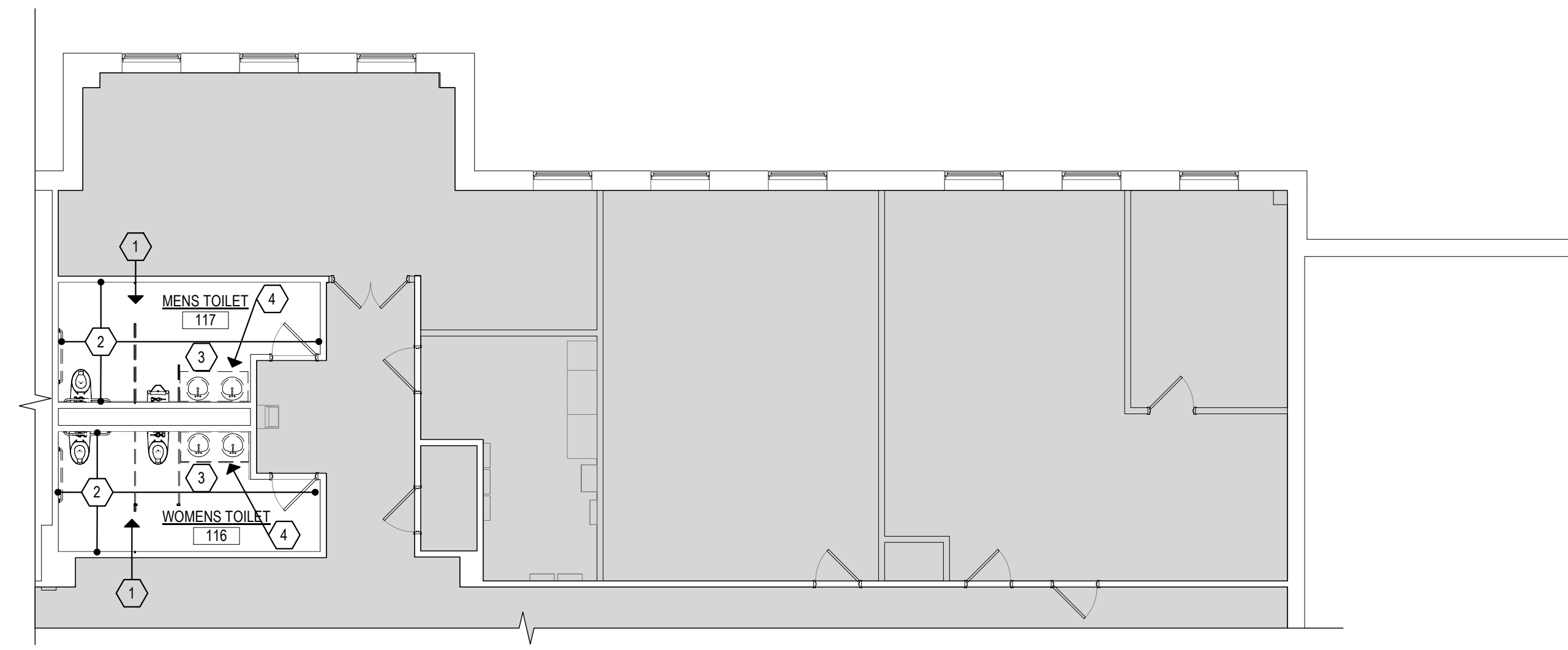
- A. READ ALL GENERAL NOTES ON DRAWING A01.
- B. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH ALL OTHER TRADES. REFER TO M/E/P DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
- C. PROPERLY DISPOSE OF ALL ITEMS IDENTIFIED IN DEMOLITION NOTES BELOW, UNLESS OTHERWISE NOTED AS "SALVAGE."
- D. WHERE INCONSISTENCIES OCCUR, NOTIFY THE DESIGN TEAM AND ASSUME THE GREATER VALUE FOR BIDDING PURPOSES. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- E. REMOVE ALL EXISTING WINDOW TREATMENT BLINDS.
- F. REMOVE ALL EXISTING LIGHTING FIXTURES. COORDINATE w/ ELECTRICAL DRAWINGS.
- G. EMERGENCY STOPS TO BE TIED INTO NEW EQUIPMENT. COORDINATE w/ ELECTRICAL DRAWING.
- H. REMOVE ANY FIRE EXTINGUISHERS AND SALVAGE FOR REUSE.
- I. VESTIBULE ALL DOOR SIGNAGE ON 1ST AND 2ND LEVELS. PATCH WALL FOR REPLACEMENT OF SIGNAGE. SEE DOOR SCHEDULE.

**DEMOLITION NOTES**

1	REMOVE COATED METAL TOILET PARTITION, TOILET ROOM ACCESSORIES IN THEIR ENTIRETY.
2	REMOVE ALL CERAMIC FLOOR AND GYPSUM WALL BOARD WITH WALL TILES, MORTAR, ETC., IN THEIR ENTIRETY. SEE FINISH DWGS.
3	REMOVE PORCELAIN PLUMBING FIXTURES IN THEIR ENTIRETY; SEE PLUMBING DRAWINGS.
4	REMOVE EXISTING PLASTIC LAMINATE VANITY CASWORK AND ACCOMPANYING FEATURES, MIRRORS, ETC.
5	REMOVE EXISTING STAINLESS STEEL SINK BASIN, PLASTIC LAMINATE COUNTERTOP AND UPPER AND BASE CASEWORK. CAP EXISTING PLUMBING. COORDINATE REMOVAL OF SINK AND FAUCET w/ PLUMBING DRAWINGS.
6	REMOVE ALL BROADLOOM CARPET, ADHESIVE, ETC., IN ITS ENTIRETY. PREPARE FLOOR SURFACE FOR NEW FLOOR FINISH. AS SCHED REMOVE ALL RUBBER BASE AND ANY RESIDUAL ADHESIVE TO LEAVE CLEAN SUBSTRATE.
7	REMOVE ALL CERAMIC FLOOR TILES, MORTAR, ETC., IN THEIR ENTIRETY. SEE FINISH DWGS.
8	REMOVE GLASS GLOBE LIGHT FIXTURES, IN THEIR ENTIRETY; CONDUIT & WIRING TO BE REUSED. SEE ELECTRICAL DRAWINGS.
9	REMOVE ALL PLASTIC LAMINATE CABINETS, BACK AND SIDE SPLASH AND PLASTIC LAMINATE COUNTERTOP.
10	REMOVE BULLETIN BOARD. SALVAGE FOR OWNER DECISION TO DISPOSE.
11	REMOVE VCT RESIDUAL ADHESIVE AND LEAVE CLEAN SUBSTRATE.
12	REMOVE PLASTIC LAMINATE MILLWORK BASE AND UPPER CABINETS INCLUDING PLASTIC LAMINATE COUNTERTOPS, BACK AND SIDE SPLASH. COORDINATE REMOVAL OF STAINLESS STEEL SINK AND FAUCET w/ PLUMBING DRAWINGS WHERE APPLICABLE.
13	REMOVE WALKOFF MAT AND PREPARE FLOOR TO ACCEPT NEW TILE. SEE FINISH PLAN.
15	REMOVE ALL WOOD WAINSCOTTING AND PREPARE WALLS FOR REFINISHING.
16	REMOVE ROLLABLE PULLDOWN SCREEN. SALVAGE FOR OWNER REUSE.
17	REMOVE EXISTING METAL, CASED LINEAR LIGHT FIXTURES; CONDUITS TO REMAIN, SEE ELECTRICAL DRAWINGS.
18	REMOVE PLASTIC LAMINATE UPPER CABINETS AND COUNTER TOP. PREPARE FOR REPLACEMENT OF COUNTERTOP. COORDINATE WITH FINISH PLAN AND CONSTRUCTION NOTES AS NEEDED.
20	REMOVE WOOD DOOR, METAL FRAME, AND HARDWARE. SALVAGE FOR REUSE IN NEW CONSTRUCTION.
21	REMOVE PLYWOOD PANEL, EXISTING TECHNOLOGY TO REMAIN INTACT.
22	REMOVE EXISTING REFRIGERATOR, SALVAGE FOR RELOCATION AS SPECIFIED IN CONSTRUCTION PLANS.
23	REMOVE PLASTIC LAMINATE COUNTER, BACK AND SIDE SPLASH.
24	SEE ELECTRICAL DRAWINGS FOR RELOCATION OF CEILING TILE ACCESSORIES.
25	REMOVE EXISTING WOOD CORNER SHELF. SALVAGE FOR OWNER'S DISPOSAL.



**1 FIRST LEVEL DEMOLITION PLAN**  
1/8" = 1'-0"



**G GARDEN LEVEL DEMOLITION PLAN**  
1/8" = 1'-0"

Project Title:  
**INTERIOR RENOVATION  
 LEARN REGIONAL SERVICE CENTER**  
 44 HATCHETTS HILL RD  
 OLD LYME, CT 06371







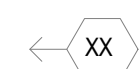
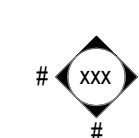
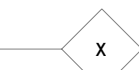

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 203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

Drawing Title:  
**GARDEN & FIRST LEVEL  
 DEMOLITION PLANS**

Date: 2024.04.11  
 Scale: As indicated  
 Drawn By: MF  
 Project Number: 23.202  
 Drawing Number: **A010**

**SYMBOL LEGEND**

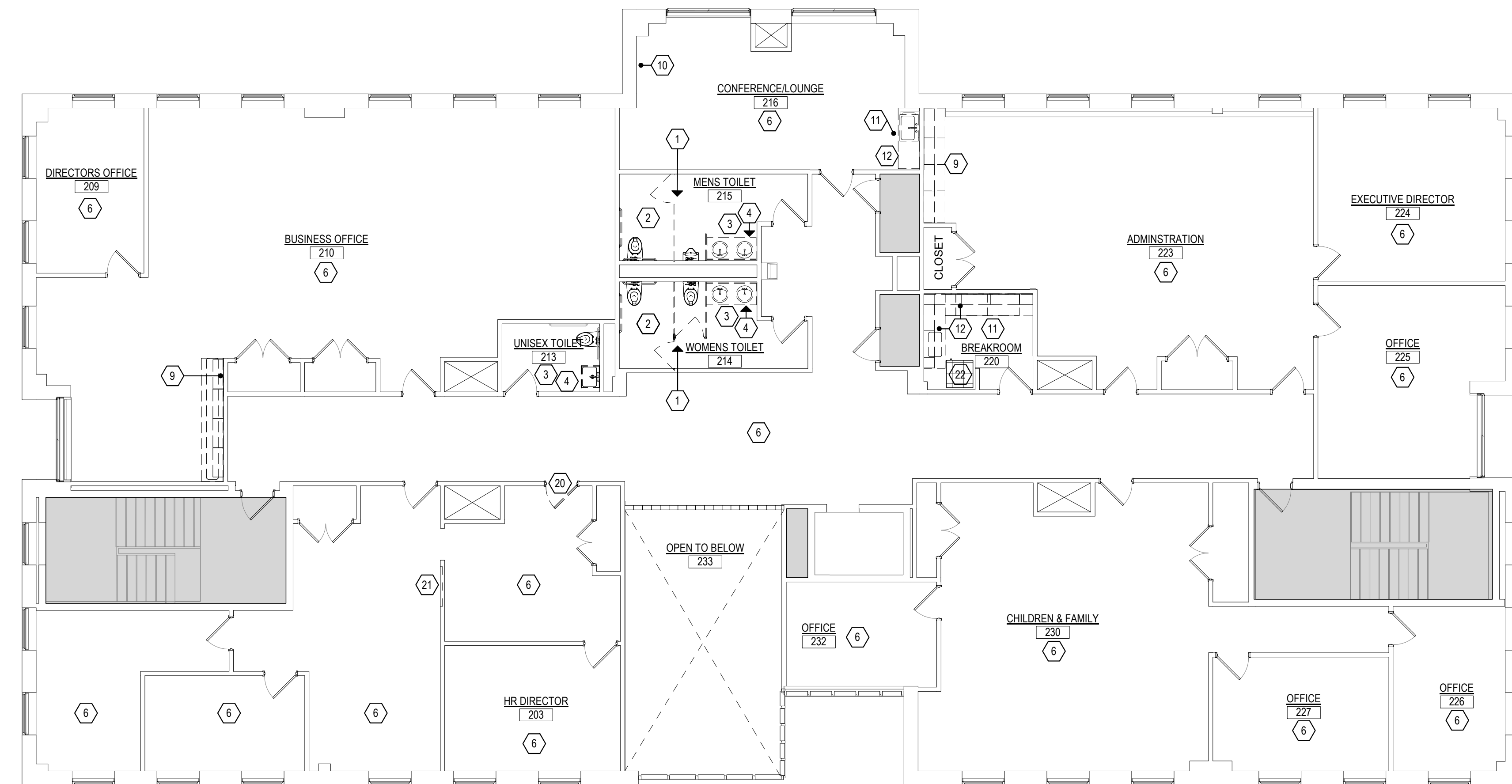
-  EXISTING WALL TO REMAIN
-  WALL TO BE REMOVED
-  TYPICAL WINDOW
-  NEW CONSTRUCTION
-  EQUIPMENT SYMBOL
-  DOOR NUMBER
-  DEMOLITION NOTE
-  "M" INTERIOR ELEVATION  
"XX" DRAWING NUMBER
-  WALL TYPE
-  AREA EXISTING TO REMAIN

**GENERAL DEMOLITION NOTES:**

- A. READ ALL GENERAL NOTES ON DRAWING A001.
- B. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH ALL OTHER TRADES. REFER TO M/E/P DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
- C. PROPERLY DISPOSE OF ALL ITEMS IDENTIFIED IN DEMOLITION NOTES BELOW, UNLESS OTHERWISE NOTED AS "SALVAGE". WHERE INCONSISTENCIES OCCUR, NOTIFY THE DESIGN TEAM AND ASSUME THE GREATER VALUE FOR BIDDING PURPOSES. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- F. REMOVE ALL EXISTING WINDOW TREATMENT BLINDS.
- G. REMOVE ALL EXISTING LIGHTING FIXTURES. COORDINATE W/ ELECTRICAL DRAWINGS.
- H. EMERGENCY STOPS TO BE TIED INTO NEW EQUIPMENT. COORDINATE W/ ELECTRICAL DRAWING.
- I. REMOVE ANY FIRE EXTINGUISHERS AND SALVAGE FOR REUSE.
- J. REMOVE ALL DOOR SIGNAGE ON 1ST AND 2ND LEVELS. PATCH WALL FOR REPLACEMENT OF SIGNAGE. SEE DOOR SCHEDULE.

**DEMOLITION NOTES**

1	REMOVE COATED METAL TOILET PARTITION, TOILET ROOM ACCESSORIES IN THEIR ENTIRETY.
2	REMOVE ALL CERAMIC FLOOR AND GYPSUM WALL BOARD WITH WALL TILES, MORTAR, ETC., IN THEIR ENTIRETY; SEE FINISH DWGS.
3	REMOVE PORCELAIN PLUMBING FIXTURES IN THEIR ENTIRETY; SEE PLUMBING DRAWINGS.
4	REMOVE EXISTING PLASTIC LAMINATE VANITY CASWORK AND ACCOMPANYING FEATURES, MIRRORS, ETC.
5	REMOVE EXISTING STAINLESS STEEL SINK BASIN, PLASTIC LAMINATE COUNTERTOP AND UPPER AND BASE CASEWORK. CAP EXISTING PLUMBING. COORDINATE REMOVAL OF SINK AND FAUCET W/ PLUMBING DRAWINGS.
6	REMOVE ALL BROADLOOM CARPET, ADHESIVE, ETC., IN ITS ENTIRETY; PREPARE FLOOR SURFACE FOR NEW FLOOR FINISH, AS SCHED. REMOVE ALL RUBBER BASE AND ANY RESIDUAL ADHESIVE TO LEAVE CLEAN SUBSTRATE.
7	REMOVE ALL CERAMIC FLOOR TILES, MORTAR, ETC., IN THEIR ENTIRETY. SEE FINISH DWGS.
8	REMOVE GLASS GLOBE LIGHT FIXTURES, IN THEIR ENTIRETY; CONDUIT & WIRING TO BE REUSED. SEE ELECTRICAL DRAWINGS.
9	REMOVE ALL PLASTIC LAMINATE CABINETS, BACK AND SIDE SPLASH AND PLASTIC LAMINATE COUNTERTOP.
10	REMOVE BULLETIN BOARD. SALVAGE FOR OWNER DECISION TO DISPOSE.
11	REMOVE VCT RESIDUAL ADHESIVE AND LEAVE CLEAN SUBSTRATE
12	REMOVE PLASTIC LAMINATE MILLWORK BASE AND UPPER CABINETS INCLUDING PLASTIC LAMINATE COUNTERTOPS, BACK AND SIDE SPLASH. COORDINATE REMOVAL OF STAINLESS STEEL SINK AND FAUCET W/ PLUMBING DRAWINGS WHERE APPLICABLE.
13	REMOVE WALKOFF MAT AND PREPARE FLOOR TO ACCEPT NEW TILE. SEE FINISH PLAN.
15	REMOVE ALL WOOD WAINSCOTTING AND PREPARE WALLS FOR REFINISHING.
16	REMOVE ROLLABLE PULLDOWN SCREEN SALVAGE FOR OWNER REUSE.
17	REMOVE EXISTING METAL CASED LINEAR LIGHT FIXTURES; CONDUITS TO REMAIN. SEE ELECTRICAL DRAWINGS.
18	REMOVE PLASTIC LAMINATE UPPER CABINETS AND COUNTER TOP, PREPARE FOR REPLACEMENT OF COUNTERTOP. COORDINATE WITH FINISH PLAN AND CONSTRUCTION NOTES AS NEEDED.
20	REMOVE WOOD DOOR, METAL FRAME, AND HARDWARE, SALVAGE FOR REUSE IN NEW CONSTRUCTION.
21	REMOVE PLYWOOD PANEL, EXISTING TECHNOLOGY TO REMAIN INTACT.
22	REMOVE EXISTING REFRIGERATOR, SALVAGE FOR RELOCATION AS SPECIFIED IN CONSTRUCTION PLANS.
23	REMOVE PLASTIC LAMINATE COUNTER, BACK AND SIDE SPLASH.
24	SEE ELECTRICAL DRAWINGS FOR RELOCATION OF CEILING TILE ACCESSORIES.
25	REMOVE EXISTING WOOD CORNER SHELF. SALVAGE FOR OWNER'S DISPOSAL.



**2 2ND LEVEL DEMOLITION PLAN**  
1/8" = 1'-0"

Project Title:  
**INTERIOR RENOVATION  
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 44 HATCHETTS HILL RD  
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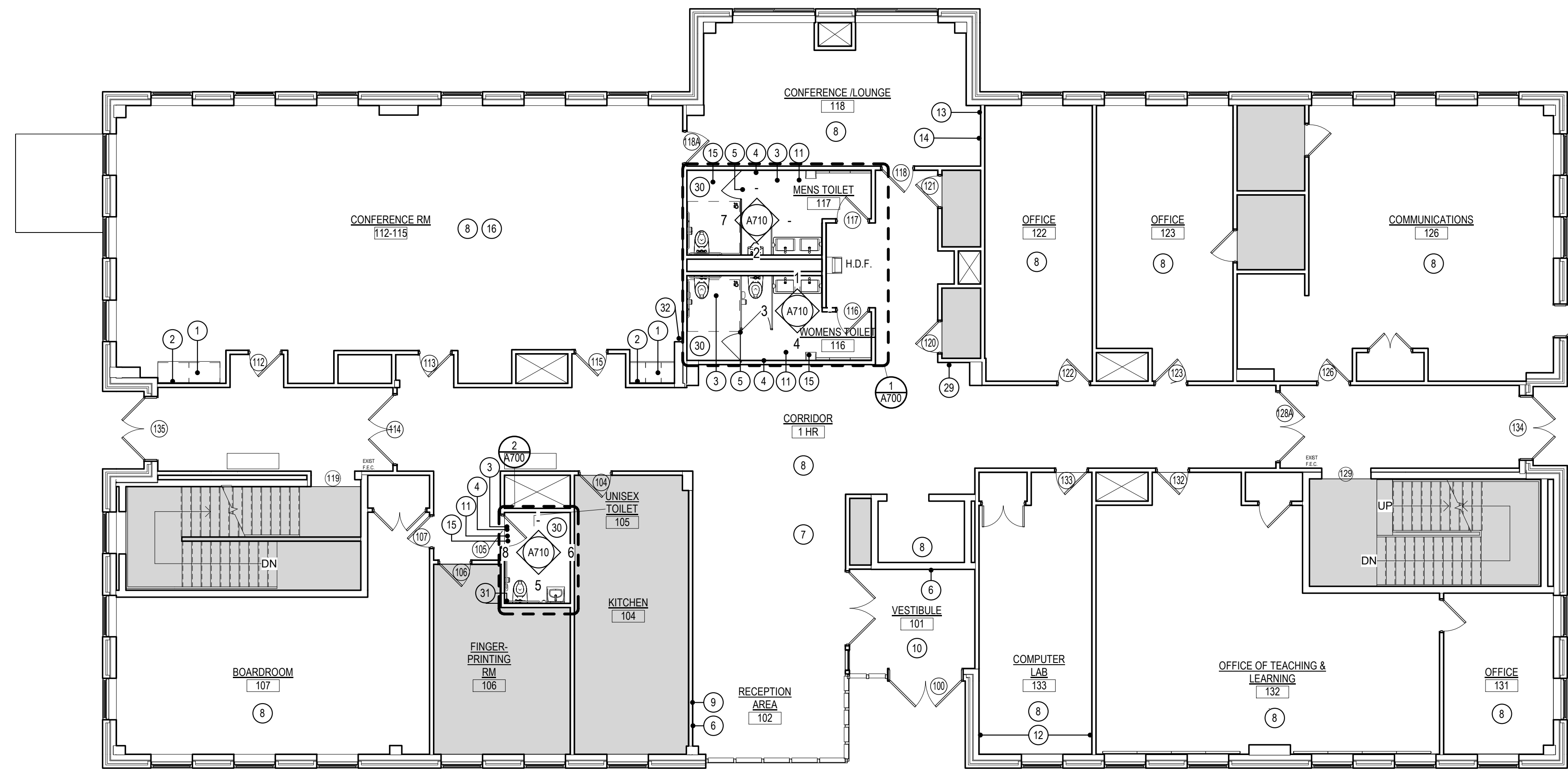
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Revision:	Description:	Date:	Revised By:

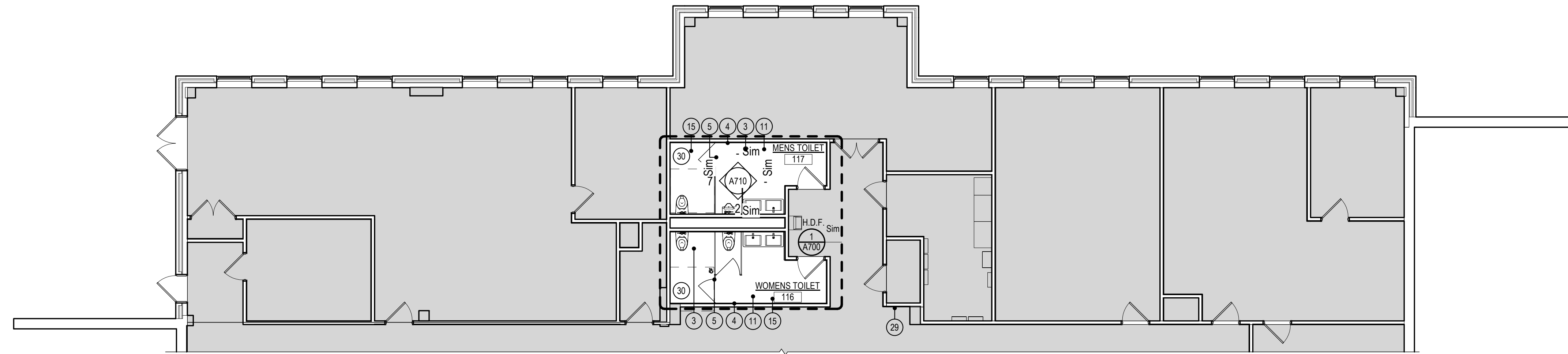
Drawing Title:  
**SECOND LEVEL DEMOLITION  
 PLANS**

Date: 2024.04.11  
 Scale: \_\_\_\_\_  
 As Indicated  
 Drawn By: \_\_\_\_\_  
 MF  
 Project Number: 23.202  
 Drawing Number: **A011**






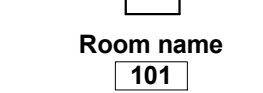


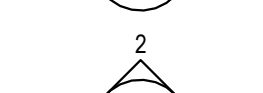



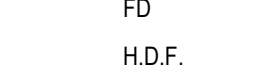
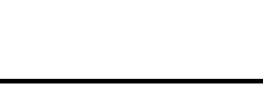
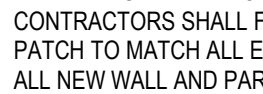
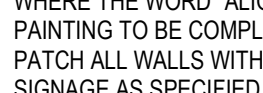


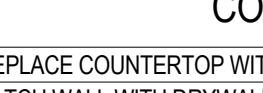
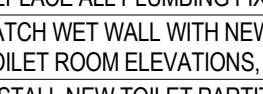
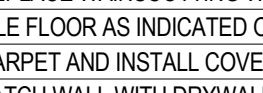


**1** FIRST LEVEL FLOOR PLAN  
1/8" = 1'-0"



**G** GARDEN LEVEL FLOOR PLAN  
1/8" = 1'-0"

**SYMBOL LEGEND**

-  - NEW METAL STUD PARTITIONS
-  - EXISTING TO REMAIN
-  - DOOR NUMBER
-  - WINDOW TYPE
-  - ROOM NAME
-  - ROOM NUMBER
-  - PARTITION TYPE
-  - CONSTRUCTION NOTE
-  - EXTERIOR ELEVATION NUMBER
-  - SHEET NUMBER
-  - INTERIOR ELEVATION NUMBER
-  - SHEET NUMBER
-  - BUILDING SECTION NUMBER
-  - SHEET NUMBER
-  - WALL SECTION NUMBER
-  - SHEET NUMBER
-  - FIRE EXTINGUISHER CABINET
-  - FLOOR DRAIN - SLOPE TO DRAIN
-  - HANDICAPPED DRINKING FOUNTAIN

**GENERAL NOTES**

1. READ ALL GENERAL NOTES ON DRAWING A001.
2. CONTRACTORS SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
3. PATCH TO MATCH ALL EXISTING WALLS AND CEILINGS TO REMAIN AFFECTED BY NEW WORK.
4. ALL NEW WALL AND PARTITION ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
5. WHERE THE WORD "ALIGN" IS INDICATED IT SHALL MEAN TO ALIGN BOTH SIDES OF WALL.
6. PAINTING TO BE COMPLETED BY OWNER, WHERE SPECIFIED.
7. PATCH ALL WALLS WITH DRYWALL FROM REMOVAL OF EXISTING SIGNAGE. REPLACE WITH NEW SIGNAGE AS SPECIFIED IN DOOR SCHEDULE.
8. ALL ITEMS NEW UNLESS SPECIFIED AS EXISTING.

**CONSTRUCTION KEYNOTES:** 

**CONSTRUCTION NOTES - PLAN**

- 1 REPLACE COUNTERTOP WITH PLASTIC LAMINATE. SEE FINISH PLANS.
- 2 PATCH WALL WITH DRYWALL FROM REMOVAL OF UPPER CABINETS.
- 3 REPLACE ALL PLUMBING FIXTURES AND REINSTALL GRAB BARS. SEE PLUMBING AND FINISH DRAWINGS.
- 4 PATCH WET WALL WITH NEW CEMENT BOARD, TILE WITH PORCELAIN TILE ON WET WALL. REFER TO TOILET ROOM ELEVATIONS, A710.
- 5 INSTALL NEW TOILET PARTITIONS ACCORDING TO SPECIFICATIONS ON TOILET PLANS. SEE FINISH DWGS.
- 6 REPLACE WAINSCOTTING WHERE AND WITH INDICATED ON FINISH PLAN.
- 7 TILE FLOOR AS INDICATED ON FINISH DWGS.
- 8 CARPET AND INSTALL COVE BASE AS INDICATED ON FINISH DWGS AND SCHEDULE.
- 9 PATCH WALL WITH DRYWALL FROM MILLWORK REMOVAL FINISH ACCORDING TO FINISH PLANS.
- 10 TILE AS SPECIFIED ON FINISH SCHEDULE. SEE FINISH PLANS.
- 11 REPLACE ACCESSORIES. SEE ENLARGED TOILET ROOM PLANS AND TOILET ACCESSORY LEGEND FOR DETAILS.
- 12 PATCH WALL WITH DRYWALL FROM REMOVAL OF CASEWORK AND COUNTER.
- 13 PATCH WALL WITH DRYWALL FROM REMOVAL OF CASEWORK AND PLUMBING.
- 14 CAP EXISTING PLUMBING FROM REMOVAL OF EXISTING SINK. SEE PLUMBING DRAWINGS.
- 15 SEE PLUMBING DRAWINGS FOR TOILET ROOM DETAILS AND SPECIFICATIONS.
- 16 SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN FOR DETAILS.
- 17 PATCH WALL WITH GYPSUM BOARD FROM EXISTING CUT OUT. REPAIR AND FINISH ACCORDING TO FINISH DWGS.
- 18 PATCH WALL WITH METAL STUDS @ 16" O.C. 5/8" GYPSUM BOARD FROM REMOVAL OF 3070 DOOR. FINISH ACCORDING TO FINISH DWGS.
- 19 BUILD NEW WALL, TYPE 1A. SEE WALL SCHEDULES AND DETAIL DWGS.
- 19A BUILD NEW WALL, TYPE 2A. SEE WALL SCHEDULES AND DETAIL DWGS.
- 20 RELOCATE LIGHTS AND CUT CEILING GRID. SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN FOR DETAILS.
- 21 NEW DOOR AND FRAME TO MATCH EXISTING. PROVIDED BY OWNER. SEE DOOR SCHEDULE.
- 21A RELOCATE EXISTING REMOVED 3'-0" WOOD DOOR AND METAL FRAME (DEMO NOTE #2). SEE DOOR SCHEDULE.
- 22 SEE REFLECTED CEILING PLAN, ELECTRICAL DWGS, AND MECHANICAL DWGS FOR DETAILS AND SPECIFICATIONS.
- 23 RELOCATE EXISTING FRIDGE TO NEW OUTLET. SEE ELECTRICAL PLAN.
- 24 RELOCATE FRIDGE OUTLET. SEE ELECTRICAL DRAWINGS FOR DETAILS. REINSTALL EXISTING REFRIGERATOR.
- 25 REPLACE WITH NEW UPPER CABINETS AND LOWER CABINETS, AND COUNTERTOP WHERE SPECIFIED. SEE INTERIOR ELEVATIONS.
- 26 REPLACE WITH COUNTERTOP WHERE SPECIFIED. SEE INTERIOR ELEVATIONS.
- 27 REPLACE WITH NEW SINK USING EXISTING PLUMBING. SEE INTERIOR ELEVATION AND PLUMBING DWGS.
- 28 REPLACE WITH NEW VCT ADHESIVE FLOORING AS SPECIFIED IN FINISH PLANS.
- 29 PROVIDE POWER FOR NEW DIGITAL SIGNAGE. REFER TO ELECTRICAL PLAN. DIGITAL SIGNAGE/MONITOR TO BE PROVIDED BY OWNER.
- 30 GRIND FLOOR TO ACCOMMODATE 9MM THICK PORCELAIN TILE TO SIT FLUSH WITH EXISTING FLOOR DRAIN. LEVEL FLOOR PRIOR TO SCHLUTER WATERPROOF MEMBRANE SYSTEM. TILE ACCORDING TO DETAIL. SLOPE TO EXISTING DRAIN.
- 31 REINFORCE WALL TO ACCOMMODATE VERTICAL GRAB BAR. NEW VERTICAL GRAB BAR. SEE TOILET ROOM DETAILS.
- 32 PATCH WALL WITH DRYWALL FROM REMOVAL OF SHELF.

Project Title:  
**INTERIOR RENOVATION  
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44 HATCHETTS HILL RD  
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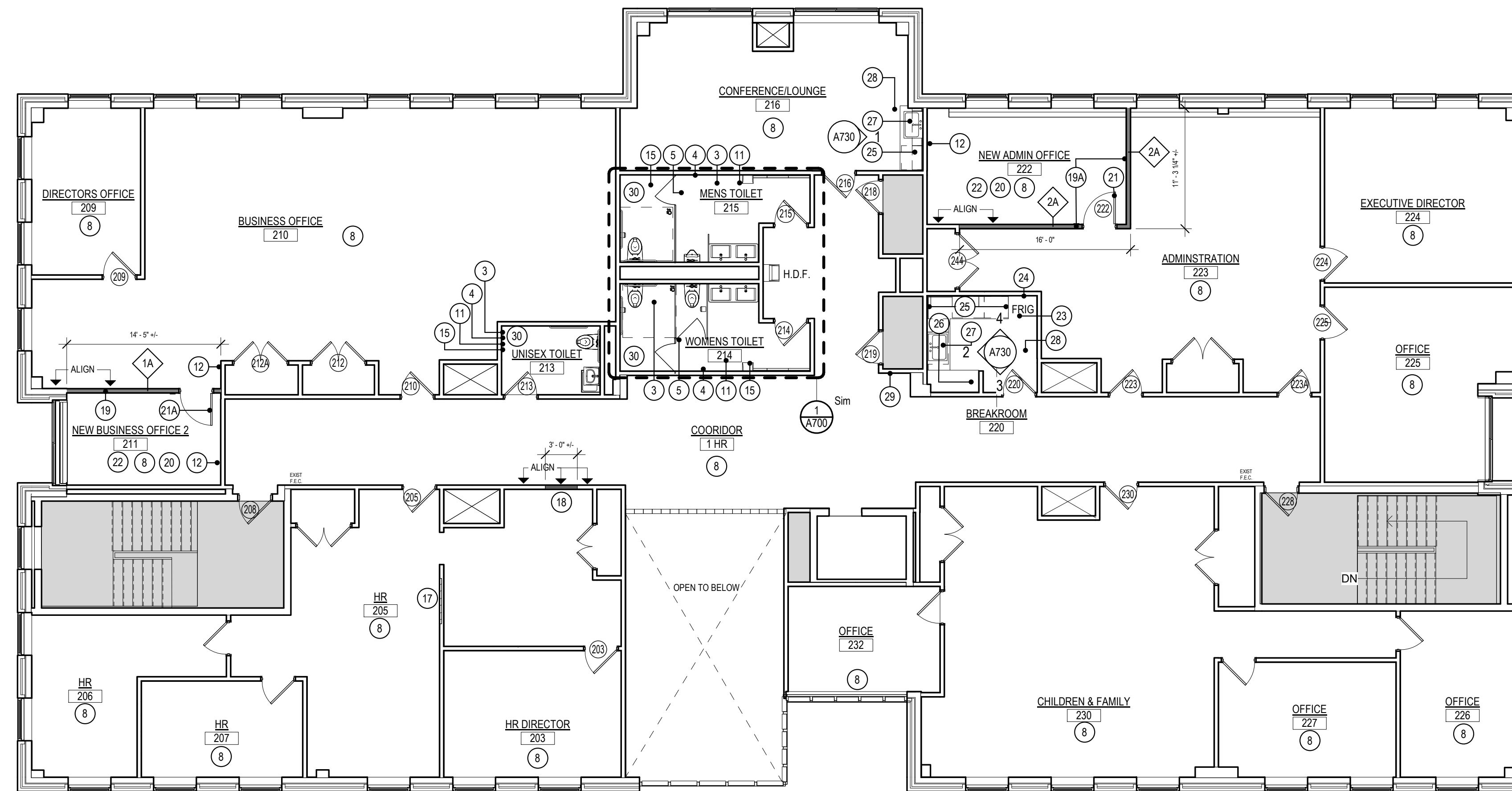
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Revision:	Description:	Date:	Revised By:

Drawing Title:  
**GARDEN LEVEL & FIRST LEVEL  
FLOOR PLANS**




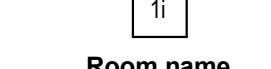
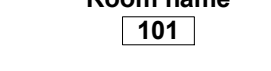

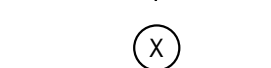




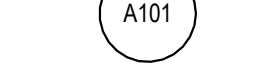



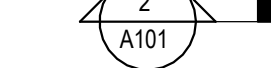
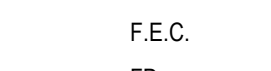
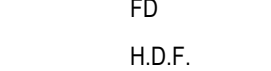

Date: 2024.04.11  
Scale:  
As indicated  
Drawn By:  
MF  
Project Number:  
23.202

**A110**



**2** 2ND LEVEL FLOOR PLAN  
1/8" = 1'-0"

**SYMBOL LEGEND**

-  - NEW METAL STUD PARTITIONS
-  - EXISTING TO REMAIN
-  - DOOR NUMBER
-  - WINDOW TYPE
-  - ROOM NAME
-  - ROOM NUMBER
-  - PARTITION TYPE
-  - CONSTRUCTION NOTE
-  - EXTERIOR ELEVATION NUMBER
-  - SHEET NUMBER
-  - INTERIOR ELEVATION NUMBER
-  - SHEET NUMBER
-  - BUILDING SECTION NUMBER
-  - SHEET NUMBER
-  - WALL SECTION NUMBER
-  - SHEET NUMBER
-  - FIRE EXTINGUISHER CABINET
-  - FLOOR DRAIN - SLOPE TO DRAIN
-  - HANDICAPPED DRINKING FOUNTAIN

**GENERAL NOTES**

1. READ ALL GENERAL NOTES ON DRAWING A001.
2. CONTRACTORS SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
3. PATCH TO MATCH ALL EXISTING WALLS AND CEILINGS TO REMAIN AFFECTED BY NEW WORK.
4. ALL NEW WALL AND PARTITION ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
5. WHERE THE WORD "ALIGN" IS INDICATED IT SHALL MEAN TO ALIGN BOTH SIDES OF WALL.
6. PAINTING TO BE COMPLETED BY OWNER, WHERE SPECIFIED.
7. PATCH ALL WALLS WITH DRYWALL FROM REMOVAL OF EXISTING SIGNAGE. REPLACE WITH NEW SIGNAGE AS SPECIFIED IN DOOR SCHEDULE.
8. ALL ITEMS NEW UNLESS SPECIFIED AS EXISTING.

**CONSTRUCTION KEYNOTES:** 

**CONSTRUCTION NOTES - PLAN**

1. REPLACE COUNTERTOP WITH PLASTIC LAMINATE. SEE FINISH PLANS.
2. PATCH WALL WITH DRYWALL FROM REMOVAL OF UPPER CABINETS.
3. REPLACE ALL PLUMBING FIXTURES AND REINSTALL GRAB BARS. SEE PLUMBING AND FINISH DRAWINGS.
4. PATCH WET WALL WITH NEW CEMENT BOARD, TILE WITH PORCELAIN TILE ON WET WALL. REFER TO TOILET ROOM ELEVATIONS, A710.
5. INSTALL NEW TOILET PARTITIONS ACCORDING TO SPECIFICATIONS ON TOILET PLANS. SEE FINISH DWGS.
6. REPLACE WAINSCOTTING WHERE AND WITH INDICATED ON FINISH PLAN.
7. TILE FLOOR AS INDICATED ON FINISH DWGS.
8. CARPET AND INSTALL COVE BASE AS INDICATED ON FINISH DWGS AND SCHEDULE.
9. PATCH WALL WITH DRYWALL FROM MILLWORK REMOVAL. FINISH ACCORDING TO FINISH PLANS.
10. TILE AS SPECIFIED ON FINISH SCHEDULE. SEE FINISH PLANS.
11. REPLACE ACCESSORIES. SEE ENLARGED TOILET ROOM PLANS AND TOILET ACCESSORY LEGEND FOR DETAILS.
12. PATCH WALL WITH DRYWALL FROM REMOVAL OF CASEWORK AND COUNTER.
13. PATCH WALL WITH DRYWALL FROM REMOVAL OF CASEWORK AND PLUMBING.
14. CAP EXISTING PLUMBING FROM REMOVAL OF EXISTING SINK. SEE PLUMBING DRAWINGS.
15. SEE PLUMBING DRAWINGS FOR TOILET ROOM DETAILS AND SPECIFICATIONS.
16. SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN FOR DETAILS.
17. PATCH WALL WITH GYPSUM BOARD FROM EXISTING CUT OUT, REPAIR AND FINISH ACCORDING TO FINISH DWGS.
18. PATCH WALL WITH METAL STUDS @ 16" O.C., 5/8" GYPSUM BOARD FROM REMOVAL OF 3070 DOOR. FINISH ACCORDING TO FINISH DWGS.
19. BUILD NEW WALL, TYPE 1A, SEE WALL SCHEDULES AND DETAIL DWGS.
- 19A. BUILD NEW WALL, TYPE 2A, SEE WALL SCHEDULES AND DETAIL DWGS.
20. RELOCATE LIGHTS AND CUT CEILING GRID. SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN FOR DETAILS.
21. NEW DOOR AND FRAME TO MATCH EXISTING, PROVIDED BY OWNER. SEE DOOR SCHEDULE.
- 21A. RELOCATE EXISTING REMOVED 3'-0" WOOD DOOR AND METAL FRAME (DEMO NOTE #20). SEE DOOR SCHEDULE.
22. SEE REFLECTED CEILING PLAN, ELECTRICAL DWGS, AND MECHANICAL DWGS FOR DETAILS AND SPECIFICATIONS.
23. RELOCATE EXISTING FRIDGE TO NEW OUTLET. SEE ELECTRICAL PLAN.
24. RELOCATE FRIDGE OUTLET. SEE ELECTRICAL DRAWINGS FOR DETAILS. REINSTALL EXISTING REFRIGERATOR.
25. REPLACE WITH NEW UPPER CABINETS AND LOWER CABINETS, AND COUNTERTOP WHERE SPECIFIED. SEE INTERIOR ELEVATIONS.
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27. REPLACE WITH NEW SINK USING EXISTING PLUMBING. SEE INTERIOR ELEVATION AND PLUMBING DWGS.
28. REPLACE WITH NEW VCT ADHESIVE FLOORING AS SPECIFIED IN FINISH PLANS.
29. PROVIDE POWER FOR NEW DIGITAL SIGNAGE. REFER TO ELECTRICAL PLAN. DIGITAL SIGNAGE/MONITOR TO BE PROVIDED BY OWNER.
30. GRIND FLOOR TO ACCOMMODATE 9MM THICK PORCELAIN TILE TO SIT FLUSH WITH EXISTING FLOOR DRAIN. LEVEL FLOOR PRIOR TO SCHLUTER WATERPROOF MEMBRANE SYSTEM. TILE ACCORDING TO DETAIL, SLOPE TO EXISTING DRAIN.
31. REINFORCE WALL TO ACCOMMODATE VERTICAL GRAB BAR. NEW VERTICAL GRAB BAR, SEE TOILET ROOM DETAILS.
32. PATCH WALL WITH DRYWALL FROM REMOVAL OF SHELF.

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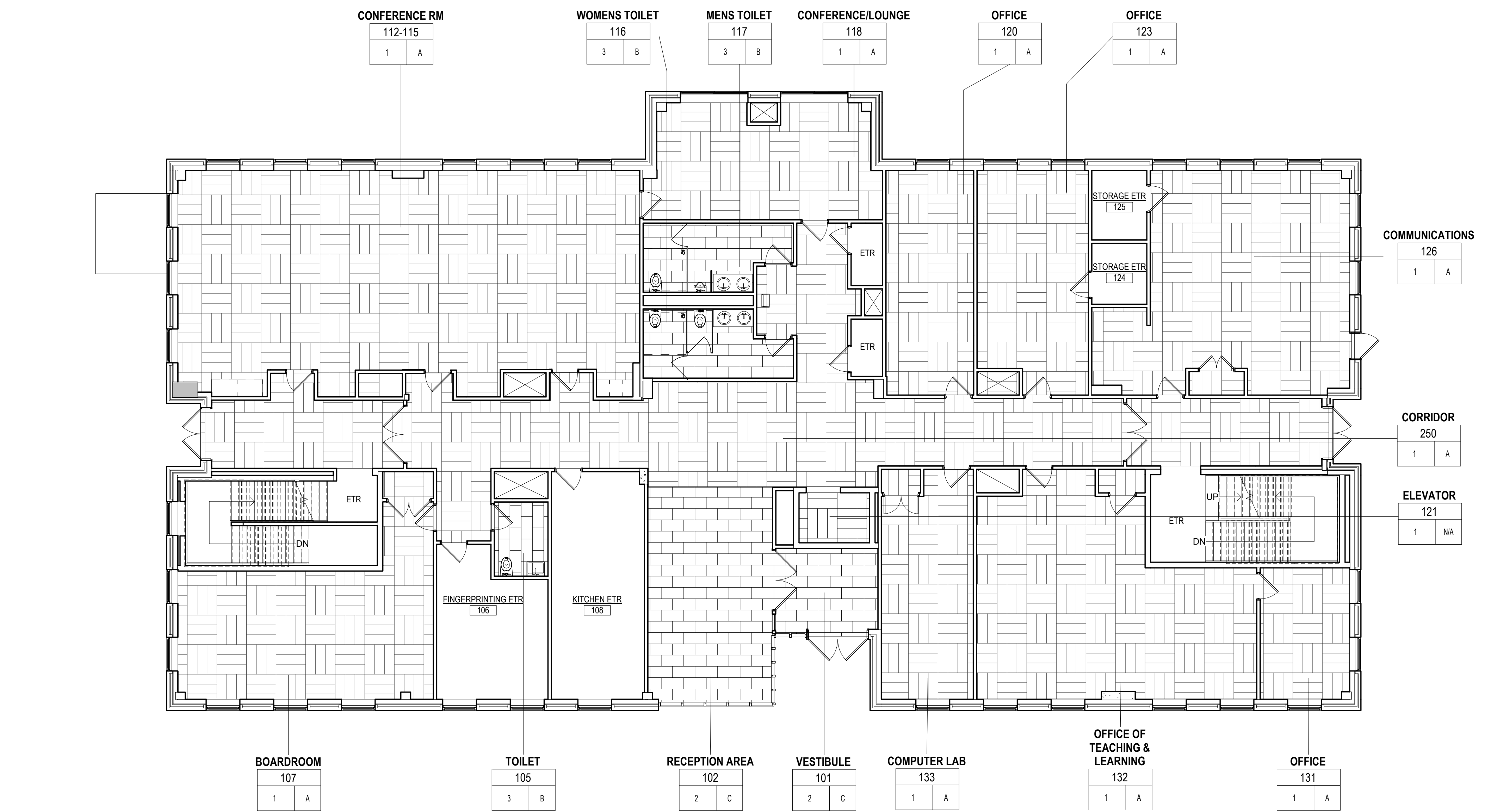
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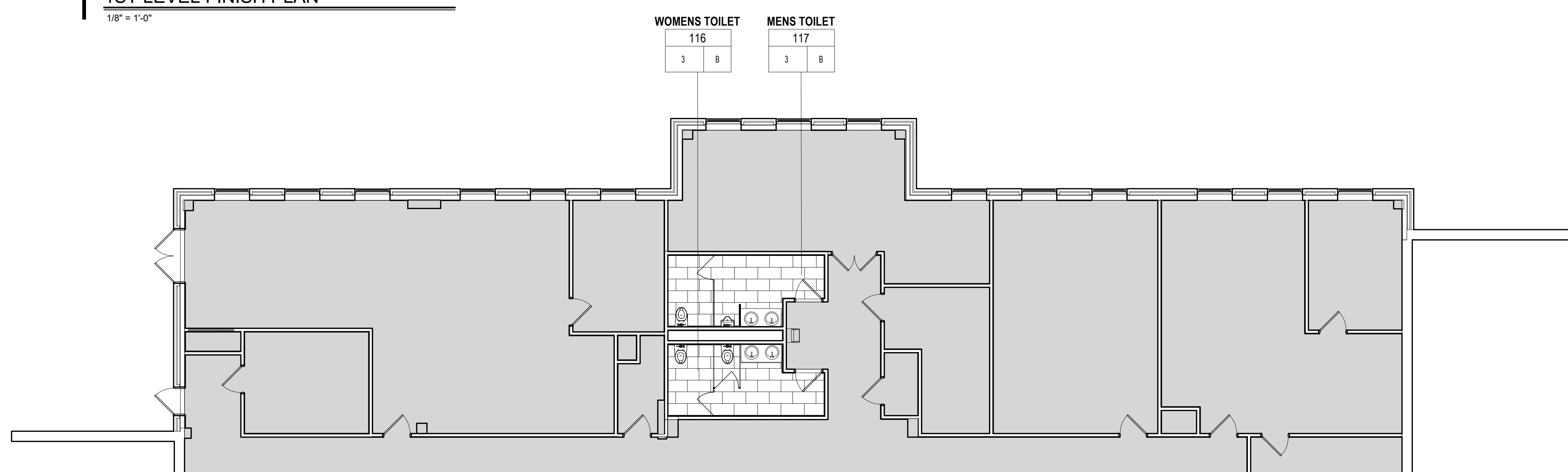
Drawing Title:  
**SECOND LEVEL FLOOR PLAN**

Date: 2024.04.11  
Scale: \_\_\_\_\_  
As indicated  
Drawn By: \_\_\_\_\_  
MF  
Project Number: 23.202

**A112**



**1** 1ST LEVEL FINISH PLAN  
1/8" = 1'-0"



**G** GARDEN LEVEL FINISH PLAN  
1/8" = 1'-0"

**FINISH FLOORING NOTES:**

ROOM NAME	OFFICE	FLOOR FINISH:	WALL BASE:
ROOM NUMBER	101	1. CPT-1	A. RB-1
FLOOR FINISH	# X	2. PFT-1	B. PWB-1
BASE FINISH		3. PFT-2	C. PWB-2

- GENERAL FINISH NOTES:**
- REFER TO FINISH SCHEDULE AND FLOOR PATTERN PLAN FOR GENERAL FINISHES. REFER TO ALL INTERIOR FINISH NOTES, INTERIOR DRAWING (INCLUDING PLANS, ELEVATIONS & DETAILS) AND OWNERS DESIGN STANDARD MANUALS FOR COMPLETE INTERIOR INFORMATION.
  - REFER TO ANSI 117.1 FOR MOUNTING HEIGHTS & FLOOR CLEARANCES. ALIGN TRANSITION OF FLOORING MATERIAL WITH CENTER OF HINGE IN DOORWAY. IN A WRAPPED OPENING WITHOUT HINGES, REFERENCE FINISH PLAN FOR TRANSITION LOCATION.
  - PROVIDE MANUFACTURERS RECOMMENDATIONS FOR TRANSITION BETWEEN UNLIKE FLOORING MATERIALS.
  - FLOOR FINISHES TO EXTEND BENEATH MILLWORK.
  - GC TO INSTALL BASE ON ALL WALLS UNLESS OTHERWISE NOTED.
  - GC TO DETERMINE TAKE OFF QUANTITIES AND ADHESIVE REQUIREMENTS FOR ALL FINISHES.
  - WALL PAINT TO BE DONE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER PHASING IN PAINT INSTALL WHEN APPROPRIATE IN THE CONSTRUCTION SCHEDULE.
  - EXISTING MARBLE TRANSITION TO REMAIN AT MENS & WOMENS RESTROOM ON ALL THREE FLOORS.

- FINISH KEY NOTES:**
- A. INSTALL PORCELAIN PFT-3 UNDER SINK IN ROOM 216 CONFERENCE/LOUNGE WITH FTS-1 TRANSITION.

