

INTERIOR & EXTERIOR RENOVATION FOR:



NOT FOR CONSTRUCTION ISSUED FOR REVIEW ONLY

SCHEMATIC DOCUMENTS ISSUED : JUNE 18, 2021

111 NORTH MAIN ST.
BRISTOL, CT



T (860) 583-3489
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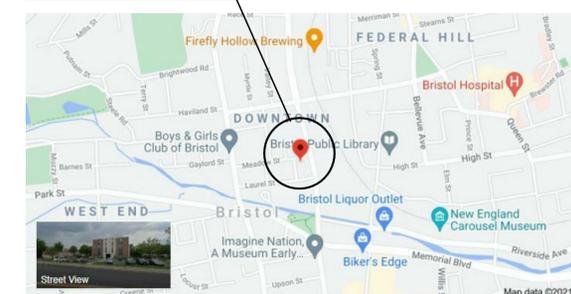


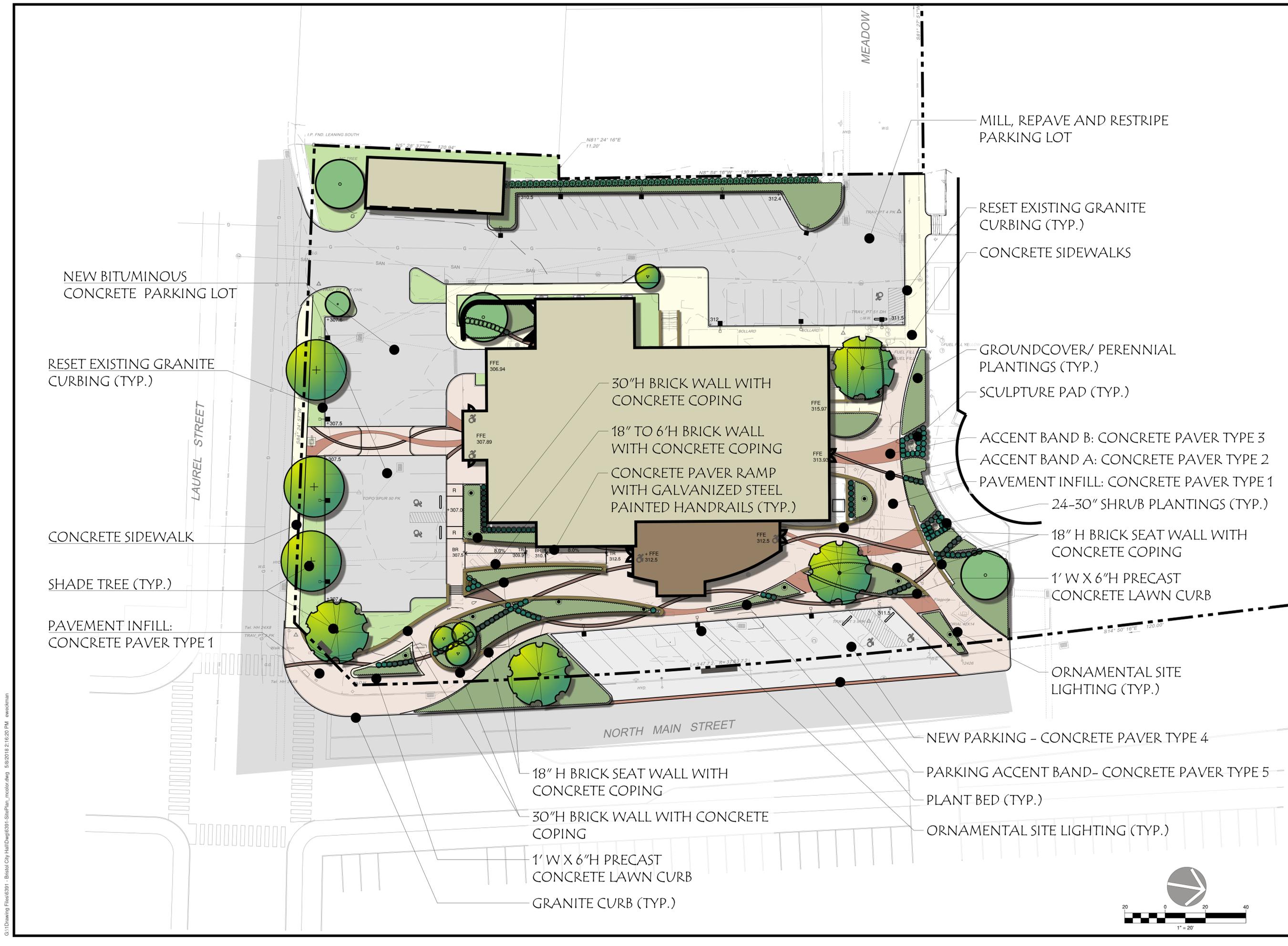
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PROJECT LOCATION