- FLOORING TRANSITION NOTES:**
- CARPET TO PORCELAIN FROM LOBBY TO CORRIDOR FTS-1
  - CARPET TO PORCELAIN TILE FROM 2ND FLOOR CORRIDOR TO BREAKROOM FTS-1.

**FINISH LEGEND**

**FLOORING:**

[CPT] - CARPET TILE  
[LVT] - LUXURY VINYL TILE  
[PFT] - PORCELAIN FLOOR TILE

**WALL BASE:**

[RB] - RESILIENT BASE  
[PWB] - PORCELAIN WALL BASE

**WALLS:**

[PT] - WALL PAINT TO BE COMPLETED BY OWNER

**CEILING:**

[ACT] ACOUSTICAL CEILING TILE

**CASEWORK:**

[PL] - PLASTIC LAMINATE  
[SS] - SOLID SURFACE

Project Title:  
**INTERIOR RENOVATION  
LEARN REGIONAL SERVICE CENTER**  
44 HATCHETTS HILL RD  
OLD LYME, CT 06371

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Revision:	Description:	Date:	Revised By:

Drawing Title:  
**GARDEN LEVEL & FIRST LEVEL  
FINISH PLANS**

Date: 2024.04.11  
Scale: \_\_\_\_\_  
As Issued  
Drawn By: TJT  
Project Number: 23.202  
Drawing Number: **A210**



**FINISH FLOORING NOTES:**

ROOM NAME	OFFICE	FLOOR FINISH	WALL BASE
ROOM NUMBER	101	1. CPT-1	A. RB-1
FLOOR FINISH	# X	2. PFT-1	B. PWB-1
BASE FINISH		3. PFT-2	C. PWB-2

**GENERAL FINISH NOTES:**

- REFER TO FINISH SCHEDULE AND FLOOR PATTERN PLAN FOR GENERAL FINISHES. REFER TO ALL INTERIOR FINISH NOTES, INTERIOR DRAWING (INCLUDING PLANS, ELEVATIONS & DETAILS) AND OWNERS DESIGN STANDARD MANUALS FOR COMPLETE INTERIOR INFORMATION.
- REFER TO ANSI 117.1 FOR MOUNTING HEIGHTS & FLOOR CLEARANCES.
- ALIGN TRANSITION OF FLOORING MATERIAL WITH CENTER OF HINGE IN DOORWAY, IN A WRAPPED OPENING WITHOUT HINGES. REFERENCE FINISH PLAN FOR TRANSITION LOCATION.
- PROVIDE MANUFACTURERS RECOMMENDATIONS FOR TRANSITION BETWEEN UNLIKE FLOORING MATERIALS.
- FLOOR FINISHES TO EXTEND BENEATH MILLWORK.
- GC TO INSTALL BASE ON ALL WALLS UNLESS OTHERWISE NOTED.
- GC TO DETERMINE TAKE OFF QUANTITIES AND ADHESIVE REQUIREMENTS FOR ALL FINISHES.
- WALL PAINT TO BE DONE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER PHASING IN PAINT INSTALL WHEN APPROPRIATE IN THE CONSTRUCTION SCHEDULE.
- EXISTING MARBLE TRANSITION TO REMAIN AT MENS & WOMENS RESTROOM ON ALL THREE FLOORS.

**FINISH KEY NOTES:**

- A. INSTALL PORCELAIN PFT-3 UNDER SINK IN ROOM 216 CONFERENCE/LOUNGE WITH FTS-1 TRANSITION.

**FLOORING TRANSITION NOTES:**

- CARPET TO PORCELAIN FROM LOBBY TO CORRIDOR FTS-1
- CARPET TO PORCELAIN TILE FROM 2ND FLOOR CORRIDOR TO BREAKROOM FTS-1.

**FINISH LEGEND**

**FLOORING:**

- [CPT] - CARPET TILE
- [LVT] - LUXURY VINYL TILE
- [PFT] - PORCELAIN FLOOR TILE

**WALL BASE:**

- [RB] - RESILIENT BASE
- [PWB] - PORCELAIN WALL BASE

**WALLS:**

- [PT] - WALL PAINT TO BE COMPLETED BY OWNER

**CEILING:**

- [ACT] ACOUSTICAL CEILING TILE

**CASEWORK:**

- [PL] - PLASTIC LAMINATE
- [SS] - SOLID SURFACE



**2 2ND LEVEL FINISH PLAN**  
1/8" = 1'-0"



Revision:	Description:	Date:	Revised By:

FURNITURE NOTES:

- FOR REFERENCE ONLY



**1** 1ST LEVEL FURNITURE PLAN  
1/8" = 1'-0"

Project Title:  
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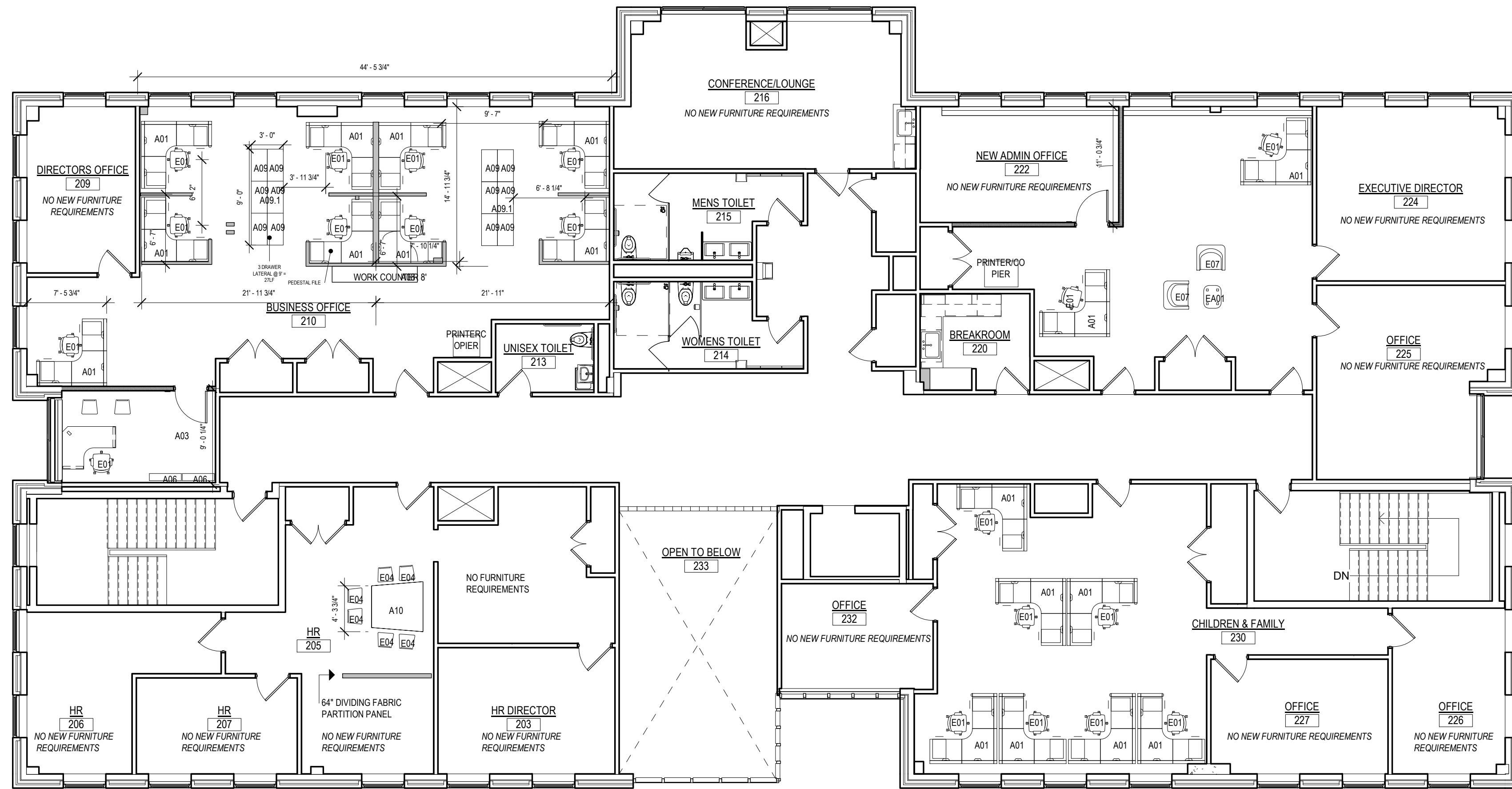
Revision:	Description:	Date:	Revised By:

Drawing Title:  
**FIRST LEVEL REFERENCE  
 FURNITURE PLAN**

Date: 2024.04.11  
 Scale: \_\_\_\_\_  
 As indicated  
 Drawn By: \_\_\_\_\_  
 TJT  
 Project Number: 23.202  
 Drawing Number: **A230**

FURNITURE NOTES:

- FOR REFERENCE ONLY



**2** 2ND LEVEL FURNITURE PLAN  
1/8" = 1'-0"

Project Title:  
**INTERIOR RENOVATION  
 LEARN REGIONAL SERVICE CENTER**  
 44 HATCHETTS HILL RD  
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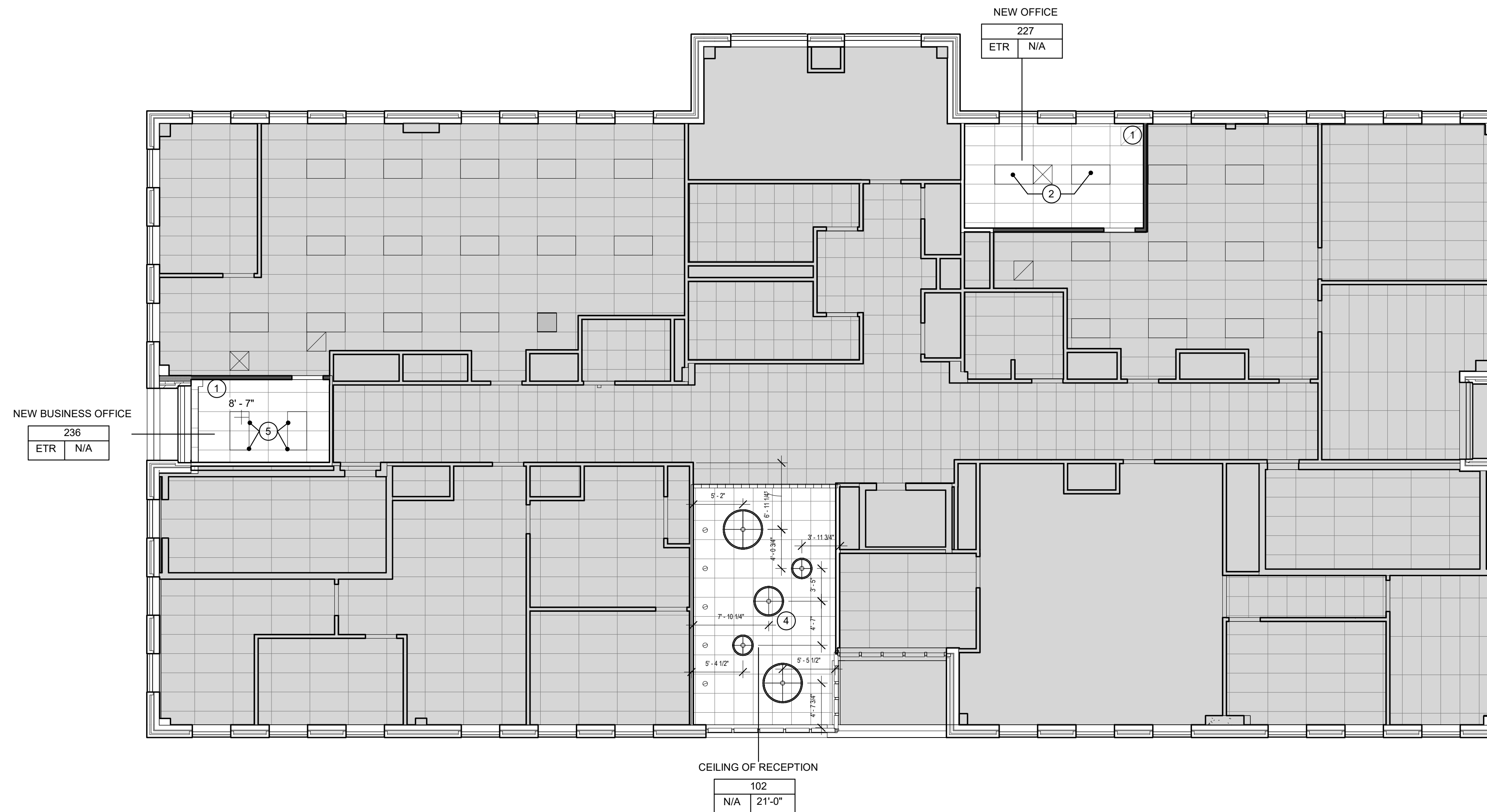


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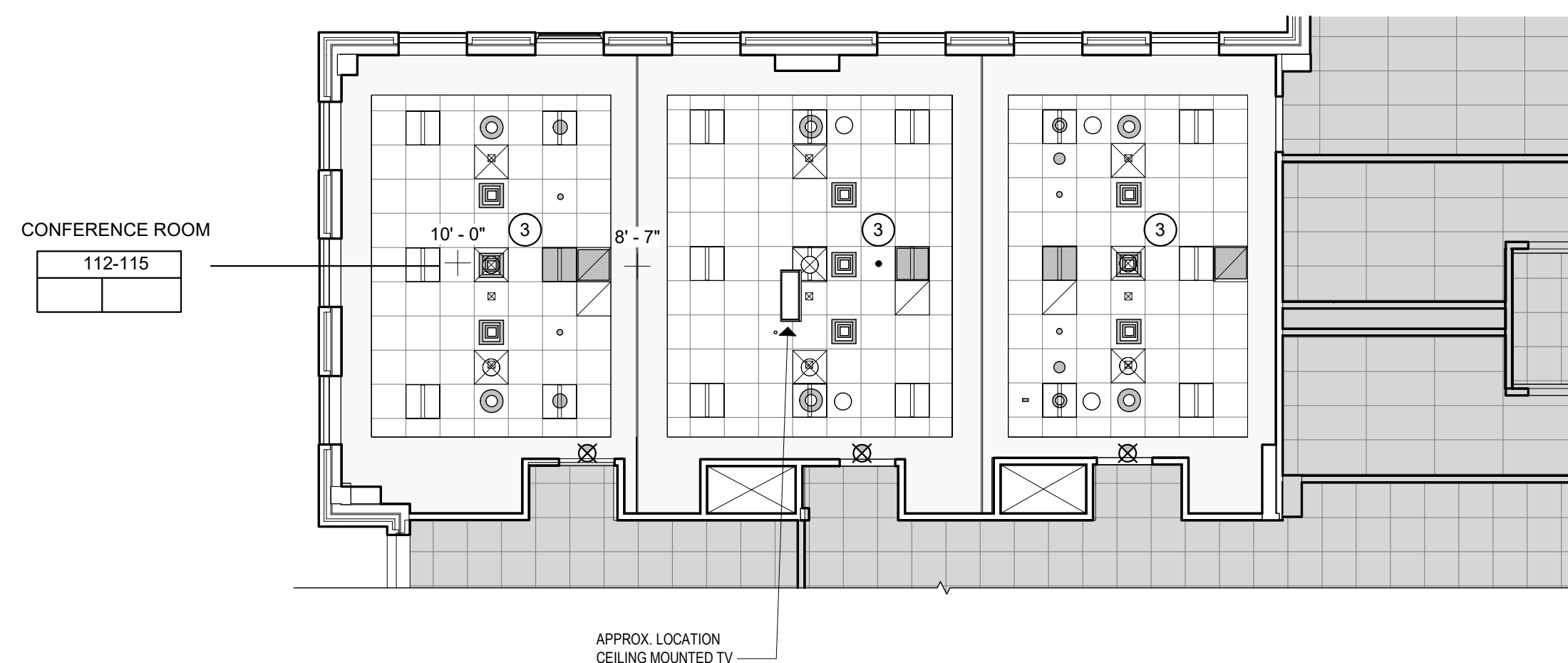
Revision:	Description:	Date:	Revised By:

Drawing Title:  
**SECOND LEVEL REFERENCE  
 FURNITURE PLAN**

Date: 2024.04.11  
 Scale: As indicated  
 Drawn By: TJT  
 Project Number: 23.202  
 Drawing Number: **A231**

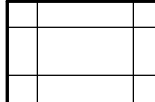
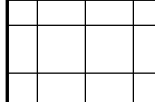



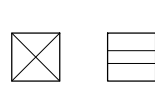






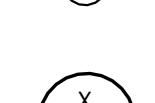


**2 2ND LEVEL RCP**  
1/8" = 1'-0"



**1 1ST LEVEL RCP**  
1/8" = 1'-0"

**RCP SYMBOL LEGEND**

-  - 2' X 4' ACOUSTICAL CEILING TILES & GRID W/ SUPPORTS
-  - 2' X 2' ACOUSTICAL CEILING TILES & GRID W/ SUPPORTS
-  - PAINTED GYPSUM BOARD CEILING
-  - EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
-  - RECESSED LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS
-  - 2' X 2' LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
-  - PENDENT STYLE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
-  - SUPPLY DIFFUSER, REFER TO MECHANICAL DRAWINGS
-  - RETURN DIFFUSER, REFER TO MECHANICAL DRAWINGS
-  - CONCEALED SPINKLER HEAD, REFER TO FIRE PROTECTION DRAWINGS
-  - EXPOSED SPINKLER HEAD, REFER TO FIRE PROTECTION DRAWINGS
-  - CONSTRUCTION NOTE
-  - PLAN/SECTION/DETAIL NUMBER  
- SHEET NUMBER

**RCP GENERAL LEGEND**

ROOM NAME	ROOM	CEILING FINISH TYPE
ROOM NUMBER	###	A. 2X4 ACT-1
CEILING FINISH	X 0'-0"	B. 2X2 ACT-2
CEILING HEIGHT		C. GWB-1

GENERAL NOTES:  
1. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION  
2. CONSULT MECHANICAL AND ELECTRICAL RCP.

**RCP CONSTRUCTION KEYNOTES**

CONSTRUCTION NOTES - RCP	
1	CUT EXISTING ACT GRID TO ACCOMMODATE NEW WALL. SEE PARTITION TYPES FOR SPECIFICATIONS.
2	REPLACE EXISTING 2X4 CEILING LIGHTS WITH NEW. SEE ELECTRICAL PLAN FOR DETAILS.
3	RELOCATE EXISTING CEILING ACCESSORIES TO ACCOMMODATE NEW 2X2 LIGHTS. SEE ELECTRICAL PLAN.
4	INSTALL FIVE NEW CEILING PENDANTS. SEE ELECTRICAL PLAN FOR DETAILS.
5	REPLACE EXISTING 2X4 CEILING LIGHTS WITH NEW 2X2 LIGHTS. SEE ELECTRICAL PLAN FOR DETAILS.

Project Title:  
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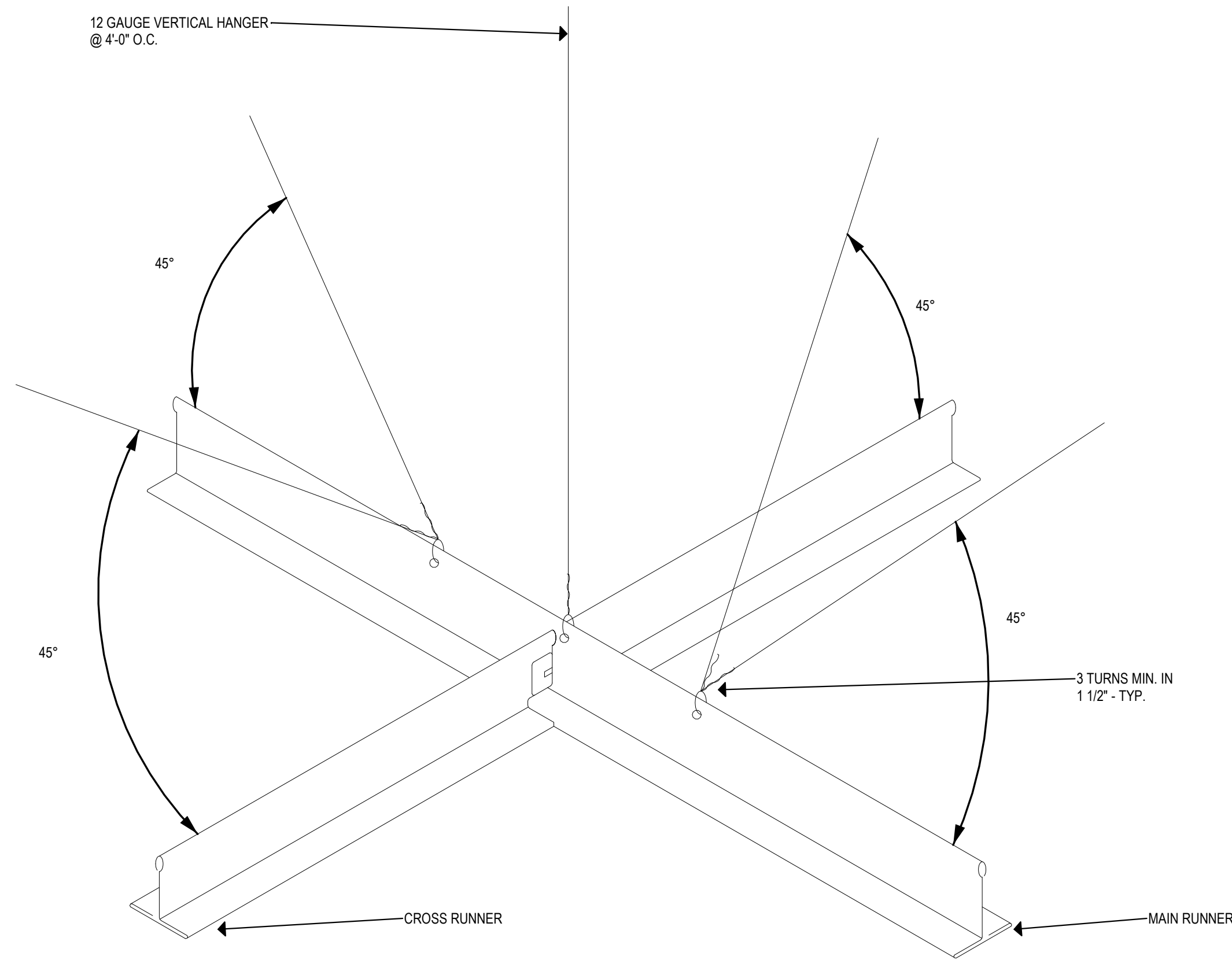
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Revision:	Description:	Date:	Revised By:

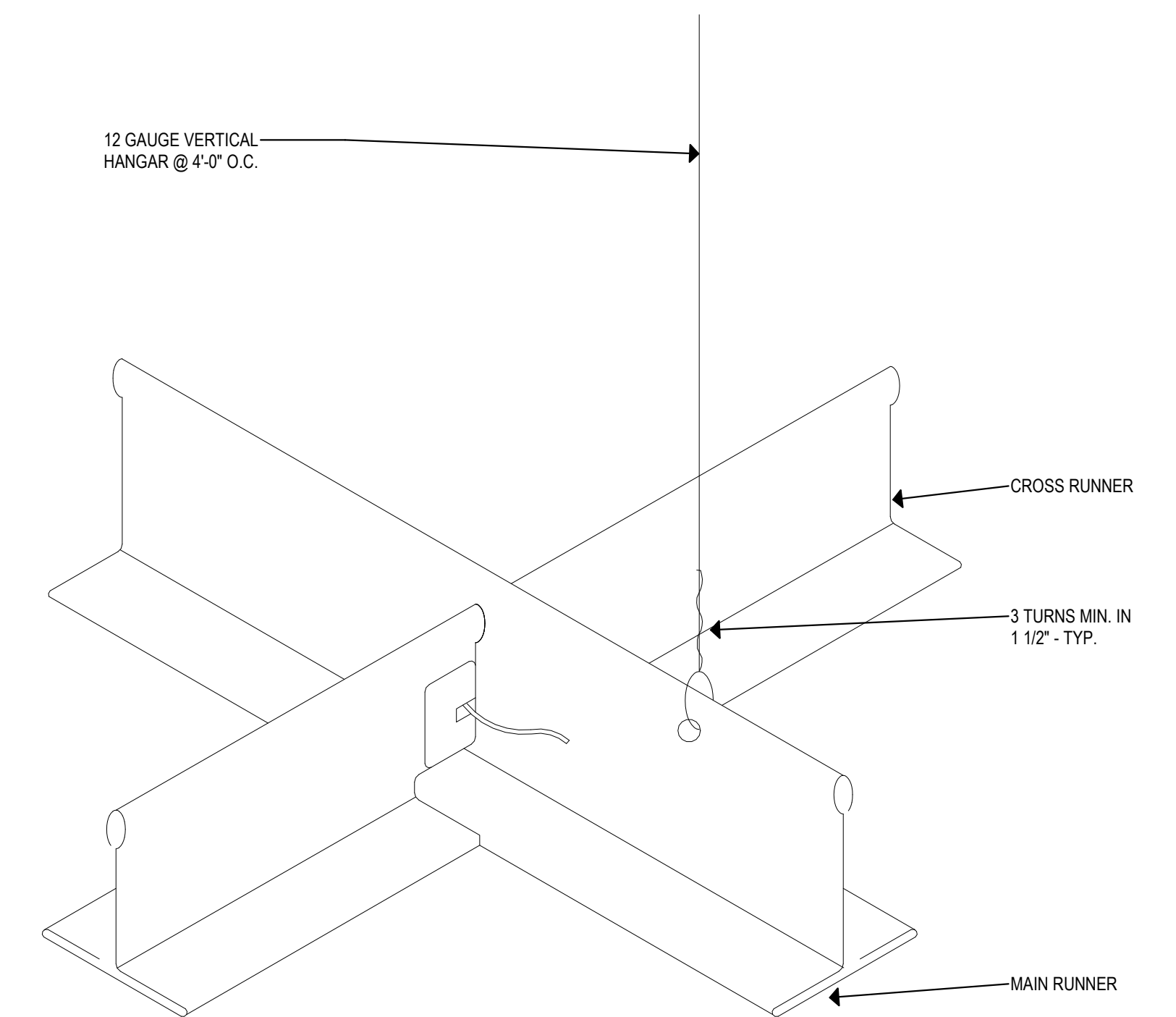
Drawing Title:  
**FIRST & SECOND LEVEL  
REFLECTED CEILING PLAN**

Date: 2024.04.11  
Scale: \_\_\_\_\_  
As Indicated  
Drawn By: TJT  
Project Number: 23.202

**A250**



**1 SEISMIC BRACING DETAIL**  
3" = 1'-0"



NOTE:  
BRACING TO OCCUR @  
4'-0" O.C. - TYP.

Project Title:  
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Revision:	Description:	Date:	Revised By:

Drawing Title:  
**CEILING DETAILS**

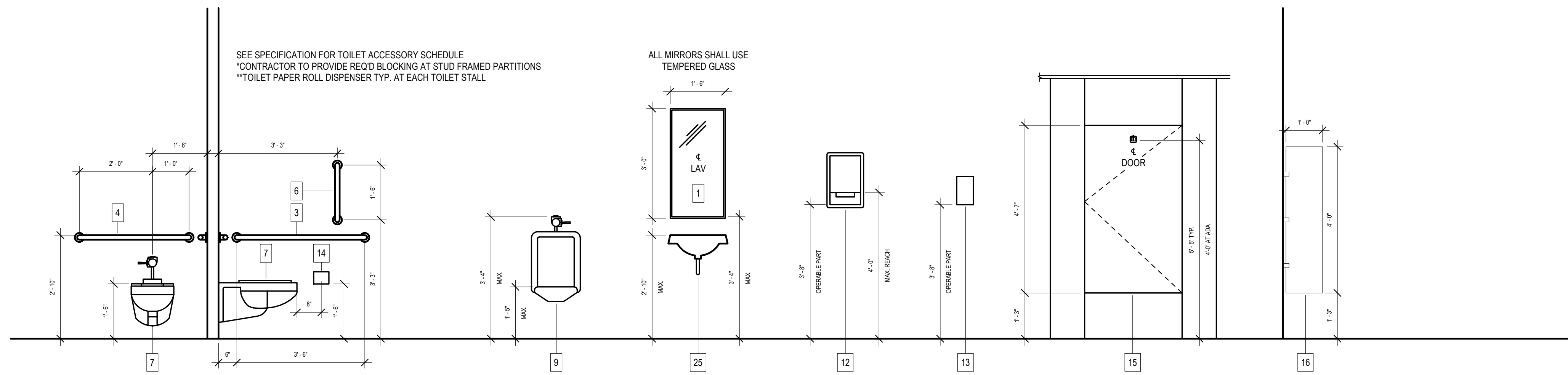
Date: 2024.04.11  
Scale: 3" = 1'-0"  
Drawn By: MF  
Project Number: 23.202

Drawing Number:  
**A260**



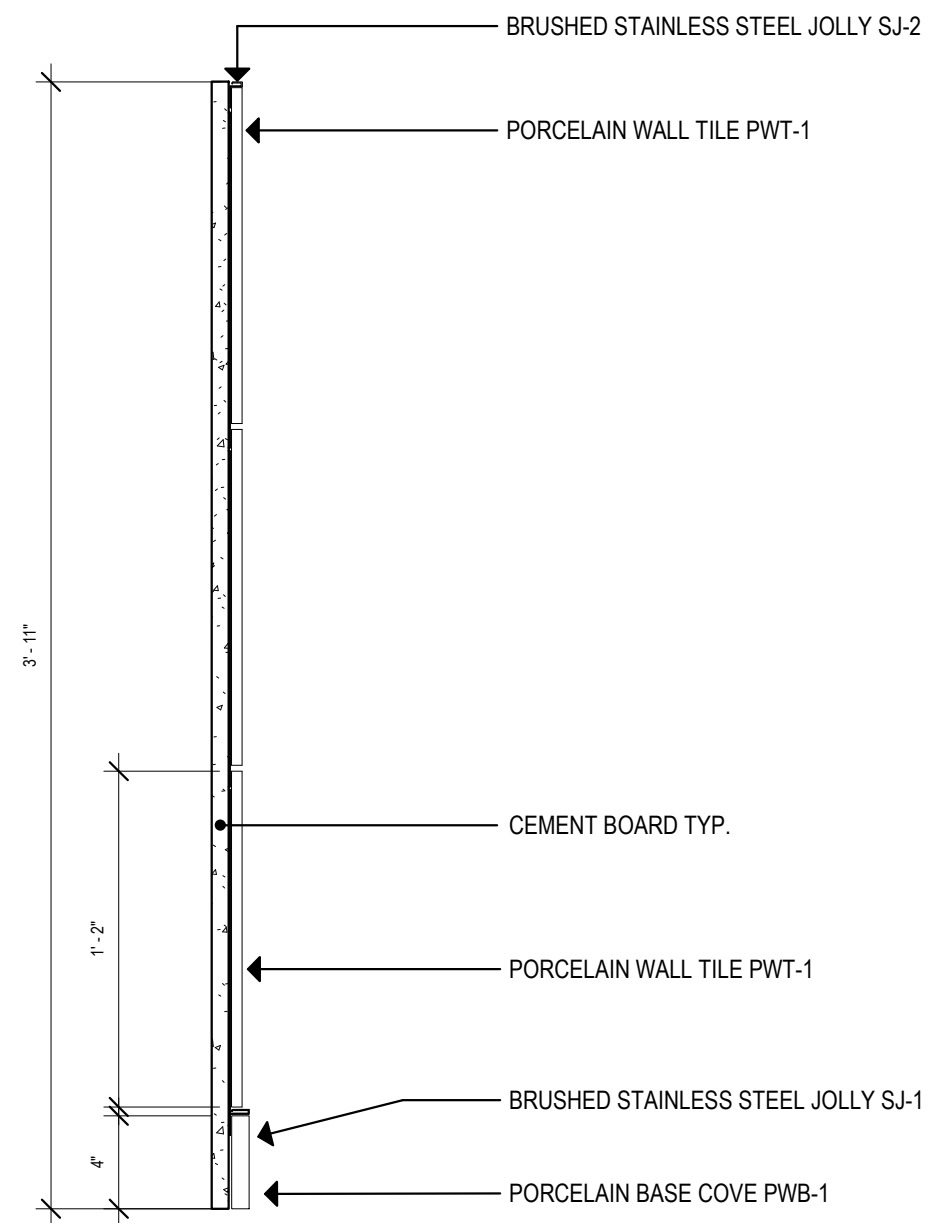
**TOILET ACCESSORIES**

1	4' X 3' 6" MIRROR (CENTER ON LAV)
2	2x4 MIRROR PROJECT SOURCE BEVELED MODEL #81658 (BASIS FOR DESIGN)
3	42" HORZ GRAB BAR
4	36" HORZ GRAB BAR
5	24" HORZ GRAB BAR
6	18" VERT. GRAB BAR
7	WALL MOUNTED H.C. WATER CLOSET (18" TO TOP OF SEAT)
8	BRADLEY DIPLOMAT LIQUID SOAP DISPENSER MODEL 6A03-11
9	WALL MOUNTED H.C. URINAL (17" TO RIM)
12	SURFACE MTD. H.C. PAPER TOWEL DISPENSER
13	1'-8" X 3'-0" MIRROR (CENTER ON LAV)
14	SURFACE MOUNTED H.C. TOILET PAPER DISPENSER
15	TOILET PARTITIONS: SEE FINISH SCHEDULE
16	URINAL SCREEN: SEE FINISH SCHEDULE
20	SANITARY NAPKIN DISPOSAL BRADLEY
21	LAV GUARD
22	BRADLEY OMMI SINK AND FAUCET SYSTEM. REFER TO PLUMBING DWG FOR ADDITIONAL INFORMATION
25	WALL MOUNTED H.C. LAV (2'-10" TO TOP)

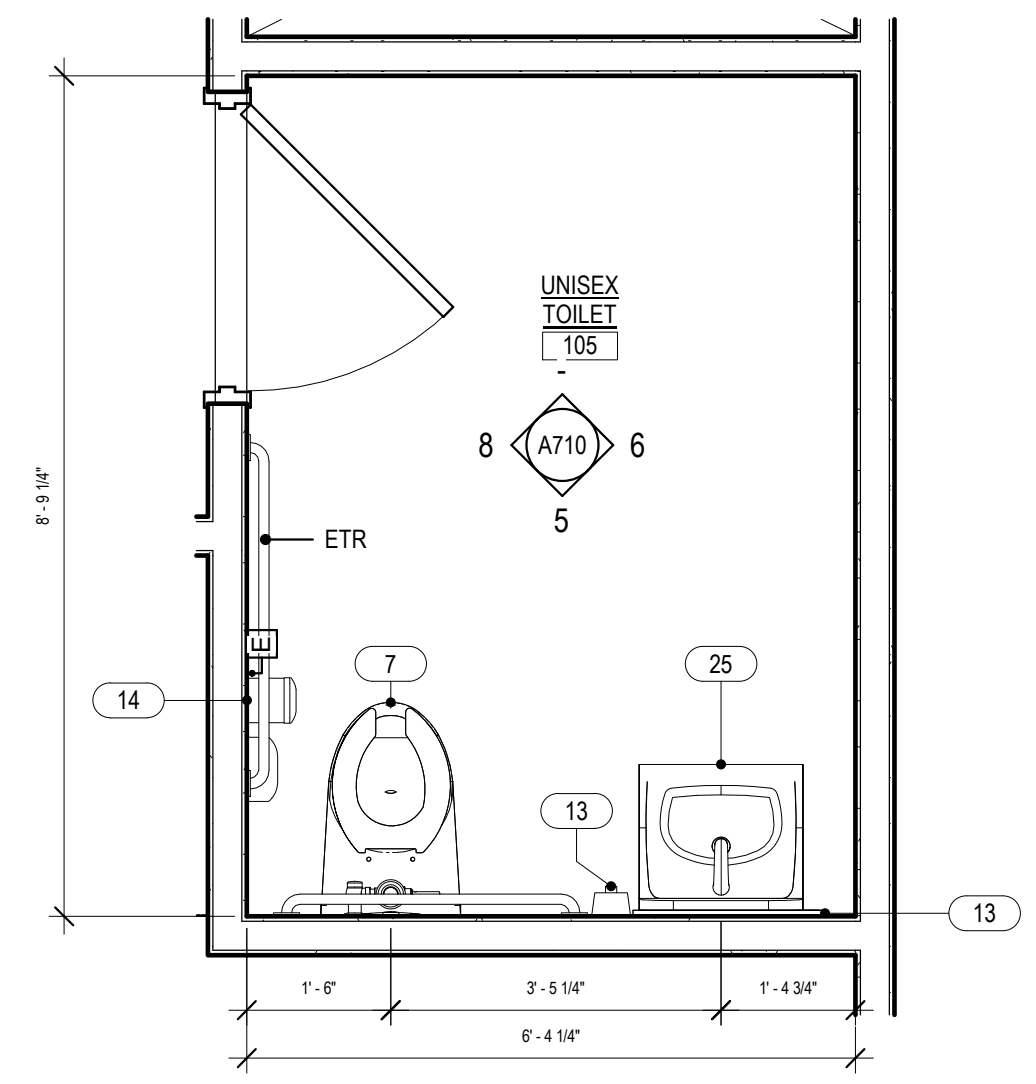


**ADA MOUNTING DIMENSIONS**

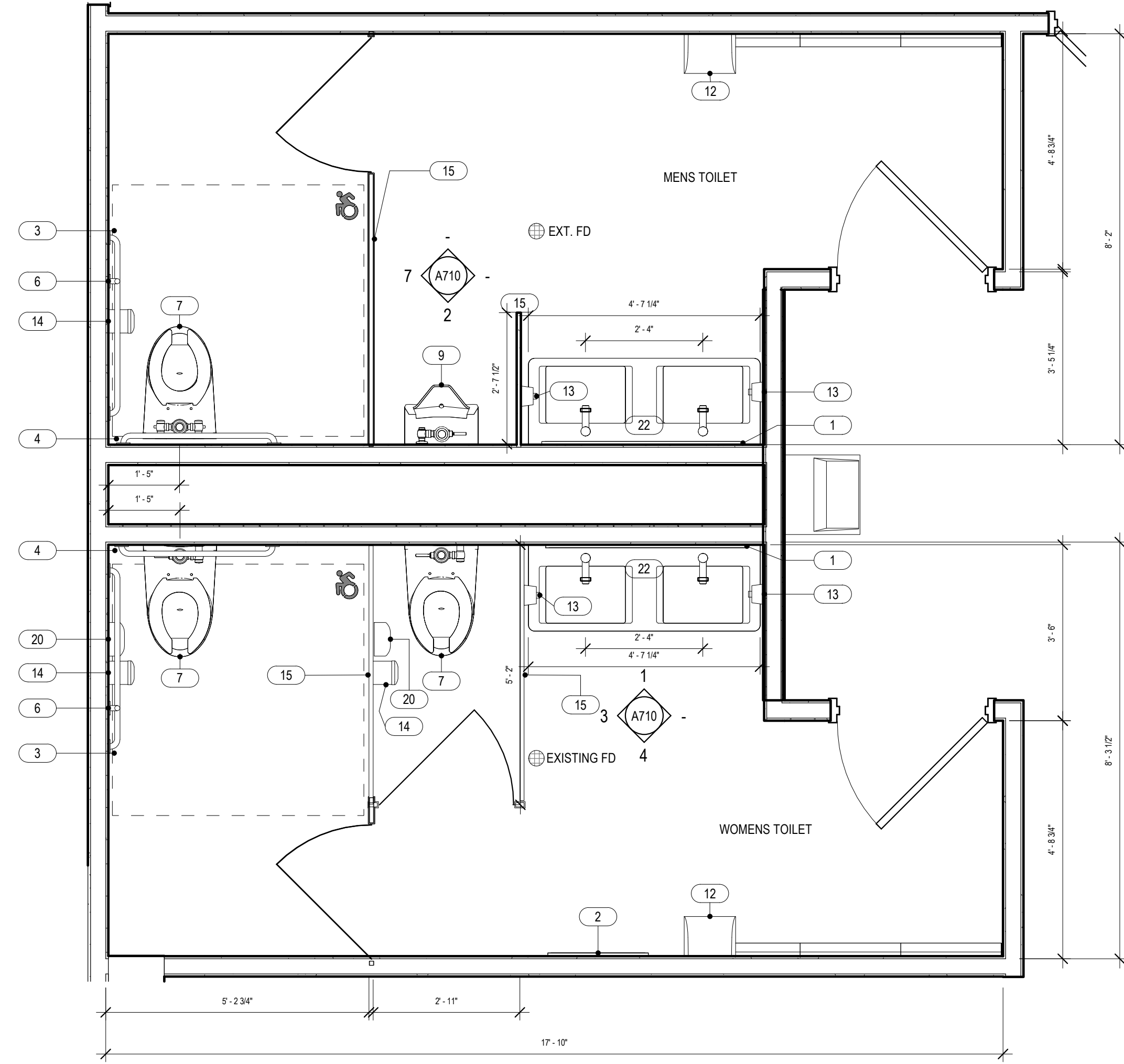
1/2" = 1'-0"



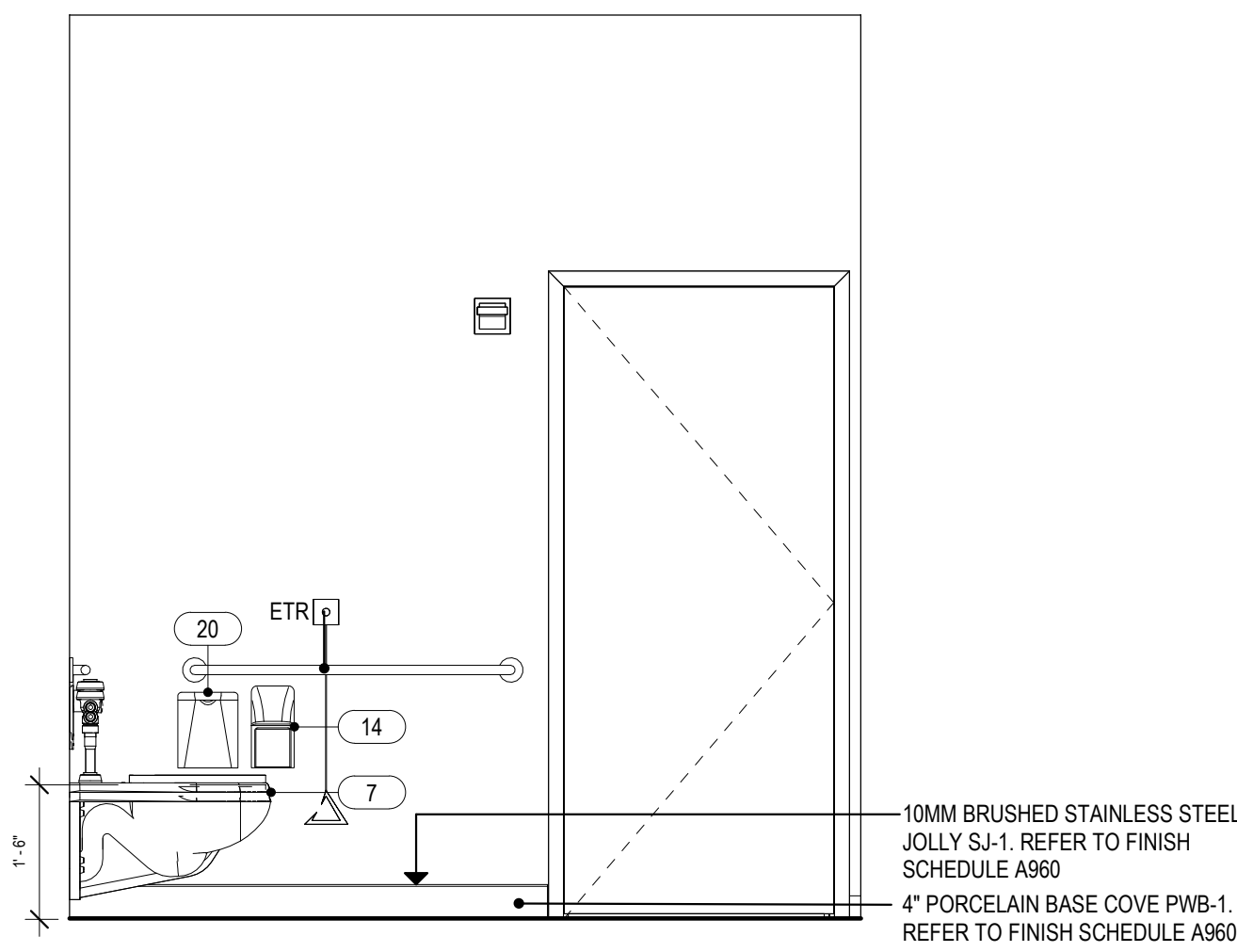
**3 TOILET ROOM WALL TILE & BASE COVE DETAIL**  
1/2" = 1'-0" REFERENCE: 1/A710



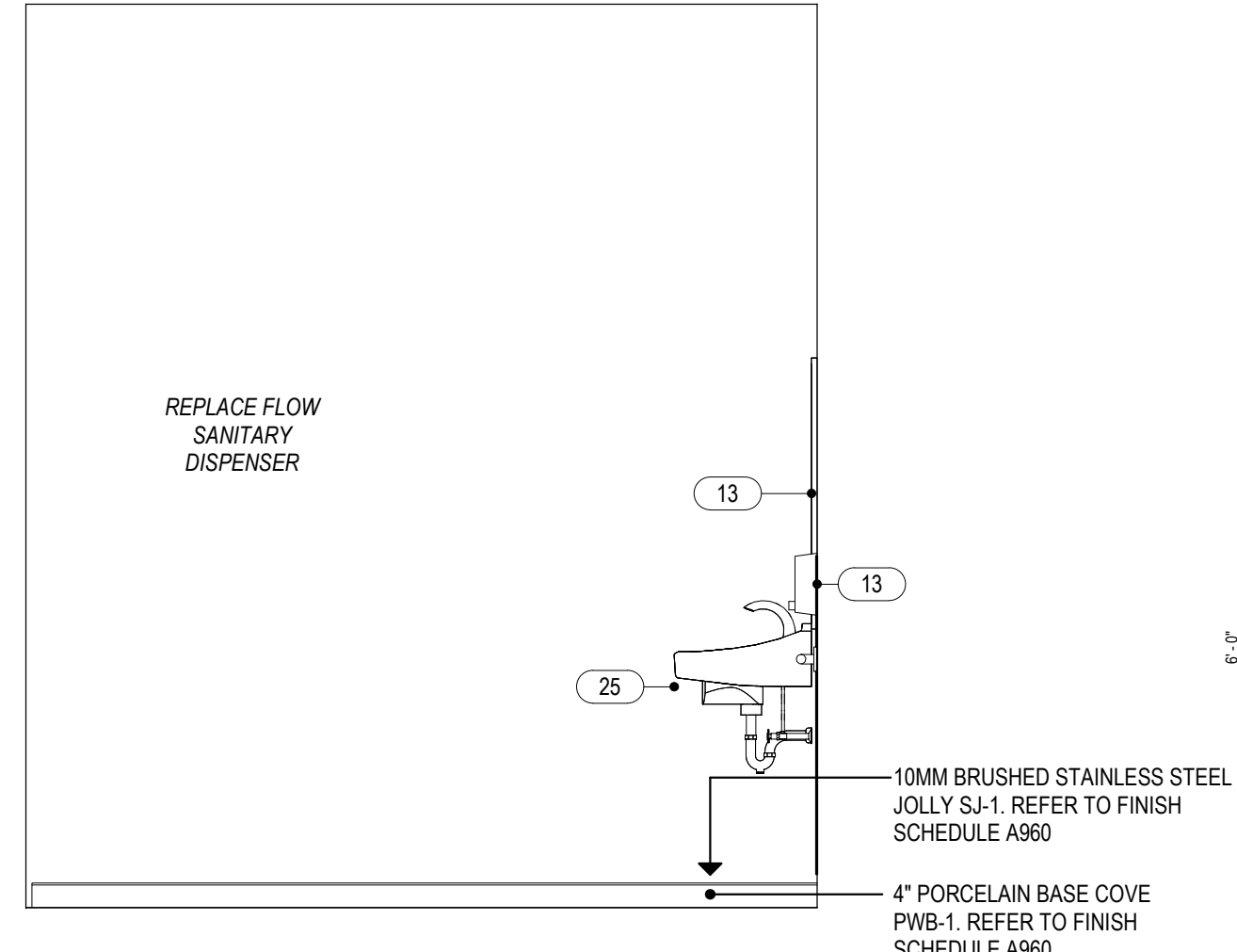
**2 UNISEX TOILET**  
1/2" = 1'-0" REFERENCE: 1/A110



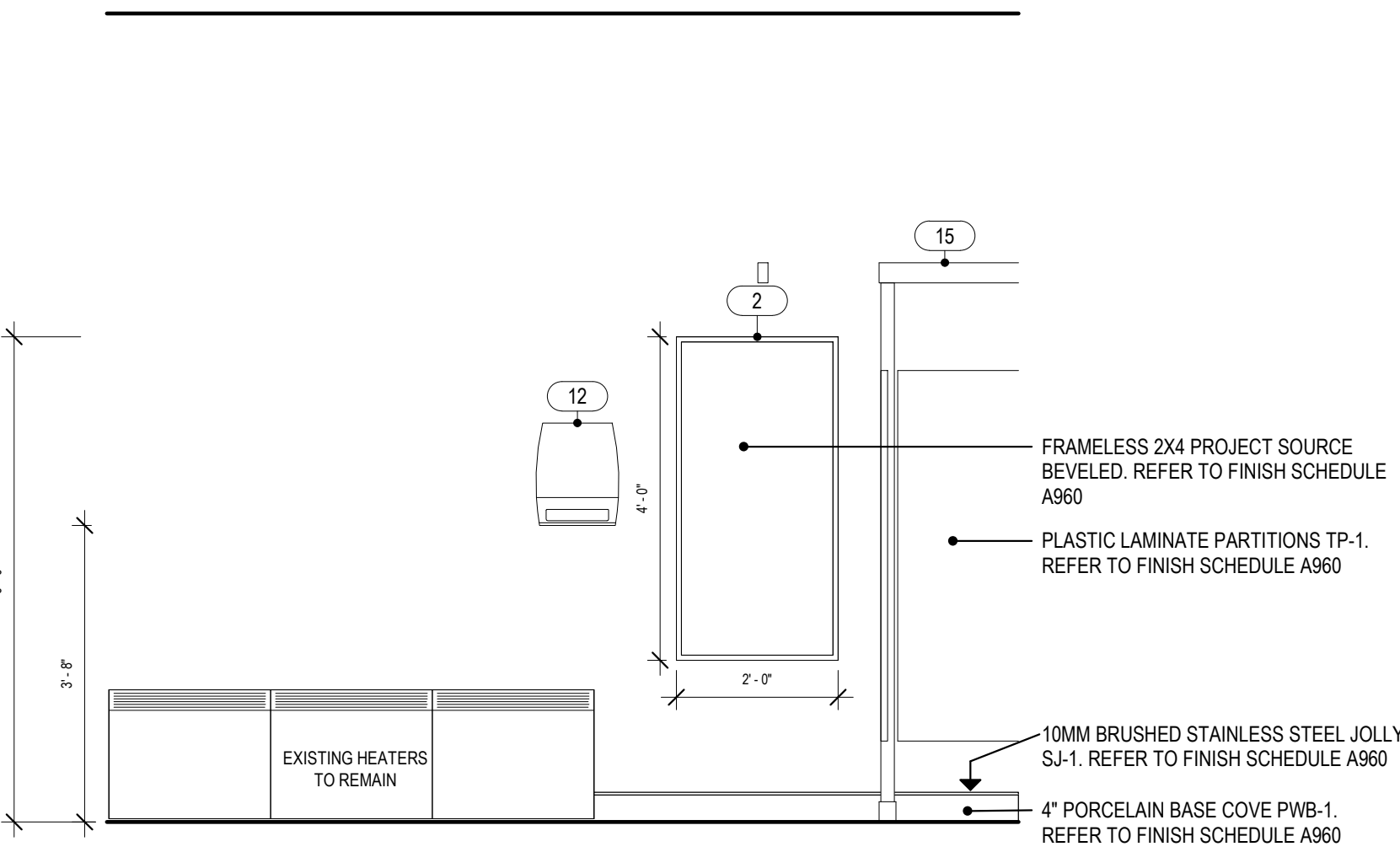
**1 MENS & WOMENS TOILET ROOM CALLOUT**  
1/2" = 1'-0" REFERENCE: 1/A110



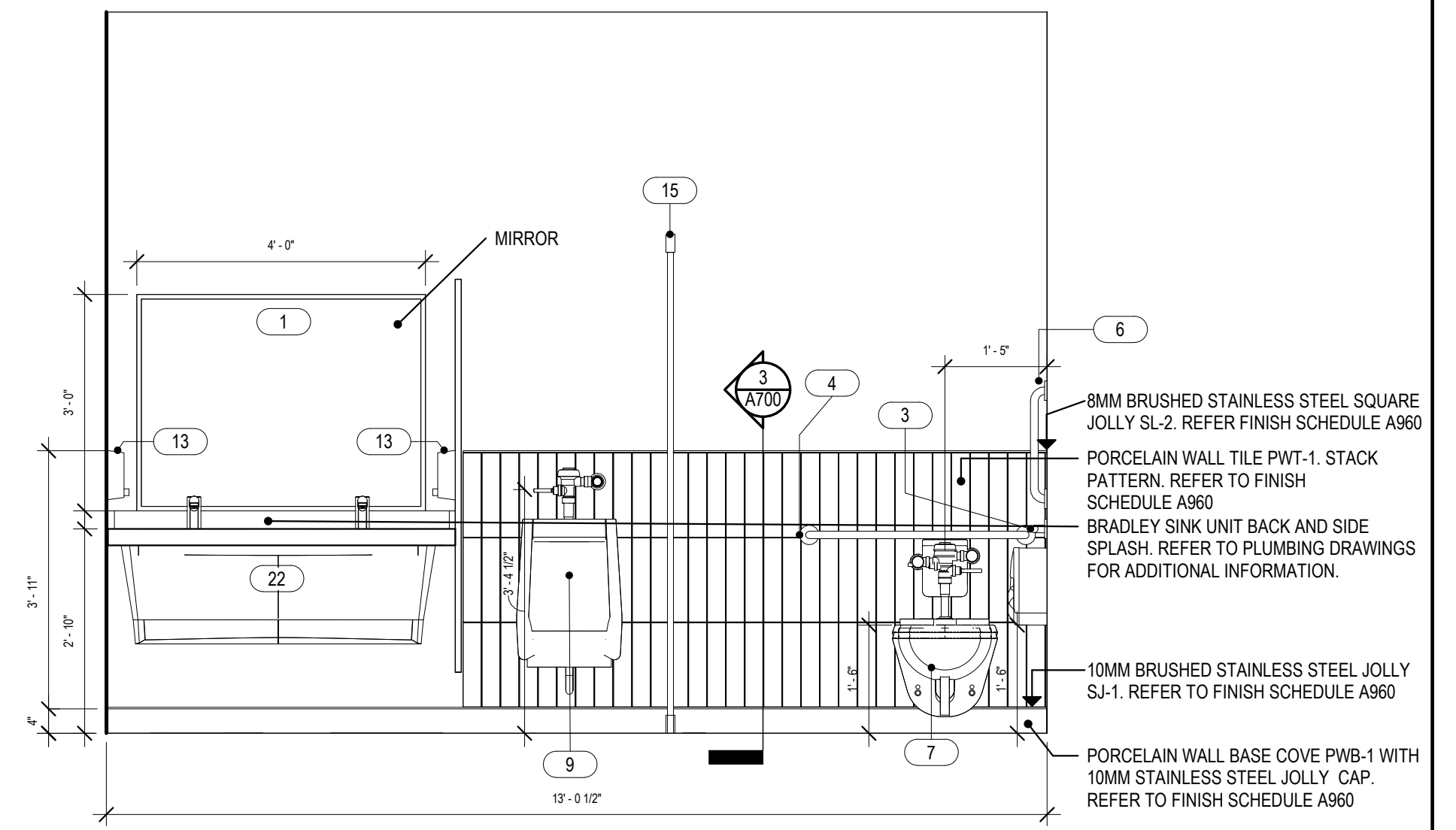
**8 UNISEX TOILET NORTH ELEVATION**  
1/2" = 1'-0" REFERENCE: 1/ A110



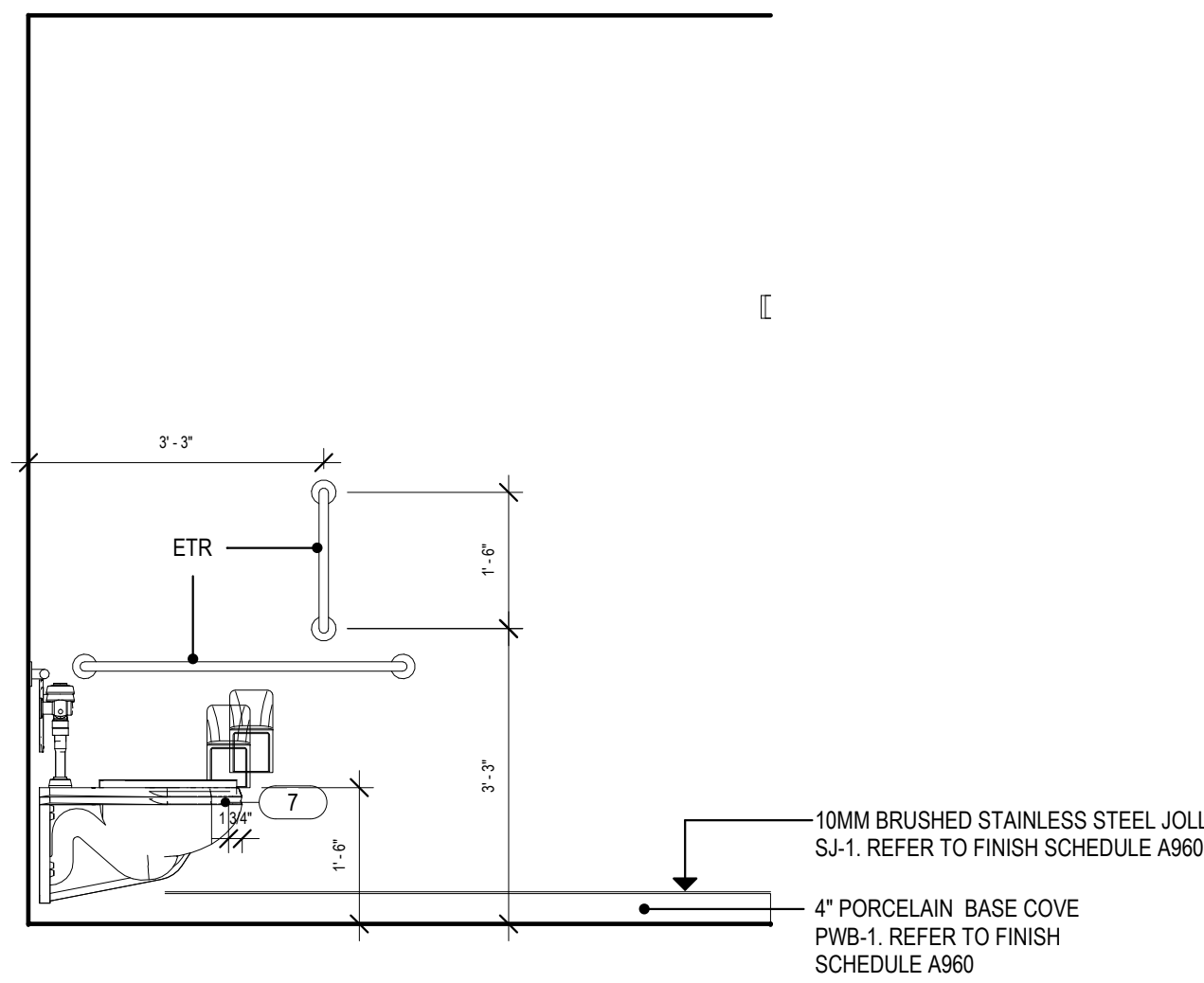
**6 UNISEX TOILET SOUTH ELEVATION**  
1/2" = 1'-0" REFERENCE: 1/ A110



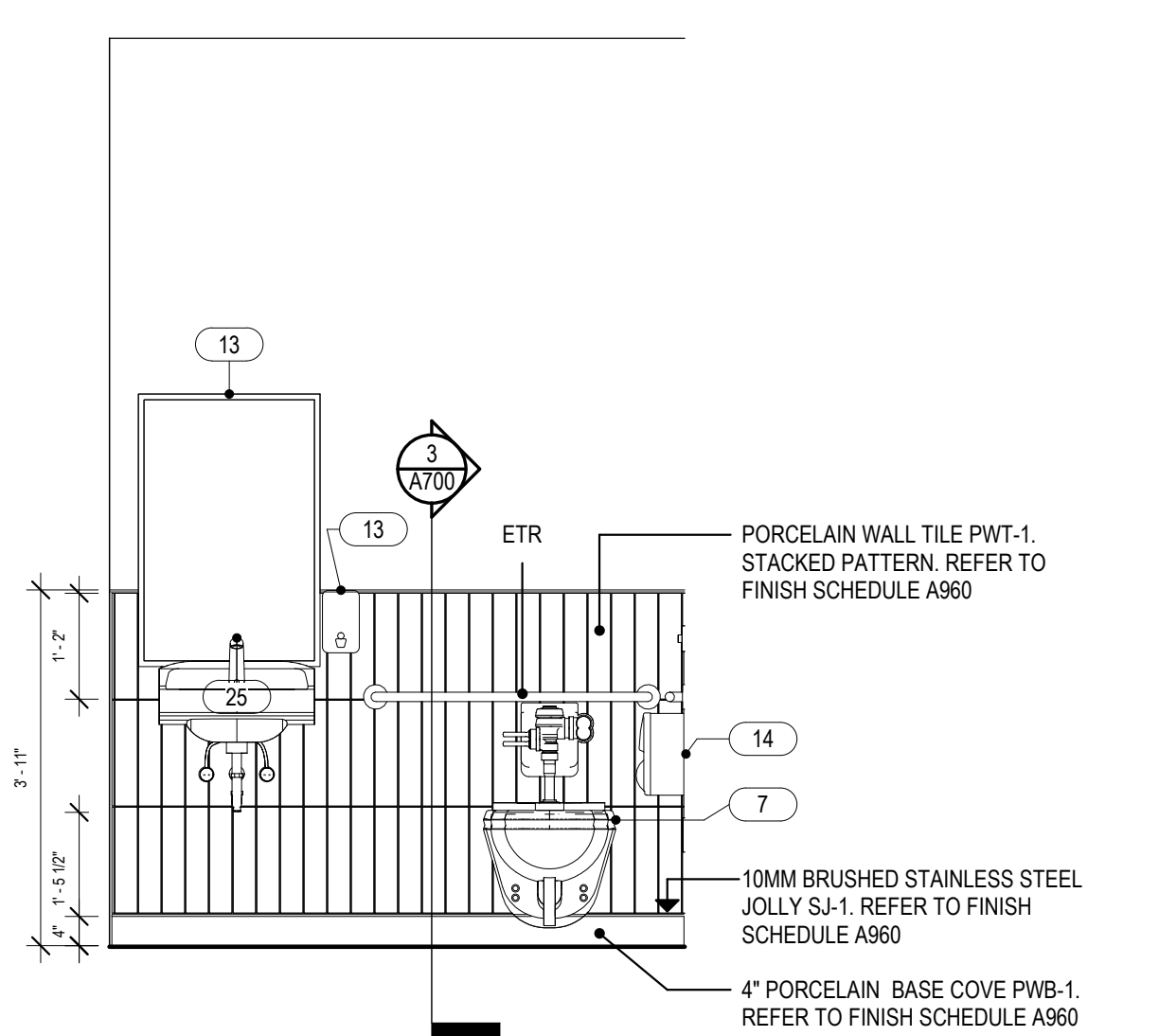
**4 WOMENS TOILET WEST ELEVATION**  
1/2" = 1'-0" REFERENCE: 1/ A110



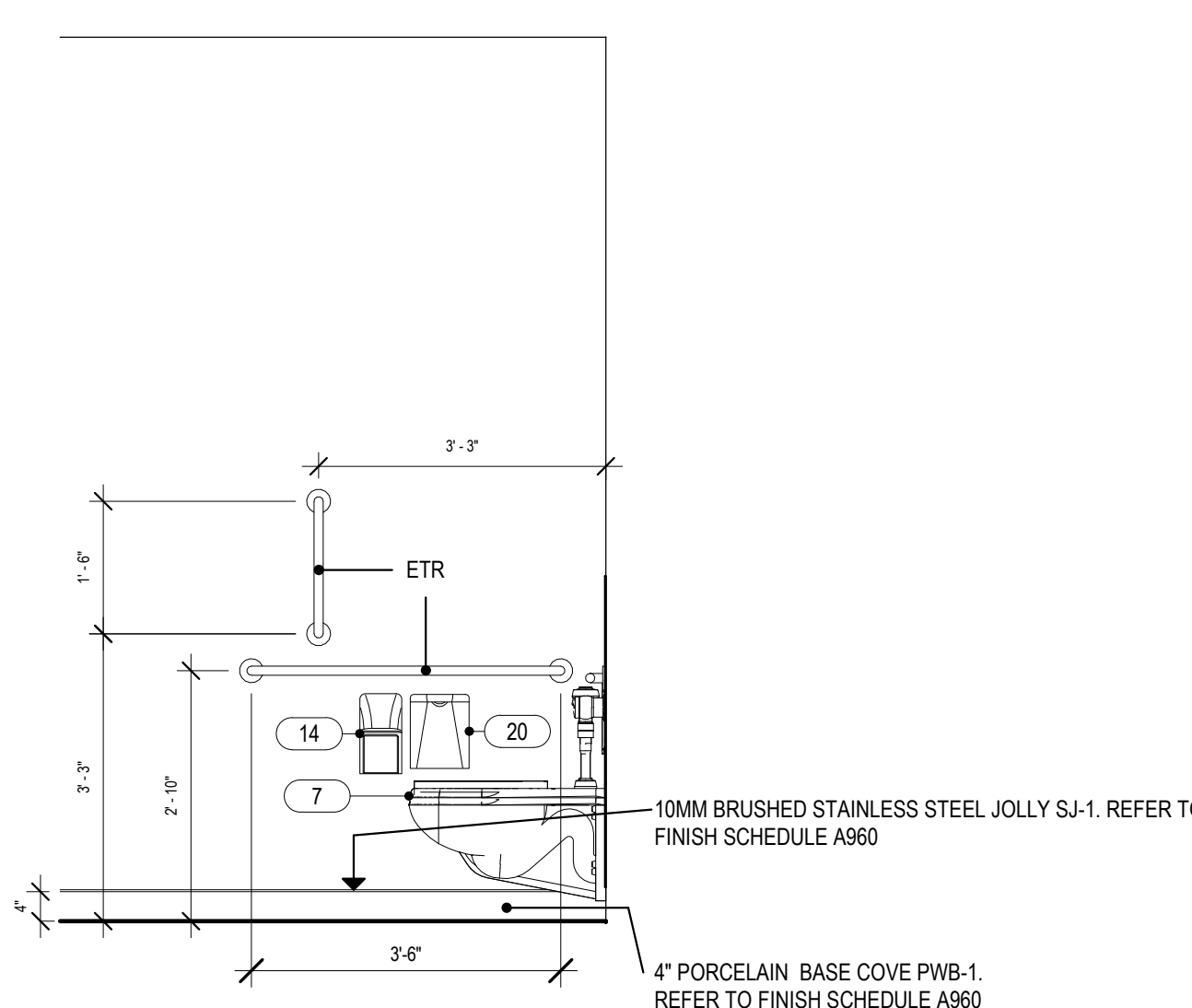
**2 MENS TOILET WEST ELEVATION**  
1/2" = 1'-0" REFERENCE: 1/ A110



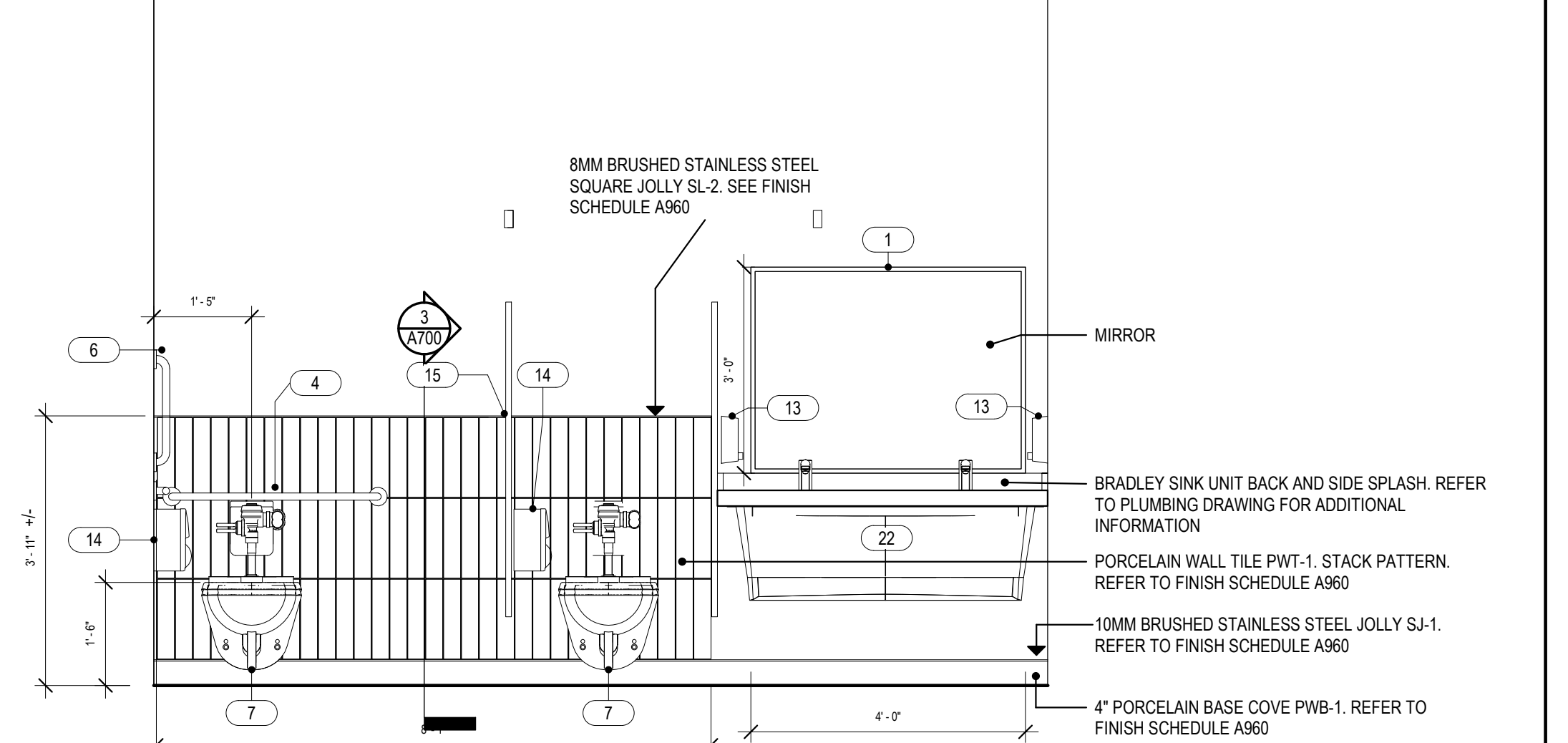
**7 MENS TOILET NORTH ELEVATION**  
1/2" = 1'-0" REFERENCE: 1/ A110



**5 UNISEX TOILET WEST ELEVATION**  
1/2" = 1'-0" REFERENCE: 1/ A110



**3 WOMENS TOILET NORTH ELEVATION**  
1/2" = 1'-0" REFERENCE: 1/ A110



**1 WOMENS TOILET EAST ELEVATION**  
1/2" = 1'-0" REFERENCE: 1/ A110

Project Title:  
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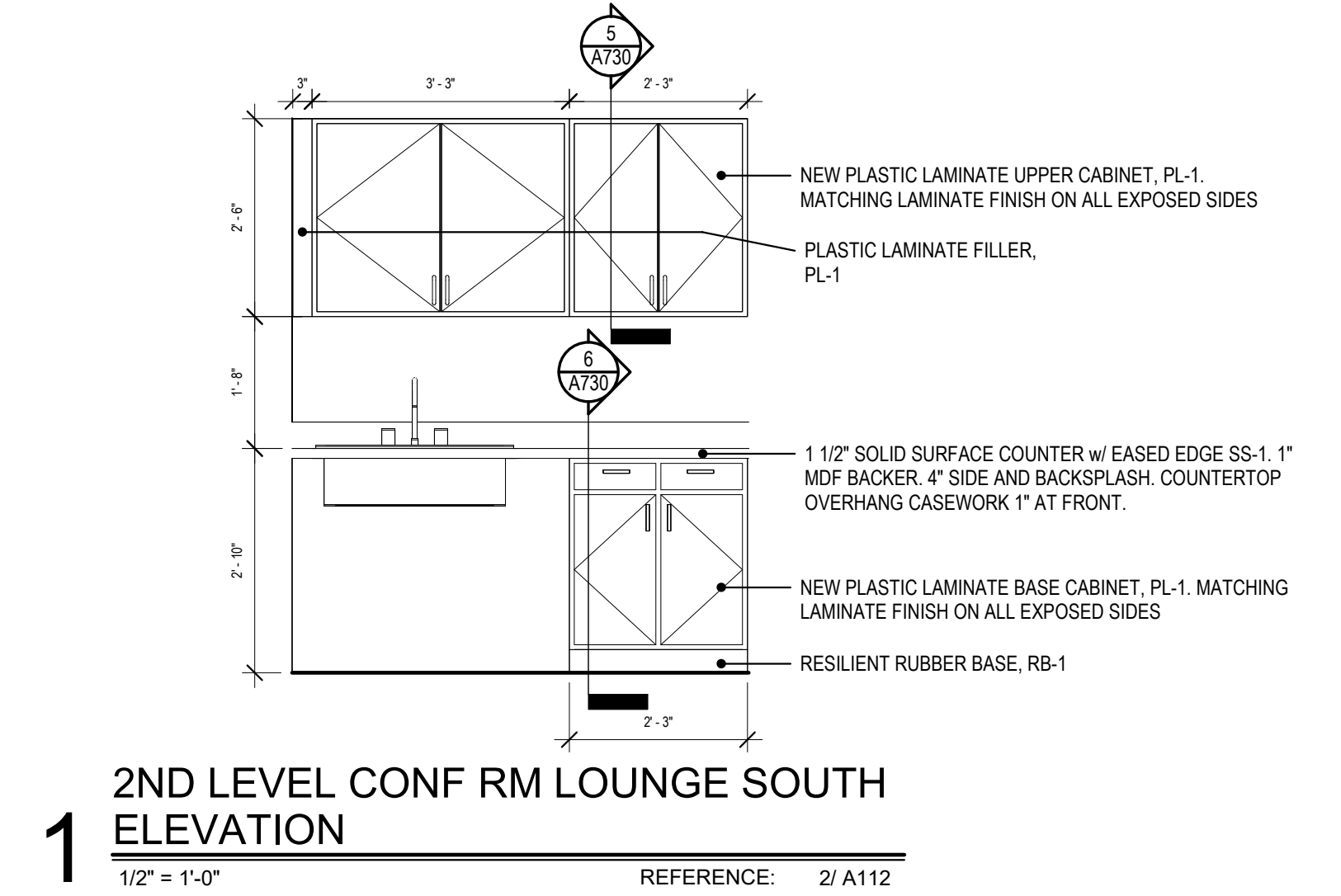
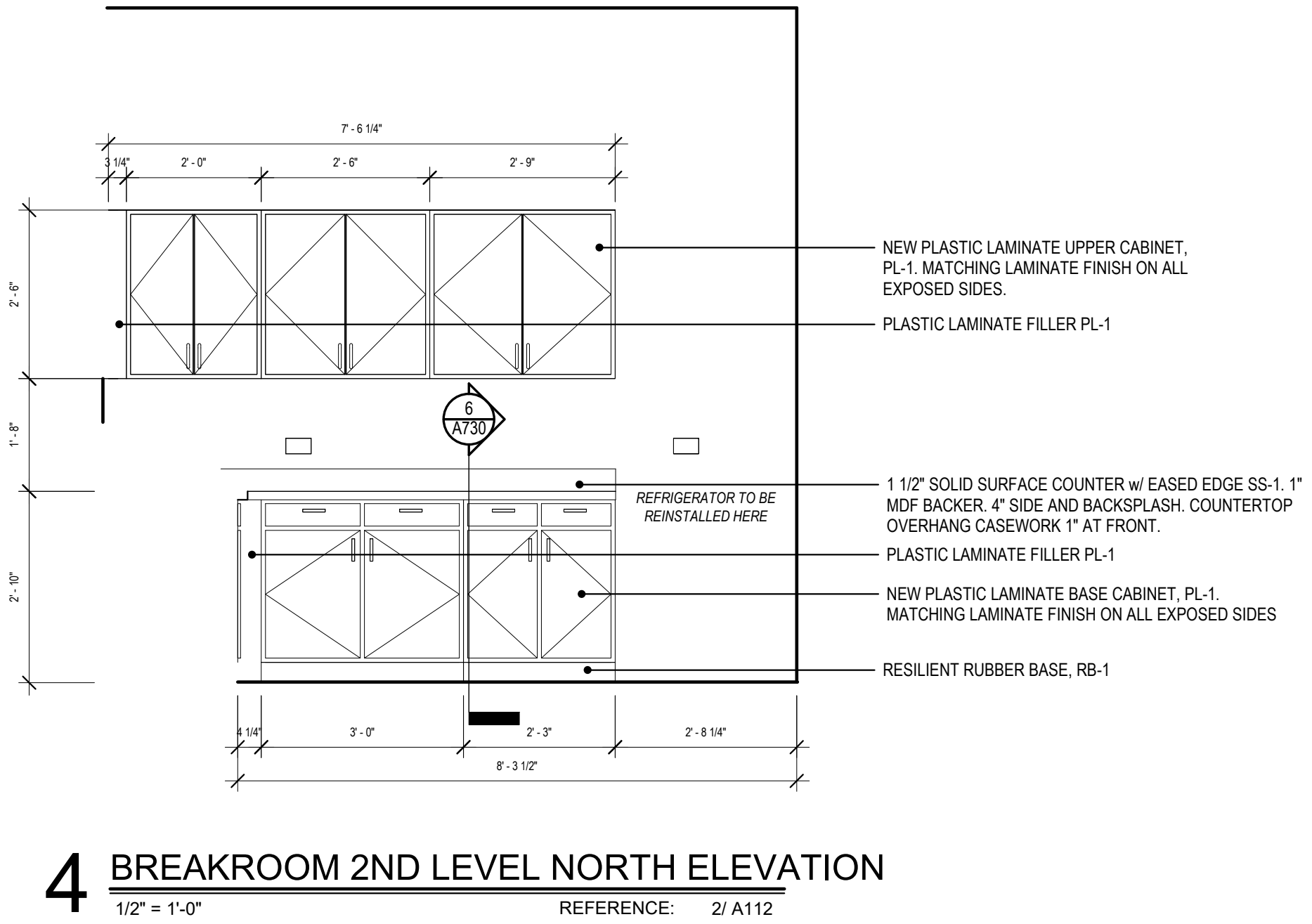
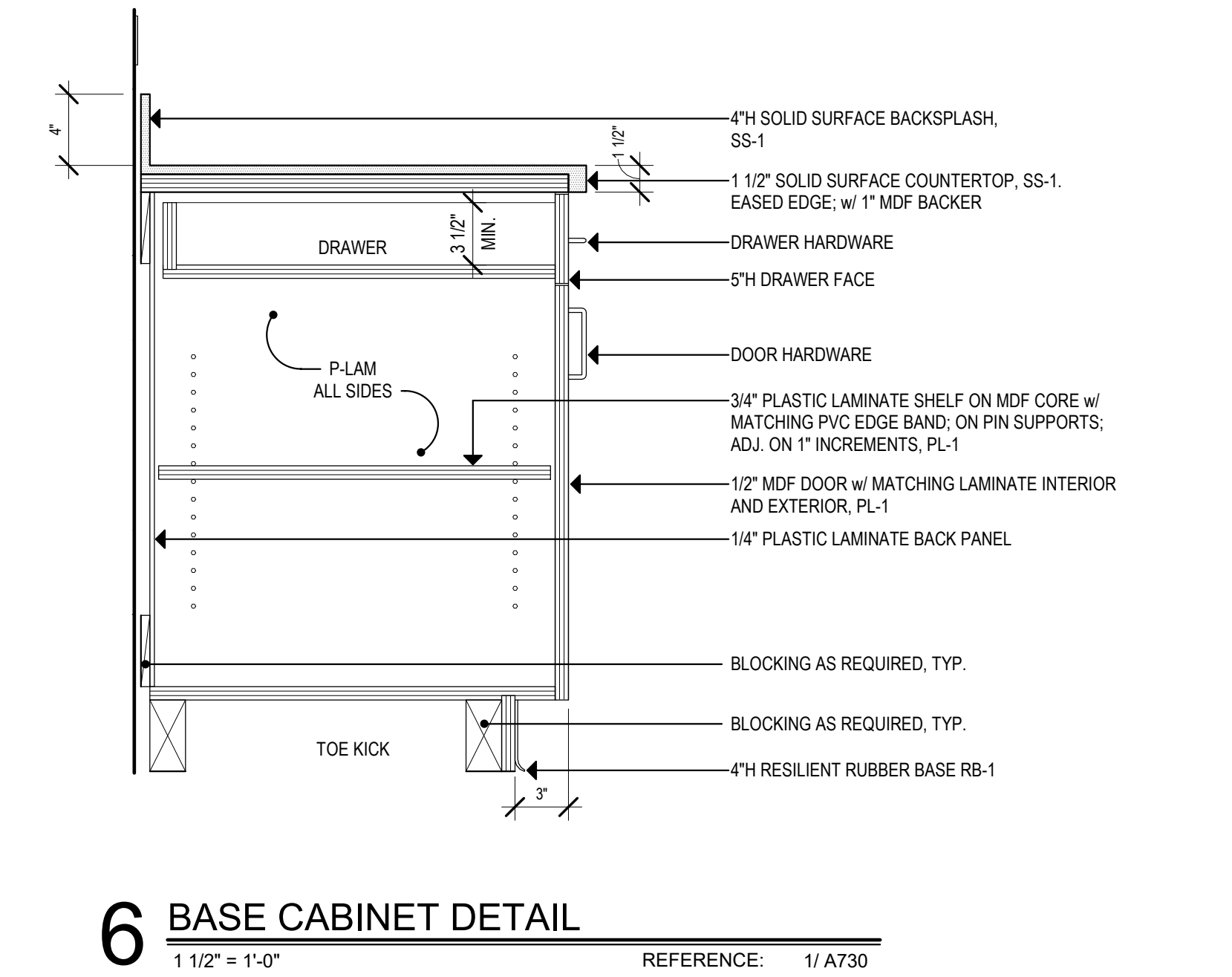
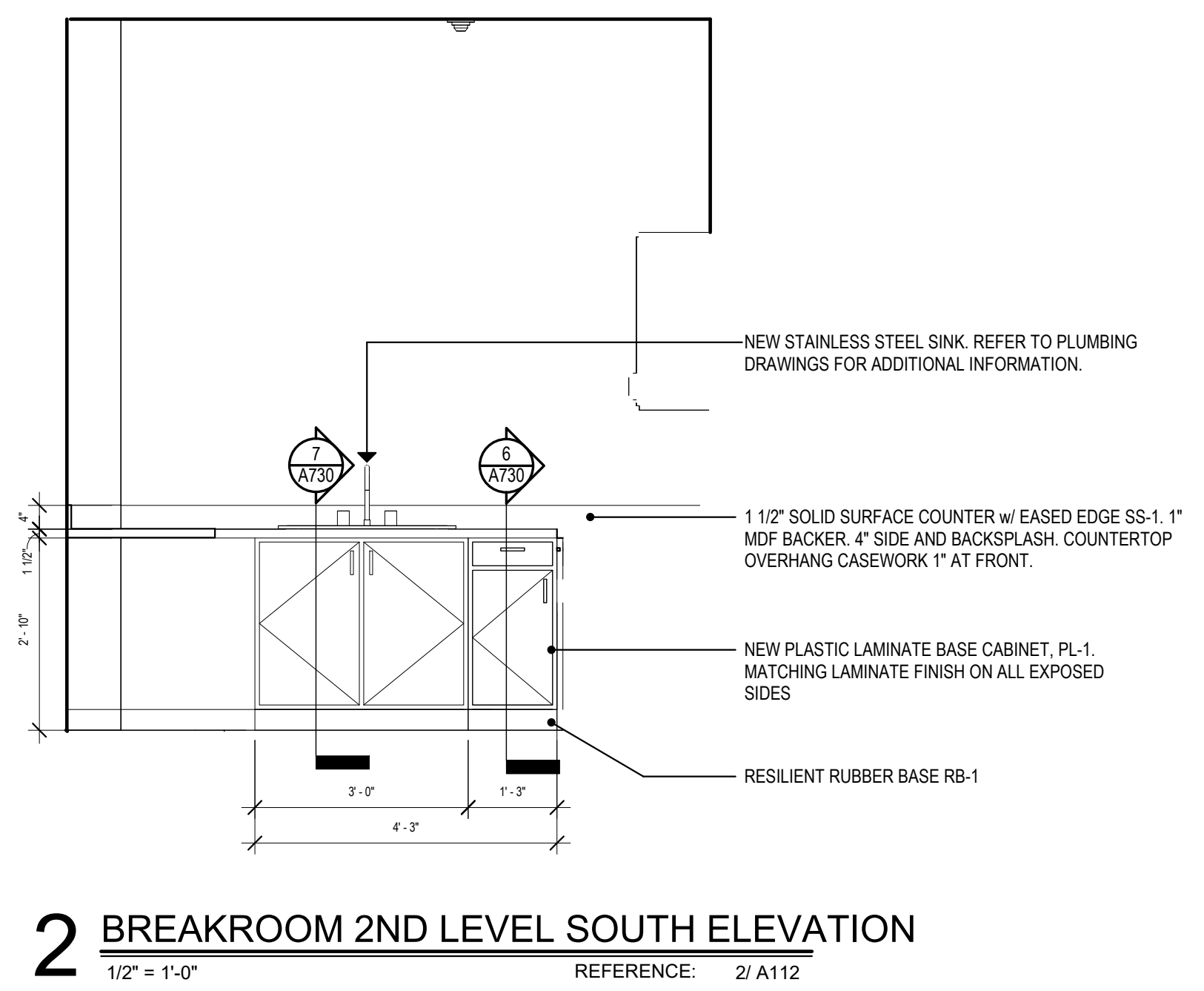
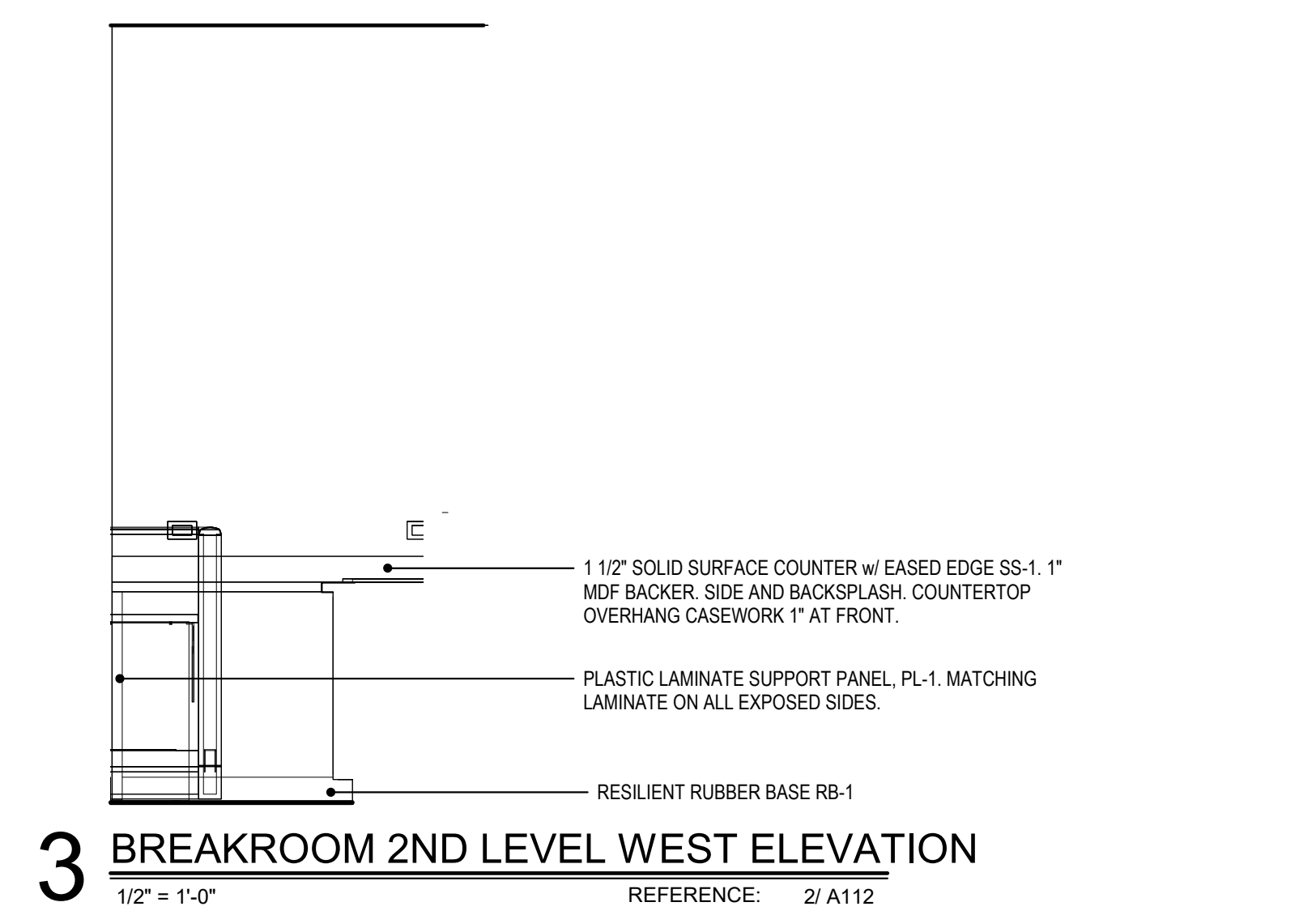
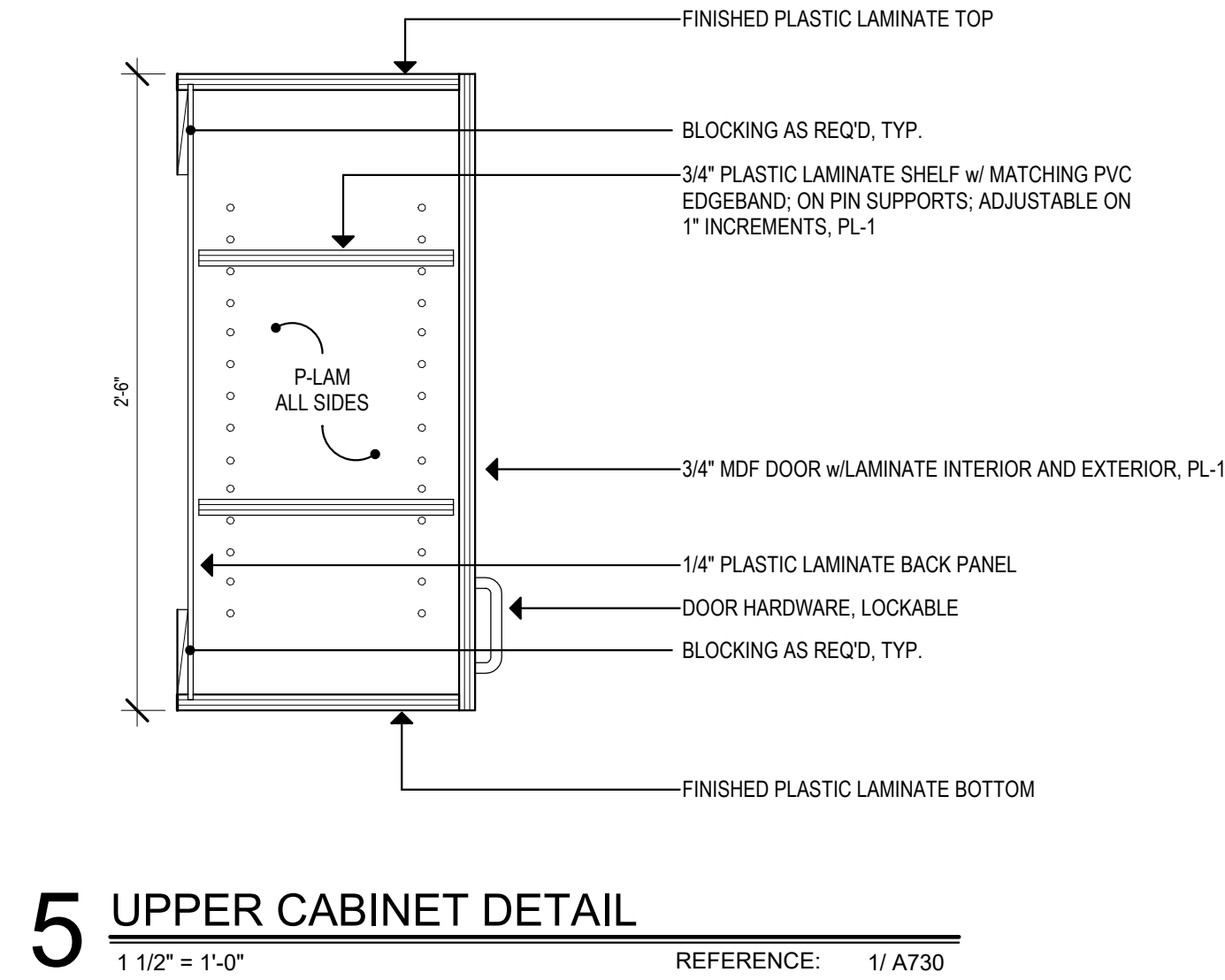
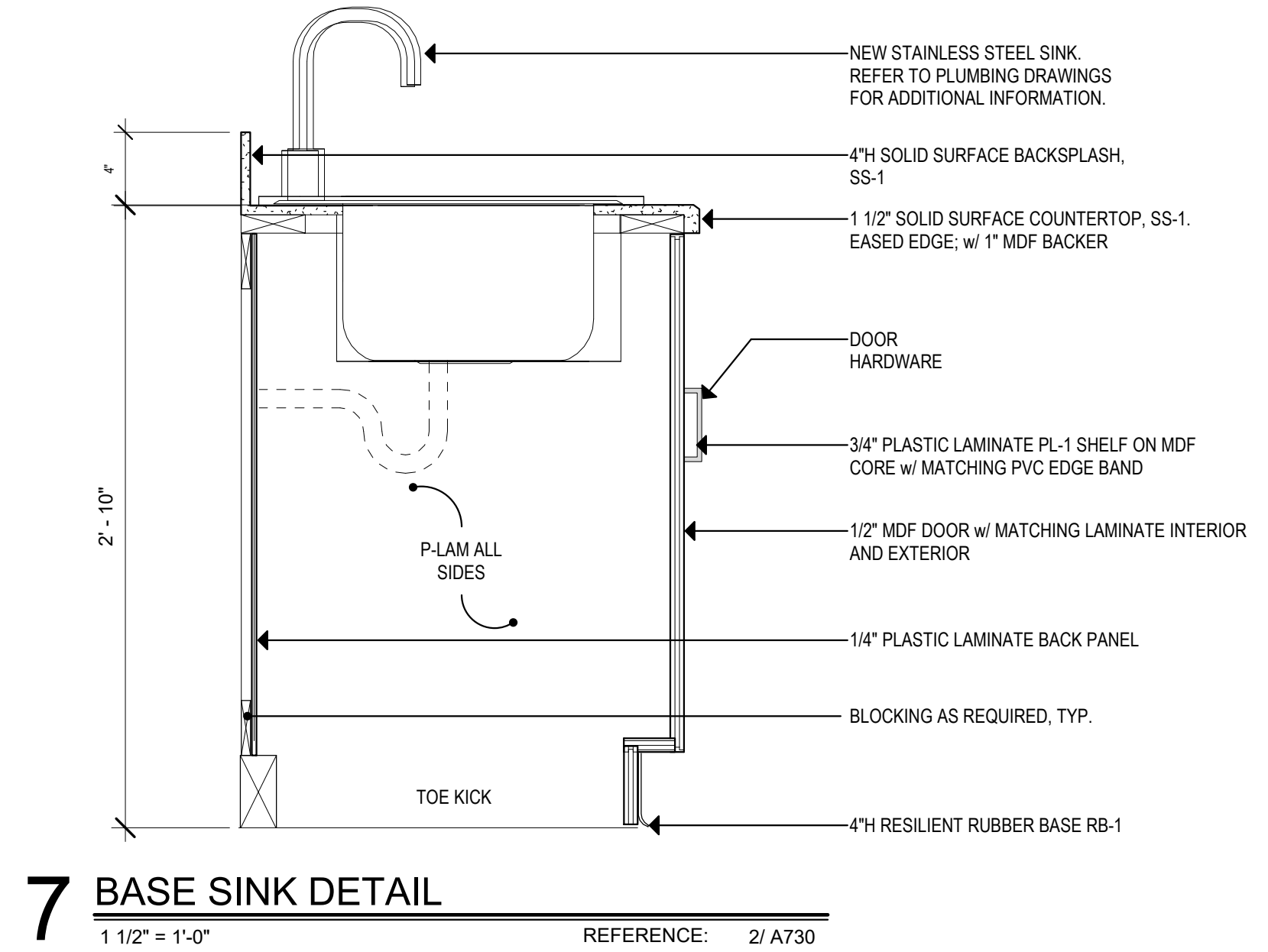


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Revision:	Description:	Date:	Revised By:

Drawing Title:  
**TOILET ROOM DETAILS &  
ELEVATIONS**

Date: 2024.04.11  
Scale: 1/2" = 1'-0"  
Drawn By: TJT  
Project Number: 23.202  
Drawing Number: **A710**



Project Title:  
**INTERIOR RENOVATION  
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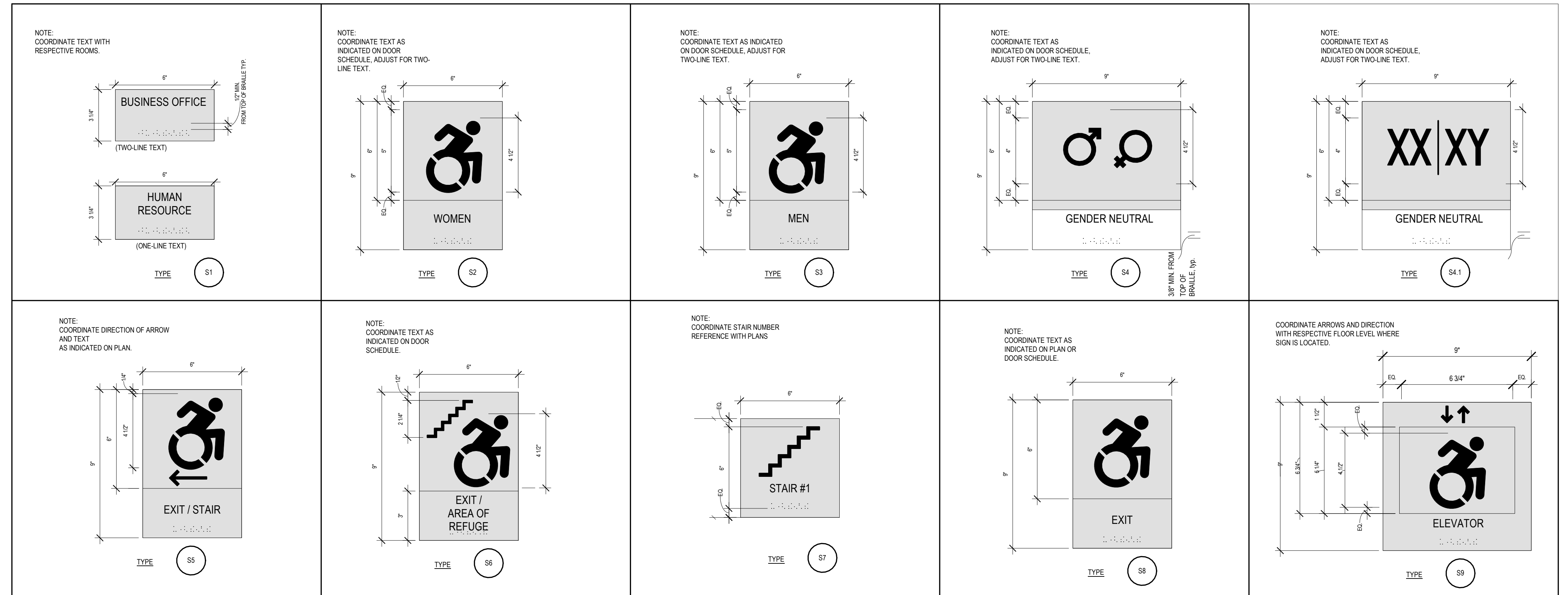
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Revision:	Description:	Date:	Revised By:

Drawing Title:  
**INTERIOR ELEVATIONS &  
CASEWORK DETAILS**

Date: 2024.04.11  
Scale: \_\_\_\_\_  
As indicated  
Drawn By: TJJ  
Project Number: 23.202  
Drawing Number: **A730**