LOCATION MAP:





NEW BITUMINOUS
 CONCRETE PARKING LOT

RESET EXISTING GRANITE
 CURBING (TYP.)

CONCRETE SIDEWALK

SHADE TREE (TYP.)

PAVEMENT INFILL:
 CONCRETE PAVER TYPE 1

18" H BRICK SEAT WALL WITH
 CONCRETE COPING

30" H BRICK WALL WITH CONCRETE
 COPING

1' W X 6" H PRECAST
 CONCRETE LAWN CURB

GRANITE CURB (TYP.)

30" H BRICK WALL WITH
 CONCRETE COPING

18" TO 6" H BRICK WALL
 WITH CONCRETE COPING

CONCRETE PAVER RAMP
 WITH GALVANIZED STEEL
 PAINTED HANDRAILS (TYP.)

MILL, REPAVE AND RESTRIPE
 PARKING LOT

RESET EXISTING GRANITE
 CURBING (TYP.)

CONCRETE SIDEWALKS

GROUNDCOVER/ PERENNIAL
 PLANTINGS (TYP.)

SCULPTURE PAD (TYP.)

ACCENT BAND B: CONCRETE PAVER TYPE 3
 ACCENT BAND A: CONCRETE PAVER TYPE 2
 PAVEMENT INFILL: CONCRETE PAVER TYPE 1

24-30" SHRUB PLANTINGS (TYP.)

18" H BRICK SEAT WALL WITH
 CONCRETE COPING

1' W X 6" H PRECAST
 CONCRETE LAWN CURB

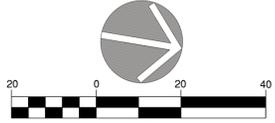
ORNAMENTAL SITE
 LIGHTING (TYP.)