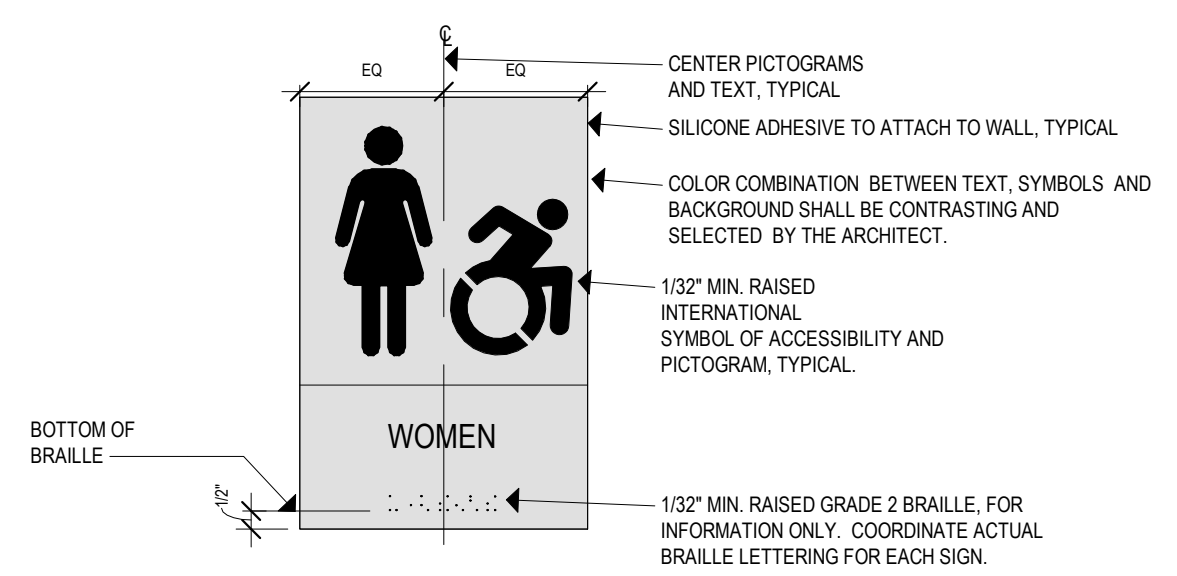




- SIGNAGE NOTES:**
- SIGNAGE PACKAGE TO BE REVIEWED AND APPROVED BY OWNER & DESIGNER FOR APPROVAL PRIOR TO PURCHASE.
  - SIGNS SHALL COMPLY WITH CURRENT BUILDING CODE, ANSI STANDARDS, ADA REGULATIONS & GUIDELINES, AND ALL OTHER APPLICABLE REGULATIONS.
  - TEXT ON SIGNS SHALL BE COORDINATED IN FIELD TO REFLECT ROOM USE, AND SHALL BE APPROVED BY ARCHITECT AND OWNER PRIOR TO FABRICATION.
  - SEE ALSO TYPICAL SIGN DETAIL AND TYPICAL SIGN MOUNTING DETAILS ON THIS DRAWING.
  - SEE ELECTRICAL DRAWINGS FOR ALL ILLUMINATE SIGNAGE

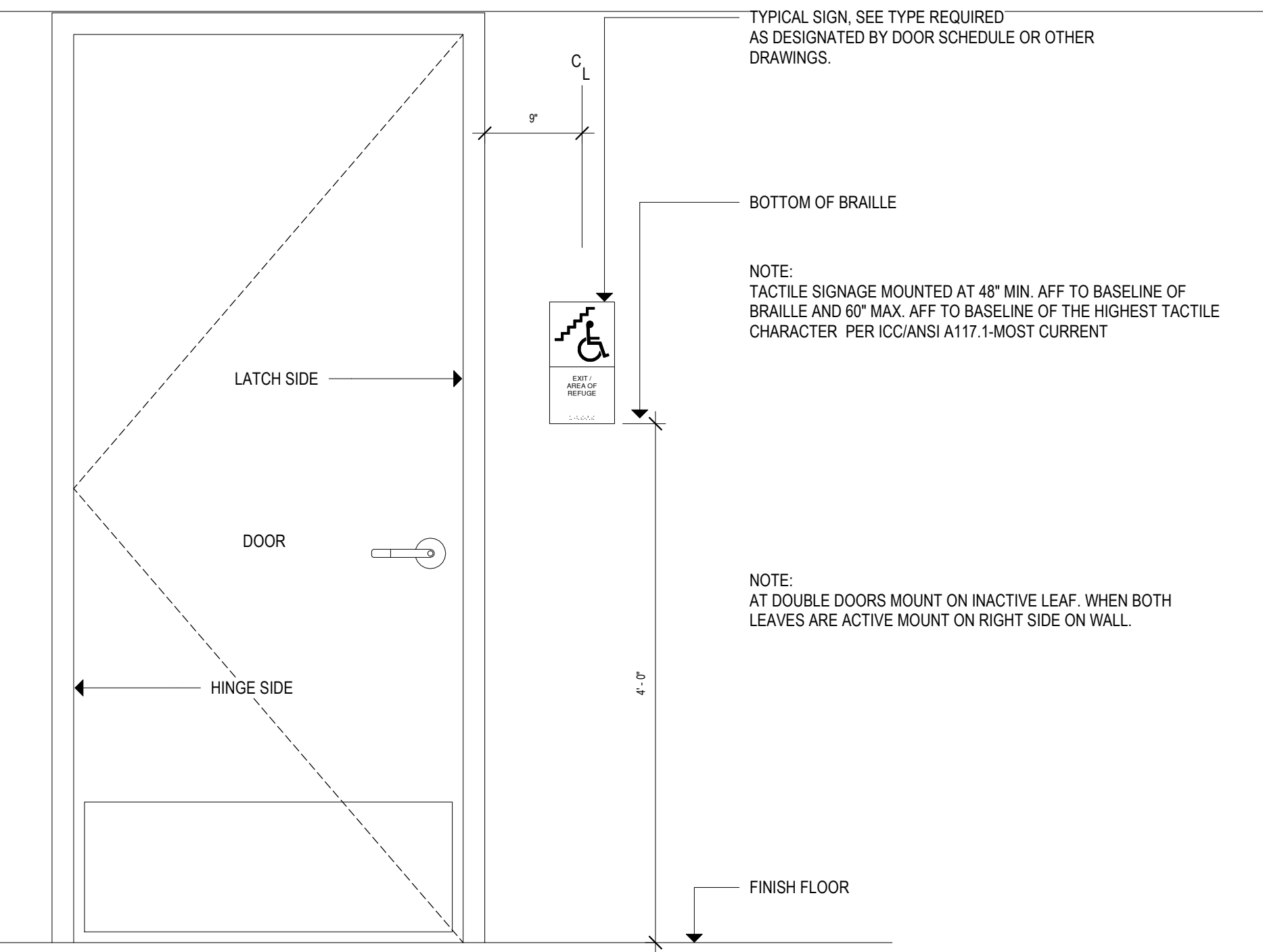
**SIGNAGE**

3" = 1'-0"



**SIGNAGE TYP. DETAILS**

3" = 1'-0"



**SIGNAGE TYP. MOUNTING DETAILS**

1" = 1'-0"

Project Title:  
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Revision:	Description:	Date:	Revised By:

Drawing Title:  
**SIGNAGE**

Date: 2024.04.11  
 Scale: As indicated  
 Drawn By: TJT  
 Project Number: 23.202

Drawing Number:  
**A950**



**FINISH LEGEND**

**FLOORING:**

[CPT] - CARPET TILE  
 [LVT] - LUXURY VINYL TILE  
 [PFT] - PORCELAIN FLOOR TILE

**WALL BASE:**

[RB] - RESILIENT BASE  
 [PWB] - PORCELAIN WALL BASE

**WALLS:**

[PT] - WALL PAINT TO BE COMPLETED BY OWNER

**CEILING:**

[ACT] ACOUSTICAL CEILING TILE

**CASEWORK:**

[PL] - PLASTIC LAMINATE  
 [SS] - SOLID SURFACE

**FINISH LEGEND:**

**FLOORING:**

**CPT-1** ITEM: CARPET TILE  
 MANUFACTURER: PATCRAFT  
 COLLECTION: ON NEUTRAL GROUND I  
 STYLE: 10634 RAW'S EDGE  
 COLOR: 00120 SHEER  
 SIZE: 18" X 36"  
 THICKNESS: 0.297"  
 INSTALLATION: BRICK PATTERN INSTALLATION DIRECT GLUE DOWN  
 LOCATION: 1<sup>st</sup> AND 2<sup>nd</sup> LEVEL CONFERENCE RM, BOARD RM, MEETING ROOM  
 NOTES:  
 LOCAL REP: BETTY JO DAVIS

**CPT-1.2** ITEM: CARPET TILE  
 MANUFACTURER: PATCRAFT  
 COLLECTION: ON NEUTRAL GROUND I  
 STYLE: 10634 RAW'S EDGE  
 COLOR: 00120 SHEER  
 SIZE: 18" X 36"  
 THICKNESS: 0.297"  
 INSTALLATION: BRICK DIRECT GLUE DOWN  
 LOCATION: 1<sup>st</sup> and 2<sup>nd</sup> LEVEL CORRIDORS, OFFICES  
 NOTES:  
 LOCAL REP: BETTY JO DAVIS

**PFT-1** ITEM: PORCELAIN FLOOR TILE  
 MANUFACTURER: GENROSE  
 COLLECTION: SOAPSTONE  
 STYLE: GREIGE MATTE  
 SIZE: 12" X 24"  
 THICKNESS: 0.9MM  
 INSTALLATION: RECEPTION, VESTIBULE AREA  
 LOCATION: RECEPTION, VESTIBULE AREA  
 NOTES:  
 LOCAL REP: JAMIE ALWANG PHONE: 860-807-3072

**PFT-2** ITEM: PORCELAIN FLOOR TILE  
 MANUFACTURER: GENROSE  
 COLLECTION: CAMDEN  
 STYLE: MATTE  
 COLOR: LEVEE WHITE  
 SIZE: 12" X 24"  
 THICKNESS: 0.9MM  
 INSTALLATION: MENS/WOMENS TOILET RMS ON THE GARDEN, 1<sup>st</sup> & 2<sup>nd</sup> LEVELS. SINGLE UNISEX TOILET ON 1ST & 2ND FLOOR.  
 LOCATION: MENS/WOMENS TOILET RMS ON THE GARDEN, 1<sup>st</sup> & 2<sup>nd</sup> LEVELS. SINGLE UNISEX TOILET ON 1ST & 2ND FLOOR.  
 NOTES:  
 LOCAL REP: JAMIE ALWANG PHONE: 860-807-3072

**FTS-1** ITEM: FLOORING TRANSITIONS  
 MANUFACTURER: SHLUTER  
 COLLECTION: RENO ATK100ABGB  
 STYLE: BRUSHED ANTIQUE BRONZE  
 COLOR: BRUSHED ANTIQUE BRONZE  
 SIZE: 10MM (3/8" - 10MM)  
 THICKNESS: 10MM (3/8" - 10MM)  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS  
 LOCATION: FROM LOBBY PORCELAIN TILE TO CARPET  
 NOTES:  
 LOCAL REP:

**LVT-1** ITEM: LUXURY VINYL FLOORING  
 MANUFACTURER: LX HAUSYS  
 COLLECTION: PIKES PEAK PLANK  
 STYLE: GOLDEN WALNUT DTW1366  
 COLOR: GOLDEN WALNUT DTW1366  
 SIZE:  
 THICKNESS:  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS  
 LOCATION: 2ND 216 CONFERENCE ROOM UNER SINK  
 NOTES:  
 LOCAL REP:

**WALL:**

**PWT-1** ITEM: PORCELAIN WALL TILE  
 MANUFACTURER: GENROSE  
 COLLECTION: MONTERREY 3" X 14" WALL TILE ORDER NUMBER # 291077  
 STYLE: NATURAL  
 COLOR: BORA BORA  
 SIZE:  
 THICKNESS:  
 INSTALLATION: VERTICAL STACKED. PER MANUFACTURERS RECOMMENDATIONS.  
 LOCATION: MENS/WOMENS TOILET ROOMS BEHIND FIXTURES. SEE ELEVATIONS FOR FURTHER INFORMATION ON GARDEN, 1ST AND 2ND FLOOR LEVELS  
 NOTES:  
 LOCAL REP: JAMIE ALWANG PHONE: 860-807-3072

**SJ-1** ITEM: SQUARE JOLLY  
 MANUFACTURER: PROFILITEC  
 COLLECTION: SJ100IS  
 STYLE: BRUSHED STAINLESS STEEL  
 COLOR: BRUSHED STAINLESS STEEL  
 SIZE: 10MM  
 THICKNESS:  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS.  
 LOCATION: PORCELAIN BASE TILE MENS/WOMENS TOILET ROOMS ON GARDEN, 1ST AND 2ND FLOOR LEVELS. SEE ELEVATIONS A700 3.  
 NOTES:  
 LOCAL REP:

**SJ-2** ITEM: SQUARE JOLLY  
 MANUFACTURER: PROFILITEC  
 COLLECTION: SJ100IS  
 STYLE: BRUSHED STAINLESS STEEL  
 COLOR: BRUSHED STAINLESS STEEL  
 SIZE: 8MM SJ80 IS  
 THICKNESS:  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS.  
 LOCATION: PORCELAIN WALL TILE MENS/WOMENS TOILET ROOMS ON GARDEN, 1ST AND 2ND FLOOR LEVELS. REFER TO ELEVATION A700 3.  
 NOTES:  
 LOCAL REP:

**RB-1** ITEM: RUBBER BASE COVE  
 MANUFACTURER: FLEXCO  
 COLLECTION: 099 MIDNIGHT  
 STYLE: 099 MIDNIGHT  
 COLOR: 099 MIDNIGHT  
 SIZE:  
 THICKNESS:  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS  
 LOCATION:  
 NOTES:  
 LOCAL REP:

**PWB-1** ITEM: PORCELAIN WALL BASE  
 MANUFACTURER: GENROSE  
 COLLECTION: CAMDEN  
 STYLE: MATTE  
 COLOR: LEVEE WHITE  
 SIZE: CUT TILE TO 4" HEIGHT FOR BASE COVE  
 THICKNESS: 0.9MM  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS  
 LOCATION: MENS AND WOMENS TOILET RM ON GARDEN, 1ST AND 2ND FLOOR LEVEL WALL BASE  
 NOTES:  
 LOCAL REP:

**PWB-2** ITEM: PORCELAIN FLOOR TILE  
 MANUFACTURER: GENROSE  
 COLLECTION: SOAPSTONE  
 STYLE: GREIGE MATTE  
 COLOR: GREIGE MATTE  
 SIZE: CUT TILE TO 4" HEIGHT FOR BASE COVE  
 THICKNESS: 0.9MM  
 INSTALLATION: RECEPTION, VESTIBULE AREA  
 LOCATION: RECEPTION, VESTIBULE AREA  
 NOTES:  
 LOCAL REP: JAMIE ALWANG PHONE: 860-807-3072

**WALL BASE:**

**TOILET PARTITIONS:**

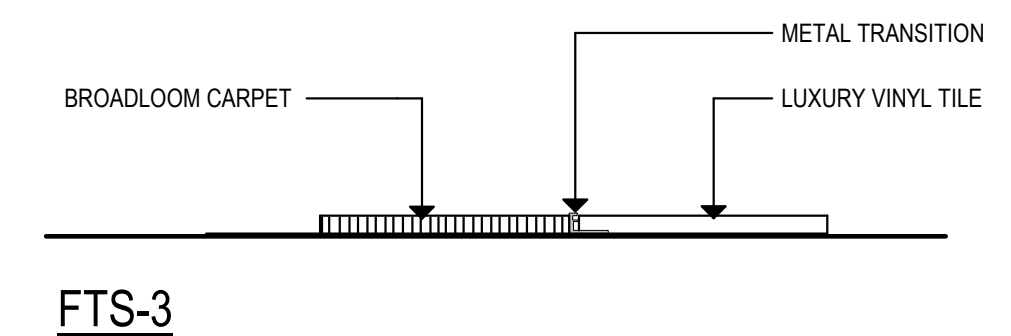
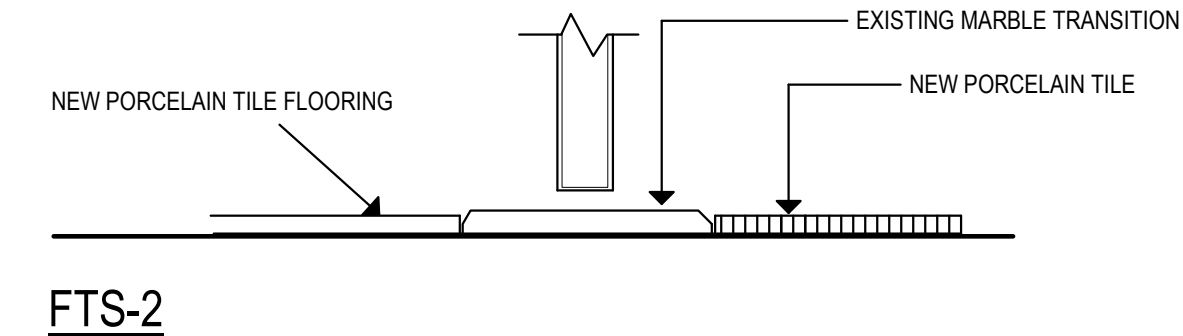
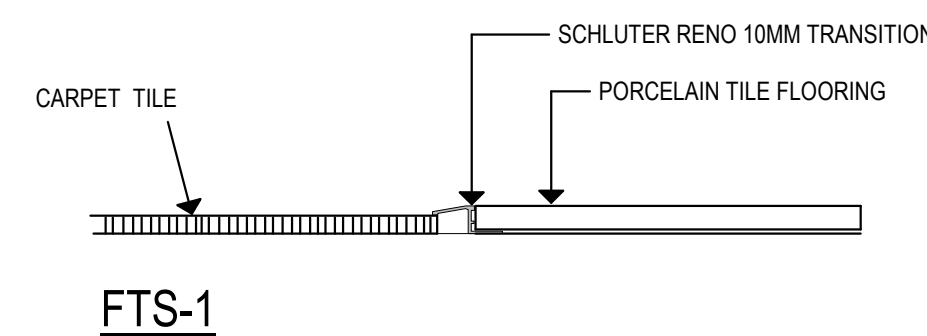
**TP-1** ITEM: TOILET ROOM PARTITIONS  
 MANUFACTURER: SANDYMETAL  
 COLLECTION: RENO ATK  
 STYLE: FP-500 CORINTHIAN  
 COLOR: PECAN WOODLINE  
 SIZE:  
 THICKNESS:  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS  
 LOCATION: MENS/WOMENS TOILET ROOMS ON GARDEN, 1ST AND 2ND FLOOR LEVELS  
 NOTES:  
 LOCAL REP:

**PLASTIC LAMINATE:**

**PL-1** ITEM: PLASTIC LAMINATE  
 MANUFACTURER: FORMICA  
 COLLECTION: MATTE TEXTURE  
 STYLE: 05883-88 PECAN WOODLINE  
 COLOR: 05883-88 PECAN WOODLINE  
 SIZE:  
 THICKNESS:  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS  
 LOCATION: 2ND CONF/LOUNGE 221, BREAK ROOM 220  
 NOTES:  
 LOCAL REP:

**COUNTER:**

**SS-1** ITEM: SOLID SURFACE  
 MANUFACTURER: CORIAN  
 COLLECTION: LIMESTONE PRIMA  
 STYLE: LIMESTONE PRIMA  
 COLOR: LIMESTONE PRIMA  
 SIZE:  
 THICKNESS:  
 INSTALLATION: PER MANUFACTURERS RECOMMENDATIONS  
 LOCATION: 2ND CONF/LOUNGE 221, BREAKROOM 220  
 NOTES:  
 LOCAL REP:



**FLOORING TRANSITIONS**

3" = 1'-0"

Project Title:  
**INTERIOR RENOVATION**  
**LEARN REGIONAL SERVICE CENTER**  
 44 HATCHETTS HILL RD  
 OLD LYME, CT 06371



SILVER PETRUCCELLI + ASSOCIATES  
 3190 WHITNEY AVENUE HAMDEN CT 06518  
 311 STATE STREET NEW LONDON CT 06320  
 203 230 9007 silverpetrucci.com

Revision:	Description:	Date:	Revised By:

**FINISH SCHEDULE**

Drawing Title:  
 Date: 2024.04.11  
 Scale:  
 As indicated  
 Drawn By: TJT  
 Project Number: 23.202  
 Drawing Number: **A960**

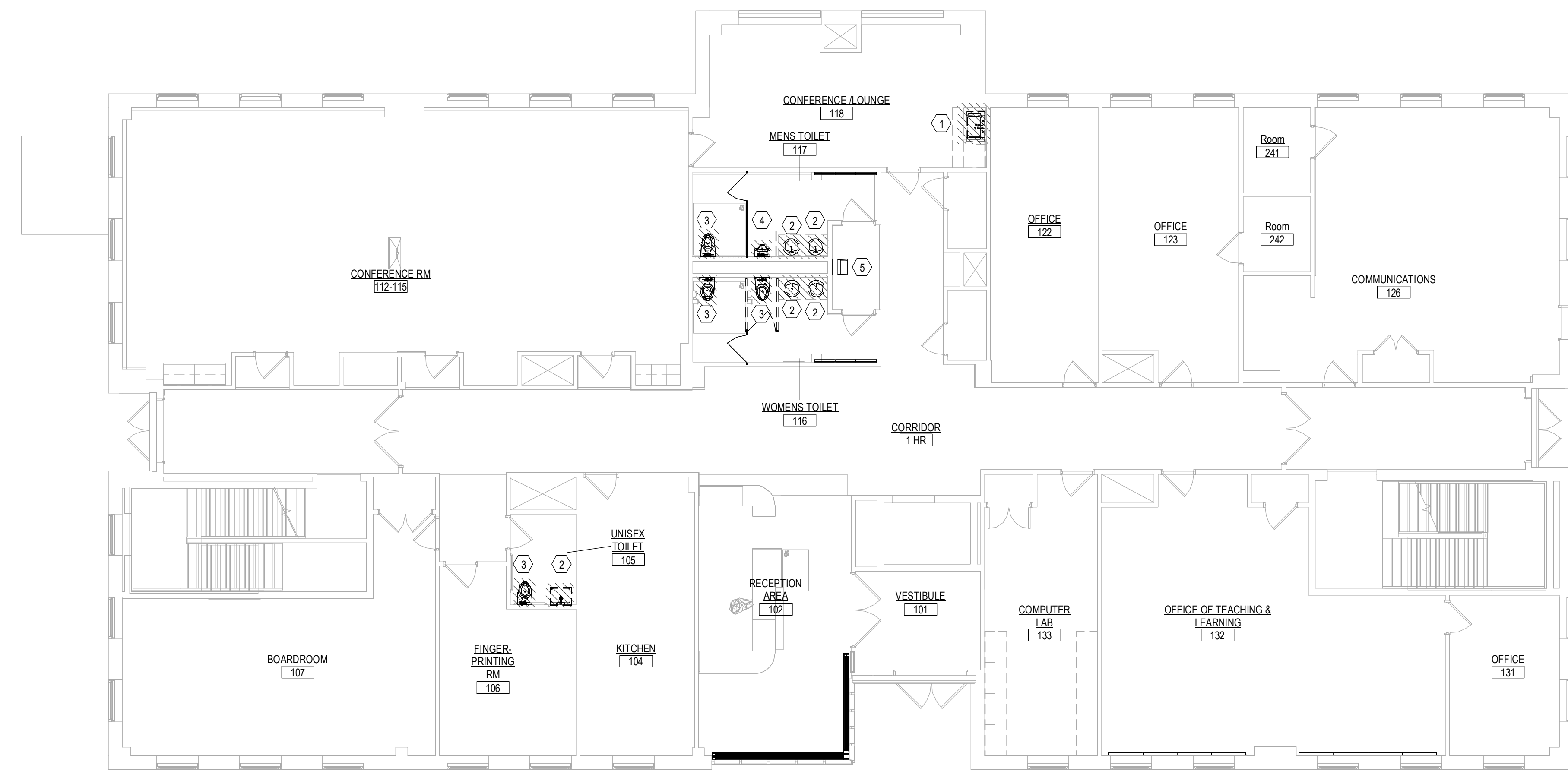


**PLUMBING DEMOLITION KEY NOTES**

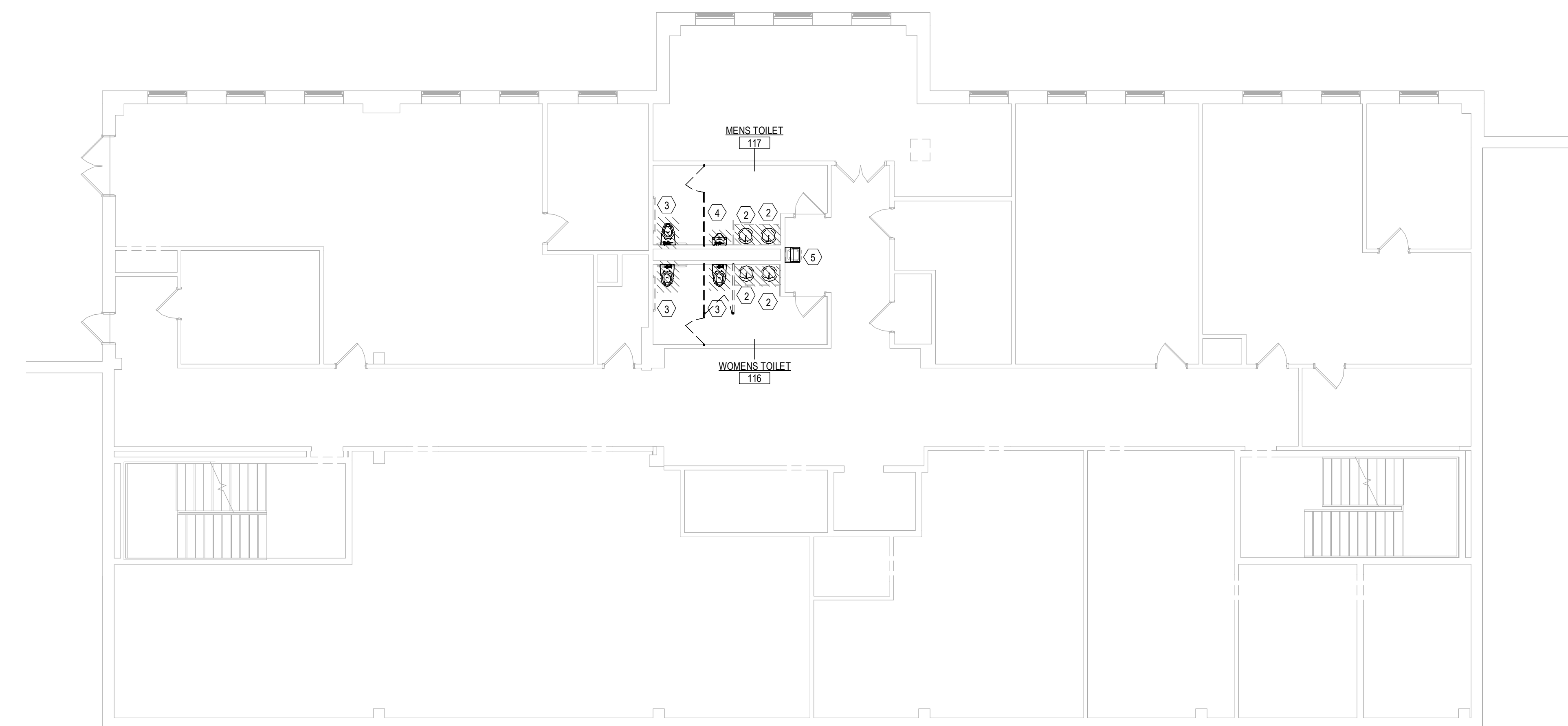
- 1 REMOVE AND DISPOSE OF EXISTING SINK. CUT AND CAP EXISTING SAN BACK TO WALL. REPLACE EXISTING H&CW STOPS AND PROVIDE WITH NEW QUARTER TURN STOPS. MAKE ALL PIPING READY FOR FUTURE RECONNECTION.
  - 2 REMOVE AND DISPOSE OF EXISTING LAVATORY. CUT AND CAP EXISTING SAN BACK TO WALL. REPLACE EXISTING H&CW STOPS AND PROVIDE WITH NEW QUARTER TURN STOPS. MAKE ALL PIPING READY FOR FUTURE RECONNECTION.
  - 3 REMOVE AND DISPOSE OF EXISTING WATER CLOSET AND FLUSH VALVE. REPLACE EXISTING CW STOPS AND PROVIDE WITH NEW. MAKE ALL PIPING READY FOR FUTURE RECONNECTION.
  - 4 REMOVE AND DISPOSE OF EXISTING URINAL. REPLACE EXISTING CW STOPS AND PROVIDE WITH NEW. MAKE ALL PIPING READY FOR FUTURE RECONNECTION.
  - 5 EXISTING DRINKING FOUNTAIN TO REMAIN
  - 6 OMITTED
  - 7 EXISTING SANITARY PIPING TO REMAIN. SNAKE, CLEAN AND JET ALL EXISTING PIPING. WHEN COMPLETE, CAMERA INSPECT WITH A VIDEO CAMERA. PROVIDE REPORT.
  - 8 EXISTING STORM PIPING TO REMAIN.
  - 9 EXISTING DOMESTIC WATER PIPE ABOVE CEILING TO REMAIN.
- REMOVE AND DISPOSE OF EXISTING VENT PIPING. REMOVE ALL EXISTING EXPOSED PIPING. CAP PIPING BELOW FLOOR, CEILING AND WALL, WITHIN 2 FT OF MAINS.
- NOTE: NOT ALL KEY NOTES ARE USED ON ALL SHEETS.

**PLUMBING DEMOLITION GENERAL NOTES**

1. THIS PROJECT IS A PARTIAL DEMOLITION TO AN EXISTING FACILITY.
2. ALL WORK SHALL BE PERFORMED PER CURRENT STATE APPLICABLE CODES, ORDINANCES AND PER REQUIREMENTS OF STATE AND LOCAL REGULATORY AGENCIES AND THE AUTHORITY HAVING JURISDICTION.
3. REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
4. BEFORE SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH HIS WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
5. LOCATION OF EXISTING EQUIPMENT AND PIPING SHOWN ON FLOOR PLANS IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY EXACT LOCATION(S) OF EXISTING EQUIPMENT, APPURTENANCES AND PIPING IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT LOCATION. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW THE ENTIRE EXISTING MECHANICAL OR ELECTRICAL SYSTEMS.
7. MAJOR COMPONENTS AND MAINS OF SYSTEMS ARE USUALLY INDICATED. FIELD VERIFY LAYOUT AND LOCATIONS OF MISCELLANEOUS SYSTEMS. REMOVE MISCELLANEOUS ITEMS IN THE RENOVATED AREA.
8. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
9. ALL EXISTING EQUIPMENT, FIXTURES AND DEVICES TO BE REMOVED SHALL BE FIELD VERIFIED FOR EXACT QUANTITY. NO EQUIPMENT, PIPING, DUCTWORK OR CONDUIT SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
10. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN.
11. INCLUDE ALL WORK REQUIRED TO ALLOW PARTIAL DEMOLITION AS REQUIRED. COORDINATE WITH CONSTRUCTION PHASING REQUIREMENTS. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS AS NECESSARY.
12. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY PIPING OR CONDUIT WHICH MUST REMAIN ACTIVE, HE SHALL IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR, AND OWNER'S REPRESENTATIVE.
13. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR DISCLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OR REMOVED ITEMS WILL NOT BE PERMITTED.
14. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH THE CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
15. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION.
16. ALL PIPING ASSOCIATED WITH THE PLUMBING FIXTURE OR EQUIPMENT INDICATED TO BE REMOVED OR RELOCATED SHALL BE DISCONNECTED AND REMOVED (INCLUDING HANGERS, INSULATION, AND OTHER COMPONENTS) UP TO NEAREST EXISTING ACTIVE MAIN OR BRANCH LINE AND CAPPED AS CLOSE TO THE ACTIVE LINE AS POSSIBLE.
17. LICENSED PLUMBERS WILL BE REQUIRED TO PERFORM THE DISCONNECTS AND RESPONSIBLE FOR ANY APPLICABLE PERMITS/INSPECTIONS. SEE SPECIFICATIONS FOR MORE INFORMATION.



**1** 1ST LEVEL DEMO PLAN  
1/8" = 1'-0"



**G** GARDEN LEVEL DEMO PLAN  
1/8" = 1'-0"

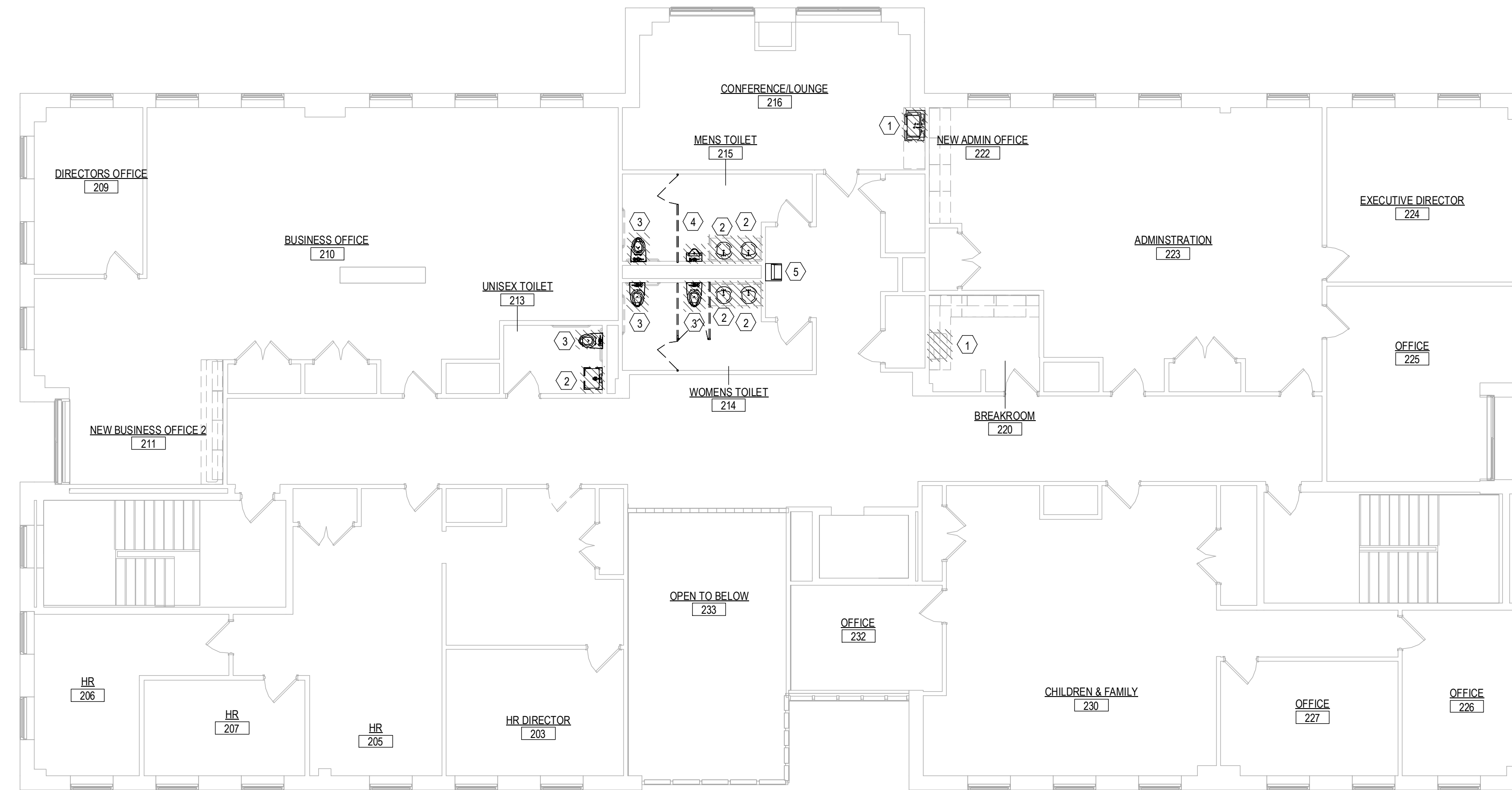


**PLUMBING DEMOLITION KEY NOTES**

- 1 REMOVE AND DISPOSE OF EXISTING SINK. CUT AND CAP EXISTING SAN BACK TO WALL. REPLACE EXISTING H&CW STOPS AND PROVIDE WITH NEW QUARTER TURN STOPS. MAKE ALL PIPING READY FOR FUTURE RECONNECTION.
  - 2 REMOVE AND DISPOSE OF EXISTING LAVATORY. CUT AND CAP EXISTING SAN BACK TO WALL. REPLACE EXISTING H&CW STOPS AND PROVIDE WITH NEW QUARTER TURN STOPS. MAKE ALL PIPING READY FOR FUTURE RECONNECTION.
  - 3 REMOVE AND DISPOSE OF EXISTING WATER CLOSET AND FLUSH VALVE. REPLACE EXISTING CW STOPS AND PROVIDE WITH NEW. MAKE ALL PIPING READY FOR FUTURE RECONNECTION.
  - 4 REMOVE AND DISPOSE OF EXISTING URINAL. REPLACE EXISTING CW STOPS AND PROVIDE WITH NEW. MAKE ALL PIPING READY FOR FUTURE RECONNECTION.
  - 5 EXISTING DRINKING FOUNTAIN TO REMAIN.
  - 6 OMITTED.
  - 7 EXISTING SANITARY PIPING TO REMAIN. SNAKE, CLEAN AND JET ALL EXISTING PIPING. WHEN COMPLETE, CAMERA INSPECT WITH A VIDEO CAMERA. PROVIDE REPORT.
  - 8 EXISTING DOMESTIC WATER PIPE ABOVE CEILING TO REMAIN.
  - 9 REMOVE AND DISPOSE OF EXISTING VENT PIPING. REMOVE ALL EXISTING EXPOSED PIPING, CAP PIPING BELOW FLOOR, CEILING AND WALL, WITHIN 2 FT OF MAINS.
- NOTE: NOT ALL KEY NOTES ARE USED ON ALL SHEETS.

**PLUMBING DEMOLITION GENERAL NOTES**

- 1 THIS PROJECT IS A PARTIAL DEMOLITION TO AN EXISTING FACILITY.
- 2 ALL WORK SHALL BE PERFORMED PER CURRENT STATE APPLICABLE CODES, ORDINANCES AND PER REQUIREMENTS OF STATE AND LOCAL REGULATORY AGENCIES AND THE AUTHORITY HAVING JURISDICTION.
- 3 REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
- 4 BEFORE SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH HIS WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- 5 LOCATION OF EXISTING EQUIPMENT AND PIPING SHOWN ON FLOOR PLANS IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF EXISTING EQUIPMENT, APPURTENANCES AND PIPING IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 6 DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT LOCATION. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW THE ENTIRE EXISTING MECHANICAL OR ELECTRICAL SYSTEMS.
- 7 MAJOR COMPONENTS AND MAINS OF SYSTEMS ARE USUALLY INDICATED. FIELD VERIFY LAYOUT AND LOCATIONS OF MISCELLANEOUS SYSTEMS. REMOVE MISCELLANEOUS ITEMS IN THE RENOVATED AREA.
- 8 IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
- 9 ALL EXISTING EQUIPMENT, FIXTURES AND DEVICES TO BE REMOVED SHALL BE FIELD VERIFIED FOR EXACT QUANTITY. NO EQUIPMENT, PIPING, DUCTWORK OR CONDUIT SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
- 10 THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN.
- 11 INCLUDE ALL WORK REQUIRED TO ALLOW PARTIAL DEMOLITION AS REQUIRED. COORDINATE WITH CONSTRUCTION PHASING REQUIREMENTS. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS AS NECESSARY.
- 12 SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY PIPING OR CONDUIT WHICH MUST REMAIN ACTIVE, HE SHALL IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR, AND OWNER'S REPRESENTATIVE.
- 13 ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR DISCLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OR REMOVED ITEMS WILL NOT BE PERMITTED.
- 14 PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH THE CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
- 15 ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION.
- 16 ALL PIPING ASSOCIATED WITH THE PLUMBING FIXTURE OR EQUIPMENT INDICATED TO BE REMOVED OR RELOCATED SHALL BE DISCONNECTED AND REMOVED (INCLUDING HANGERS, INSULATION, AND OTHER COMPONENTS) UP TO NEAREST EXISTING ACTIVE MAIN OR BRANCH LINE AND CAPPED AS CLOSE TO THE ACTIVE LINE AS POSSIBLE.
- 17 LICENSED PLUMBERS WILL BE REQUIRED TO PERFORM THE DISCONNECTS AND RESPONSIBLE FOR ANY APPLICABLE PERMITS/INSPECTIONS. SEE SPECIFICATIONS FOR MORE INFORMATION.



**2 2ND LEVEL DEMO PLAN**  
1/8" = 1'-0"

Project Title:  
**LEARN REGIONAL SERVICE CENTER  
INTERIOR RENOVATION**  
44 HATCHETTS HILL RD  
OLD LYME, CT 06371



**SILVER PETRUCELLI + ASSOCIATES**  
3190 WHITNEY AVENUE HAMDEN CT 06518  
311 STATE STREET NEW LONDON CT 06320  
203 230 9007 silverpetrucci.com

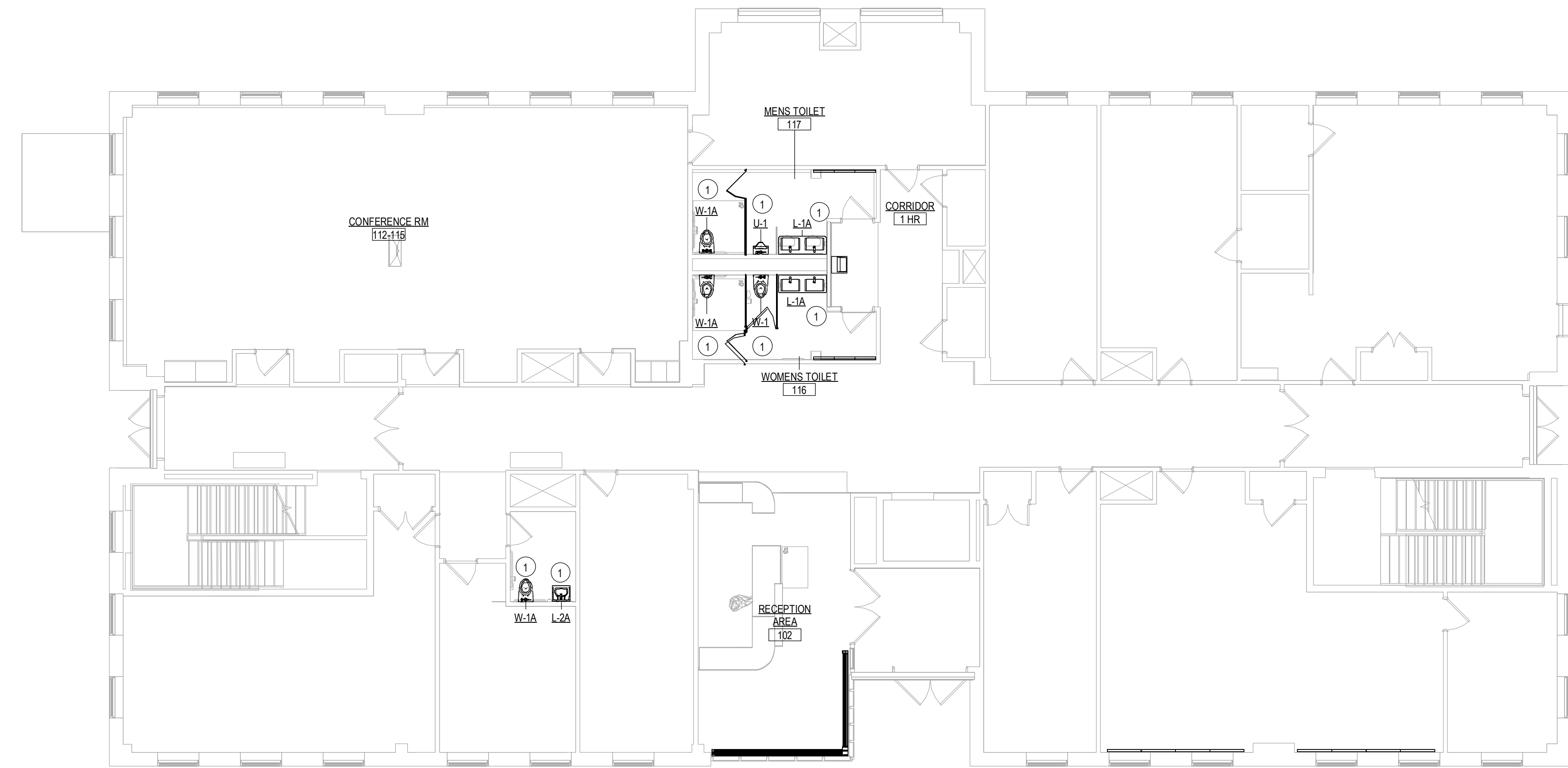
Revision:	Description:	Date:	Revised By:

Drawing Title:  
**SECOND LEVEL DEMOLITION PLAN -  
PLUMBING**

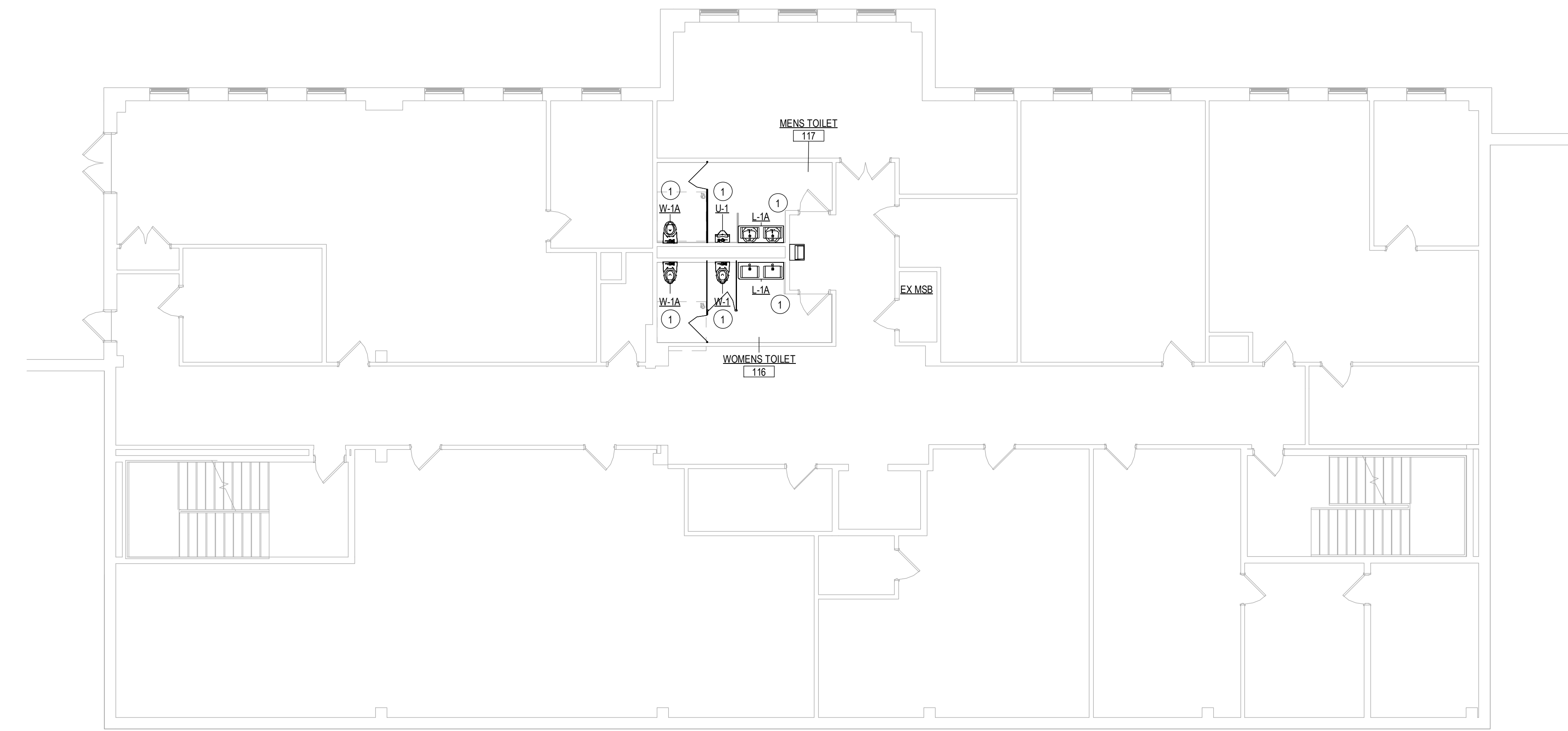
Date: 2024.04.11  
Scale: 1/8" = 1'-0"  
Drawn By: MPB  
Project Number: 23.202  
Drawing Number: **P011**

**PLUMBING CONSTRUCTION KEY NOTES**

① CONNECT NEW FIXTURE TO EXISTING ROUGH INS. PROVIDE ADDITIONAL PIPING, OFFSETS, FITTINGS, ETC. AS REQUIRED FOR INSTALLATION.