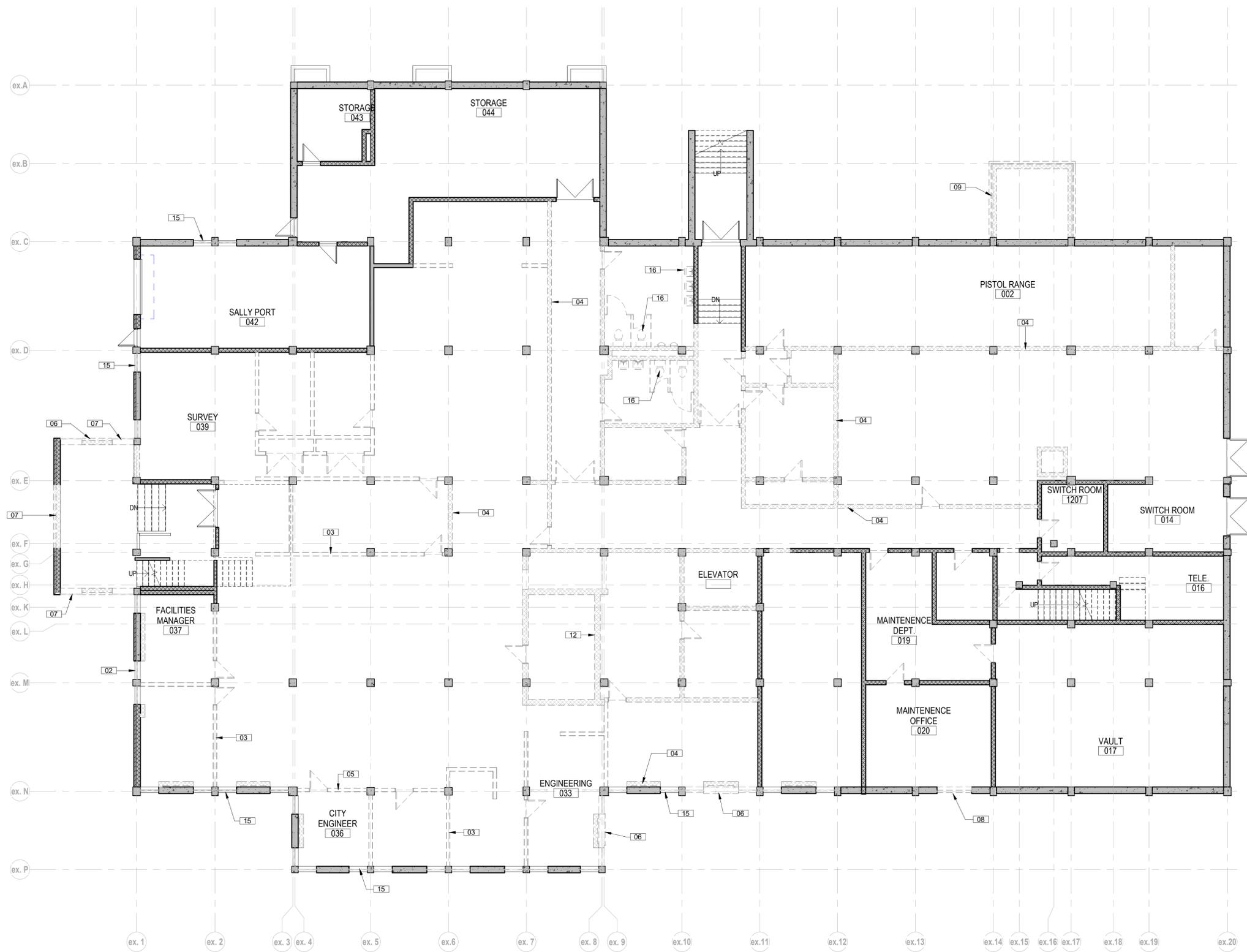
NEW PARKING - CONCRETE PAVER TYPE 4

PARKING ACCENT BAND- CONCRETE PAVER TYPE 5

PLANT BED (TYP.)

ORNAMENTAL SITE LIGHTING (TYP.)





DEMOLITION KEYNOTE LEGEND	
01	REMOVE EXISTING EXTERIOR WALL AS SHOWN DASHED
02	REMOVE EXISTING CURTAIN WALL ASSEMBLY
03	REMOVE EXISTING INTERIOR METAL STUD PARTITION WALL ASSEMBLY
04	REMOVE EXISTING INTERIOR CMU WALL ASSEMBLY
05	REMOVE EXISTING ROOF AND ALL ACCESSORIES TO EXIST. CONC. DECK
06	REMOVE PORTION OF EXIST. WALL FOR NEW OPENING
07	REMOVE STOREFRONT ASSEMBLY
08	REMOVE EXIST LOUVER ASSEMBLY
09	REMOVE EXIST FOUNDATION IN ITS ENTIRETY
11	REMOVE EXISTING COOLING TOWER & RELATED CONSTRUCTION
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13	REMOVE EXISTING CHAINLINK INFILL
14	REMOVE EXISTING CONCRETE COLUMN BACK TO CONCRETE ROOF DECK
15	REMOVE EXISTING WINDOW UNIT
16	REMOVE ALL EXISTING PLUMBING FIXTURES & RELATED PIPING
17	REMOVE ALL EXISTING FLOOR FINISHES DOWN TO EXISTING SLAB

1 BASEMENT DEMOLITION PLAN
D1.0 1/8" = 1'-0"

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RENOVATIONS FOR:

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All Heart
BRISTOL, CT
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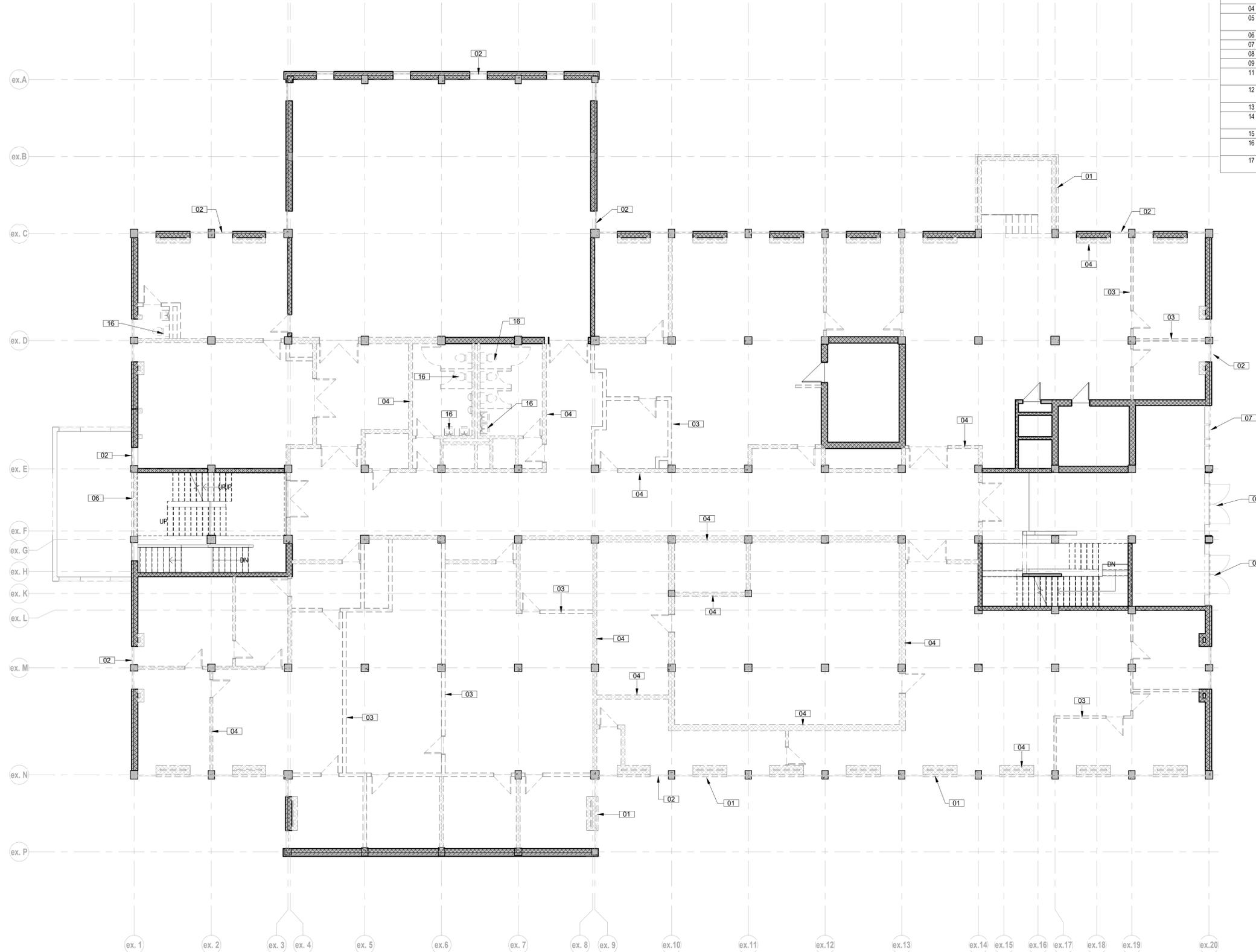
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Scale: As Noted

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D1.0
DEMOLITION
BASEMENT
PLAN



DEMOLITION KEYNOTE LEGEND	
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1 FIRST FLOOR DEMOLITION PLAN
D1.1 1/8" = 1'-0"