**1** 1ST LEVEL PLAN  
1/8" = 1'-0"



**G** GARDEN LEVEL PLAN  
1/8" = 1'-0"

Project Title:  
LEARN REGIONAL SERVICE CENTER  
INTERIOR RENOVATION  
44 HATCHETTS HILL RD  
OLD LYME, CT 06371



SILVER PETRUCELLI + ASSOCIATES  
3190 WHITNEY AVENUE HAMDEN CT 06518  
311 STATE STREET NEW LONDON CT 06320  
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

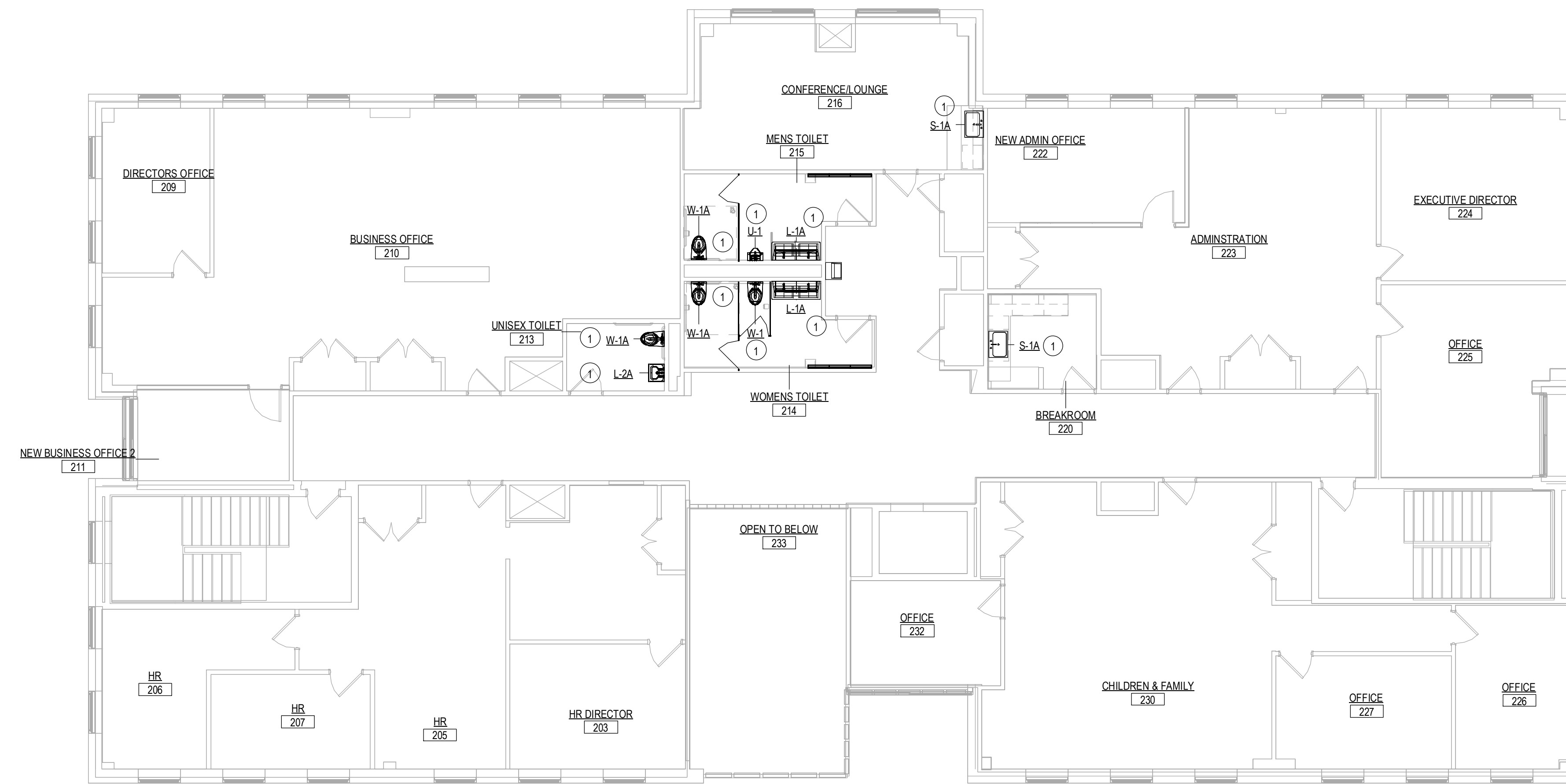
Drawing Title:  
GARDEN AND FIRST LEVEL PLANS -  
PLUMBING

Date: 2024.04.11  
Scale: 1/8" = 1'-0"  
Drawn By: MPB  
Project Number: 23.202  
Drawing Number: P100

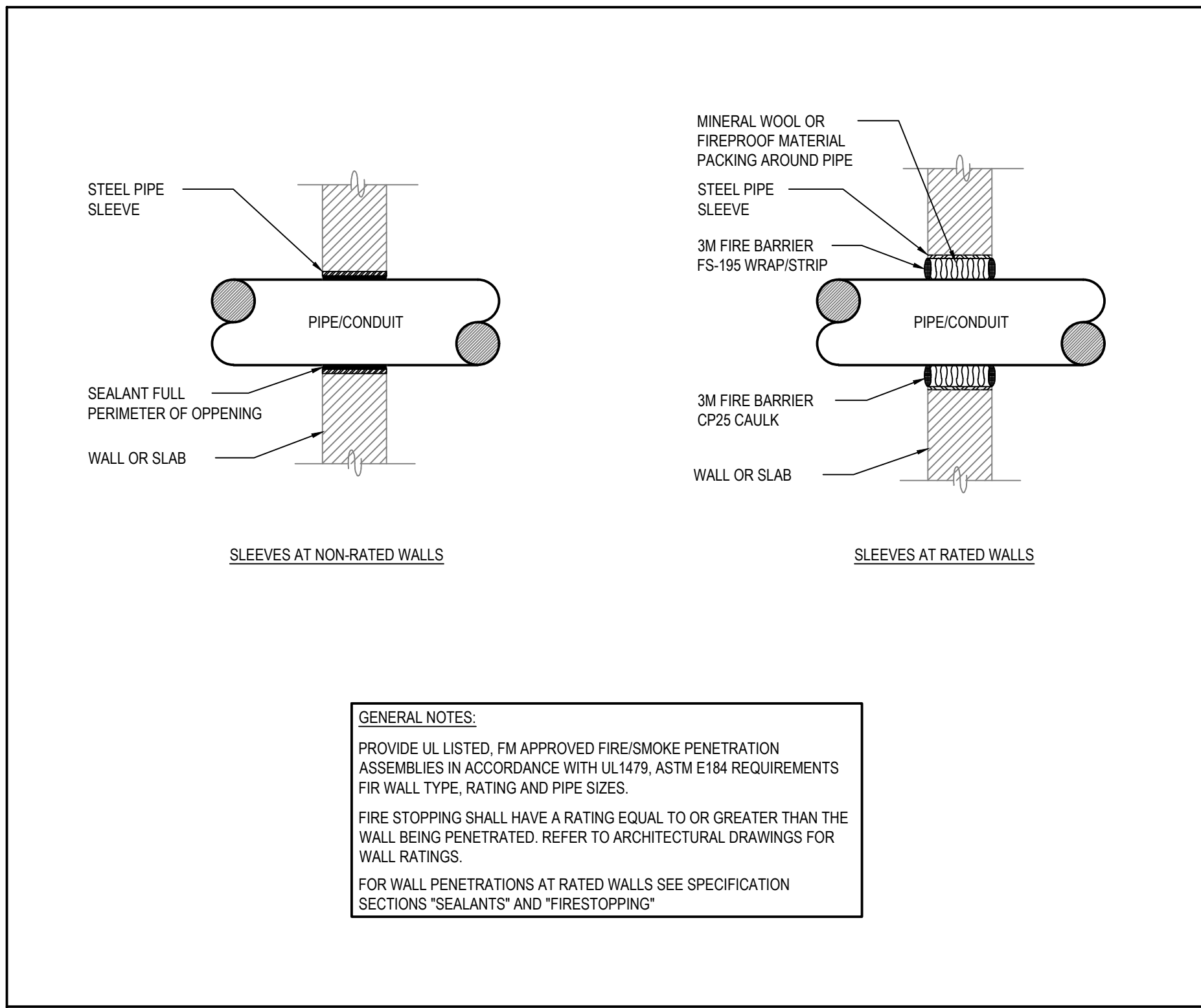


**PLUMBING CONSTRUCTION KEY NOTES**

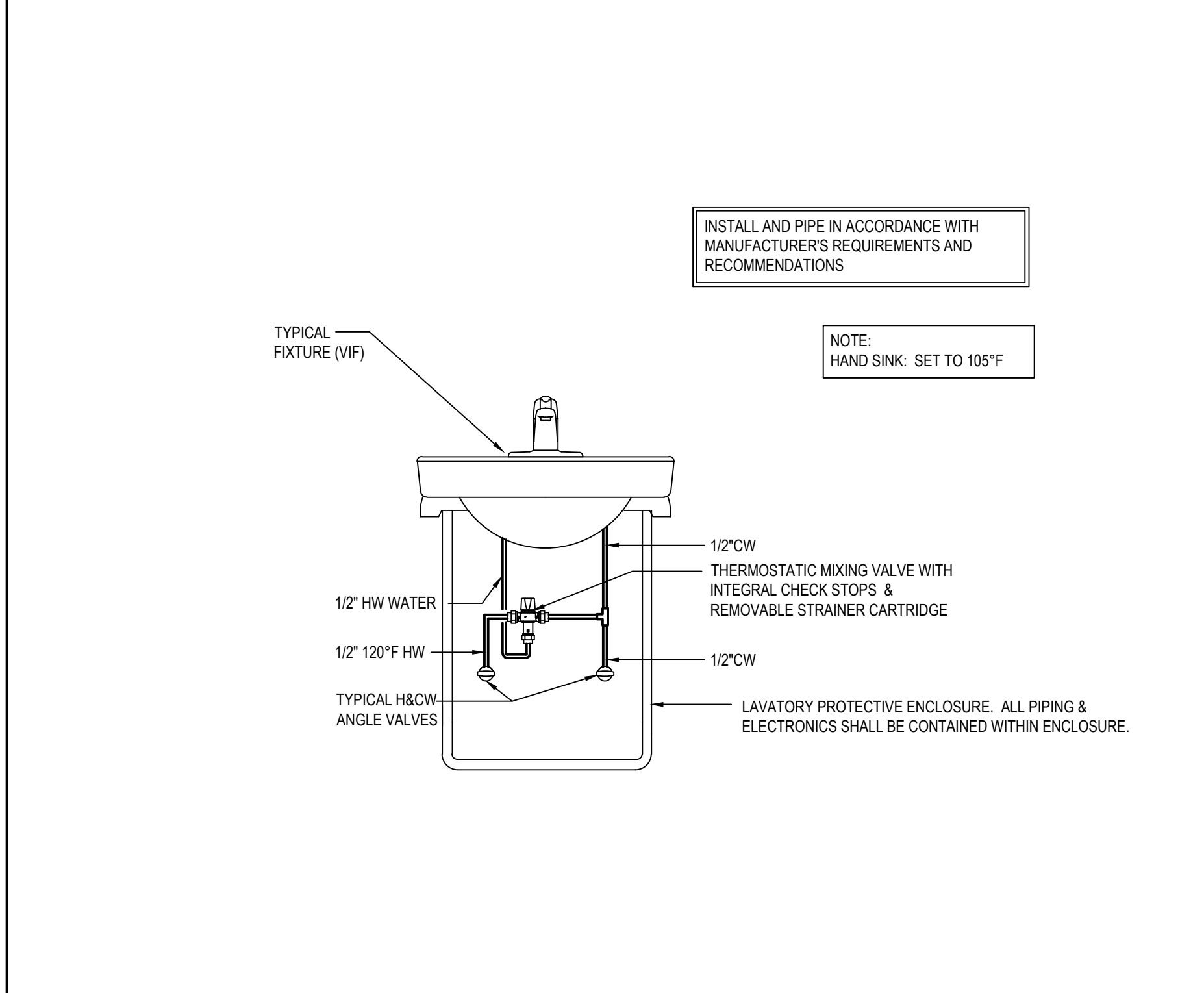
① CONNECT NEW FIXTURE TO EXISTING ROUGH IN'S. PROVIDE ADDITIONAL PIPING, OFFSETS, FITTINGS, ETC. AS REQUIRED FOR INSTALLATION.



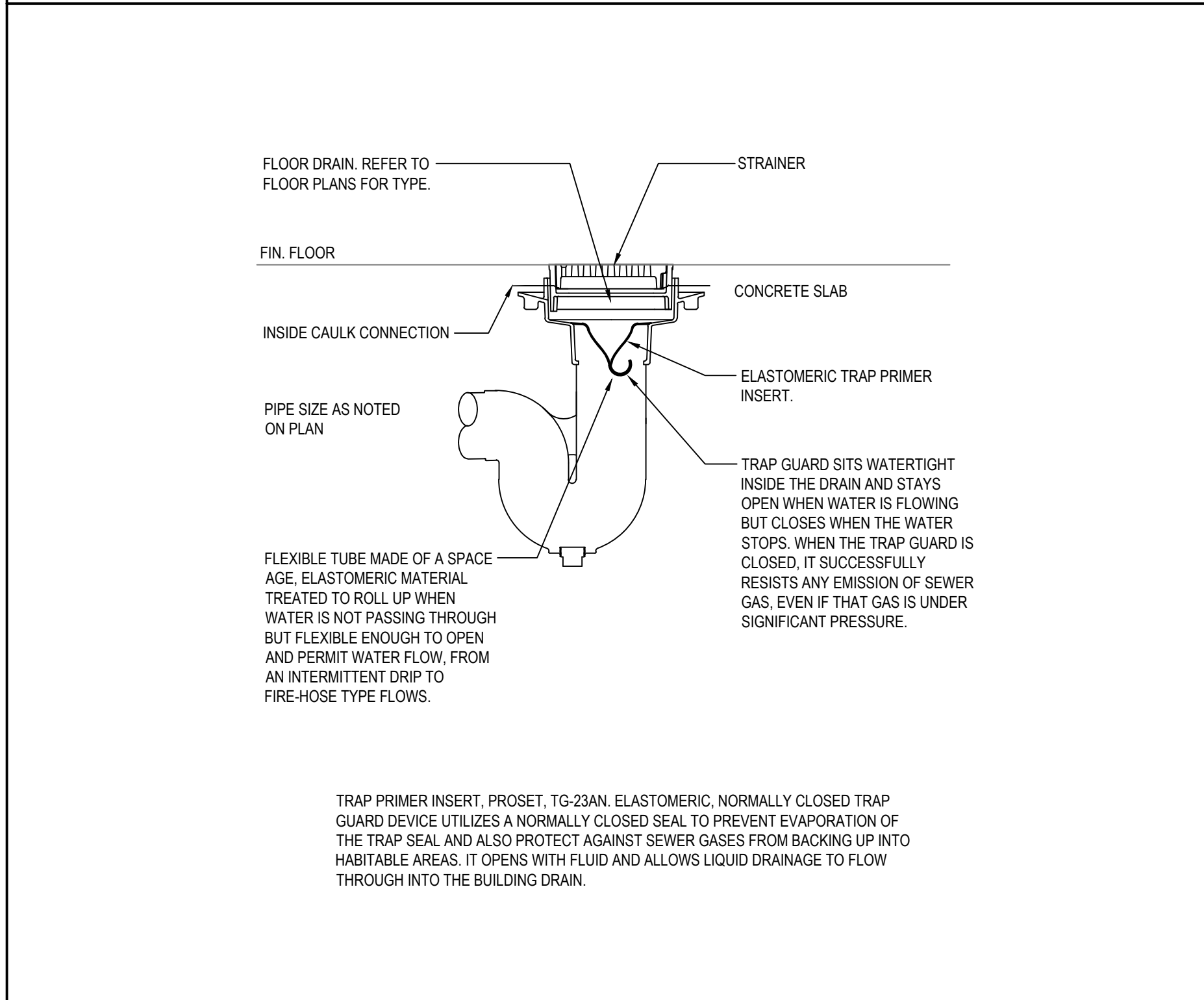
**2** 2ND LEVEL PLAN  
1/8" = 1'-0"



**PIPE PENETRATION DETAIL**  
 NOT TO SCALE



**LAVATORY**  
 NOT TO SCALE



**TRAP BARRIER DETAIL**  
 NOT TO SCALE

PIPE AND FITTING SCHEDULE						
DESCRIPTION	SIZE	PIPE		FITTING		REMARKS
		TYPE	SCHEDULE	TYPE	RATING	
SOIL, WASTE AND VENT ABOVE GROUND	ALL	CI/NH	SV	CI	SV	4 BAND FOR 4" AND SMALLER FOR LARGER THEN 4" 6 BAND
SOIL, WASTE AND VENT BELOW GROUND	ALL	CI/H&S	SV	CI	SV	--
DOMESTIC COLD WATER WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC HOT WATER WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC HOT WATER RECIRCULATION WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED

**NOTES:**  
 1. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH.  
 2. ALL PIPING IN RETURN AIR CEILING PLENUM INSTALLATIONS SHALL BE UL LISTED FOR THIS APPLICATION.  
 3. MECHANICAL JOINTS ARE ALLOWED FOR SERVICE, PURPOSED ONLY IN WALLS AND CEILINGS BUT MUST BE READILY ACCESSIBLE. 25/50 PVDF IS UL LISTED FOR RETURN AIR CEILING PLENUM INSTALLATIONS.

ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
AWWA	AMERICAN WATER WORKS ASSOCIATION	NH	NO HUB WISUPER DUTY HUSKY SD 4000 CLAMP
CI	CAST IRON	STD	STANDARD
CPVC	CHLORINATED POLYVINYL CHLORIDE	STL-BLK	BLACK STEEL
CUS	WROUGHT COPPER SOLDER (95/5)	SV	SERVICE WEIGHT
H&S	HUB AND SPIGOT	MJ	MECHANICAL JOINT

VALVE SCHEDULE									
DESCRIPTION	SIZE	TYPE						CLASS	REMARKS
		GATE	GLOBE	CHECK	BALL	PLUG	BALANCE		
DOMESTIC COLD WATER	3" AND SMALLER	GVT	GLVT	CVT	BVT	--	--	125PSI	--
DOMESTIC HOT WATER	3 AND SMALLER	GVT	GLVT	CVT	BVT	--	CBV	125PSI	--

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
BVT	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE	CVF	CHECK VALVE FLANGED - IMMB
CBV	CALIBRATED BALANCING VALVE - BRONZE	CVT	CHECK VALVE THREADED - BRONZE
GVT	GATE VALVE THREADED - BRONZE	GVF	GATE VALVE FLANGED - IMMB

INSULATION SCHEDULE					
SYSTEM	PIPE SIZE	INSULATION TYPE	INSULATION THICKNESS	FITTINGS, VALVES, FLANGES INSULATION TYPE	REMARKS
DOMESTIC COLD WATER	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1
DOMESTIC HOT WATER	< 1-1/2	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1
DOMESTIC HOT WATER	> 1-1/2	MINERAL FIBER, ASJ, SSL	1 1/2"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1

**NOTES:**  
 1. FIBERGLASS INSULATION: THERMAL CONDUCTIVITY: 22 TO 28BTU x IN.H x FT x °F W/ 100°F MEAN TEMP. THICKNESS BASED ON ASHRAE 90.1, 1999 6.2.4.5  
 2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS  
 3. ALL KITCHEN WASTE SHALL BE HEAT TRACED FROM FIXTURE TO THE GREASE INTERCEPTOR

THERMOSTATIC MIXING VALVE SCHEDULE										
MARK	EQUIPMENT BEING SERVED (I.E. WATER HEATER, ETC...)	AREA SERVED	FLOW RATE @ 10PSI DIFFERENTIAL	MINIMUM FLOW RATE GPM	INLET TEMP.	OUTLET TEMP.	INLET SIZE	OUTLET SIZE	MANUFACTURER MODEL	REMARKS
TMV-1	LAVS	BUILDING	1 GPM	0.25 GPM	120°F	100°F	1/2"	1/2"	POWERS LEG480	ASSE 1070

**NOTES:**  
 1. MAXIMUM PRESSURE DIFFERENTIAL SHALL BE 10PSI FOR MIXING VALVE

PIPE HANGER SPACING TABLE			
PIPE MATERIAL	PIPE SIZES (INCHES)	HORIZONTAL PIPE MAX. HANGER DISTANCE (FT)	VERTICAL PIPE MAX. HANGER DISTANCE (FEET)
COPPER & COPPER ALLOY TUBING	1-1/4" & SMALLER	6'-0"	10'-0"
COPPER & COPPER ALLOY TUBING	1-1/2" & LARGER	10'-0"	10'-0"
COPPER & COPPER ALLOY PIPE	ALL	12'-0"	10'-0"
CAST IRON PIPE	ALL	5'-0" *	15'-0"
STEEL PIPE	ALL	12'-0"	15'-0"
STAINLESS STEEL DRAINAGE	ALL	10'-0"	10'-0" **
CPVC PIPE OR TUBING	1" & SMALLER	3'-0"	10'-0" **
CPVC PIPE OR TUBING	1-1/4" & LARGER	4'-0"	10'-0" **
PVC PIPE	ALL	4'-0"	10'-0" **

**NOTES:**  
 \* MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED TO 10'-0" WHERE 10'-0" LENGTHS OF PIPE ARE USED  
 \*\* MIDSTORY GUIDE FOR SIZES 2" AND SMALLER  
 NOT ALL PIPE MATERIALS ON THIS TABLE WILL PERTAIN TO THIS PROJECT

PLUMBING FIXTURE/EQUIPMENT SCHEDULE					
MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	ROUGH-IN			
		WASTE/SANITARY	VENT	CW	HW
PLUMBING CONTRACTOR TO COORDINATE FIXTURE HEIGHT, TYPE, ETC. WITH ARCHITECTURAL TOILET PLANS.					
W-1 W-1A	WATER CLOSET, WALL HUNG, FLUSH VALVE, STANDARD HEIGHT & ADA HEIGHT (REFER TO ARCHITECTURAL DRAWINGS), AMERICAN STANDARD AFWALL MILLENNIUM SYSTEM, MODEL NO 2856 016, VITREOUS CHINA, ELONGATED BOWL, WITH EVERCLEAN SURFACE, WITH 1.6 GPM PISTON MANUAL FLUSHMETER, 1-1/2" TOP SPUD, SIFON JET TOILET WITH WALL SUPPLY, AMERICAN STANDARD HEAVY DUTY SEAT WITH EVERCLEAN MODEL 9905 110, OPEN FRONT SEAT. PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	4"	2"	1"	--
U-1 U-1A	URINAL, WALL HUNG, U-1 STANDARD HEIGHT, U-1A ADA HEIGHT, (REFER TO ARCHITECTURAL DRAWINGS), AMERICAN STANDARD, WASHBROOM FLOWISE MODEL NO 6990 903, WITH MANUAL PISTON 0.125 (1/8") GPF FLUSHMETER, VITREOUS CHINA 3/4" INLET SPUD WALL SUPPLY WASHOUT URINAL WITH FULLY ENCLOSED P-TRAP. PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	4"	2"	1"	--
L-1A	SOLID SURFACE 2 STATION LAVATORY, MANUFACTURED BY BRADLEY, LD-310 DAWN DECK, 3000 SERIES, ADA COMPLIANT WHEN PROPERLY INSTALLED - REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAIL HEIGHT, CUSTOM DECK LENGTH CST, 65" VERIFY IN-FIELD EACH LOCATION, 22" DECK DEPTH, FINISH BRUSHED STAINLESS, BOWL CONFIGURATION: SL-TR1, 2 BOWLS, COLOR: GLACIER, BACKSPASH BS, FRONT APRON FA, WITH LEFT AND RIGHT SIDE TYPE LSS & RSS, 3" SPASH HEIGHT, 3" APRON HEIGHT, FAUCET: SHANK CENTERSHANK, NO TEMP, NO FACTORY FAUCET, FAUCET, MANUFACTURED BY SYMMONS, SLS-6710-1-0-0-S-G, SINGLE HANDLE, 0.5 GPM, GRID DRAIN, PROVIDE WITH TMV-1 (SEE OTHER SCHEDULE).	1-1/2"	1-1/2"	1/2"	1/2"
L-2A	LAVATORY, WALL HUNG LAVATORY, MANUFACTURED BY AMERICAN STANDARD, COMRADE, MODEL 0124 131, 3 HOLE, 4" CENTER FAUCET HOLES (20" X 18-1/4"), VITREOUS CHINA, FAUCET, MANUFACTURED BY SYMMONS, SLS-6710-1-0-0-G-G, SINGLE HANDLE, 0.5 GPM, GRID DRAIN, 4" DECK PLATE FOR SINGLE HOLE MOUNTING, PROVIDE WITH TMV-1 (SEE OTHER SCHEDULE), 20" FLEXIBLE INLET HOSES WITH 3/8" COMPRESSION FITTINGS, ASSE 1070 CERTIFIED DOWN TO 0.35 GPM, PROVIDE 1/2" CHROME PLATED CAST BRASS P-TRAP, SUPPLIES, BRASS ANGLE STOPS, WITH LOOSE KEY OPERATION, GRID DRAIN, ETC. FOR COMPLETE INSTALLATION, COORDINATE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION, PROVIDE LAV SHIELD BY TRUEBRO, ADA COMPLIANT, WITH TAMPER RESISTANT FASTENERS.	1-1/2"	1-1/2"	1/2"	1/2"
S-1A	SINGLE BOWL SINK, ADA COMPLIANT, ELKAY LRAD252255, 25 X 22 X 5-1/2", 18 GAUGE TYPE 302 STAINLESS STEEL, SELF-RIMMING, OFFSET REAR DRAIN, SINGLE HOLE, FAUCET: SYMMONS IDENTITY, SK6710P, 1.5 GPM, SINGLE LEVER SWING SPOUT FAUCET WITH PULL DOWN SPRAY HEAD, PROVIDE 1/2" CHROME PLATED CAST BRASS P-TRAP, SUPPLIES, BRASS ANGLE STOPS WITH LOOSE KEY OPERATION, GRID DRAIN, ETC. FOR COMPLETE INSTALLATION.	1-1/2"	1-1/2"	1/2"	1/2"
TP	TRAP PRIMER INSERT, PROSET, TG-23AN, ELASTOMERIC, NORMALLY CLOSED TRAP GUARD DEVICE UTILIZES A NORMALLY CLOSED SEAL TO PREVENT EVAPORATION OF THE TRAP SEAL AND ALSO PROTECT AGAINST SEWER GASES FROM BACKING UP INTO HABITABLE AREAS. PROVIDE FOR ALL NEW AND EXISTING FLOOR DRAINS.	--	--	--	--
SA	WATER HAMMER ARRESTOR, PRECISION PLUMBING PRODUCTS (PPP) SC SERIES, 1/2"-1", SIZE PER MANUFACTURER RECOMMENDATIONS AND REQUIREMENTS	--	--	1/2"-1"	--

**NOTES:**  
 1. LAVATORY & WATER COOLERS SUPPLY SHALL BE BRASS W/ BRASS ANGLE STOPS FOR 1/2" WATER SUPPLY LINES, W/ LOOSE KEY (WICAP), AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH MANUFACTURER, BRASS CRAFT OR APPROVED EQUAL.  
 2. CAST BODY "TP" TRAP 1-1/2" x 1-1/2" WITH HEAVY CAST J-BEND & FLAT CLEANOUT PLUG, SLIP NUTS AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH, MANUFACTURER, BRASS CRAFT OR APPROVED EQUAL.  
 3. STRAINERS SHALL BE FURNISHED WITH FIXTURES AS REQUIRED. FOR HC LAVATORY OR SINKS PROVIDE OFFSET TAILPIECE.  
 4. PROVIDE TRUEBRO MODEL 103 (WHITE), ANTIMICROBIAL HAND LAV-GUARDS INSTALLATION KIT FOR ALL WHEELCHAIR LAVATORY & SINKS FOR WATER SUPPLIES & WASTE LINE.  
 5. PROVIDE WATER SUPPLY & "P" TRAP & OPTIONAL WATER FILTERS FOR ELECTRIC WATER COOLERS AS PER MANUFACTURERS RECOMMENDATIONS.  
 6. THE PLUMBING FIXTURES VENDOR SHALL COORDINATE WITH THE PLUMBING AND GENERAL CONTRACTOR ALL PLUMBING FIXTURES ROUGH IN DIMENSIONS BEFORE CONSTRUCTION BEGIN.  
 7. UNLESS SHOWN ABOVE, PLUMBING FIXTURES MANUFACTURER, TRIM COLOR AND FINISH SHALL BE FURNISHED AS DIRECTED BY OWNER/ARCHITECT.  
 8. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD, A.D.A MOUNTING AND CHILD HEIGHTS. REFER TO ARCHITECTURAL FOR LOCATION OF A.D.A COMPLIANT SHOWER SEAT AND SHOWER BARS.  
 9. CONTRACTOR TO PROVIDE AN EXTRA 10% OF BATTERIES, AERATORS, CARTRIDGE, ETC...  
 10. ALL HARD WIRED FAUCETS TO A HIVE BOX MOUNTED TRANSFORMER ABOVE CEILING. REFER TO ELECTRICAL DOCUMENTS FOR LOCATIONS AND CONNECTION POINT.

## PLUMBING SPECIFICATIONS

GENERAL	REVIEW FOR ACCEPTABILITY OF INSTALLATIONS.
<p>THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AS NECESSARY TO PROVIDE A COMPLETE INSTALLATION INCLUDING COORDINATION, SYSTEM CHECK OUT AND START UP ON EACH ITEM AND SYSTEM.</p> <p>THIS CONTRACTOR SHALL INFORM HIMSELF FROM THE GENERAL CONSTRUCTION SPECIFICATIONS AND PLANS, OF THE EXACT DIMENSION OF FINISHED WORK AND OF THE HEIGHT OF FINISHED CEILINGS IN ALL ROOMS WHERE EQUIPMENT OR PIPES ARE TO BE PLACED AND ARRANGE HIS WORK IN ACCORDANCE WITH THE SCHEDULE OF INTERIOR FINISHES, AS INDICATED ON THE ARCHITECTURAL DRAWINGS.</p> <p>MANUFACTURER'S QUALIFICATIONS: FIRMS REGULARLY ENGAGED IN THE MANUFACTURE OF FITTINGS, APPLIANCES, PIPES AND PIPE FITTINGS OF TYPES AND SIZES REQUIRED, WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN 8 YEARS.</p> <p>MATERIAL QUALIFICATIONS: SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL/FEDERAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THESE SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.</p> <p>BRAZING: CERTIFY BRAZING PROCEDURES, BRAZERS, AND OPERATORS IN ACCORDANCE WITH ASME BOILER AND PRESSURE VESSEL CODE, SECTION IX, FOR SHOP AND JOB-SITE BRAZING OF PIPING WORK.</p> <p><u>RELATED DOCUMENTS</u></p> <p>DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.</p> <p><u>DEFINITIONS</u></p> <p>FINISHED SPACES: SPACES OTHER THAN MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, FURRED SPACES, PIPE CHASES, UNHEATED SPACES IMMEDIATELY BELOW ROOF, SPACES ABOVE CEILINGS, UNEXCAVATED SPACES, CRAWLSPACES, AND TUNNELS.</p> <p>EXPOSED, INTERIOR INSTALLATIONS: EXPOSED TO VIEW INDOORS. EXAMPLES INCLUDE FINISHED OCCUPIED SPACES AND MECHANICAL EQUIPMENT ROOMS.</p> <p>CONCEALED, INTERIOR INSTALLATIONS: CONCEALED FROM VIEW AND PROTECTED FROM PHYSICAL CONTACT BY BUILDING OCCUPANTS. EXAMPLES INCLUDE ABOVE CEILINGS AND IN CHASES.</p> <p>CONCEALED, EXTERIOR INSTALLATIONS: CONCEALED FROM VIEW AND PROTECTED FROM WEATHER CONDITIONS AND PHYSICAL CONTACT BY BUILDING OCCUPANTS BUT SUBJECT TO OUTDOOR AMBIENT TEMPERATURES. EXAMPLES INCLUDE INSTALLATIONS WITHIN UNHEATED SHELTERS.</p> <p><u>QUALITY ASSURANCE</u></p> <p>STEEL SUPPORT WELDING: QUALIFY PROCESSES AND OPERATORS ACCORDING TO AWS D1.1, "STRUCTURAL WELDING CODE-STEEL."</p> <p>COMPLY WITH PROVISIONS IN ASME B31 SERIES, "CODE FOR PRESSURE PIPING."</p> <p>ELECTRICAL CHARACTERISTICS FOR PLUMBING EQUIPMENT: EQUIPMENT OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICES, CIRCUIT BREAKERS, AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED. IF MINIMUM ENERGY RATINGS OR EFFICIENCIES ARE SPECIFIED, EQUIPMENT SHALL COMPLY WITH REQUIREMENTS.</p> <p><u>DELIVERY, STORAGE, AND HANDLING</u></p> <p>DELIVER PIPES AND TUBES WITH FACTORY-APPLIED END CAPS. MAINTAIN END CAPS THROUGH SHIPPING, STORAGE, AND HANDLING TO PREVENT PIPE END DAMAGE AND TO PREVENT ENTRANCE OF DIRT, DEBRIS, AND MOISTURE.</p> <p>STORE PLASTIC PIPES PROTECTED FROM DIRECT SUNLIGHT. SUPPORT TO PREVENT SAGGING AND BENDING.</p> <p><u>COORDINATION</u></p> <p>PREPARE AND SUBMIT COORDINATION DRAWINGS. REFER TO OTHER DIVISIONS FOR REQUIREMENTS.</p> <p>CLOSELY SCHEDULE THE WORK SO THAT WORK WILL BE INSTALLED AT THE PROPER TIME WITHOUT DELAYING THE COMPLETION OF THE ENTIRE PROJECT.</p> <p>WHERE THE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO THE WORK OF OTHER TRADES, OR WHERE THERE IS EVIDENCE THAT THE WORK WILL INTERFERE WITH THE WORK OF OTHER TRADES, ARRANGE SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF WORK IS INSTALLED BEFORE COORDINATING WITH OTHER TRADES, MAKE NECESSARY CHANGES TO THE WORK TO CORRECT THE CONDITION WITHOUT ADDITIONAL COST TO THE OWNER.</p> <p>PREPARE COMPLETE SET OF DRAWINGS SHOWING ALL NECESSARY SLAB OPENINGS AND STRUCTURAL SUPPORTS THAT REQUIRE STRUCTURAL FRAMING. DRAWINGS SHALL CLEARLY INDICATE SIZES AND LOCATION RELATIVE TO ESTABLISHED COLUMN LINES. DRAWINGS SHALL BE COMPLETED IN SUFFICIENT TIME TO ALLOW FOR STRUCTURAL STEEL FABRICATION SO AS NOT TO DELAY PROJECT SCHEDULE.</p> <p>SHOP DRAWING SUBMISSIONS SHALL DEMONSTRATE A KNOWLEDGE OF THE WORK OF OTHER TRADES, AND SHALL SHOW THE LOCATIONS OF THE WORK OF OTHER TRADES WHICH AFFECTS THE WORK OF THIS CONTRACT.</p> <p>ARRANGE FOR PIPE SPACES, CHASES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR PLUMBING INSTALLATIONS.</p> <p>COORDINATE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED.</p> <p>COORDINATE REQUIREMENTS FOR ACCESS PANELS AND DOORS FOR PLUMBING ITEMS REQUIRING ACCESS THAT ARE CONCEALED BEHIND FINISHED SURFACES. ACCESS PANELS AND DOORS ARE SPECIFIED IN DIVISION 8 SECTION "ACCESS DOORS AND FRAMES."</p> <p><u>COORDINATION DRAWINGS</u></p> <p>SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.</p> <p>AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEER COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHERS TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:</p> <p>PLUMBING CONTRACTOR ELECTRICAL WORK MECHANICAL PIPING</p> <p>AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.</p> <p>THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE RELATIVE TO ACCEPTABILITY OF INSTALLATIONS.</p> <p>SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL</p>	<p>ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.</p> <p>EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.</p> <p>THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.</p> <p><u>AS-BUILT DRAWINGS</u></p> <p>PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEER'S COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.</p> <p>PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:</p> <p>INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.</p> <p>MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.), VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.</p> <p>EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.</p> <p>APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.</p> <p>CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.</p> <p>SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.</p> <p><u>PIPE MATERIALS</u></p> <p>REFER TO SCHEDULE ON DRAWING.</p> <p>PIPE LABELS</p> <p>GENERAL REQUIREMENTS FOR MANUFACTURED PIPE LABELS: PREPRINTED, COLOR-CODED, WITH LETTERING INDICATING SERVICE, AND SHOWING FLOW DIRECTION.</p> <p>PRETENSIONED PIPE LABELS: PRECOLED, SEMIRIGID PLASTIC FORMED TO COVER FULL CIRCUMFERENCE OF PIPE AND TO ATTACH TO PIPE WITHOUT FASTENERS OR ADHESIVE.</p> <p>SELF-ADHESIVE PIPE LABELS: PRINTED PLASTIC WITH CONTACT-TYPE, PERMANENT ADHESIVE BACKING.</p> <p>PIPE LABEL CONTENTS: INCLUDE IDENTIFICATION OF PIPING SERVICE USING SAME DESIGNATIONS OR ABBREVIATIONS AS USED ON DRAWINGS; PIPE SIZE, AND AN ARROW INDICATING FLOW DIRECTION.</p> <p>FLOW DIRECTION ARROWS: INTEGRAL WITH PIPING SYSTEM SERVICE LETTERING TO ACCOMMODATE BOTH DIRECTIONS OR AS SEPARATE UNIT ON EACH PIPE LABEL TO INDICATE FLOW DIRECTION.</p> <p>LETTERING SIZE: AT LEAST 1-1/2 INCHES HIGH.</p> <p><u>VALVE TAGS</u></p> <p>VALVE TAGS: STAMPED OR ENGRAVED WITH 1/4-INCH LETTERS FOR PIPING SYSTEM ABBREVIATION AND 1/2-INCH NUMBERS.</p> <p>TAG MATERIAL: BRASS, 0.032-INCH MINIMUM THICKNESS, AND HAVING REDRILLED OR STAMPED HOLES FOR ATTACHMENT HARDWARE.</p> <p>FASTENERS: BRASS WIRE-LINK OR BEADED CHAIN, OR S-HOOK.</p> <p>VALVE SCHEDULES: FOR EACH PIPING SYSTEM, ON 8-1/2-BY-11-INCH BOND PAPER. TABULATE VALVE NUMBER, PIPING SYSTEM, SYSTEM ABBREVIATION (AS SHOWN ON VALVE TAG), LOCATION OF VALVE (ROOM OR SPACE), NORMAL OPERATING POSITION (OPEN, CLOSED, OR MODULATING), AND VARIATIONS FOR IDENTIFICATION. MARK VALVES FOR EMERGENCY SHUTOFF AND SIMILAR SPECIAL USES.</p> <p>VALVE-TAG SCHEDULE SHALL BE INCLUDED IN OPERATION AND MAINTENANCE DATA.</p> <p><u>PIPE HANGERS, SUPPORTS, SEISMIC RESTRAINT, AND VIBRATION ISOLATION</u></p> <p>SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT OF ALL PLUMBING EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM. REFER TO OTHER DIVISION 15 REQUIREMENTS.</p> <p>PROVIDE NECESSARY STRUCTURAL MEMBERS, HANGERS AND SUPPORTS OF APPROVED DESIGN TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.</p> <p><u>INSULATION</u></p> <p>REFER TO SCHEDULE ON DRAWING.</p> <p>ALL INSULATING MATERIALS SHALL COMPLY WITH THE FOLLOWING RATINGS:</p> <p>FLAMESPREAD -25 SMOKE DEVELOPED -50 FUEL CONTRIBUTED -50</p> <p>FIBERGLASS PIPING INSULATION (INTERIOR)</p> <p>MOLDED FIBROUS GLASS WITH 3.5 POUNDS MINIMUM DENSITY, MAXIMUM K = 3 AT 200 DEGREE F, MEAN AND RATED TO 450 DEGREE F. THE INSULATION SHOULD BE SECTIONAL PIPE JACKETED WITH AN EMBOSSED VAPOR BARRIER LAMINATE.</p> <p><u>MANUFACTURERS:</u></p> <p>OWENS-CORNING, TYPE 25 ASJ</p>
<p>KNAUF - PIPE INSULATION WITH ASJ CERTAINTED - TYPE 500 SNAP-ON WITH ASJ MANVILLE - MICRO-LOK 650 WITH AF JACKET</p> <p>D.TYPE G - FIBERGLASS INSULATION FOR VALVES, FITTINGS, FLANGES (VAPOR SEAL INSULATION)</p> <p>MOLDED, FACTORY-FORMED FIBROUS GLASS WITH 3.5 PCF MINIMUM DENSITY, MAX. K = 3 AT 200F, MEAN, RATED TO 450 DEGREE F. ALL JOINTS TO BE SEALED WITH VAPOR BARRIER ADHESIVE AND WRAPPED WITH GLASS MESH TAPE. EACH FITTING TO BE FINISHED WITH TWO COATS OF BENJAMIN FOSTER 30-35 VAPOR SEAL.</p> <p><u>VALVES</u></p> <p>GENERAL: APPROVED MANUFACTURERS: NORCO, APOLLO, STOCKHOLM. REFER TO SCHEDULE ON DRAWING.</p> <p><u>PIPE SLEEVES AND SEALS</u></p> <p>MASONRY WALLS AND SLABS: SCHEDULE 40 GALVANIZED STEEL PIPE WITH INTEGRAL WATER STOP.</p> <p>SLEEVE ADAPTERS: COATED CAST IRON, EQUIPPED WITH FLASHING CLAMP.</p> <p>CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH PARTITIONS, SLABS AND/OR CEILINGS WITH A U.L.L. APPROVED FIRE/SMOKE STOP TO MAINTAIN THE INTEGRITY OF THE RESPECTIVE RATING INCLUDING SMOKE TIGHT PARTITIONS.</p> <p><u>CLEANOUTS</u></p> <p>REFER TO SCHEDULE ON DRAWING.</p> <p><u>PLUMBING FIXTURES</u></p> <p>FIXTURES: NEW, COMPLETE WITH TRIMMINGS AND FITTINGS, INCLUDING FAUCETS, CARRIERS, SUPPLIES, STOPS, TRAPS, TAILPIECES, WASTE PLUGS, CASINGS, HANGERS, PLATES, BRACKETS, ANCHORS, SUPPORTS, HARDWARE AND FASTENING DEVICES.</p> <p>STAINLESS STEEL: TYPE 302, 304, 316, OR 317, AS NOTED, SOUND DEADENED.</p> <p>TRIMMINGS AND FITTINGS: CONSTRUCT OF FORGED, CAST, ROLLED OR EXTRUDED BRASS OR BRONZE WITH MONEL AND OTHER SUITABLE NON-CORROSIVE PARTS. DESIGNED WITH EASILY RENEWABLE PARTS THAT ARE SUBJECT TO WEAR OR DETERIORATION. NO DIE CASTINGS AND STAMPINGS OTHER THAN BRASS OR STAINLESS STEEL.</p> <p>REFER TO SCHEDULE ON DRAWING.</p> <p><u>DOMESTIC WATER SPECIALTIES</u></p> <p>THERMOSTATIC MIXING VALVE: THREADED INLETS AND OUTLET, THERMOSTATIC CONTROLLER WITH SWIVEL ACTION CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER (PROVIDE 1 EXTRA CARTRIDGE), STAINLESS STEEL PISTON AND LIQUID FILL, THERMAL MOTOR, VOLUME CONTROL SHUT-OFF VALVE, B-METAL DIAL THERMOMETER, (3" FACE, 20 DEGREE F. TO 240 DEGREE F.) BRASS PIPE, FITTINGS AND UNIONS. ROUGH CHROME BODY FINISH.</p> <p>REFER TO DRAWING FOR MAKE AND MODEL.</p> <p><u>MISCELLANEOUS PLUMBING SPECIALTIES</u></p> <p>WATER HAMMER ARRESTORS: ALL STAINLESS STEEL, MECHANICAL-PNEUMATIC TYPE, HERMETICALLY SEALED BELLOWS, THREADED INLET, 150 PSI WWP. SIZE AND PLACEMENT DETERMINATION: PDI-WH 201.</p> <p>MANUFACTURER: PRECISION PLUMBING PRODUCTS SC SERIES.</p> <p>AIR VENT: BRONZE BODY, STAINLESS STEEL TRIM AND FLOAT, THREADED INLET AND OUTLET; 150 PSI WWP.</p> <p>MANUFACTURER: SARCO 13W SERIES.</p> <p><u>ACCESS DOORS IN WALLS AND CEILINGS</u></p> <p>AT EACH VALVE, CLEANOUT OR PLUMBING DEVICE REQUIRING ACCESS, FURNISH AN ACCESS DOOR. RIGID CONSTRUCTION WITH TWO HINGES AND A LATCH. IN PLENUM CEILINGS, PROVIDE FELT BETWEEN THE DOOR AND FRAME TO MAKE AN AIR TIGHT SEAL. ACCESS DOORS SHALL BE FLUSH MOUNTED, PRIME COATED WITH RUST INHIBITIVE PAINT, CONCEALED FRAME, FLUSH SCREW DRIVER OPERATED LOCKS WITH METAL CAMS AND ANCHORS AS REQUIRED. REFER TO DIVISION 8 FOR ADDITIONAL REQUIREMENTS.</p> <p>ACCESS DOOR SIZES SHALL BE:</p> <ol style="list-style-type: none"> <li>12" X 12" AT EASILY ACCESSIBLE ITEMS.</li> <li>16" X 16" WHERE PARTIAL BODY ACCESS IS REQUIRED.</li> <li>24" X 24" WHERE FULL BODY ACCESS IS REQUIRED.</li> </ol> <p>MANUFACTURER: MILCOR TYPE M SERIES, CESCO SERIES.</p> <p><u>EXECUTION</u></p> <p><u>GENERAL</u></p> <p>THIS CONTRACTOR SHALL INFORM HIMSELF FROM THE GENERAL CONSTRUCTION SPECIFICATIONS AND PLANS, OF THE EXACT DIMENSION OF FINISHED WORK AND OF THE HEIGHT OF FINISHED CEILINGS IN ALL ROOMS WHERE EQUIPMENT OR PIPES ARE TO BE PLACED AND ARRANGE HIS WORK IN ACCORDANCE WITH THE SCHEDULE OF INTERIOR FINISHES, AS INDICATED ON THE ARCHITECTURAL DRAWINGS.</p> <p>MANUFACTURER'S QUALIFICATIONS: FIRMS REGULARLY ENGA</p>	<p>REFER TO SCHEDULE ON DRAWING.</p>



Revision	Description	Date	Revised By



**GENERAL NOTES**

**GENERAL**

- WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
- IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.
- ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
- WORK OF THIS SECTION SHALL BE COVERED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.
- PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.
- WORK SHALL INCLUDE ALL INCIDENTAL LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

- THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS, COORDINATE REQUIREMENTS WITH DIVISION 26.

**ALTERATION WORK AND DEMOLITION**

- UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL DUCTWORK AND PIPING TO REMAIN SHALL BE PROPERLY VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN REMAIN OPERATIONAL.
- NO DEAD ENDS SHALL BE LEFT ON ANY DUCTWORK OR PIPING SYSTEM UPON COMPLETION OF WORK.
- EXISTING DUCTWORK AND PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL, SHALL BE COMPLETELY REMOVED.
- ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.
- RE-ROUTE ALL EXISTING DUCTWORK, PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.
- WHERE PORTIONS OF EXISTING DUCT SYSTEMS ARE TO REMAIN CONTRACTOR TO TAKE AIRFLOW READINGS AT ALL AIR TERMINALS ASSOCIATED WITH THE DUCT SYSTEM TO BE MODIFIED BEFORE COMMENCEMENT OF WORK AND AFTER ALTERATION WORK IS COMPLETE. AIR-BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT NEES CERTIFIED COMPANY, NOT ASSOCIATED WITH THE CONTRACTOR. REPORTS ARE TO BE ISSUED TO THE OWNER AND ENGINEER AT BOTH OCCURRENCES. IF AS-BUILTS ARE AVAILABLE, DISCREPANCIES NOTED BETWEEN THE AS-BUILT DRAWINGS AND THE INITIAL AIR FLOW READINGS ARE TO BE NOTED ON THE AIR FLOW REPORT. EXISTING AIR TERMINALS ARE TO BE BALANCED TO THE ORIGINAL READINGS AT COMPLETION OF WORK UNLESS OTHERWISE IDENTIFIED.

**SHOP DRAWINGS**

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR DUCTWORK LAYOUT, PIPING LAYOUT, SHEET METAL SHOP STANDARDS AND ALL EQUIPMENT FURNISHED.
- ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTOCAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2010 IF NOT SPECIFIED.
- PRIOR TO THE SUBMISSION AND REVIEW OF SHEET METAL SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SHEET METAL SHOP STANDARDS. ANY SHEET METAL SHOP DRAWINGS SUBMITTED PRIOR TO THE SUBMISSION OF THE SHOP STANDARDS SHALL BE RETURNED "NOT REVIEWED".

**COORDINATION DRAWINGS**

- ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. IF REQUESTED, ELECTRONIC FILES OF THE MECHANICAL FLOOR PLANS, SECTIONS AND ELEVATIONS ONLY WILL BE MADE AVAILABLE. ELECTRONIC FILES WILL BE RELEASED ONLY UPON RECEIPT OF THE SIGNED AGREEMENT FOR TRANSFER OF ELECTRONIC FILE DATA AGREEMENT FOR TRANSFER OF BUILDING INFORMATION MODEL AND ALL FEES INDICATED THEREIN.
  - DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.
- A. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.
- B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVIEWED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:
- MECHANICAL SHEET METAL

**PLUMBING PIPING**

- MECHANICAL PIPING
  - SPRINKLER PIPING
  - ELECTRICAL WORK
- AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWINGS AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWINGS ARE RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.
  - THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
  - SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.
  - ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
  - EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.
  - THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

**AS-BUILT DRAWINGS**

- PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2010 IF NOT SPECIFIED. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
- PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
  - INCLUDE ALL CHANGES AND AN ACCURATE RECORD IN AUTO-CAD DRAWING OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.
  - INDICATE BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E. TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.
  - EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
  - APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
  - CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.
- SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

**HANGERS AND SUPPORT**

- SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.
- PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT DUCTWORK, PIPING, EQUIPMENT AND TO KEEP IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEANEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SLOEW ADJUSTMENT AFTER EQUIPMENT AND PIPING IS ERRECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.
- PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.
- BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER-LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES, FOR PIPING 2-1/2 INCHES AND LARGER. I-BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED.
- PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

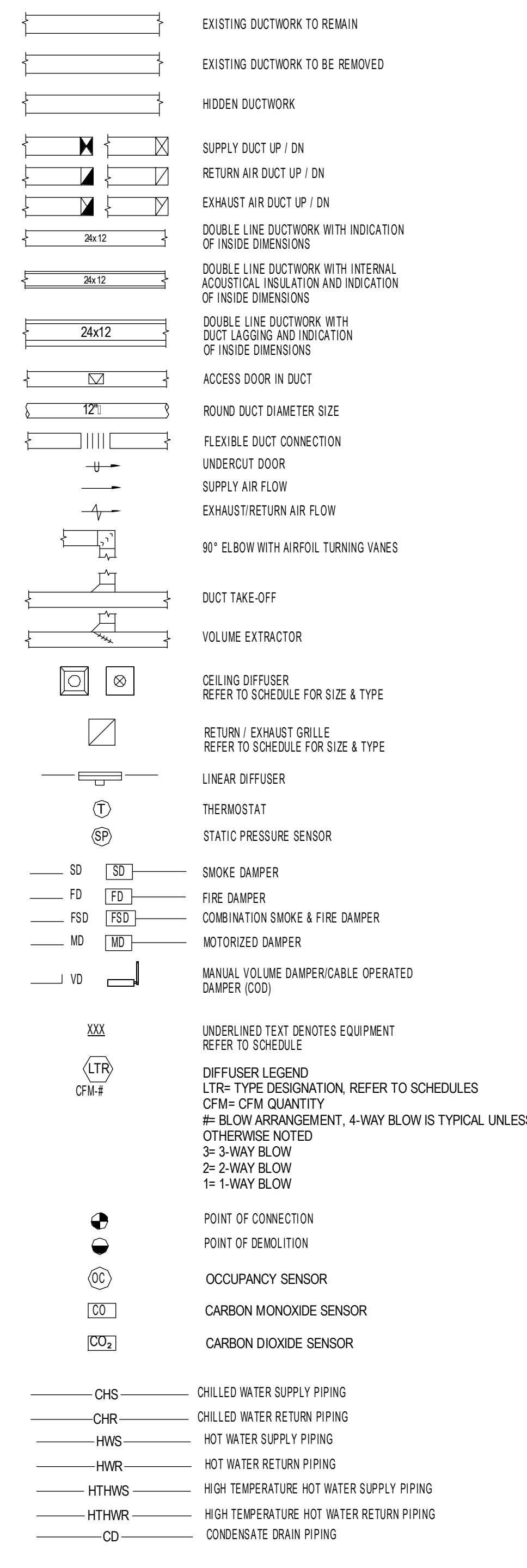
**MECHANICAL NOTES**

- COORDINATE ALL HVAC WORK AND EQUIPMENT WITH STRUCTURAL STEEL, FIRE PROTECTION PIPING, PLUMBING PIPING, LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND OWNER'S EQUIPMENT.
- ALL EXISTING CONDITIONS AS INDICATED ARE APPROXIMATIONS OF EXACT CONDITIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE CONSTRUCTION CONDITIONS BEFORE SUBMITTING BID.
- WHENEVER THE DOCUMENTS INDICATE FOR NEW PIPING TO CONNECT TO AN EXISTING PIPING SYSTEM (OTHER THAN A STEAM SYSTEM), CONTRACTOR SHALL INSTALL A TEMPORARY CORROSION INHIBIT OR SYSTEM TO TREAT THE EXISTING PIPING. THE SYSTEM SHALL CONSIST OF AN INJECTOR, PIPING MODIFICATIONS AND APPLICABLE CHEMICALS REQUIRED TO TREAT THE EXISTING SYSTEM FOR A MINIMUM OF THREE WEEKS PRIOR TO ANY NEW CONNECTIONS. UPON INSTALLATION OF THE NEW PIPING SYSTEM, THE ENTIRE SYSTEM (NEW & EXISTING) SHALL BE FLUSHED WITH A CHEMICAL CLEANSING AGENT.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING GRILLES, REGISTERS AND DIFFUSERS.
- PROVIDE VOLUME DAMPERS IN EACH BRANCH DUCT SERVING DIFFUSER WHETHER INDICATED OR NOT.
- PROVIDE CABLE OPERATED DAMPERS IN BRANCH DUCT SERVING DIFFUSERS IN INACCESSIBLE CEILING LOCATIONS WHETHER INDICATED OR NOT.
- LOCATE ALL DUCT BALANCING DAMPERS ABOVE ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS.
- WHENEVER EXISTING SYSTEMS ARE ALTERED OR EXTENDED THE INTEGRITY OF THE SYSTEM IS TO BE MAINTAINED AND FUNCTION FULLY AS BEFORE. COORDINATE SCHEDULE FOR HOOK UPS TO EXISTING SYSTEMS AND EQUIPMENT REMOVAL OR RELOCATION WITH THE OWNER AND PERFORM THIS WORK AT SUCH TIMES TO ENSURE THAT PERIODS OF SHUTDOWN WILL BE ACCEPTABLE TO THE OWNER.
- VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
- RELOCATE EXISTING DUCTWORK AND/OR PIPE WORK IN EXISTING CEILING SPACES TO ACCOMMODATE ALL RENOVATIONS AND ADDITIONS.
- TAKE DOWN AND REINSTATE EXISTING CEILINGS IN ALL AREAS WHERE MECHANICAL WORK IS INDICATED AND EXISTING CEILINGS REMAIN. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS WHERE EXISTING CEILINGS REMAIN. REPLACE CEILING TILES DAMAGED DURING WORK.
- PATCH ALL WALLS, FLOORS, CEILINGS, AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS REMAIN AND HVAC DEMOLITION IS INDICATED.
- THIS PROJECT CONSISTS OF MULTIPLE PHASES OF CONSTRUCTION OVER A SPECIFIED TIME PERIOD. PROVIDE ALL WORK NECESSARY TO KEEP EXISTING SYSTEMS IN SAFE OPERATION. PROVIDE ISOLATION (SHUTOFF) VALVES AT ALL CONNECTION POINTS TO EXISTING SYSTEMS.
- PROVIDE FIRE DAMPERS, SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS AS REQUIRED TO MAINTAIN WALL & FLOOR RATINGS AS DEFINED IN ARCHITECTURAL DRAWINGS.
- PROVIDE PITCH CORRECTION CURBS FOR ALL MECHANICAL EQUIPMENT AS REQUIRED. ROOF MOUNTED EQUIPMENT TO BE INSTALLED PLUMB AND LEVEL ACCORDING TO EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS.
- PROVIDE STAINLESS STEEL DRIP PANS WITH LEAK DETECTION FOR ALL SUSPENDED EQUIPMENT WITH COOLING COILS. LEAK DETECTION ALARM TO ALERT TO BMS.

**MECHANICAL DEMOLITION NOTES**

- COORDINATE PHASING OF DEMOLITION WITH C.M./G.C. AND PROPOSED CONSTRUCTION SCHEDULE TO MAINTAIN MECHANICAL SERVICES (HEATING, TEMPERATURE CONTROLS, EXHAUSTS, MAKE UP AIR ETC.) TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION.
- THE EXISTING FACILITY WILL BE OCCUPIED AND IN OPERATION DURING THE PERFORMANCE OF THE WORK.
- WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING PIPING OR DUCTWORK WHICH MAY CAUSE DISRUPTION TO OCCUPIED FACILITIES, CONFER WITH THE OWNER, AND SCHEDULE A MUTUALLY AGREEABLE PERIOD OF INTERRUPTION.
- WHERE REPLACEMENT, RELOCATION OR MODIFICATION OF EXISTING EQUIPMENT IS INDICATED, PROVIDE AND MAINTAIN ALL TEMPORARY SERVICES, CONNECTIONS, CONTROLS, AND ANY OTHER MATERIALS AND APPURTENANCES REQUIRED TO MAINTAIN SERVICES TO OCCUPIED AREAS.
- NO WORK SHALL BE LEFT INCOMPLETE, NOR ANY HAZARDOUS SITUATION CREATED, WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNERS PRIOR WRITTEN PERMISSION.
- THE OWNER RESERVES THE RIGHT TO OPERATE ALL EXISTING MECHANICAL EQUIPMENT UNTIL THE NEW SYSTEMS COME ON LINE.
- IT IS REQUIRED THAT THE WORK INDICATED AND/OR SPECIFIED SHALL BE CARRIED OUT WITH A MINIMUM OF INTERFERENCE TO THE ESTABLISHED OPERATIONS OF THE BUILDING.
- REMOVED MATERIALS SHALL BE DISPOSED OF USING LICENSED CARTING SERVICE.
- HAZARDOUS MATERIALS - SHALL BE DISPOSED OF BY AN EPA APPROVED, LICENSED DISPOSAL SERVICE. CONTRACTOR SHALL OBTAIN AND HAVE ON FILE, AFFIDAVIT, AND RECEIPTS STATING HOW AND WHERE THE WASTE WAS DISPOSED OF OR CONVERTED.
- DUCTWORK EQUIPMENT AND TERMINAL DEVICES HAVE BEEN TAKEN FROM FIELD OBSERVATION AND ARE TO BE USED FOR REFERENCE AND SHALL NOT BE CONSTRUED TO BE ACTUAL FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SYSTEMS PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
- CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION TO ANY EXPOSED OR UNCAPPED NEW OR EXISTING DUCTWORK TO REMAIN TO MINIMIZE DUST CONTAMINATION IN ANY AND ALL OF THE AIR SYSTEMS. THIS SHALL INCLUDE BUT IS NOT LIMITED TO TEMPORARY FILTERS, CAPS, ENCLOSURES, ETC.

**GENERAL MECHANICAL SYMBOLS**



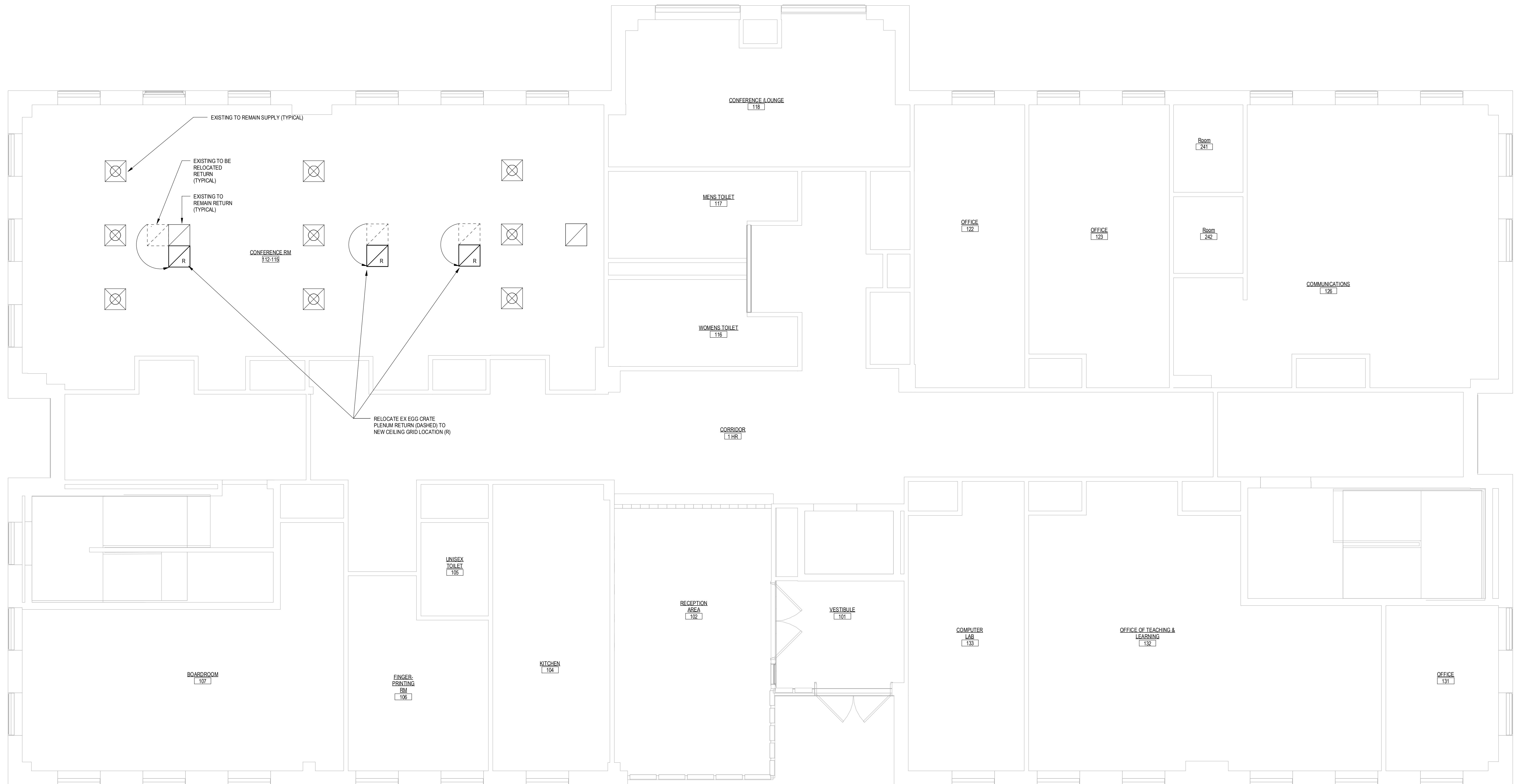
\* ALL SYMBOLS MAY NOT BE USED IN THESE DOCUMENTS.

**MECHANICAL DRAWING LIST**

DRAWING NUMBER	DRAWING DESCRIPTION
M001	GENERAL NOTES - MECHANICAL
M100	FIRST FLOOR PLAN - MECHANICAL
M101	SECOND FLOOR PLAN - MECHANICAL
M200	SPECIFICATIONS AND SCHEDULES - MECHANICAL
M300	DETAILS - MECHANICAL



Revision	Description	Date	Revised By



**1 1ST LEVEL MECHANICAL**  
1/4" = 1'-0"

Project Title:  
**LEARN REGIONAL SERVICE CENTER  
 INTERIOR RENOVATION**  
 44 HATCHETTS HILL RD  
 OLD LYME, CT 06371



**SILVER PETRUCELLI + ASSOCIATES**  
 3190 WHITNEY AVENUE HAMDEN CT 06518  
 311 STATE STREET NEW LONDON CT 06320  
 203 230 9007 silverpetrucci.com

Revision:	Description:	Date:	Revised By:

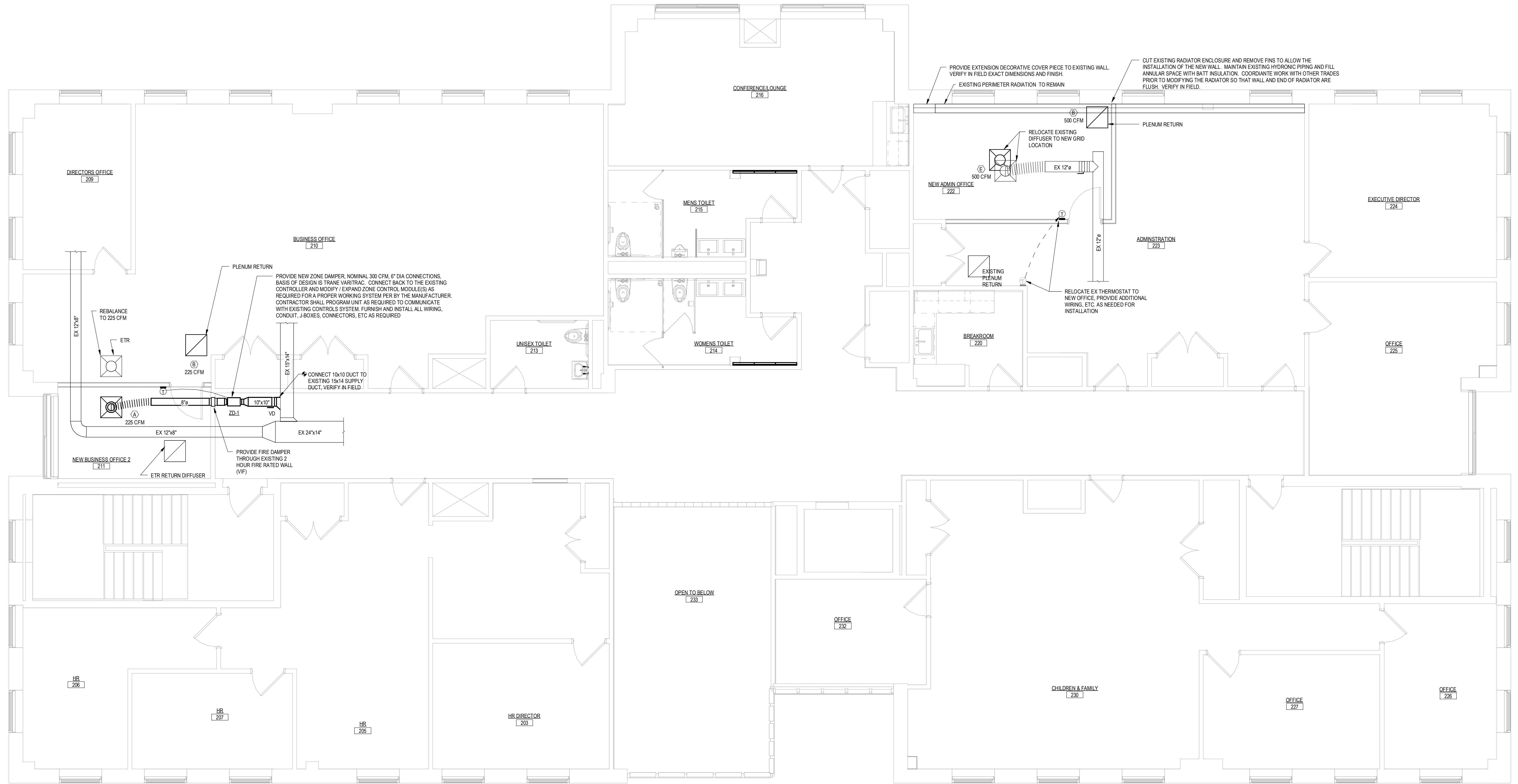
Drawing Title:  
**FIRST FLOOR PLAN - MECHANICAL**

Date:  
 2024.04.11  
 Scale:  
 1/4" = 1'-0"  
 Drawn By:  
 MPB  
 Project Number:  
 23.202

Drawing Number:

**M100**





**2** 2ND LEVEL PLAN MECHANICAL  
 1/4" = 1'-0"

Project Title:  
**LEARN REGIONAL SERVICE CENTER  
 INTERIOR RENOVATION**  
 44 HATCHETTS HILL RD  
 OLD LYME, CT 06371



**SILVER PETRUCELLI + ASSOCIATES**  
 3190 WHITNEY AVENUE HAMDEN CT 06518  
 311 STATE STREET NEW LONDON CT 06320  
 203 230 9007 silverpetrucci.com

Revision:	Description:	Date:	Revised By:

Drawing Title:  
**SECOND FLOOR PLAN - MECHANICAL**

Date:  
 2024.04.11  
 Scale:  
 1/4" = 1'-0"  
 Drawn By:  
 MPB  
 Project Number:  
 23.202

Drawing Number:

**M101**

MECHANICAL SPECIFICATIONS

DUCTWORK
1. REFER TO "HVAC DUCT MATERIAL" SCHEDULE FOR DUCT MATERIALS PER APPLICATION...
DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESSES, SEAM AND JOINT CONSTRUCTION...
PRESSURE CLASS
A. SUPPLY DUCTS (EXCEPT IN MECHANICAL ROOMS): 1-INCH WG.
B. SUPPLY DUCTS (UPSTREAM FROM AIR TERMINAL UNITS): 4-INCH WG.
C. SUPPLY DUCTS (DOWNSTREAM FROM AIR TERMINAL UNITS): 2-INCH WG.
D. SUPPLY DUCTS (IN MECHANICAL EQUIPMENT ROOMS): 2-INCH WG.
E. RETURN DUCTS (NEGATIVE PRESSURE): 1-INCH WG.
F. EXHAUST DUCTS (NEGATIVE PRESSURE): 1-INCH WG.
LEAKAGE CLASS
A. ROUND SUPPLY-AIR DUCT: 3 CFM/100 SQ. FT. AT 1-INCH WG.
B. FLAT-OVAL SUPPLY-AIR DUCT: 3 CFM/100 SQ. FT. AT 1-INCH WG.
C. RECTANGULAR SUPPLY-AIR DUCT: 6 CFM/100 SQ. FT. AT 1-INCH WG.
D. FLEXIBLE SUPPLY-AIR DUCT: 6 CFM/100 SQ. FT. AT 1-INCH WG.
DUCT ACCESS DOORS SHALL BE CONSTRUCTED OF DOUBLE WALL OF THE SAME OR GREATER GAUGE AS DUCTWORK...
SOLVENT-BASED JOINT AND SEAM SEALANT: APPLICATION BRUSH ON; SYNTHETIC RUBBER RESIN BASE...

PERFORMANCE CHARACTERISTICS WHICH MATCH OR EXCEED THOSE INDICATED ON SCHEDULE...
2. CASING: CONSTRUCT OF DIE-CAST ALUMINUM OR SHEET METAL OF THE FOLLOWING MINIMUM THICKNESS: STEEL 22 GAUGE, ALUMINUM 0.032 INCHES.
3. PROVIDE HANGER BRACKETS FOR ATTACHMENT OF SUPPORTS.
4. LINE INSIDE SURFACE OF CASINGS WITH NON-POROUS, SEALED LINING MATERIAL...
5. ACCESS: PROVIDE REMOVABLE PANELS IN CASINGS TO PERMIT ACCESS TO AIR DAMPERS AND OTHER PARTS...
6. CONSTRUCT CASINGS SUCH THAT WHEN SUBJECTED TO 0.5 INCH W.G. PRESSURE FOR LOW PRESSURE UNITS...
7. FLOW SENSOR: THE UNIT INLET SHALL BE EQUIPPED WITH A CROSS-SHAPED OR FULL PERIMETER FLOW SENSOR...
8. VOLUME CONTROL: UNITS SHALL INCORPORATE A PRESSURE INDEPENDENT VOLUME REGULATOR...
9. PROVIDE 22 GAUGE GALVANIZED STEEL DAMPER BLADE THAT SEATS AGAINST ROLLED BEAD IN CASING...
10. PROVIDE UNIT CONTROL MODULE ON EACH ZONE DAMPER...
11. PROVIDE ZONE SENSOR WITH EACH ZONE DAMPER...
CLEANING, BALANCING AND ADJUSTMENT
1. THOROUGHLY CLEAN ALL NEW APPARATUS (COILS, REPLACE FILTERS, ETC) PRIOR TO PLACING IN OPERATION...
2. AIR BALANCING SHALL BE PROVIDED UNDER THIS CONTRACT IN COMPLIANCE WITH THE BELOW...
3. PROVIDE AIR READINGS BEFORE THE COMMENCEMENT OF WORK AS INDICATED ON THE CONTRACT DRAWINGS...
4. MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS, DEVICES, TO SHOW FINAL SETTINGS...
5. TEST, ADJUST, AND BALANCE AIR DISTRIBUTION SYSTEMS TO PROVIDE AIR QUANTITIES INDICATED WITHIN PLUS 5 PERCENT...
6. SUBMIT A TEST REPORT INDICATING QUANTITY OF AIR AT EACH OUTLET AFTER BALANCING...

NEW CONSTRUCTION WORK.
14. AVOID DAMAGE TO CONSTRUCTION AND FINISHES THAT ARE TO REMAIN.
15. PROTECT AND BE RESPONSIBLE FOR THE EXISTING BUILDING, FACILITIES AND IMPROVEMENTS.
16. ANY DISTURBANCE OR DAMAGE TO THE WORK, THE EXISTING BUILDING, AND IMPROVEMENTS, OR ANY IMPAIRMENTS OF FACILITIES...
17. ALL ALTERATIONS WHICH ARE NOT INDICATED ON THE DRAWINGS NOR SPECIFIED HEREIN BUT NECESSARY TO MAKE GOOD EXISTING WORK...
18. ALL HOLES IN MASONRY FLOORS AND WALLS ARE TO BE CORE DRILLED.
19. DISTURBED CONCRETE AND/OR CEMENT FLOOR AREAS SHALL BE PATCHED WITH APPROVED TYPE LATEX MORTAR.
20. WHEN CEMENT MORTAR IS USED FOR PATCHING, THE SURFACES SHALL BE DEPRESSED A MINIMUM DEPTH OF 1".
TEMPORARY OPENINGS
1. ALL TEMPORARY OPENINGS CUT IN WALLS, FLOORS OR CEILINGS FOR PIPE OR DUCTWORK SHALL BE CLOSED OFF WITH TRANSITE OR AN EQUALLY NON-COMBUSTIBLE MATERIAL...
SHUTDOWN OF EXISTING BUILDING SYSTEMS
1. DO NOT INTERRUPT EXISTING SERVICES OR SYSTEMS IN THE BUILDING UNLESS ABSOLUTELY NECESSARY...
2. WHERE THE WORK MAKES TEMPORARY INTERRUPTIONS UNAVOIDABLE, THEY SHALL BE MADE DURING OFF HOURS OR AS OTHERWISE DIRECTED BY THE OWNER.
ELECTRICAL WORK
1. ELECTRICAL POWER SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
2. CONTROL WIRING SHALL BE BY THE HVAC CONTRACTOR...
3. MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
EXECUTION
1. THE PLANS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GENERAL SCOPE OF WORK.
2. WORK COORDINATION AND JOB OPERATIONS: THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES...
3. MATERIALS AND WORKMANSHIP: ALL MATERIALS SHALL BE NEW AND WITHOUT DAMAGED PARTS...
4. PROTECTION AND CLEANUP: ALL MATERIALS SHALL BE SUITABLY STORED DURING CONSTRUCTION...
5. SYSTEM STARTUP AND OPERATION: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO PLACE THE HVAC SYSTEMS INTO OPERATION...

DUCT MATERIAL SCHEDULE
Table with columns: APPLICATION, SUPPLY, RETURN, EXHAUST. Rows include typical duct materials and specific applications for exposed and concealed ductwork.

DUCT INSULATION SCHEDULE
Table with columns: SYSTEM, INSULATION TYPE, MINIMUM INSTALLED INSULATION VALUERS, NOMINAL DENSITY. Rows specify insulation requirements for various duct types and locations.

REGISTER, GRILLE & DIFFUSER SCHEDULE
Table with columns: SYM., SERVICE, TYPE, MAKE, MODEL, MATERIAL FINISH, NECK SIZE, FACE SIZE, CFM RANGE, BORDER TYPE, ACCESSORIES, REMARKS. Includes a diagram of a diffuser with flow directions.

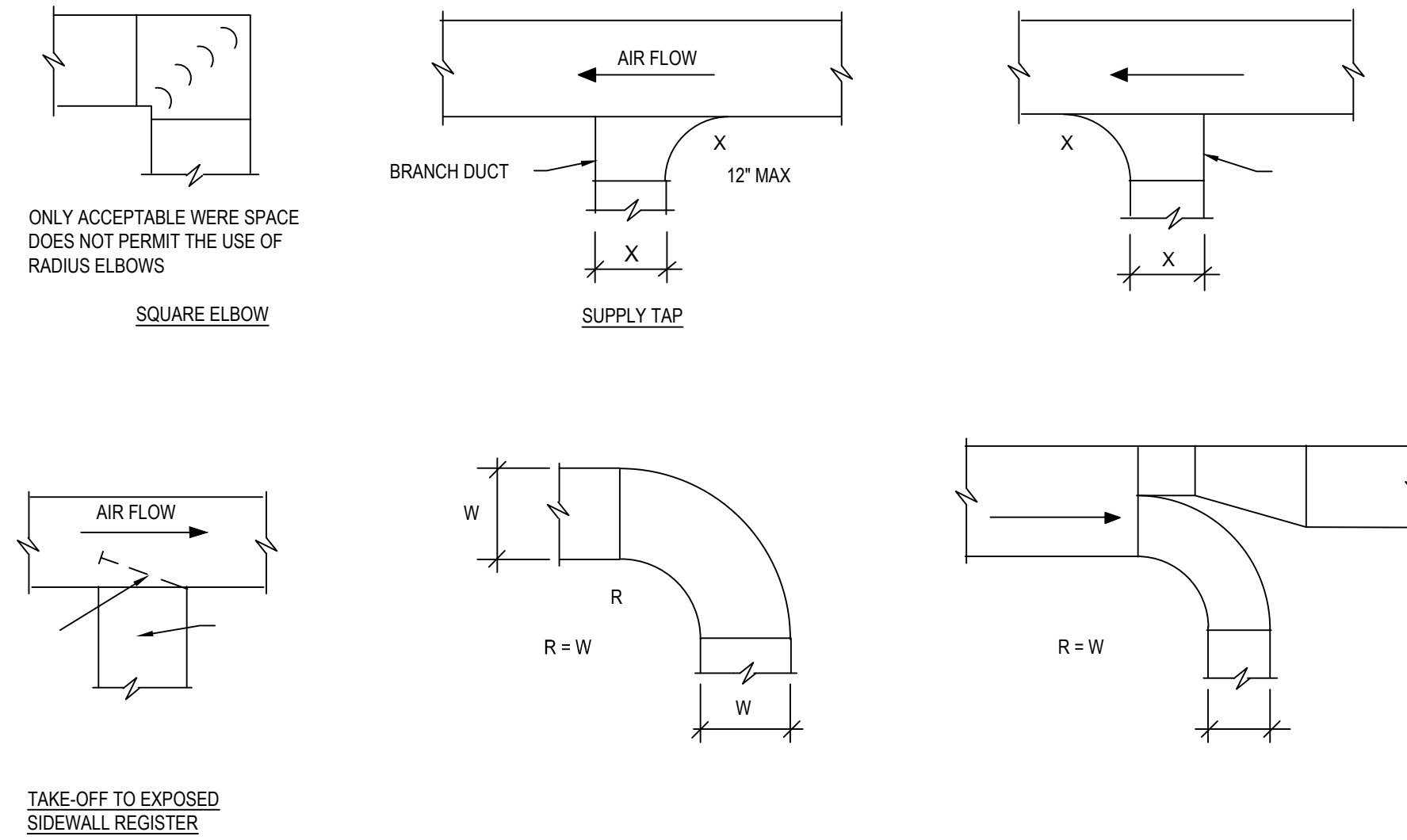
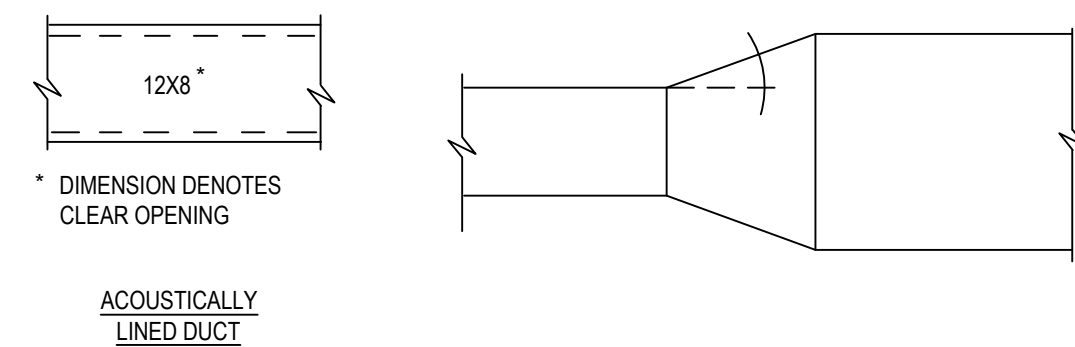
DUCT LINING
1. REFER TO "HVAC DUCT INSULATION" SCHEDULE FOR APPLICATIONS & VALUES.
2. FIBROUS-GLASS DUCT LINER: COMPLY WITH ASTM C 1071, NFPA 90A, OR NFPA 90B...
3. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS...
4. MAXIMUM THERMAL CONDUCTIVITY: TYPE II, RIGID, 0.23 BTU X IN./H X SQ. FT. X DEG F AT 75 DEG F MEAN TEMPERATURE.
5. ANTIMICROBIAL EROSION-RESISTANT COATING: APPLY TO THE SURFACE OF THE LINER THAT WILL FORM THE INTERIOR SURFACE...
6. SOLVENT/WATER-BASED LINER ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B...
7. INSULATION PINS AND WASHERS
A. CUPPED-HEAD, CAPACITOR-DISCHARGE-WELD PINS...
B. INSULATION RETAINING WASHERS: SELF-LOCKING WASHERS FORMED FROM 0.018-INCH-THICK OF MATERIAL...
DUCT INSULATION
1. REFER TO "HVAC DUCT INSULATION" SCHEDULE FOR APPLICATIONS & VALUES.
2. COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE 2006.
3. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.
4. ACCEPTABLE MANUFACTURERS INCLUDE: CERTAINTED CORP., COMMERCIAL BOARD, FIBREX INSULATIONS INC., FBX, JOHNS MANVILLE 800 SERIES SPIN-GLAS, KNAUF INSULATION, INSULATION BOARD, MANSON INSULATION INC., AK BOARD, OWENS CORNING, FIBERGLAS 700 SERIES.
VIBRATION ISOLATION & SEISMIC CONTROL
1. PROVIDE VIBRATION ISOLATION DEVICES FOR ALL MECHANICAL EQUIPMENT FURNISHED UNDER THIS SECTION AS SUITS THE APPLICATION...
TERMINAL BOXES
1. PROVIDE FACTORY-FABRICATED AND TESTED PRESSURE INDEPENDENT AIR TERMINALS AS INDICATED...

CUTTING, ALTERING AND PATCHING
1. PROVIDE ALL CUTTING, CHASING, DRILLING, ALTERING AND ROUGH PATCHING REQUIRED FOR THE WORK OF THIS DIVISION.
2. INCLUDING THE RESTORING OF EXISTING WORK CUT FOR OR DAMAGED BY INSTALLATION OF NEW WORK...
3. ALL MATERIALS AND WORKMANSHIP REQUIRED IN CONNECTION WITH CUTTING, ALTERING AND ROUGH PATCHING SHALL MATCH THE EXISTING WORK IN EVERY RESPECT.
4. DO ALL SHORING, BRACING, CUTTING, PATCHING, PIECING OUT, FILLING IN, REPAIRING AND REFINISHING OF ALL PRESENT WORK AS MADE NECESSARY BY THE ALTERATION AND THE INSTALLATION OF NEW WORK.
5. ALL HOLES AND OPENINGS OCCURRING IN THE EXISTING FLOORS AFTER EQUIPMENT, PARTITIONS, FLOORS, STEEL WORK, CONDUITS AND PIPES ARE REMOVED OR INSTALLED SHALL BE CLOSED UP WITH MATERIALS SIMILAR TO THE ADJACENT WORK.
6. THE SIZE AND LOCATION OF ITEMS REQUIRING AN OPENING, CHASE OR OTHER PROVISIONS TO RECEIVE IT SHALL BE GIVEN BY THE TRADE REQUIRING SAME...
7. INCLUDE ALL CUTTING, REPAIRING AND PATCHING IN CONNECTION WITH THE WORK THAT MAY BE REQUIRED...
8. ALL REPAIRING, PATCHING, PIECING-OUT, FILLING-IN, RESTORING AND REFINISHING SHALL BE NEATLY DONE...
9. MATERIALS AND THEIR METHODS OF APPLICATION FOR PATCHING SHALL COMPLY WITH APPLICABLE REQUIREMENTS...
10. MATERIALS AND WORKMANSHIP NOT COVERED BY THE SPECIFICATIONS AND ITEMS OF WORK EXPOSED TO VIEW ADJOINING EXISTING WORK TO REMAIN SHALL CONFORM TO SIMILAR.
11. MATERIALS AND WORKMANSHIP EXISTING IN OR ADJACENT TO THE SPACES TO BE ALTERED.
12. CUTTING, REPAIRING AND PATCHING SHALL INCLUDE ALL ITEMS SHOWN ON THE DRAWINGS...
13. REMOVE PARTITIONS, WALLS, SUSPENDED CEILINGS, ETC., AS NECESSARY TO PERFORM THE REQUIRED ALTERATIONS OR

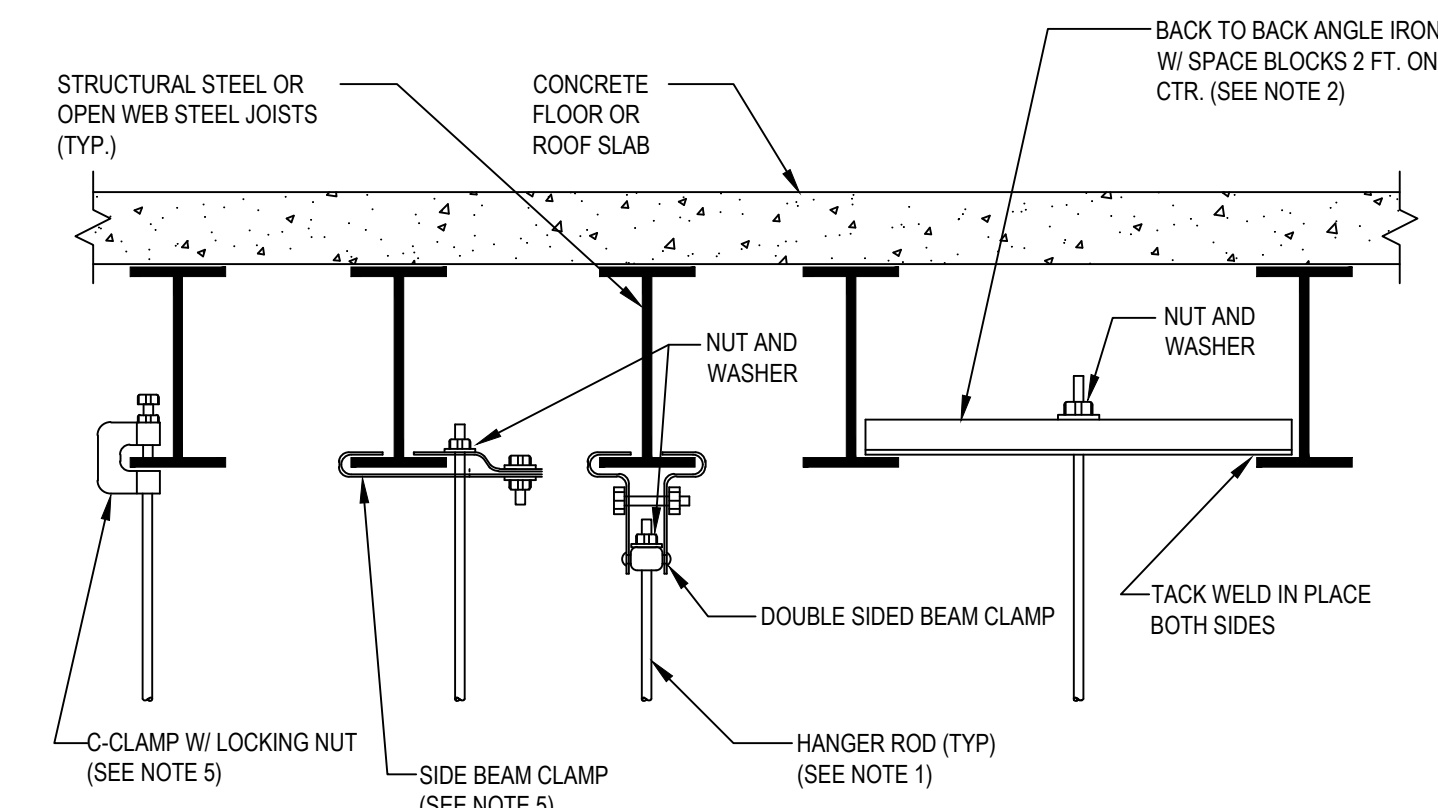
WARRANTY
1. THE CONTRACTOR SHALL WARRANTY ALL WORK FOR A PERIOD OF 12 MONTHS FROM ACCEPTANCE BY OWNER...
HVAC INSTRUMENTATION & CONTROLS
1. QUALITY ASSURANCE
A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100...
B. COMPLY WITH ASHRAE 135 FOR DDC SYSTEM COMPONENTS.
2. COORDINATION
A. COORDINATE LOCATION OF THERMOSTATS, HUMIDISTATS, AND OTHER EXPOSED CONTROL SENSORS...
B. COORDINATE EQUIPMENT WITH DIVISION 16 TO ACHIEVE COMPATIBILITY WITH EQUIPMENT THAT INTERFACES WITH THE LIGHTING SYSTEM...
C. COORDINATE EQUIPMENT WITH DIVISION 13 TO ACHIEVE COMPATIBILITY WITH EQUIPMENT THAT INTERFACES WITH THE FIRE ALARM SYSTEM...
D. COORDINATE SUPPLY OF CONDITIONED ELECTRICAL BRANCH CIRCUITS FOR CONTROL UNITS AND OPERATOR WORKSTATION...
E. COORDINATE EQUIPMENT WITH DIVISION 16 TO ACHIEVE COMPATIBILITY WITH STARTER COILS AND ANNUNCIATION DEVICES IN PANEL BOARDS.
MANUFACTURER:
1. TRANE VERITRAC
F. CONTROL SYSTEM SHALL CONSIST OF SENSORS, INDICATORS, ACTUATORS, FINAL CONTROL ELEMENTS, INTERFACE EQUIPMENT, OTHER APPARATUS, ACCESSORIES, AND SOFTWARE CONNECTED TO DISTRIBUTED CONTROLLERS OPERATING IN MULTITASK, MULTITASKING ENVIRONMENT ON TOKEN-PASSING NETWORK AND PROGRAMMED TO CONTROL MECHANICAL SYSTEMS...



Table for revision tracking with columns: Revision, Description, Date, Revised By.



NOTE:  
SPECIFICATIONS EXCEED SMACNA STANDARDS IN SOME INSTANCES. SMACNA SHALL BE CONSIDERED THE MINIMUM STANDARD UNLESS OTHERWISE NOTED ON THE DRAWINGS, DETAILS OR IN THE SPECIFICATIONS.



- NOTES:
- REFER TO SPECIFICATIONS FOR PIPE HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
  - FOR PIPES UNDER 2" USE A SINGLE 1-1/2"x1-1/2"x1/4" ANGLE IRON WITH C-CLAMP. FOR PIPES 2-1/2" AND LARGER USE 3"x3"x1/4" ANGLE IRON BACK TO BACK AS SHOWN.
  - REFER TO TYPICAL METHOD OF SECURING HANGER RODS TO CONCRETE DECK DETAIL FOR ATTACHING HANGER RODS TO CONCRETE DECK.
  - REPAIR OF FIREPROOFING IN ORDER TO FACILITATE THE INSTALLATION OF HANGER RODS IN EXISTING CONSTRUCTION SHALL BE BY THE O.C.
  - USE OF C-CLAMPS AND SIDE BEAM CLAMPS IS LIMITED TO PIPING 2-1/2" AND UNDER.

**DUCT CONSTRUCTION DETAIL**

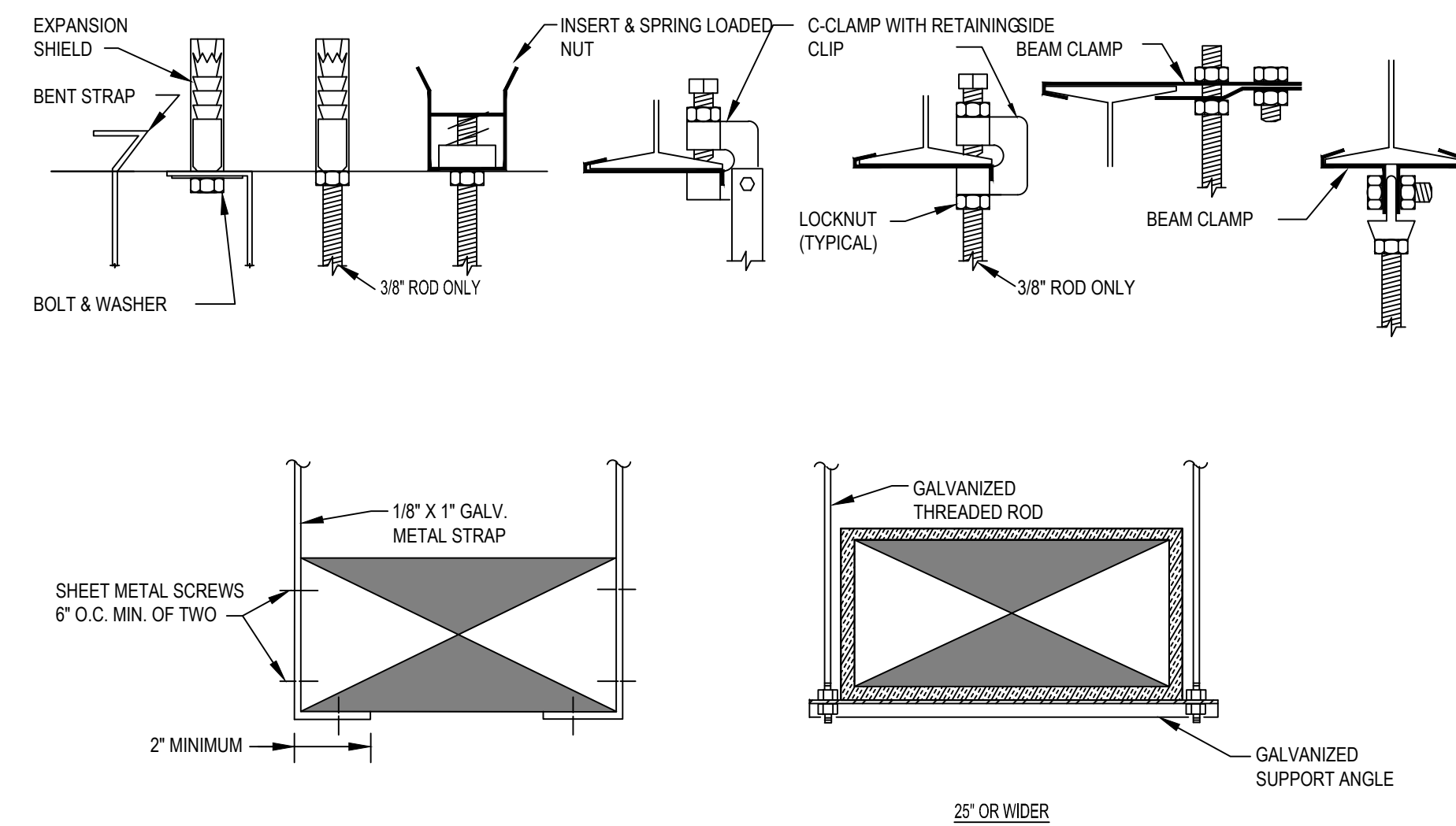
NOT TO SCALE

**TYPICAL METHOD OF SECURING HANGER RODS TO STRUCTURAL STEEL DETAIL**

NOT TO SCALE

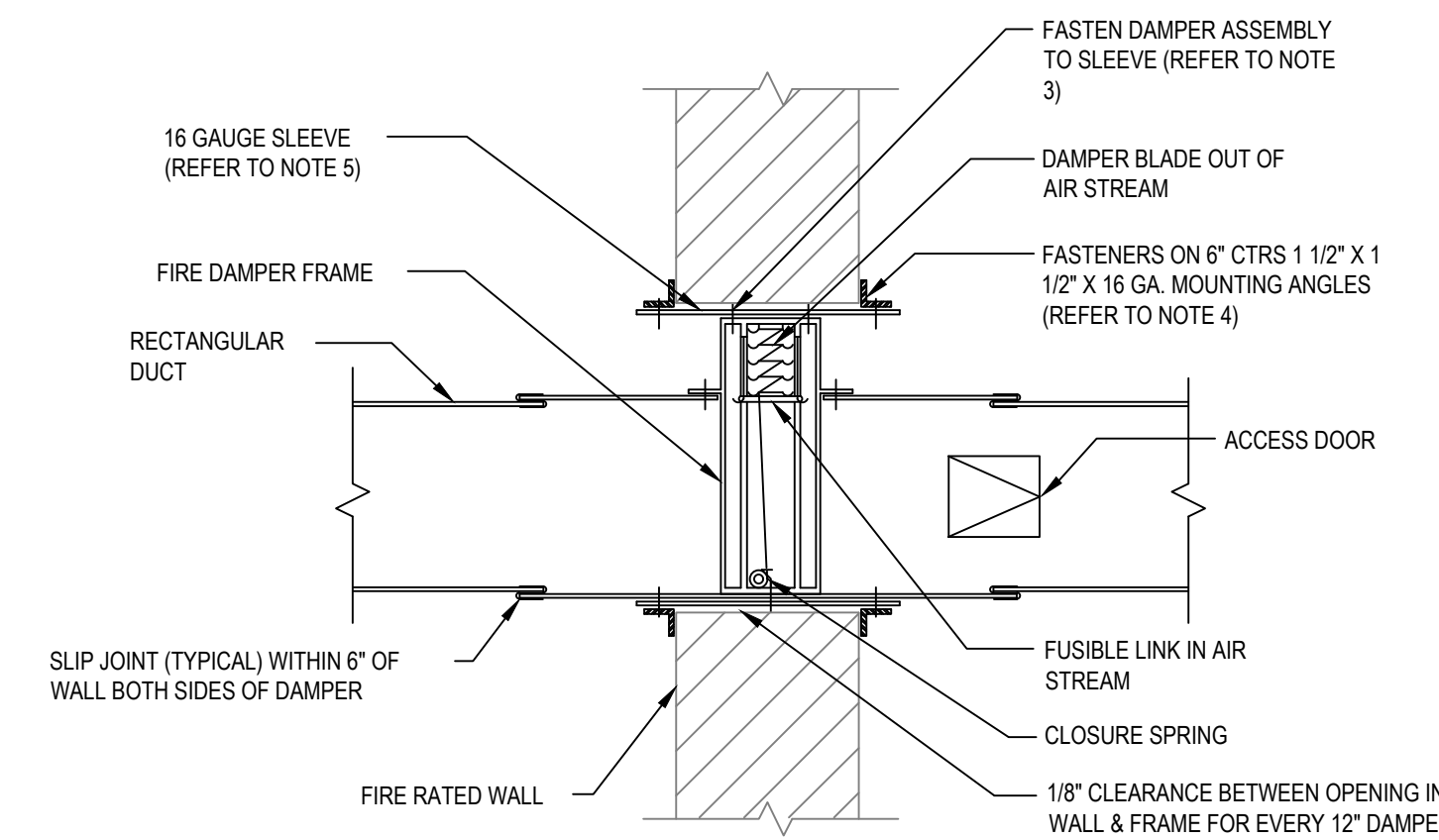
DUCT WIDTH	SUPPORT ANGLE OR EQUIV. CHANNEL	ROD DIA.	MAXIMUM SPACING	MAXIMUM AREA *
25" TO 30"	1 1/2" X 1 1/2" X 1/8"	3/8"	8'-0" O.C.	4 SQ. FT.
31" TO 42"	1 1/2" X 1 1/2" X 1/8"	3/8"	6'-0" O.C.	10 SQ. FT.
43" TO 60"	1 1/2" X 1 1/2" X 1/8"	1/2"	6'-0" O.C.	10 SQ. FT.
61" TO 84"	2" X 2" X 1/4"	1/2"	4'-0" O.C.	-
85" AND UP	2" X 2" X 1/4"	1/2"	4'-0" O.C.	-

\* REDUCE SPACING TO NEXT SMALLER INTERVAL IF DUCT AREA EXCEEDS MAXIMUM



**DUCT SUPPORT DETAIL**

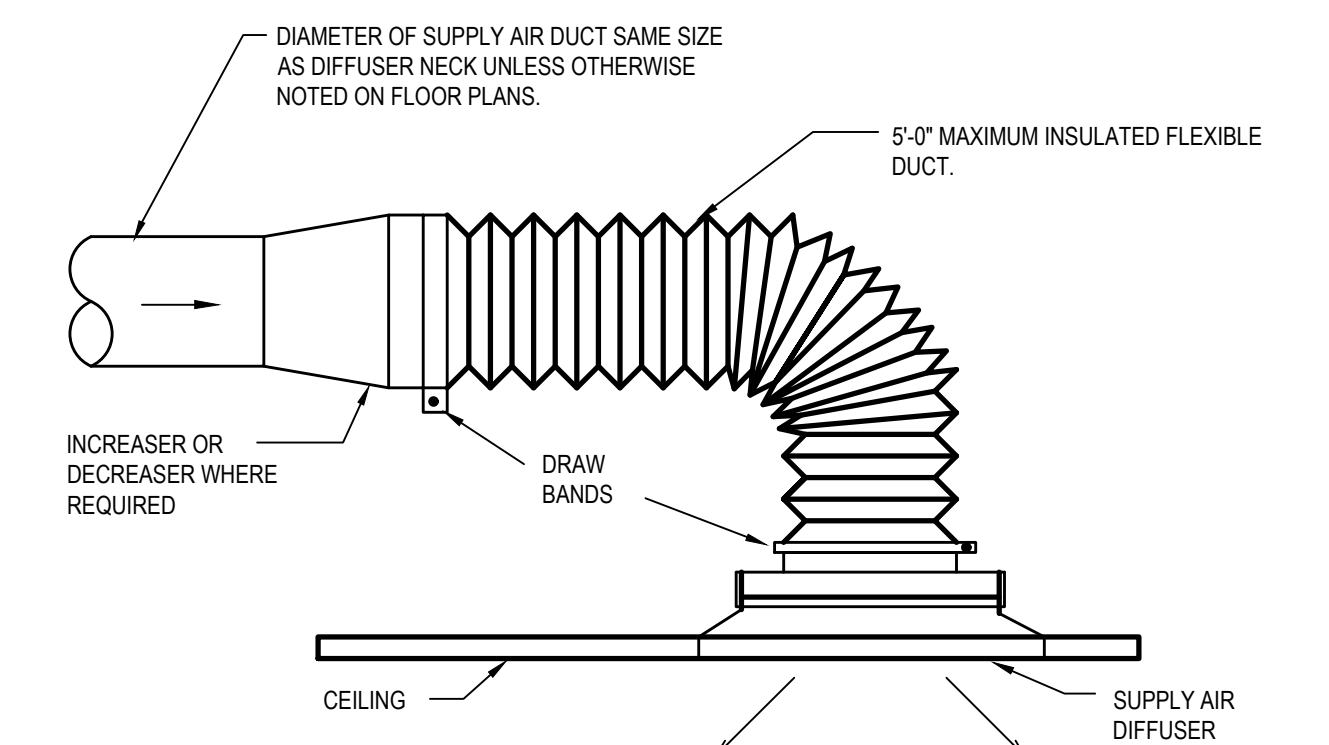
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- NOTES:
- INSTALL ACCESS DOOR IN DUCT FOR DAMPER ACCESS. ACCESS DOORS SHALL BE DOUBLE WALL WHEN LOCATED IN INSULATED DUCTWORK.
  - INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND NFPA-80A.
  - REFER TO SMACNA-FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS FOR FIRE DAMPER INSTALLATION DETAILS.
  - MOUNTING ANGLES SHALL BE 2" X 2" X 16 GA. FOR DAMPERS 48" OR LARGER IN WIDTH OR HEIGHT.
  - SLEEVE THICKNESS SHALL NOT BE LESS THAN THE GAUGE OF THE DUCT.
  - INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH U.L. 555.
  - VERTICAL DAMPER INSTALLATION IS INDICATED, HORIZONTAL MOUNTING IS SIMILAR.
  - PROVIDE ACCESS DOOR IN DRYWALL CEILINGS FOR DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.
  - PROVIDE FIRE DAMPERS AT ALL PENETRATIONS OF WALLS WITH FIRE RATED CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS.