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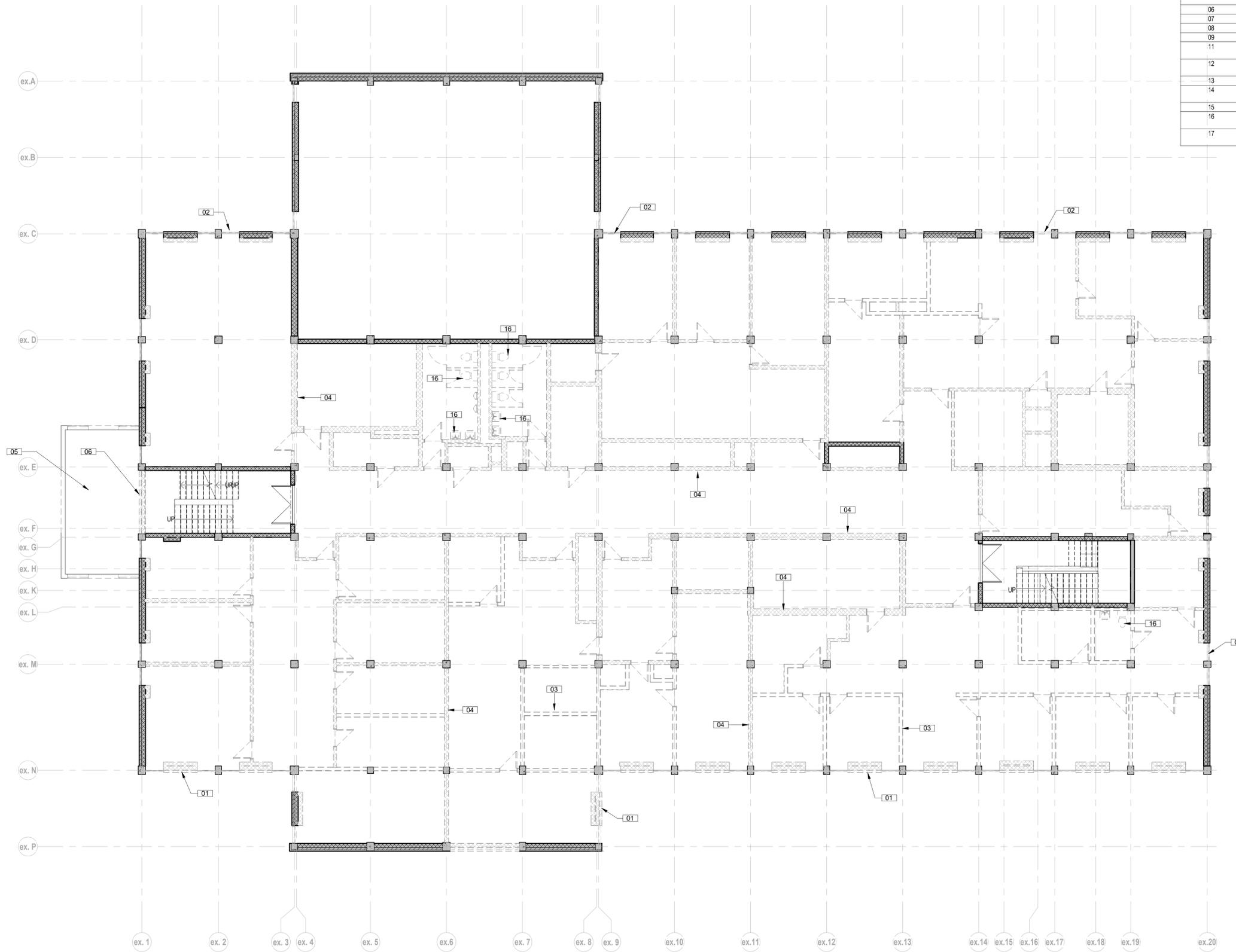
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D1.1
DEMOLITION
FIRST FLOOR
PLAN

DEMOLITION KEYNOTE LEGEND	
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1 SECOND FLOOR DEMOLITION PLAN
 D1.2 1/8" = 1'-0"