**FIRE DAMPER MOUNTING DETAIL**

NOT TO SCALE



NOTE: USE FLEX DUCT CONNECTIONS IN ACCESSIBLE CEILINGS ONLY. NON-ACCESSIBLE CEILING USE A SOLID DUCT CONNECTION.

**FLEXIBLE DUCT CONNECTION**

NOT TO SCALE



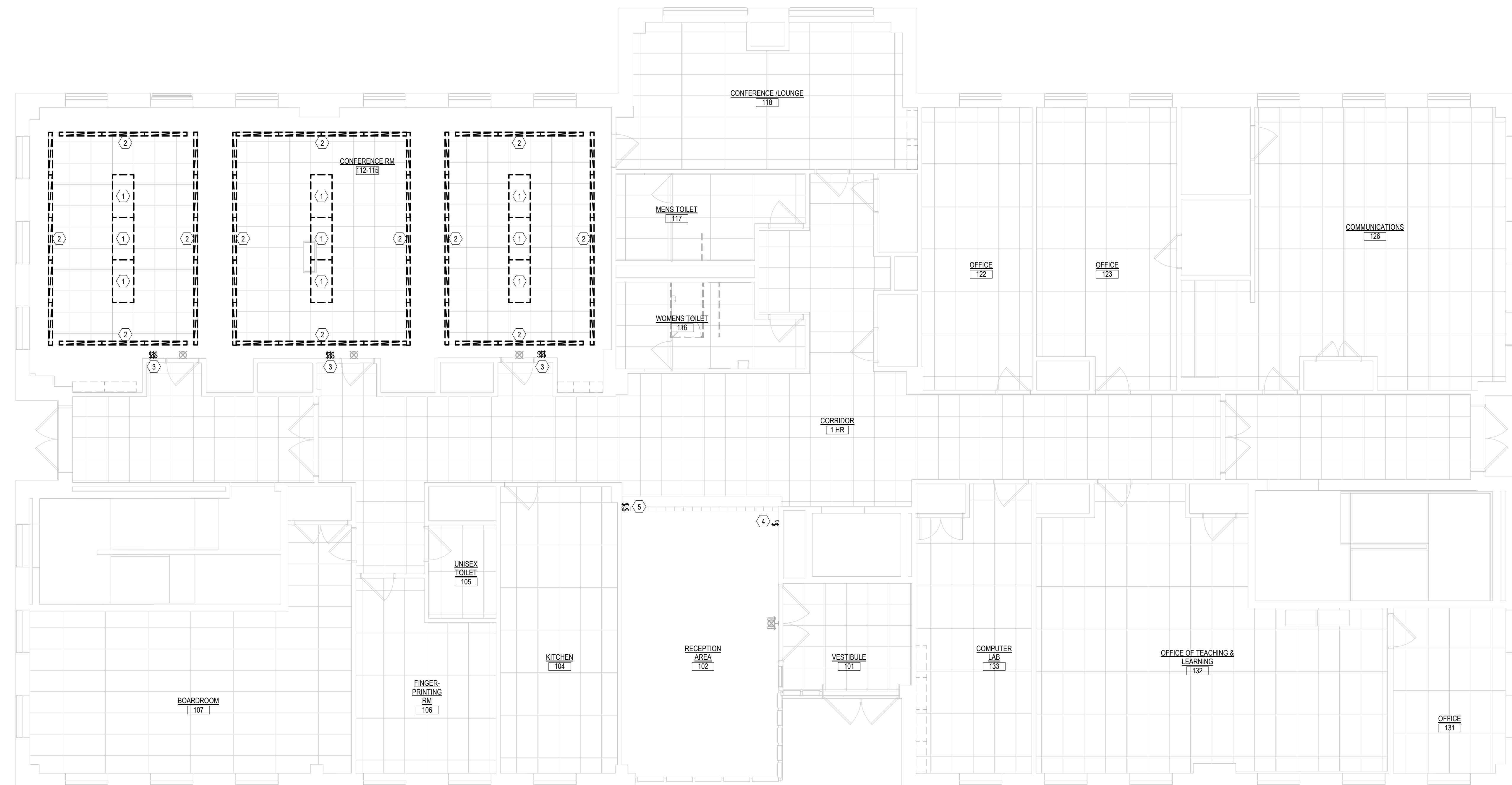


**GENERAL LIGHTING NOTES**

- ALL WORK SHALL CONFORM WITH THE ELECTRICAL SPECIFICATIONS AND LATEST ACCEPTED NATIONAL ELECTRICAL CODE (NEC).
- ALL EXISTING LIGHT FIXTURES, EXIT SIGNS AND LIGHT SWITCHES SHOWN HALF-TONE (LIGHT) ARE EXISTING TO REMAIN AND ALL WIRING TO THESE DEVICES SHALL REMAIN WIRED TO THEIR EXISTING BRANCH CIRCUIT(S). CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF ALL EXISTING BRANCH CIRCUITS EFFECTED BY THE RENOVATION AND PROVIDE ADDITIONAL WIRING AS NEEDED.

**LIGHTING DEMOLITION KEY NOTES**

- 1 CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING PENDANT MOUNTED 4 FT. DIRECT/INDIRECT FLUORESCENT LIGHT FIXTURE INCLUDING ALL ASSOCIATED MOUNTING HARDWARE AND ALL ASSOCIATED CONTROL WIRING. THE EXISTING BRANCH CIRCUIT SHALL BE MADE SAFE TO TO SERVE NEW LED LIGHT FIXTURES IN THIS AREA.
- 2 CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING WALL MOUNTED DIRECT/INDIRECT FLUORESCENT LIGHT FIXTURE AROUND THE SOFFIT INCLUDING ALL ASSOCIATED MOUNTING HARDWARE, CORNER PIECES AND ALL ASSOCIATED CONTROL WIRING. THE EXISTING BRANCH CIRCUIT SHALL BE MADE SAFE TO TO SERVE NEW LED LIGHT FIXTURES IN THIS AREA.
- 3 CONTRACTOR SHALL DISCONNECT AND REMOVE (3) EXISTING RECESSED MOUNTED TOGGLE TYPE LIGHT SWITCHES INDICATED, INCLUDING COVER PLATE AND ALL ASSOCIATED CONTROL WIRING. THE EXISTING RECESSED BACK BOX & CONDUIT SHALL REMAIN TO BE USED FOR NEW LIGHT SWITCHES IN THIS LOCATION.
- 4 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING 3-WAY TOGGLE TYPE LIGHT SWITCH INDICATED, INCLUDING COVER PLATE. THE EXISTING RECESSED BACK BOX, CONDUIT AND ALL ASSOCIATED WIRING SHALL REMAIN TO SERVE NEW SWITCH IN THIS LOCATION (REFER TO DWG. E110).
- 5 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING 3-WAY AND SINGLE POLE TOGGLE TYPE LIGHT SWITCHES INDICATED, INCLUDING COVER PLATE, BACK BOX, CONDUIT AND WIRING ASSOCIATED WITH TOGGLE SWITCH SHALL REMAIN TO SERVE NEW SWITCH IN THIS LOCATION. THE EXISTING WIRING SERVING THE PENDANT MOUNTED LIGHTS AND 3-WAY SWITCH AT THIS LOCATION SHALL BE REMOVED BACK TO THE JUNCTION BOX IN THE SECOND FLOOR CEILING. THE EXISTING BACK BOX AND CONDUIT SHALL BE USED TO SERVE NEW DIMMER SWITCH AND PENDANT MOUNTED LIGHTS (REFER TO DWG. E110).



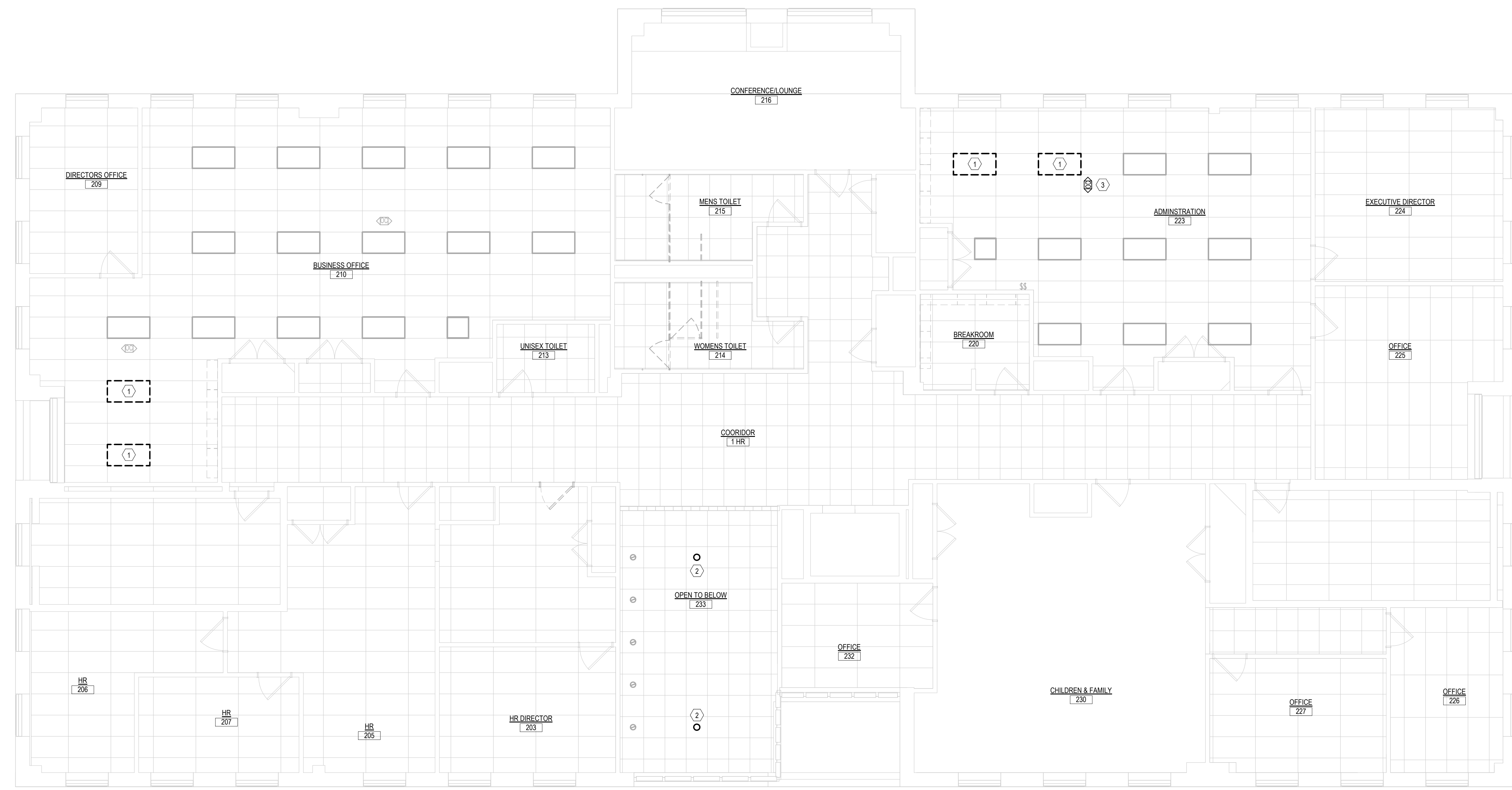
**1** FIRST LEVEL DEMO LIGHTING PLAN  
3/16" = 1'-0"

**GENERAL LIGHTING NOTES**

- ALL WORK SHALL CONFORM WITH THE ELECTRICAL SPECIFICATIONS AND LATEST ACCEPTED NATIONAL ELECTRICAL CODE (NEC).
- ALL EXISTING LIGHT FIXTURES, EXIT SIGNS AND LIGHT SWITCHES SHOWN HALF-TONE (LIGHT), ARE EXISTING TO REMAIN AND ALL WIRING TO THESE DEVICES SHALL REMAIN WIRED TO THEIR EXISTING BRANCH CIRCUIT(S). CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF ALL EXISTING BRANCH CIRCUITS EFFECTED BY THE RENOVATION AND PROVIDE ADDITIONAL WIRING AS NEEDED.

**LIGHTING DEMOLITION KEY NOTES**

- 1 CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING RECESSED MOUNTED 2 X 4 FLAT LENSED FLUORESCENT LIGHT FIXTURE INCLUDING ALL ASSOCIATED MOUNTING HARDWARE AND ALL ASSOCIATED CONTROL WIRING. THE EXISTING BRANCH CIRCUIT SHALL BE MADE SAFE TO TO SERVE NEW LED LIGHT FIXTURES IN THIS AREA.
- 2 CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING PENDANT MOUNTED FROSTED GLOBE LIGHT FIXTURE INDICATED INCLUDING ALL ASSOCIATED MOUNTING HARDWARE AND ALL ASSOCIATED CONTROL WIRING. THE EXISTING BRANCH CIRCUIT SHALL BE REMOVED BACK TO NEAREST ACCESSIBLE JUNCTION BOX.
- 3 CONTRACTOR SHALL DISCONNECT, REMOVE AND RELOCATE EXISTING CEILING MOUNTED OCCUPANCY SENSOR AND ALL ASSOCIATED WIRING. REFER TO NEW LIGHTING PLAN FOR NEW LOCATION OF DEVICE.



**2 SECOND LEVEL DEMO LIGHTING PLAN**  
3/16" = 1'-0"



**GENERAL POWER NOTES**

- ALL WORK SHALL CONFORM WITH THE ELECTRICAL SPECIFICATIONS AND LATEST ACCEPTED NATIONAL ELECTRICAL CODE (NEC).
- ALL EXISTING DEVICES SHOWN HALF-TONE (LIGHT), ARE EXISTING TO REMAIN AND ALL WIRING TO THESE DEVICES SHALL REMAIN WIRED TO THEIR EXISTING BRANCH CIRCUIT(S). CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF ALL EXISTING BRANCH CIRCUITS EFFECTED BY THE RENOVATION AND PROVIDE ADDITIONAL WIRING AS NEEDED.

**POWER DEMOLITION KEY NOTES**

- ◆ CONTRACTOR SHALL RELOCATE EXISTING SOUND SYSTEM/PAGING SPEAKER INDICATED TO ACCOMMODATE FOR NEW RECESSED 2X2 LIGHT FIXTURE IN THIS LOCATION. REFER TO DRAWING E210 FOR APPROXIMATE NEW LOCATION. COORDINATE FINAL LOCATION WITH OWNER. ALL OTHER EXISTING SPEAKERS SHALL REMAIN UNLESS OTHERWISE DIRECTED BY THE OWNER.



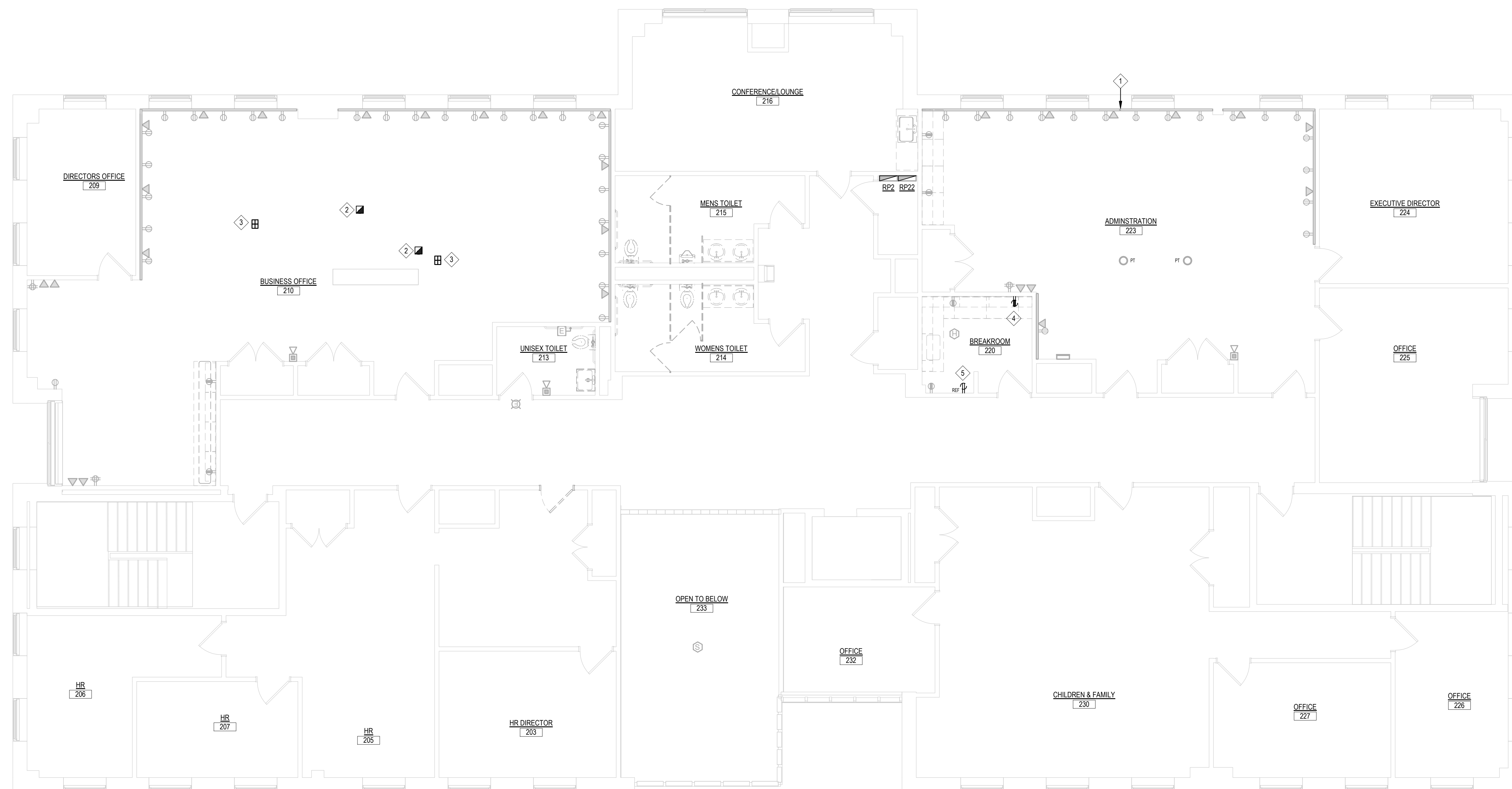
**1** FIRST LEVEL DEMO POWER PLAN  
3/16" = 1'-0"

**GENERAL POWER NOTES**

- ALL WORK SHALL CONFORM WITH THE ELECTRICAL SPECIFICATIONS AND LATEST ACCEPTED NATIONAL ELECTRICAL CODE (NEC).
- ALL EXISTING DEVICES SHOWN HALF-TONE (LIGHT), ARE EXISTING TO REMAIN AND ALL WIRING TO THESE DEVICES SHALL REMAIN WIRED TO THEIR EXISTING BRANCH CIRCUIT(S). CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF ALL EXISTING BRANCH CIRCUITS EFFECTED BY THE RENOVATION AND PROVIDE ADDITIONAL WIRING AS NEEDED.

**POWER DEMOLITION KEY NOTES**

- 1 CONTRACTOR SHALL CUT EXISTING WIREMOLD COVER AT THE CENTER OF THE NEW WALL TO BE INSTALLED APPROXIMATELY IN THIS LOCATION TO ALLOW FOR THE COVER TO BE REMOVED IN THE FUTURE. CONFIRM EXACT LOCATION OF NEW WALL PRIOR TO CUTTING THE EXISTING COVER.
- 2 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING POWER POLE IN THIS LOCATION AND ALL ASSOCIATED WIRING. LINE VOLTAGE (RECEPTACLES) AND LOW VOLTAGE (VOICE & DATA RECEPTACLES) BACK TO POINT OF ORIGIN.
- 3 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED RECEPTACLE/POKE THROUGH DEVICE IN THIS LOCATION AND ALL ASSOCIATED WIRING. LINE VOLTAGE (RECEPTACLES) AND LOW VOLTAGE (VOICE & DATA RECEPTACLES) BACK TO POINT OF ORIGIN. CONTRACTOR SHALL ALSO PATCH FLOOR OPENING TO MATCH OR EXCEED THE EXISTING FLOOR FINISHING.
- 4 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING BRANCH CIRCUIT WIRING TO THIS RECEPTACLE BACK TO NEAREST DEVICE/ACCESSIBLE JUNCTION BOX. RECEPTACLE SHALL REMAIN TO BE REWIRED TO A DEDICATED BRANCH CIRCUIT.
- 5 CONTRACTOR SHALL DISCONNECT EXISTING BRANCH CIRCUIT TO EXISTING RECEPTACLE THAT CURRENTLY SERVES A REFRIGERATOR. BRANCH CIRCUIT SHALL BE PULLED BACK TO ABOVE THE CEILING WHERE IT WILL BE EXTENDED TO A NEW LOCATION SERVING A REFRIGERATOR. THE EXISTING RECEPTACLE SHALL BE REMOVED AND A BLANK PLATE INSTALLED OVER THE BACK BOX.



**2 SECOND LEVEL DEMO POWER PLAN**  
3/16" = 1'-0"

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 LEARN REGIONAL SERVICE CENTRAL**  
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 OLD LYME, CT 06371



**SILVER PETRUCELLI + ASSOCIATES**  
 3190 WHITNEY AVENUE HAMDEN CT 06518  
 311 STATE STREET NEW LONDON CT 06320  
 203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

Drawing Title:  
**SECOND LEVEL DEMOLITION PLAN -  
 POWER**

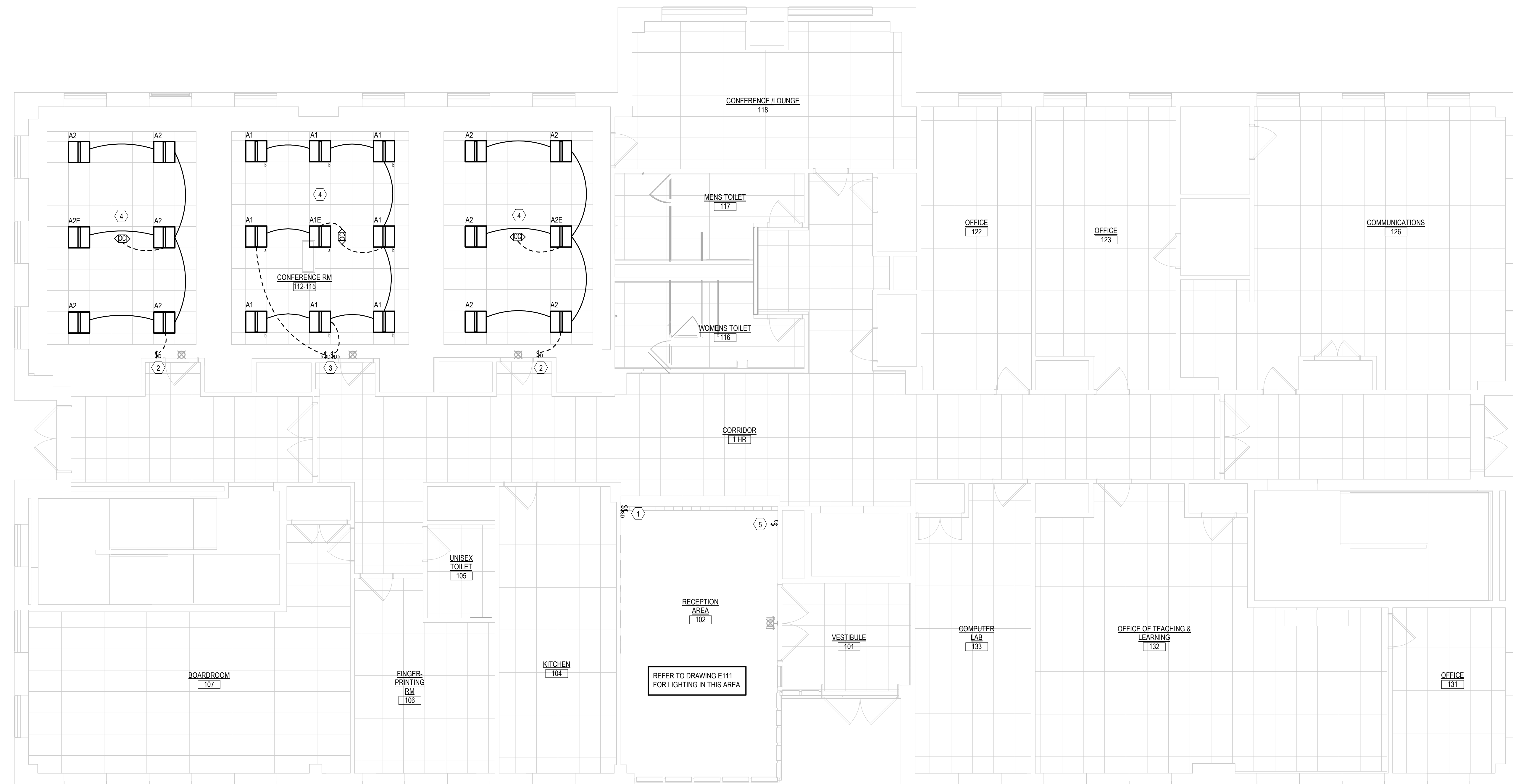
Date: 2024.04.11  
 Scale: As Indicated  
 Drawn By: S. CROTEAU  
 Project Number: 23.202  
 Drawing Number: **E021**

GENERAL LIGHTING NOTES

- ALL WORK SHALL CONFORM WITH THE ELECTRICAL SPECIFICATIONS AND LATEST ACCEPTED NATIONAL ELECTRICAL CODE (NEC).
- ALL EXISTING LIGHT FIXTURES, EXIT SIGNS AND LIGHT SWITCHES SHOWN HALF-TONE (LIGHT), ARE EXISTING TO REMAIN AND ALL WIRING TO THESE DEVICES SHALL REMAIN WIRED TO THEIR EXISTING BRANCH CIRCUIT(S). CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF ALL EXISTING BRANCH CIRCUITS EFFECTED BY THE RENOVATION AND PROVIDE ADDITIONAL WIRING AS NEEDED.

LIGHTING KEY NOTES

- 1 CONTRACTOR SHALL FURNISH AND INSTALL NEW TOGGLE SWITCH AND MATCHING 3-WAY DIMMER SWITCH IN EXISTING BACK BOX. WIRE NEW TOGGLE SWITCH TO EXISTING WIRING SERVING EXISTING DOWN LIGHTS TO REMAIN ON THE SECOND FLOOR CEILING. CONTRACTOR SHALL INSTALL NEW WIRING FROM NEW 3-WAY DIMMER SWITCH UP TO NEW PENDANT MOUNTED "TRING" LIGHTS. DIMMER SWITCH SHALL CONTROL BOTH UP & DOWN PORTIONS OF FIXTURE TOGETHER ALONG WITH NEW 3-WAY TOGGLE SWITCH (SEE NOTE-5 BELOW).
- 2 CONTRACTOR SHALL FURNISH AND INSTALL A NEW SLIDE DIMMER TO BE INSTALLED IN THE EXISTING 3-GANG BACK BOX TO CONTROL THE NEW 2X2 LIGHT FIXTURES INDICATED. ALSO, FURNISH AND INSTALL A NEW 3-GANG COVER PLATE WITH SINGLE SWITCH OPENING (CENTERED). COLOR TO MATCH EXISTING DEVICES IN ROOM.
- 3 CONTRACTOR SHALL FURNISH AND INSTALL (2) NEW SLIDE DIMMERS TO BE INSTALLED IN THE EXISTING 3-GANG BACK BOX TO CONTROL THE NEW 2X2 LIGHT FIXTURES INDICATED. ALSO, FURNISH AND INSTALL A NEW 3-GANG COVER PLATE WITH TWO SWITCH OPENINGS (CENTERED). COLOR TO MATCH EXISTING DEVICES IN ROOM.
- 4 CONTRACTOR SHALL FURNISH AND INSTALL NEW RECESSED MOUNTED 2X2 LED LIGHT FIXTURES IN EXISTING CEILING AS INDICATED. WIRE FIXTURES TO EXISTING BRANCH CIRCUIT THAT PREVIOUSLY SERVED LIGHT FIXTURES IN THIS AREA. CONTRACTOR SHALL MOVE/RELOCATE EXISTING SPEAKERS, DIFFUSERS, ETC. TO ACCOMMODATE NEW LIGHT FIXTURES.
- 5 CONTRACTOR SHALL FURNISH AND INSTALL NEW 3-WAY SWITCH (MATCH STYLE OF SWITCHES IN NOTE-1 ABOVE) AND WIRE SWITCH TO EXISTING WIRING CURRENTLY SERVING THE EXISTING DOWN LIGHTS TO REMAIN.



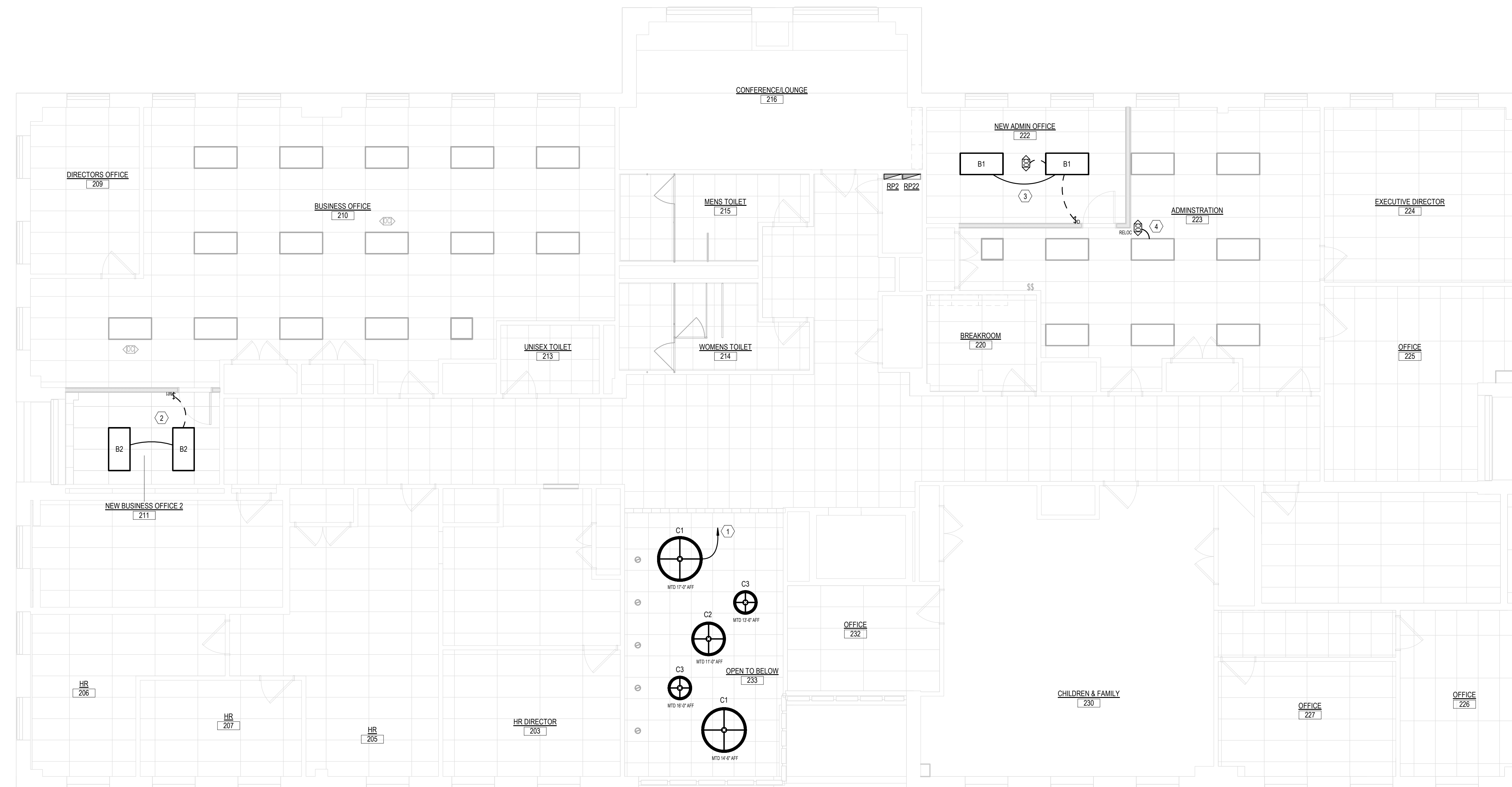
1 FIRST LEVEL LIGHTING PLAN  
3/16" = 1'-0"

**GENERAL LIGHTING NOTES**

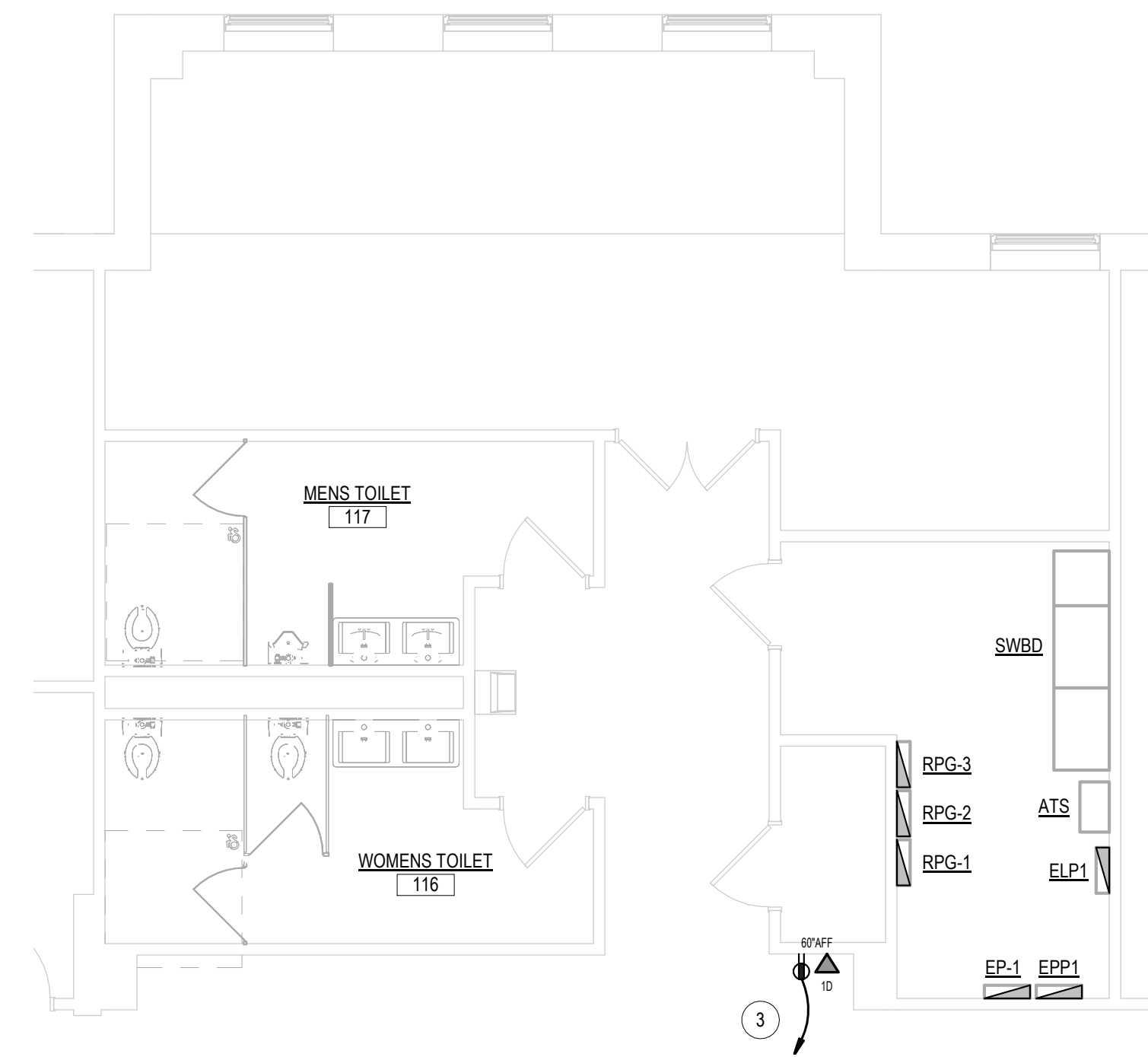
- ALL WORK SHALL CONFORM WITH THE ELECTRICAL SPECIFICATIONS AND LATEST ACCEPTED NATIONAL ELECTRICAL CODE (NEC).
- ALL EXISTING LIGHT FIXTURES, EXIT SIGNS AND LIGHT SWITCHES SHOWN HALF-TONE (LIGHT), ARE EXISTING TO REMAIN AND ALL WIRING TO THESE DEVICES SHALL REMAIN WIRED TO THEIR EXISTING BRANCH CIRCUIT(S). CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF ALL EXISTING BRANCH CIRCUITS EFFECTED BY THE RENOVATION AND PROVIDE ADDITIONAL WIRING AS NEEDED.

**LIGHTING KEY NOTES**

- 1 CONTRACTOR SHALL WIRE ALL (5) NEW PENDANT MOUNTED FIXTURES TO A NEW DIMMER SWITCH (SEE FIRST FLOOR PLAN FOR LOCATION OF SWITCH). BOTH UP & DOWN PORTION OF FIXTURE WILL BE CONTROLLED TOGETHER BY THE NEW DIMMER SWITCH ON THE FIRST FLOOR. THE (5) NEW FIXTURES SHALL BE FED FROM A NEW 20A-1P CIRCUIT BREAKER (#22) IN PANEL. RP22 WIRED WITH 2 #12 + #12S IN 3/4".
- 2 CONTRACTOR SHALL WIRE NEW 2X4 LIGHT FIXTURES IN THIS ROOM FROM THE EXISTING BRANCH CIRCUIT THAT FED THE (2) FLUORESCENT FIXTURES REMOVED IN THIS AREA. THESE FIXTURES SHALL BE CONTROLLED BY A NEW RECESSED MOUNTED COMBINATION OCCUPANCY SENSOR/DIMMER SWITCH INDICATED.
- 3 CONTRACTOR SHALL WIRE NEW 2X4 LIGHT FIXTURES IN THIS ROOM FROM THE EXISTING BRANCH CIRCUIT THAT FED THE (2) FLUORESCENT FIXTURES REMOVED IN THIS AREA. THESE FIXTURES SHALL BE CONTROLLED BY A NEW RECESSED MOUNTED DIMMER SWITCH AND CEILING MOUNTED OCCUPANCY SENSOR INDICATED.
- 4 CONTRACTOR SHALL INSTALL EXISTING CEILING MOUNTED OCCUPANCY SENSOR IN THIS LOCATION AND EXTEND/RELOCATE EXISTING WIRING AS NEEDED TO MOVE SENSOR TO THIS LOCATION.



**2 SECOND LEVEL LIGHTING PLAN**  
3/16" = 1'-0"



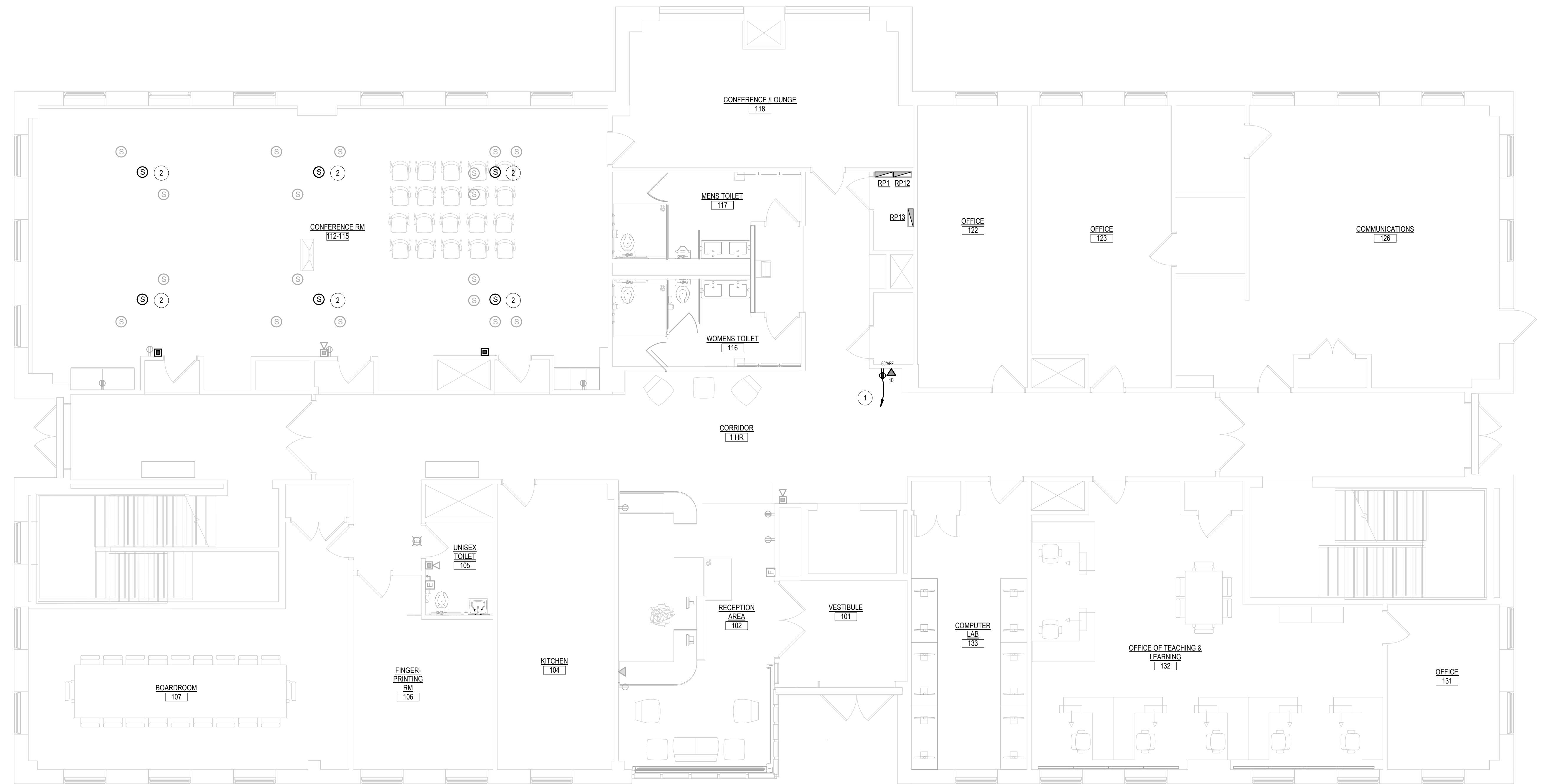
**G GARDEN LEVEL POWER PLAN**  
3/16" = 1'-0"

**GENERAL POWER NOTES**

- ALL WORK SHALL CONFORM WITH THE ELECTRICAL SPECIFICATIONS AND LATEST ACCEPTED NATIONAL ELECTRICAL CODE (NEC).
- ALL EXISTING DEVICES SHOWN HALF-TONE (LIGHT), ARE EXISTING TO REMAIN AND ALL WIRING TO THESE DEVICES SHALL REMAIN WIRED TO THEIR EXISTING BRANCH CIRCUIT(S). CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF ALL EXISTING BRANCH CIRCUITS EFFECTED BY THE RENOVATION AND PROVIDE ADDITIONAL WIRING AS NEEDED.

**POWER KEY NOTES**

- CONTRACTOR SHALL FURNISH AND INSTALL A NEW DUPLEX RECEPTACLE TO SERVE THE NEW ELECTRONIC DIRECTORY FROM AN EXISTING SPARE 20A-1P CIRCUIT BREAKER IN PANEL RPP-3 WIRED WITH 2 #12 - #12G IN 3/4". ALSO, FURNISH AND INSTALL A NEW DATA RECEPTACLE ALSO TO SERVE NEW ELECTRONIC DIRECTORY. NEW NETWORK CABLE SHALL MATCH EXISTING AND BE RUN TO NEAREST COMMUNICATIONS CLOSET WHICH MAY BE ON THE GARDEN LEVEL. BOTH POWER AND DATA DEVICES SHALL BE INSTALLED IN A RECESSED BACK BOX THAT HAS THE DEVICE RECESSED IN THE BOX NOT FLUSH. TO ALLOW THE CORDS TO BE PLUGGED IN WITHIN THE BOX. CONFIRM EXACT MOUNTING HEIGHT AND LOCATION OF DEVICES WITH APPROVED MONITOR AND ASSOCIATED MOUNTING BRACKET.
- APPROXIMATE LOCATION OF RELOCATED SOUND SYSTEM/SPEAKING SPEAKER. CONTRACTOR SHALL CONFIRM NEW LOCATION WITH OWNER PRIOR TO INSTALLATION. EXTEND/REWIRE UNIT AS NEEDED TO ACCOMMODATE NEW LOCATION.
- CONTRACTOR SHALL FURNISH AND INSTALL A NEW DUPLEX RECEPTACLE TO SERVE THE NEW ELECTRONIC DIRECTORY FROM A NEW 20A-1P CIRCUIT BREAKER IN PANEL RPP-3 WIRED WITH 2 #12 - #12G IN 3/4". ALSO, FURNISH AND INSTALL A NEW DATA RECEPTACLE ALSO TO SERVE NEW ELECTRONIC DIRECTORY. NEW NETWORK CABLE SHALL MATCH EXISTING AND BE RUN TO NEAREST COMMUNICATIONS CLOSET WHICH MAY BE ON THE GARDEN LEVEL. BOTH POWER AND DATA DEVICES SHALL BE INSTALLED IN A RECESSED BACK BOX THAT HAS THE DEVICE RECESSED IN THE BOX NOT FLUSH. TO ALLOW THE CORDS TO BE PLUGGED IN WITHIN THE BOX. CONFIRM EXACT MOUNTING HEIGHT AND LOCATION OF DEVICES WITH APPROVED MONITOR AND ASSOCIATED MOUNTING BRACKET.



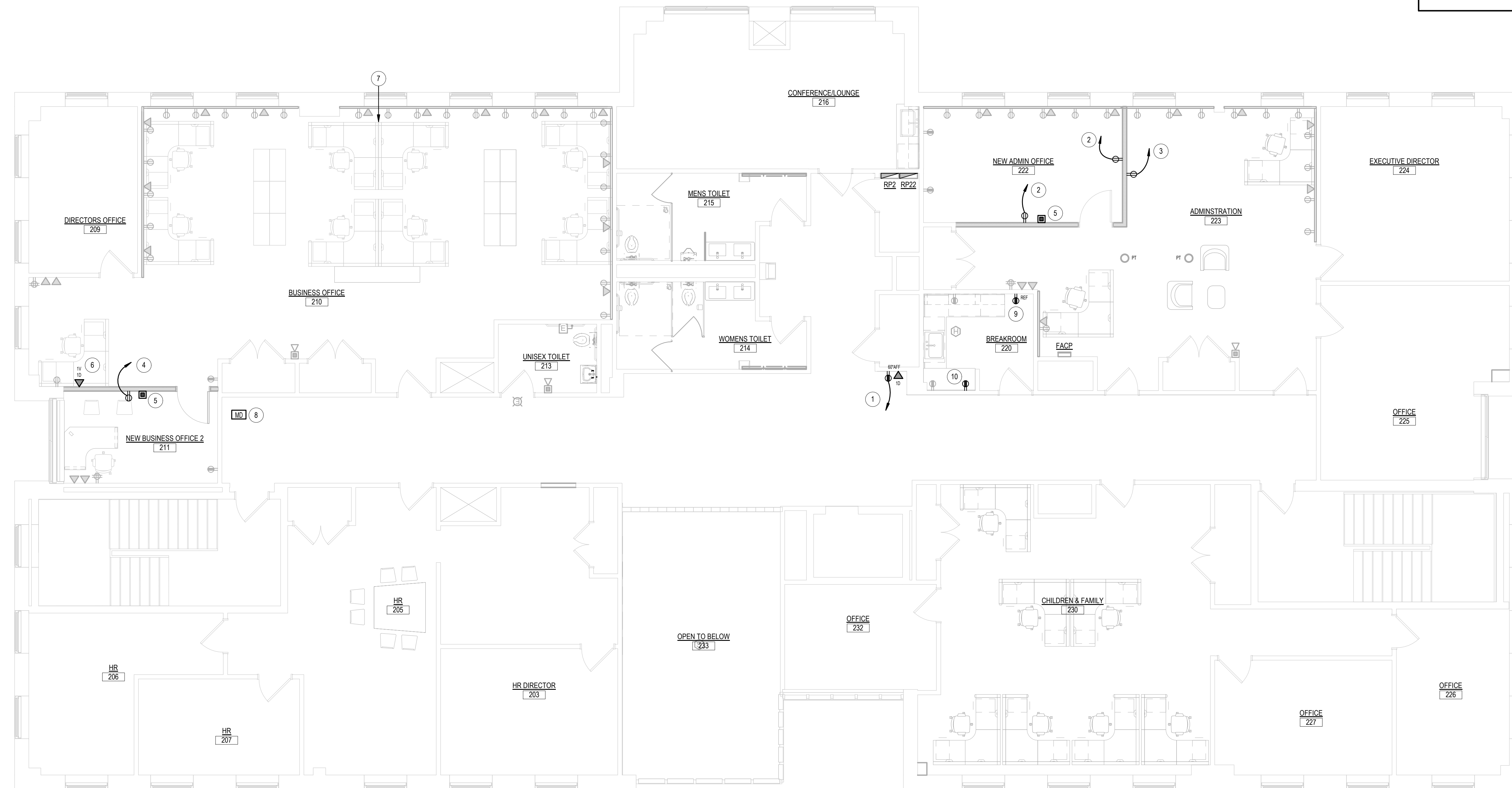
**1 FIRST LEVEL POWER PLAN**  
3/16" = 1'-0"

**GENERAL POWER NOTES**

- ALL WORK SHALL CONFORM WITH THE ELECTRICAL SPECIFICATIONS AND LATEST ACCEPTED NATIONAL ELECTRICAL CODE (NEC).
- ALL EXISTING DEVICES SHOWN HALF-TONE (LIGHT), ARE EXISTING TO REMAIN AND ALL WIRING TO THESE DEVICES SHALL REMAIN WIRED TO THEIR EXISTING BRANCH CIRCUITS. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF ALL EXISTING BRANCH CIRCUITS EFFECTED BY THE RENOVATION AND PROVIDE ADDITIONAL WIRING AS NEEDED.

**POWER KEY NOTES**

- 1 CONTRACTOR SHALL FURNISH AND INSTALL A NEW DUPLEX RECEPTACLE TO SERVE THE NEW ELECTRONIC DIRECTORY FROM A NEW 20A-1P CIRCUIT BREAKER IN PANEL 'RP22 WIRED WITH 2 #12 + #12G IN 3/4". ALSO, FURNISH AND INSTALL A NEW DATA RECEPTACLE ALSO TO SERVE NEW ELECTRONIC DIRECTORY. NEW NETWORK CABLE SHALL MATCH EXISTING AND BE RUN TO NEAREST COMMUNICATIONS CLOSET WHICH MAY BE ON THE GARDEN LEVEL. BOTH POWER AND DATA DEVICES SHALL BE INSTALLED IN A RECESSED BACK BOX THAT HAS THE DEVICE RECESSED IN THE BOX NOT FLUSH TO ALLOW THE CORDS TO BE PLUGGED IN WITHIN THE BOX. CONFIRM EXACT MOUNTING HEIGHT AND LOCATION OF DEVICES WITH APPROVED MONITOR AND ASSOCIATED MOUNTING BRACKET.
- 2 CONTRACTOR SHALL WIRE NEW DUPLEX RECEPTACLE IN THIS ROOM TO ONE OF THE EXISTING BRANCH CIRCUITS SERVING THE EXISTING WIREMOLD RECEPTACLES ALONG THE EXTERIOR WALL. EACH RECEPTACLE SHALL BE WIRED TO A DIFFERENT BRANCH CIRCUIT WITH 2 #12 + #12G IN 3/4".
- 3 CONTRACTOR SHALL WIRE NEW DUPLEX RECEPTACLE IN THIS LOCATION TO ONE OF THE EXISTING BRANCH CIRCUITS SERVING THE EXISTING WIREMOLD RECEPTACLES ALONG THE EXTERIOR WALL. THIS RECEPTACLE SHALL BE WIRED TO A DIFFERENT BRANCH CIRCUIT THAN THE TWO IN THE NEW ADJACENT OFFICE WITH 2 #12 + #12G IN 3/4".
- 4 CONTRACTOR SHALL WIRE NEW DUPLEX RECEPTACLE IN THIS ROOM TO THE EXISTING BRANCH CIRCUIT CURRENTLY SERVING THE EXISTING QUAD RECEPTACLE IN THIS ROOM WITH 2 #12 + #12G IN 3/4".
- 5 CONTRACTOR SHALL INSTALL NEW FIRE ALARM DEVICE INDICATED. WIRE DEVICE TO NEAREST AVAILABLE VISUAL ZONE/LOOP SERVING THE AREA THE DEVICE IS IN. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM (SIMPLEX).
- 6 CONTRACTOR SHALL FURNISH AND INSTALL A NEW COMMUNICATIONS OUTLET (1-VOICE & 1-DATA PLUG). DEVICES SHALL BE WIRED TO NEAREST TELECOMMUNICATIONS CLOSET (WHICH MAY BE ON THE GARDEN LEVEL). NEW WIRING SHALL MATCH EXISTING BUILDING WIRE FOR BOTH SIZE AND COLOR (CONFIRM WITH OWNER).
- 7 CONTRACTOR SHALL FEED NEW PREWIRED MODULAR FURNITURE SYSTEM FROM EXISTING WIREMOLD ON PERIMETER WALL FOR BOTH POWER AND COMMUNICATIONS. CONTRACTOR SHALL FURNISH AND INSTALL PATCH CORDS FROM (4) VOICE AND (4) DATA PLUGS TO BE RUN ALONG THE FLOOR AND INTO THE END OF THE FURNITURE SYSTEM AND RUN WITHIN RACEWAY TO EACH CUBE WHERE A BUSHED/GROMMETTED OPEN WILL BE PROVIDED FOR THE PATCH CORD TO EXIT THE RACEWAY AND CONNECT TO THE PHONE AND COMPUTER. CONTRACTOR SHALL FURNISH AND INSTALL A "WHIP" CONNECTION FROM (2) EXISTING BRANCH CIRCUITS IN THE EXISTING WIREMOLD OVER TO THE PREWIRED FURNITURE SYSTEM. COORDINATE WIRING REQUIREMENTS WITH APPROVED FURNITURE SYSTEM AND REPLACE (2) EXISTING SINGLE POLE CIRCUIT BREAKERS USED TO SERVE NEW FURNITURE SYSTEM WITH A NEW TWO POLE BREAKER.
- 8 CONTRACTOR SHALL FEED NEW MOTORIZED DAMPER FROM EXISTING BRANCH CIRCUIT CURRENTLY SERVING RECEPTACLES IN THIS AREA OF THE CORRIDOR WITH 2 #12 + #12G IN 3/4".
- 9 CONTRACTOR SHALL EXTEND EXISTING BRANCH CIRCUIT THAT PREVIOUSLY FED THE RECEPTACLE THAT SERVED THE REFRIGERATOR ON THE OPPOSITE SIDE OF THE ROOM TO THE EXISTING RECEPTACLE IN THIS LOCATION TO SERVE REFRIGERATOR. WIRING SHALL MATCH EXISTING, BUT BE NO LESS THAN 2 #12 + #12G IN 3/4".
- 10 CONTRACTOR SHALL FURNISH AND INSTALL A NEW DUPLEX RECEPTACLE TO BE MOUNTED ABOVE COUNTER AS INDICATED TO SAME HEIGHT AS ADJACENT RECEPTACLE. WIRE NEW RECEPTACLE FROM EXISTING BRANCH CIRCUIT THAT CURRENTLY FEEDS THE TWO ABOVE COUNTER RECEPTACLES IN THIS ROOM WITH 2 #12 + #12G IN 3/4".



**2 SECOND LEVEL POWER PLAN**  
3/16" = 1'-0"

Project Title:  
**INTERIOR RENOVATION  
LEARN REGIONAL SERVICE CENTRAL**  
44 HATCHETTS HILL RD  
OLD LYME, CT 06371



**SILVER PETRUCCELLI + ASSOCIATES**  
3190 WHITNEY AVENUE HAMDEN CT 06518  
311 STATE STREET NEW LONDON CT 06320  
203 230 9007 silverpetrucci.com

Revision:	Description:	Date:	Revised By:

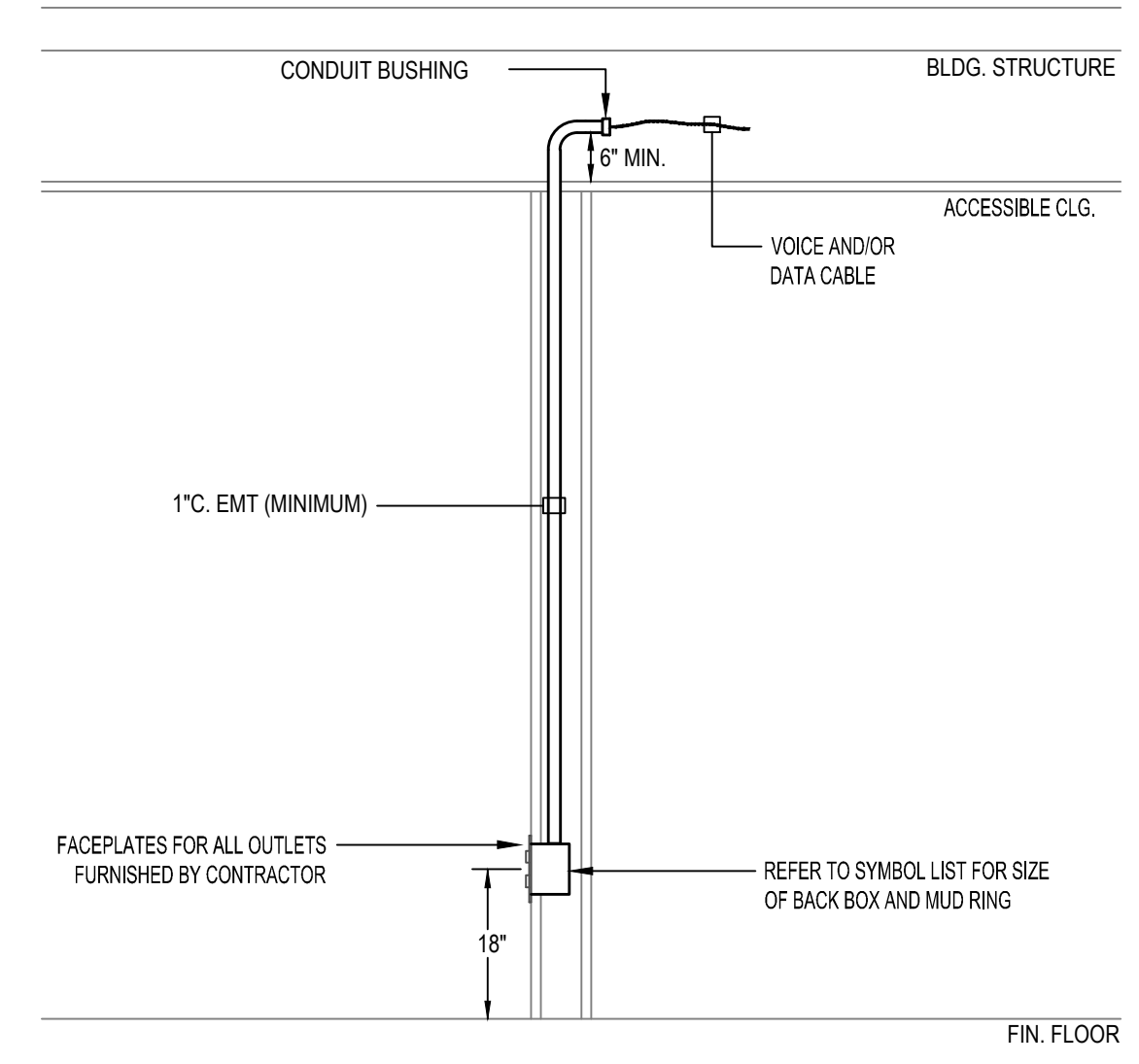
Drawing Title:  
**SECOND LEVEL PLAN - POWER**

Date: 2024.04.11  
Scale: As Indicated  
Drawn By: S. CROTEAU  
Project Number: 23.202  
Drawing Number: **E211**

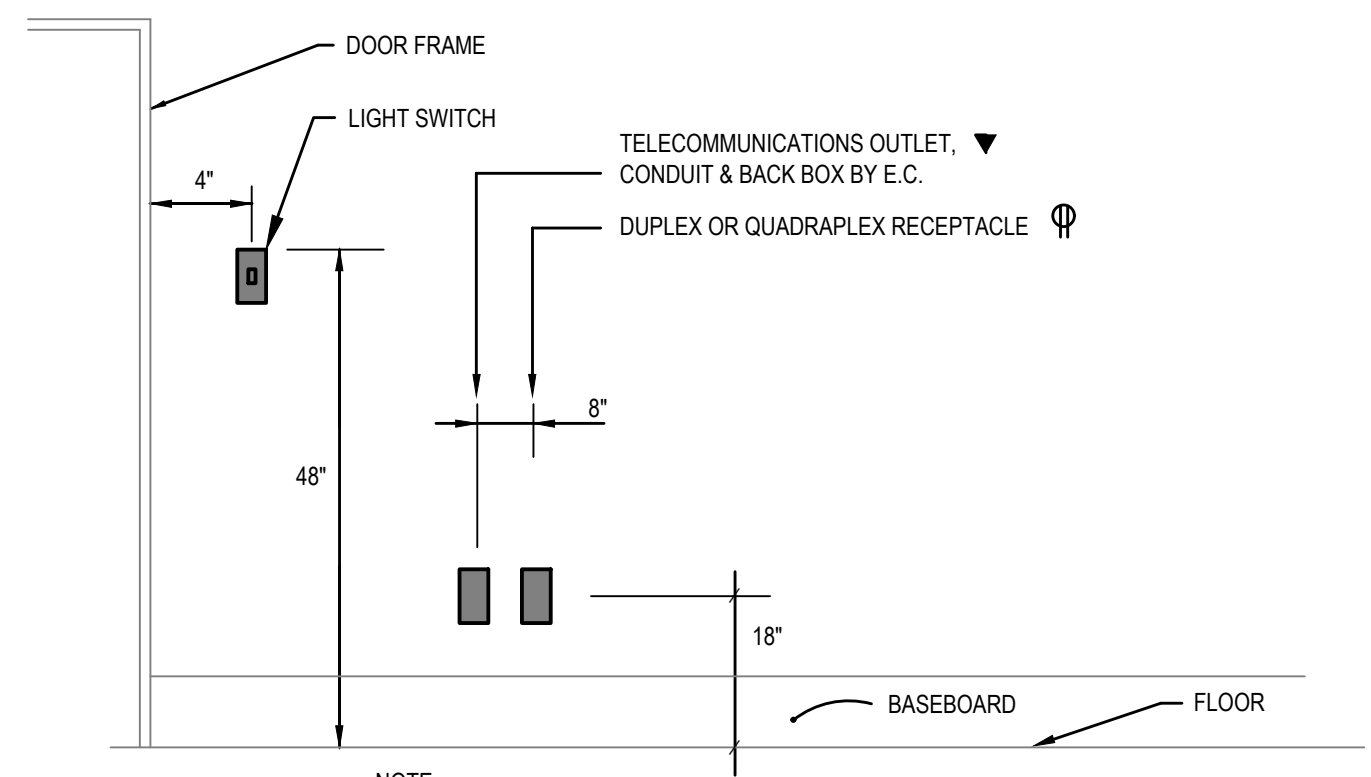


- LIGHT FIXTURE NOTES**
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES.
  - CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND/OR COORDINATE ALL FIXTURE TRIMS PRIOR TO PURCHASE OF FIXTURES.
  - FURNISH ALL ADDITIONAL MATERIALS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.
  - ALL EQUALS MUST BE APPROVED BY THE ELECTRICAL DESIGNER. A POINT BY POINT CALCULATION MUST BE PROVIDED FOR CONFERENCE ROOM A MAIN LOBBY. THERE WILL BE NO EXCEPTIONS GRANTED. ENERGY MODELS HAVE BEEN BASED ON PRODUCT SHOWN. ANY ALTERNATES SUBMITTED MUST NOT CONSUME MORE THEN THE WATTAGE SHOWN ON THE FIXTURE SCHEDULE. THERE WILL BE NO EXCEPTIONS GRANTED. ALTERNATE EQUALS MAY VARY IN APPEARANCE AND AESTHETICS PROVIDED THEY MEET THE PERFORMANCE REQUIREMENTS SHOWN ON FIXTURE SCHEDULE. FINAL APPROVAL BY ELECTRICAL DESIGNER AND ARCHITECT. POINT BY POINT CALCULATIONS WILL BE REQUIRED AS PART OF THE PRODUCT SUBMITTAL PACKAGE SUBSEQUENT TO BIDDING AND SUBSTITUTION REQUESTS.
  - ALL SUBSTITUTED DRIVERS OFFERED MUST BE LESS THAN OR EQUAL TO WATTAGES SHOWN ON EACH TYPE FIXTURE. NO SUBSTITUTE DRIVER WILL BE ACCEPTED THAT DOESN'T MEET THIS REQUIREMENT.
  - FURNISH WITH NICKEL CADMIUM BATTERY TO PROVIDE 100% OUTPUT FOR A MINIMUM OF 90 MINUTES FOR EMERGENCY LIGHTING OPERATION.

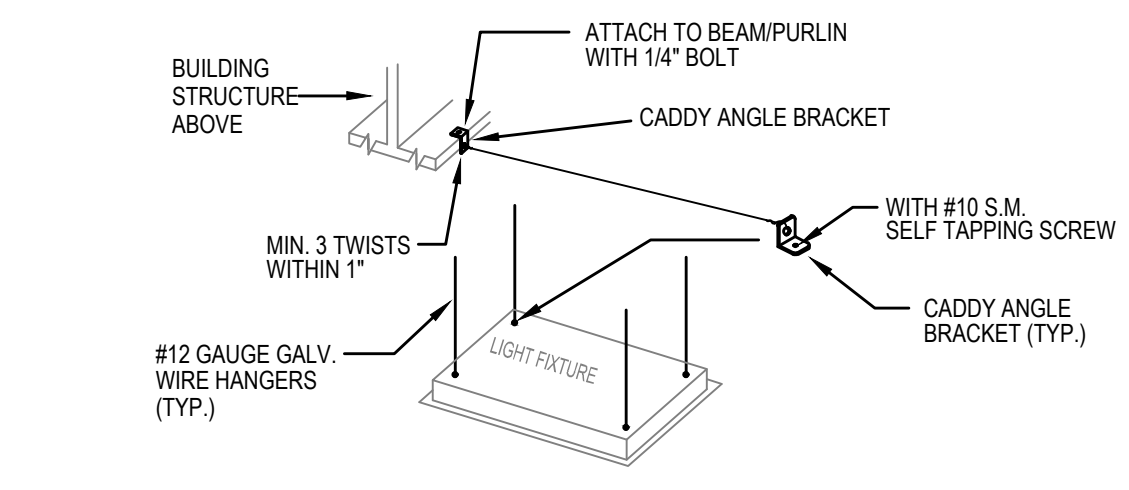
DESIGNATION	DESCRIPTION	MANUFACTURER/ MODEL NUMBER	LAMP			ELECTRICAL			NOTES
			TYPE	COLOR TEMP	NO	DRIVER	VOLTAGE	WATTS	
A1	RECESSED MOUNTED 2FT x 2FT ARCHITECTURAL LED LIGHT FIXTURE WITH DIFFUSE ROUND SMOOTH ACRYLIC CENTER DIFFUSER (3000 LUMEN PACKAGE)	DAY-BRITE LIGHTING #ZFGK328L840-2-RS-UNV-DIM	LED	4000K		DIMMING	120	21.9	
A1E	SAME AS TYPE 'A1' EXCEPT WITH EMERGENCY BATTERY	DAY-BRITE LIGHTING #ZFGK328L840-2-RS-UNV-DIM-BSL10LST	LED	4000K		DIMMING	120	21.9	(E)
A2	SAME AS TYPE 'A1' EXCEPT LUMEN PACKAGE (2500 LUMENS)	DAY-BRITE LIGHTING #ZFGK328L840-2-RS-UNV-DIM	LED	4000K		DIMMING	120	18.2	
A2E	SAME AS TYPE 'A2' EXCEPT WITH EMERGENCY BATTERY	DAY-BRITE LIGHTING #ZFGK328L840-2-RS-UNV-DIM-BSL10LST	LED	4000K		DIMMING	120	18.2	(E)
B1	RECESSED MOUNTED 2FT x 4FT ARCHITECTURAL LED LIGHT FIXTURE WITH DIFFUSE ROUND SMOOTH ACRYLIC CENTER DIFFUSER (5000 LUMEN PACKAGE)	DAY-BRITE LIGHTING #ZFGK328L840-4-RS-UNV-DIM	LED	4000K		DIMMING	120	37.7	
B2	SAME AS TYPE 'B1' EXCEPT LUMEN PACKAGE (3800 LUMENS)	DAY-BRITE LIGHTING #ZFGK328L840-4-RS-UNV-DIM	LED	4000K		DIMMING	120	30	
C1	PENDANT MOUNTED 48" DIAMETER DIRECT/INDIRECT LED LIGHT FIXTURE WITH ALUMINUM EXTRUSION, PC DIFFUSER, REMOTE DRIVER AND SILVER FINISH (1000 LUMEN PACKAGE, 3000 UP & 7100 DOWN)	TECHOLED LIGHTING #HALO-DJ-47-120-40-U-S-P-DM1-X-X	LED	4000K		DIMMING	120	120	(1)
C2	PENDANT MOUNTED 36" DIAMETER DIRECT/INDIRECT LED LIGHT FIXTURE WITH ALUMINUM EXTRUSION, PC DIFFUSER, REMOTE DRIVER AND SILVER FINISH (800 LUMEN PACKAGE, 2040 UP & 7560 DOWN)	TECHOLED LIGHTING #HALO-DJ-35-120-40-U-S-P-DM1-X-X	LED	4000K		DIMMING	120	80	(1)
C3	PENDANT MOUNTED 36" DIAMETER DIRECT/INDIRECT LED LIGHT FIXTURE WITH ALUMINUM EXTRUSION, PC DIFFUSER, REMOTE DRIVER AND SILVER FINISH (500 LUMEN PACKAGE, 1700 UP & 3800 DOWN)	TECHOLED LIGHTING #HALO-DJ-23-120-40-U-S-P-DM1-X-X	LED	4000K		DIMMING	120	65	(1)



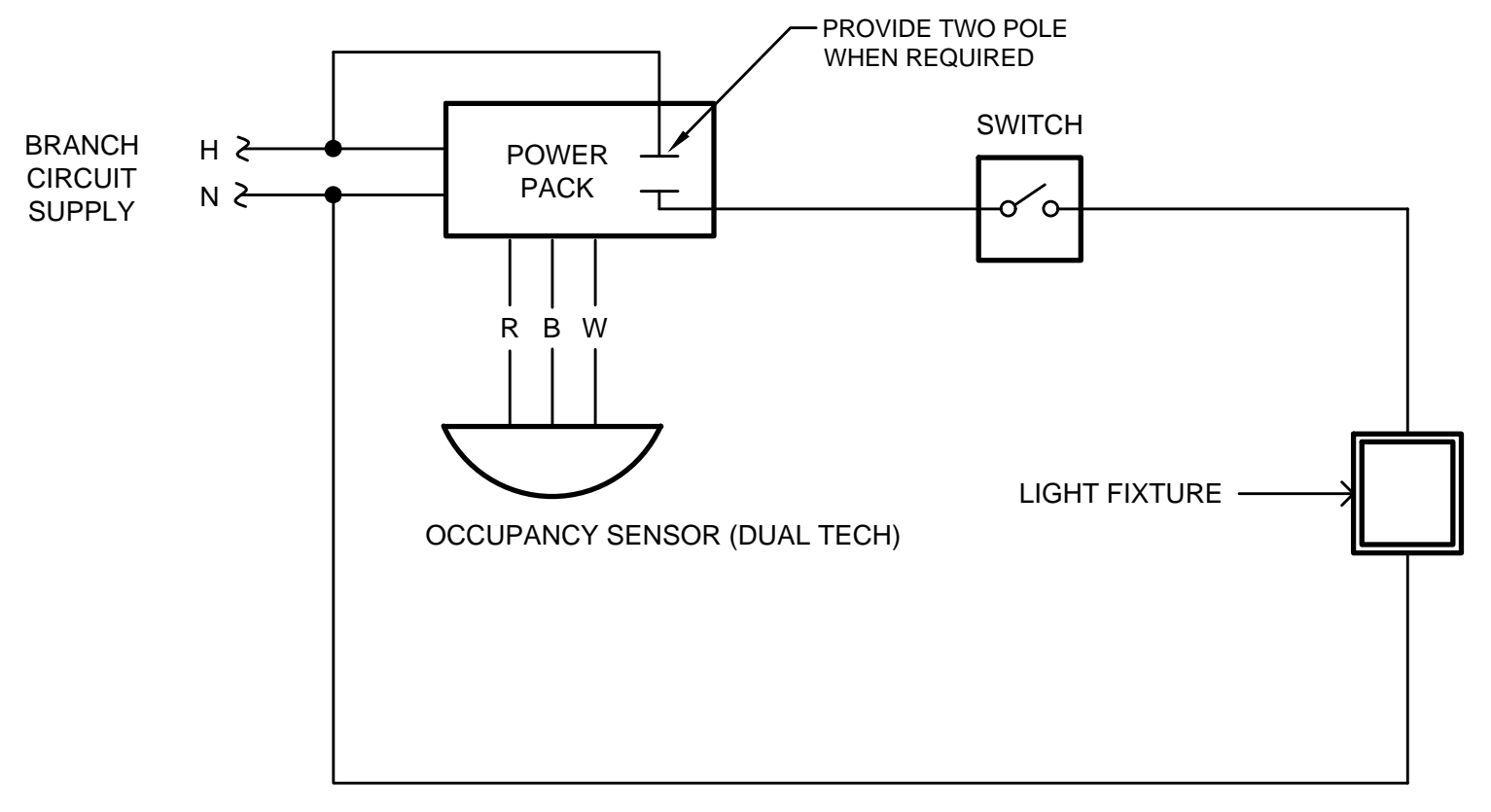
**1 VOICE / DATA / AV OUTLET INSTALLATION DETAIL**  
NTS



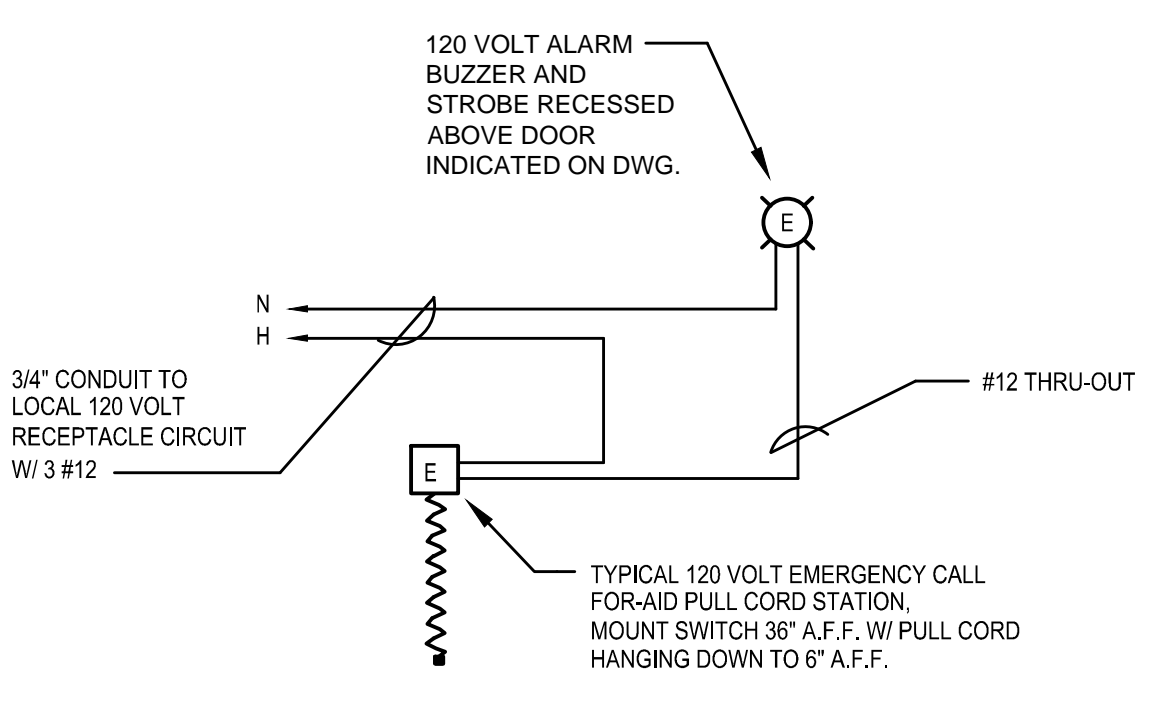
**2 OUTLET MOUNTING DETAIL**  
NTS  
(TYPICAL FOR ALL OUTLETS UNLESS OTHERWISE NOTED)



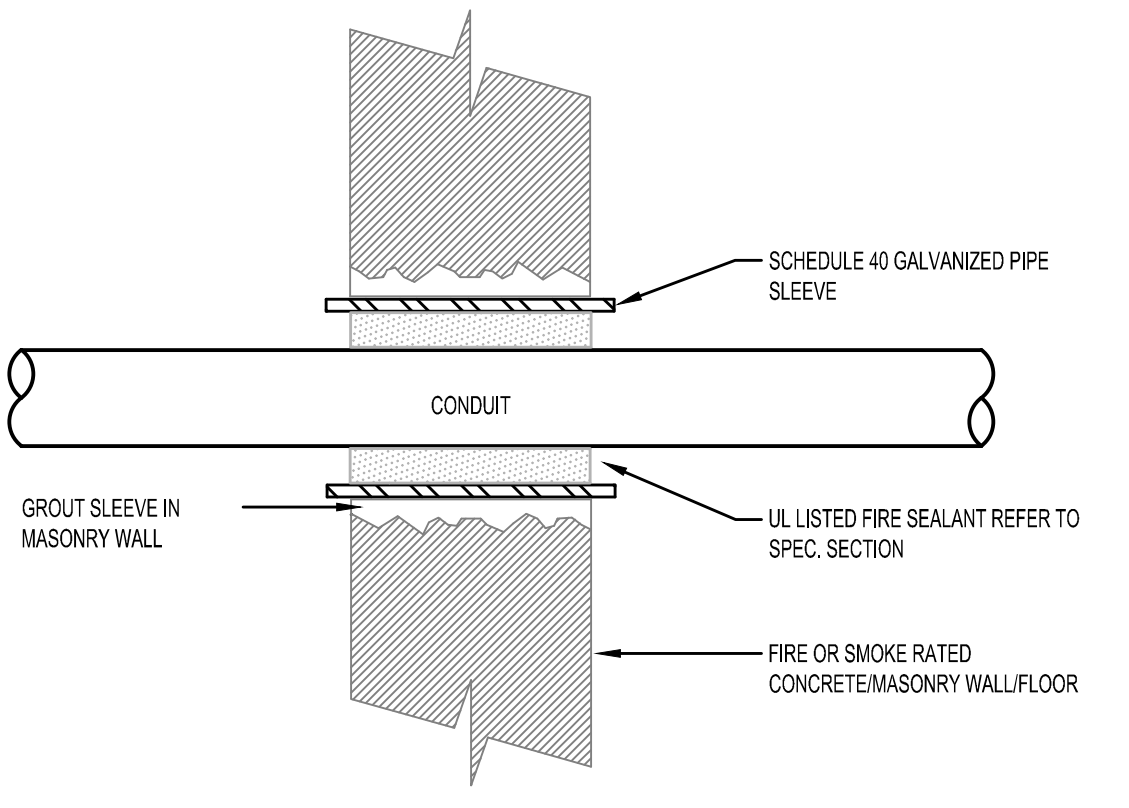
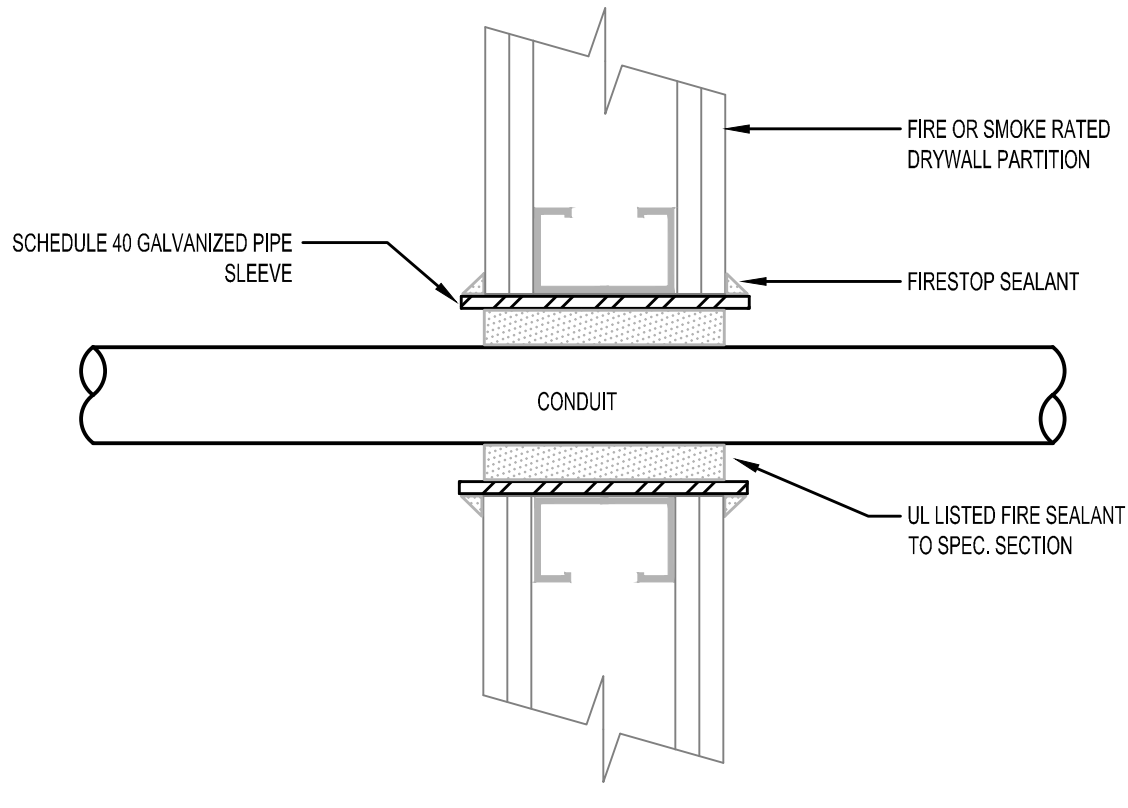
**3 TYPICAL LAY-IN GRID LIGHTING FIXTURE SUPPORT/MOUNTING DETAIL**  
NTS



**4 CEILING OCCUPANCY SENSOR DETAIL**  
NTS



**6 HANDICAPPED CALL-FOR-AID SYSTEM**  
NTS



**5 WALL/FLOOR PENETRATION W/FIRE-SMOKE SEAL DETAIL**  
NTS

Project Title:  
**INTERIOR RENOVATION  
LEARN REGIONAL SERVICE CENTRAL**  
44 HATCHETTS HILL RD  
OLD LYME, CT 06371

**SILVER PETRUCELLI + ASSOCIATES**  
3190 WHITNEY AVENUE HAMDEN CT 06518  
311 STATE STREET NEW LONDON CT 06320  
203 230 9007 silverpetrucci.com

Revision:	Description:	Date:	Revised By:

Drawing Title:  
**LIGHT FIXTURE SCHEDULE, DETAILS &  
SPECIFICATIONS**

Date:  
2024.04.11  
Scale:  
As Indicated  
Drawn By:  
S. CROTEAU  
Project Number:  
23.202  
Drawing Number:  
**E300**

### ELECTRICAL SPECIFICATIONS

**GENERAL:**

PROVIDE LABOR, MATERIALS, EQUIPMENT AND SERVICES FOR COMPLETE ELECTRICAL SYSTEMS FOR EXISTING AND NEW SYSTEMS AND AS REQUIRED BY APPLICABLE BUILDING CODES, NATIONAL ELECTRICAL CODES, INCLUDING OSHA. PAY ALL FEES, OBTAIN ALL PERMITS, CERTIFICATES AND ALL CONTROLLED INSPECTIONS AND INSPECTIONS. USE NEW U.L. APPROVED EQUIPMENT. INCLUDE ALL TEMPORARY LIGHT AND POWER DURING CONSTRUCTION.

PROVIDE ALL LABOR MATERIAL AND EQUIPMENT TO ACCOMPLISH ANY REQUIRED DEMOLITION OR REMOVAL WORK.

ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL MATERIALS SHALL BE OF THE BEST QUALITY FOR THE PURPOSE INTENDED. TRADE NAMES AND CATALOG NUMBERS ARE INTENDED TO INDICATE THIS GRADE AND QUALITY.

RENDER FULL COOPERATION TO OTHER TRADES WHERE WORK OF CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. THE CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS. VERIFY POWER REQUIREMENTS WITH ALL OTHER TRADES.

ON ACCEPTANCE OF CONTRACT, CONTRACTOR AGREES TO GUARANTEE ALL OF HIS WORK AND EQUIPMENT FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF INITIAL OPERATION. MANUFACTURED EQUIPMENT SHALL CARRY FULL PERIOD OF MANUFACTURER'S GUARANTEE, AND SHALL NOT BE LESS THAN ONE (1) YEAR.

THE CONTRACTOR SHALL PERFORM ALL CUTTING NECESSARY FOR THE PROPER INSTALLATION OF ELECTRICAL WORK.

KEEP CONDUITS AND OTHER OPENINGS CLOSED TO PREVENT ENTRY OF FOREIGN MATTER. COVER FIXTURES, EQUIPMENT AND APPARATUS AND PROTECT AGAINST DIRT, WATER, CHEMICAL OR MECHANICAL DAMAGE BEFORE AND DURING THE CONSTRUCTION PERIOD UNTIL THE FINAL ACCEPTANCE. EQUIPMENT SHALL BE DELIVERED AND STORED AT SITE, PROPERLY PACKED AND CREATED UNTIL FINALLY INSTALLED.

FURNISH, INSTALL, SET AND LAMP NEW LIGHTING FIXTURES. INCLUDE ALL NECESSARY SUPPORTS AND HANGERS WHERE REQUIRED. ALL FIXTURES SHALL HAVE U.L. LABEL. LIGHTING FIXTURES SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS AND SHALL BE MADE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATION. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION, WHERE SPECIFICALLY MENTIONED OR NOT.

SHOP DRAWINGS AND OTHER INFORMATION REQUIRED: PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS, A MANUFACTURER'S LIST SHALL BE SUBMITTED FOR REVIEW. PRIOR TO ASSEMBLING OR INSTALLING THE WORK, THE FOLLOWING SHALL BE SUBMITTED FOR REVIEW:

- CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS OR EQUIPMENT. THE PURPOSE FOR REVIEW SHOP DRAWINGS IS TO MAINTAIN INTEGRITY OF THE DESIGN. UNLESS THE CONTRACTOR CLEARLY INDICATED IN WRITING AND ON HIS LETTERHEAD, ANY CHANGES, SUBSTITUTIONS, DELETIONS OR ANY OTHER DIFFERENCES BETWEEN THE SUBMISSION AND CONTRACT DOCUMENTS, APPROVAL BY THE ENGINEER DOES NOT CONSTITUTE ACCEPTANCE. IT IS NOT TO BE ASSUMED THAT THE ENGINEER HAS READ THE TEXT NOR REVIEWED THE TECHNICAL DATA OF A MANUFACTURED ITEM AND ITS COMPONENTS EXCEPT WHERE THE VENDOR HAS POINTED OUT DIFFERENCES BETWEEN HIS PRODUCT AND THE SPECIFIED MODEL.

THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE CONSTRAINTS OF THE EXISTING AVAILABLE SPACE PERTAINING TO EQUIPMENT SIZE AND CONFIGURATION AND TO EXAMINE THE CONDITIONS UNDER WHICH THE EQUIPMENT WILL BE INSTALLED. CONTRACTOR SHALL AT THIS TIME REPORT ANY DISCREPANCIES OR QUESTIONS TO THE ARCHITECT/ENGINEER.

WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITH EITHER DOCUMENT, THE CONTRACTOR SHALL ASK FOR AND OBTAIN A WRITTEN CLARIFICATION FROM THE ENGINEER PRIOR TO SUBMITTING HIS BID. OTHERWISE, THE ITEMS OR ARRANGEMENTS OF SUPERIOR QUALITY, GREATER QUANTITY OR HIGHER COST SHALL PREVAIL AND BE INCLUDED IN THE CONTRACT PRICE.

**LIGHTING AND POWER PANELS:**

LIGHTING AND POWER PANELS ARE EXISTING WALL-MOUNTED, 208Y/120 VOLTS, 3 PHASE AS INDICATED ON THE PLANS. REUSE EXISTING SPARE CIRCUIT BREAKERS WHENEVER POSSIBLE AND ADD NEW BREAKERS TO MATCH EXISTING WHEN THERE ARE ANY SPARE.

**WIRING DEVICES:**

WIRING DEVICES WILL BE "PREMIUM SPECIFICATION GRADE" MANUFACTURED BY LEVITON, HUBBELL, G.E. OR EQUAL.

RECEPTACLES SHALL BE NEMA 5-20R, TWO-POLE, THREE-WIRE GROUNDING TYPE, WITH MOLDED NYLON BODY AND FACE, PREMIUM SPECIFICATION GRADE, RATED 20 AMPS AT 125 VOLTS. RECEPTACLES SHALL COME WITH A 10-YEAR LIMITED WARRANTY FROM THE MANUFACTURER. ISOLATED GROUND RECEPTACLES SHALL HAVE INTEGRAL SURGE PROTECTION WITH AUDIBLE INDICATOR ALARM. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLES SHALL BE 15 AMP, 125 VOLT DUPLEX, NEMA 5-15R, WITH 20 AMP, 125 VOLT FEED-THROUGH AND TRIP INDICATOR, HUBBELL OR LEVITON.

MAINTAINED CONTACT SWITCHES SHALL BE 20A, RATED 125 VAC, "QUIET" TYPE, SINGLE POLE, THREE OR FOUR WAY.

OCCUPANCY SENSOR SWITCHES SHALL BE DUAL TECHNOLOGY TYPE. ALL SENSORS SHALL BE CAPABLE OF CONTROLLING 120/277 VOLT LED DRIVER LOADS. WALL-MOUNTED SENSORS SHALL HAVE INTEGRAL SWITCH FOR MANUAL OVERRIDE TO "OFF" AND SHALL CONTAIN A PHOTOCELL FOR DAYLIGHT OVERRIDE "OFF". SENSORS SHALL HAVE ADJUSTABLE TIME DELAY TO "OFF" AND ADJUSTABLE SENSITIVITY FOR THE PHOTOCELL, SENSOR SWITCH OR APPROVED EQUAL.

DEVICE COLOR: WIRING DEVICE CATALOG NUMBERS IN SECTION TEXT DO NOT DESIGNATE DEVICE COLOR.

- WIRING DEVICES CONNECTED TO NORMAL POWER SYSTEM: AS SELECTED BY ARCHITECT, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70 OR DEVICE LISTING.
- WIRING DEVICES CONNECTED TO EMERGENCY POWER SYSTEM: RED.
- TVSS DEVICES: BLUE.
- ISOLATED-GROUND RECEPTACLES: ORANGE.

COVERPLATES SHALL BE SATIN-FINISHED STAINLESS STEEL OR AS SELECTED BY ARCHITECT.

RECEPTACLES: IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH SERVED. USE PRESS ON LABEL, BLACK LETTERING ON WHITE BACKGROUND ON FACE OF PLATE AND IN EASILY READABLE LOCATION INSIDE DEVICE BACKBOX, AND DURABLE WIRE MARKERS OR TAGS ON CONDUCTORS INSIDE OUTLET BOXES.

**OUTLET BOXES:**

PROVIDE GALVANIZED PRESSED STEEL OUTLET BOXES OF PROPER SIZE AND TYPE AS REQUIRED BY THE BUILDING CONDITIONS TO SERVE ALL INTERIOR OUTLETS FOR MOTOR CIRCUITS, LIGHTING, SWITCHES, RECEPTACLES, SIGNALS, AND THE LIKE.

**LIGHTING:**

REFER TO DRAWINGS FOR LIGHTING FIXTURE SCHEDULE/SPECIFICATIONS.

EXIT SIGNS SHALL MATCH EXISTING.

EMERGENCY LIGHTING UNITS SHALL MATCH EXISTING.

BALLASTS SHALL BE ELECTRONIC TYPE WITH THD LESS THAN 10%, MANUFACTURED BY ADVANCE, MAGNETEK, OR MOTOROLA.

FLUORESCENT LAMPS SHALL BE 3000K WITH A CRI OF 82 OR HIGHER, MANUFACTURED BY G.E., PHILIPS, OR SYLVANIA.

**TELECOMMUNICATIONS SERVICE AND RACEWAY SYSTEMS:**

CONDUIT SYSTEMS SHALL BE PROVIDED FOR TELECOMMUNICATIONS AND ELECTRONIC DIRECTORY SYSTEMS. OUTLET DEVICES AND WIRING SHALL BE PROVIDED AS INDICATED ON PLANS.

THE CONDUIT SYSTEM SHALL CONSIST OF ALL INTERIOR CONDUIT, SURFACE MOUNTED RACEWAYS, OUTLET BOXES, DEVICE PLUGS, COVER PLATES AND ALL CABLING FROM DEVICE TO IT CLOSET. ALL WIRING SHALL BE TERMINATED AT BOTH ENDS AND TESTED.

**FIRE ALARM AND SMOKE DETECTION SYSTEM:**

WORK CONSISTS OF ADDITIONS OR EXTENSIONS TO AN EXISTING SYSTEM. PRIOR TO STARTING WORK, ESTABLISH THAT SYSTEM IS IN PROPER WORKING ORDER. IF CONDITION EXISTS WHICH PREVENTS NORMAL OPERATION OF SPECIFIED ADDITIONS AND EXTENSIONS, BRING THIS FACT TO ARCHITECT'S ATTENTION PRIOR TO DOING WORK AFFECTING EXISTING SYSTEM.

WHERE WORK IS DONE WITHOUT SUCH NOTIFICATION, IT SHALL BE ASSUMED THAT CONNECTIONS HAVE BEEN MADE TO A WORKING SYSTEM, AND PERFORMANCE REQUIREMENTS AND GUARANTEE WILL APPLY TO ENTIRE SYSTEM.

ALL FIRE ALARM AND DETECTION SYSTEM WIRING SHALL BE TYPE NPLF IN EMT CONDUIT.

THE EXISTING FIRE ALARM AND SMOKE DETECTION SYSTEM CONSISTS OF A CENTRAL CONTROL PANEL FOR MONITORING AND CONTROL OF SMOKE DETECTING DEVICES, MANUAL ALARM SYSTEMS, WATER FLOW AND TAMPER SWITCHES, AUDIBLE AND VISUAL ALARM SYSTEMS, DOOR RELEASE, AND FAN SHUTDOWN SYSTEMS. PROVIDE ALL MODIFICATIONS AS REQUIRED TO ACCOMMODATE NEW DEVICES SHOWN ON PLANS OR INDICATED IN SPECIFICATION.

ALL NEW INITIATING DEVICES SHALL BE MULTIPLEXED ADDRESSABLE TYPES, COMPATIBLE WITH EXISTING SYSTEM.

SPEAKER/STROBE ALARM UNITS SHALL BE PROVIDED AND SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 101, NFPA 72, AND THE AMERICANS WITH DISABILITIES ACT (ADA), AND SHALL THEREFORE HAVE A MINIMUM STROBE OUTPUT OF 15.75 CANDELA.

AFTER DATE OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL TEST THE FIRE ALARM SYSTEM COMPLYING WITH TESTING AND VISUAL INSPECTION REQUIREMENTS IN NFPA 72. CONTRACTOR SHALL SUPPLEMENT AUDIBLE DEVICES TO MEET CODE SOUND LEVELS.

**MECHANICAL EQUIPMENT CONNECTIONS:**

ALL POWER CONNECTIONS TO HEATING, AIR CONDITIONING, AND PLUMBING EQUIPMENT, WHICH SHALL INCLUDE SUPPLYING AND MOUNTING OF SAFETY DISCONNECT SWITCHES, SHALL BE PROVIDED, INCLUDING THE MOUNTING OF MOTOR STARTERS, WHICH SHALL BE FURNISHED BY THE SUPPLIERS OF MECHANICAL EQUIPMENT.

SAFETY SWITCHES SHALL BE PROVIDED AND SHALL CONSIST OF METAL ENCLOSED, EXTERNALLY OPERATED FUSES, OR UNFUSED SAFETY SWITCHES OF SUCH TYPE AND SIZE AS REQUIRED TO PROTECT AND DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED.

WHERE WEATHERPROOF SWITCHES ARE INDICATED OR REQUIRED, NEMA 3R RAIN-TIGHT ENCLOSURES SHALL BE PROVIDED.

**SUPPORTS:**

PROVIDE SUPPORTS, BRANCHES AND HANGERS FOR THE INSTALLATION OF OUTLETS, CONDUITS, PANELS, STARTING AND CONTROL EQUIPMENT.

**600 VOLT CABLE:**

ALL WIRE NO. 10, 12, AND 14 AWG SHALL BE SOLID CONDUCTOR TYPE THHN/THWN. NO. 8 AWG THROUGH NO. 1 AWG SHALL BE STRANDED CONDUCTOR TYPE THHN/THWN. NO. 10 AWG AND LARGER SHALL BE STRANDED CONDUCTOR TYPE XHHW.

TYPE MC ARMORED CABLE SHALL CONFORM TO UL AND NEC ARTICLE 330, AND SHALL BE CONSTRUCTED OF MINIMUM NO. 12 AWG STRANDED COPPER CONDUCTORS, WITH THIN INSULATION.

**CONDUIT:**

ALL WIRING WILL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:

- ALL FEEDERS TO PANELBOARDS AND MECHANICAL EQUIPMENT AND HOMERUNS SHALL BE INSTALLED IN EMT. FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE IN FLEXIBLE METALLIC CONDUIT.
- ALL BRANCH CIRCUIT WORK RUN CONCEALED ABOVE INACCESSIBLE CEILINGS AND WITHIN STUD PARTITIONS OF FINISHED AREAS SHALL BE INSTALLED IN MC CABLE.
- ALL BRANCH CIRCUIT WORK RUN ABOVE ACCESSIBLE CEILINGS OR IN AREAS WITHOUT CEILINGS SHALL BE INSTALLED IN EMT.
- BRANCH CIRCUIT HOMERUNS FROM LAST J-BOX TO PANELBOARD SHALL BE EMT CONDUIT. J-BOX SHALL BE LOCATED IN AREA SERVING BY BRANCH CIRCUIT. DOWNSTREAM FROM J-BOX SHALL BE MC CABLE.

ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED STEEL, CONFORMING TO ANSI C80.3, UL 797, AND NEC ARTICLE 358. PROVIDE WITH COMPRESSION TYPE FITTINGS, COUPLINGS, AND CONNECTORS.

CONNECTORS FOR METAL CONDUIT SHALL BE INSULATED THROAT TYPE. PROVIDE GROUNDING BUSHINGS OR LOCKNUTS AT ALL METALLIC RACEWAY CONNECTIONS TO SHEET STEEL BOXES AND ENCLOSURES.

EXTERIOR CONDUIT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

**GROUNDING:**

A COMPLETE CONTINUOUS GROUNDING SYSTEM TO THOROUGHLY GROUND THE NON-CURRENT CARRYING METAL PARTS OF EVERY NEW PIECE OF INSTALLED EQUIPMENT SHALL BE PROVIDED. THE SYSTEM SHALL BE CONNECTED TO PROVIDE AN INDEPENDENT FAULT RETURN TO SOURCE.

**INSTALLATION:**

INSTALL WORK IN A NEAT AND WORKMAN LIKE MANNER.

CONTRACTOR SHALL BALANCE THE LOAD CONNECTED ON THE PANELBOARDS EQUALLY AMONG THE PHASES. MEASURED PHASE IMBALANCE SHALL NOT EXCEED 10% AS INSTALLED CIRCUIT NUMBERS SHALL BE REFLECTED ON THE PANEL DIRECTORIES.

CONTRACTOR SHALL SEAL ALL PENETRATIONS THROUGH PARTITIONS OR SLABS WITH A U.L. APPROVED SMOKE STOP TO MAINTAIN THE INTEGRITY OF THE RESPECTIVE FIRE RATING.

FOR EXACT LOCATIONS OF LIGHTING FIXTURES, RECEPTACLES, DATA AND TELEPHONE OUTLETS, REFER TO ARCHITECT'S DRAWINGS. COORDINATE ALL WORK WITH DATA AND TELEPHONE CONTRACTORS.

PRIOR TO FINAL ACCEPTANCE, CLEAN ALL LIGHTING FIXTURES, GLASSWARE, PANELBOARDS, CABINETS, DEVICE PLATES AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT.

**AS-BUILT DRAWINGS:**

PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEER'S COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.

**TESTS:**

TEST ALL WIRING LIGHTING FIXTURES, SWITCHES, CONTROLLERS, STARTERS, MOTORS, ETC., WIRED UNDER THIS DIVISION. LEAVE FREE FROM GROUNDS, CROSSES, SHORTS, OPENS, ETC., AND LEAVE MATERIALS AND APPARATUS IN PROPER AND SATISFACTORY WORKING CONDITION.

PERFORM ADDITIONAL TESTS REQUIRED BY OWNER, ARCHITECT OR ANY OTHER AUTHORITIES HAVING JURISDICTION.

CORRECT OR REPLACE ANY CIRCUIT, MATERIAL OR EQUIPMENT WHICH IS FOUND TO BE DEFECTIVE BY THESE TESTS. CORRECT DEFECTS, WHETHER DUE TO FAULTY WORKMANSHIP OR MATERIAL FURNISHED, IN A MANNER ACCEPTABLE TO ENGINEER WITHOUT ADDITIONAL COST.

TEST FOR PROPER OPERATION OF EMERGENCY LIGHTING EQUIPMENT UNDER SIMULATED EMERGENCY CONDITIONS.