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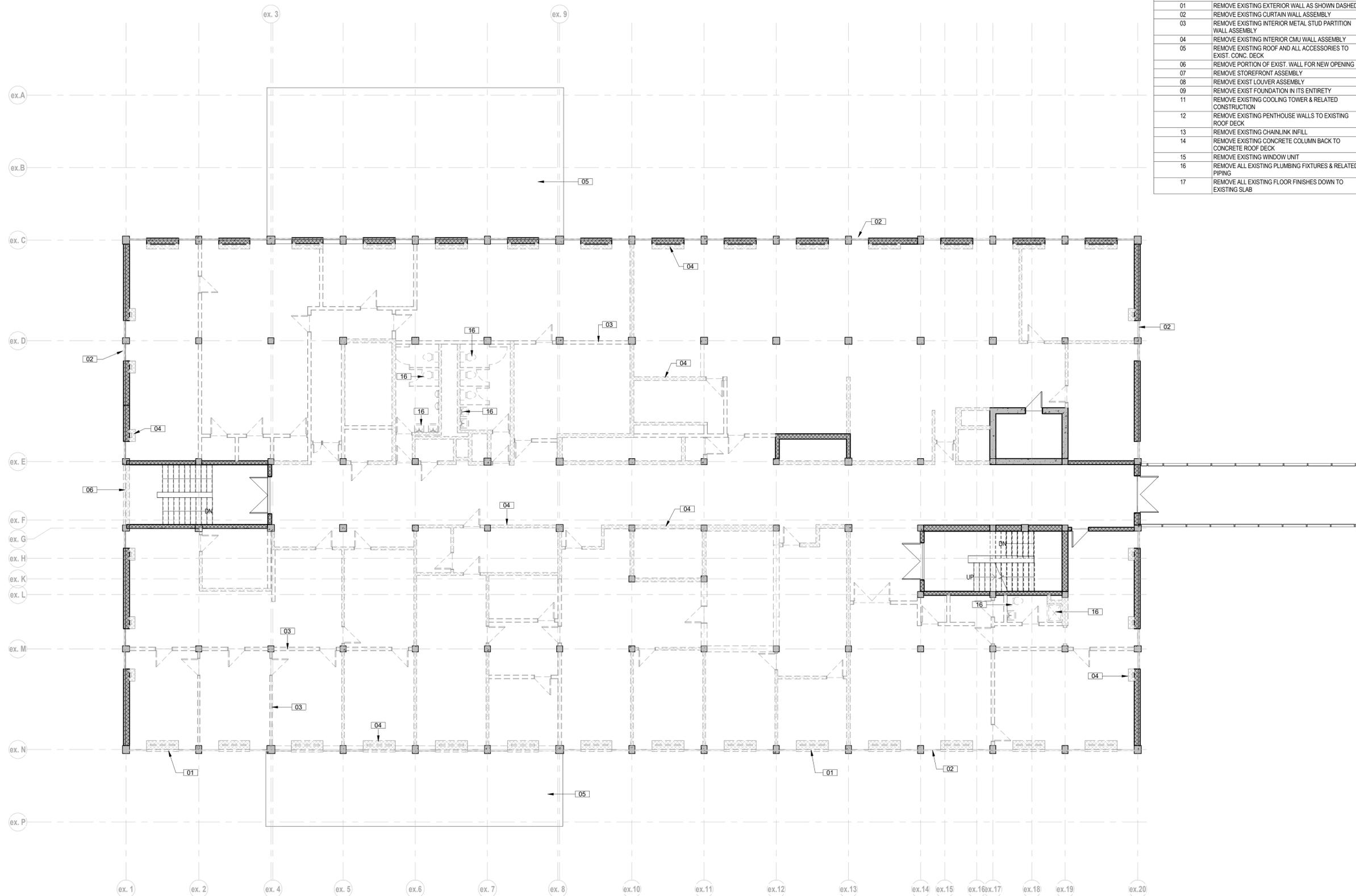
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D1.2
 DEMOLITION
 SECOND
 FLOOR PLAN



DEMOLITION KEYNOTE LEGEND	
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1 THIRD FLOOR DEMOLITION PLAN
 D1.3 1/8" = 1'-0"

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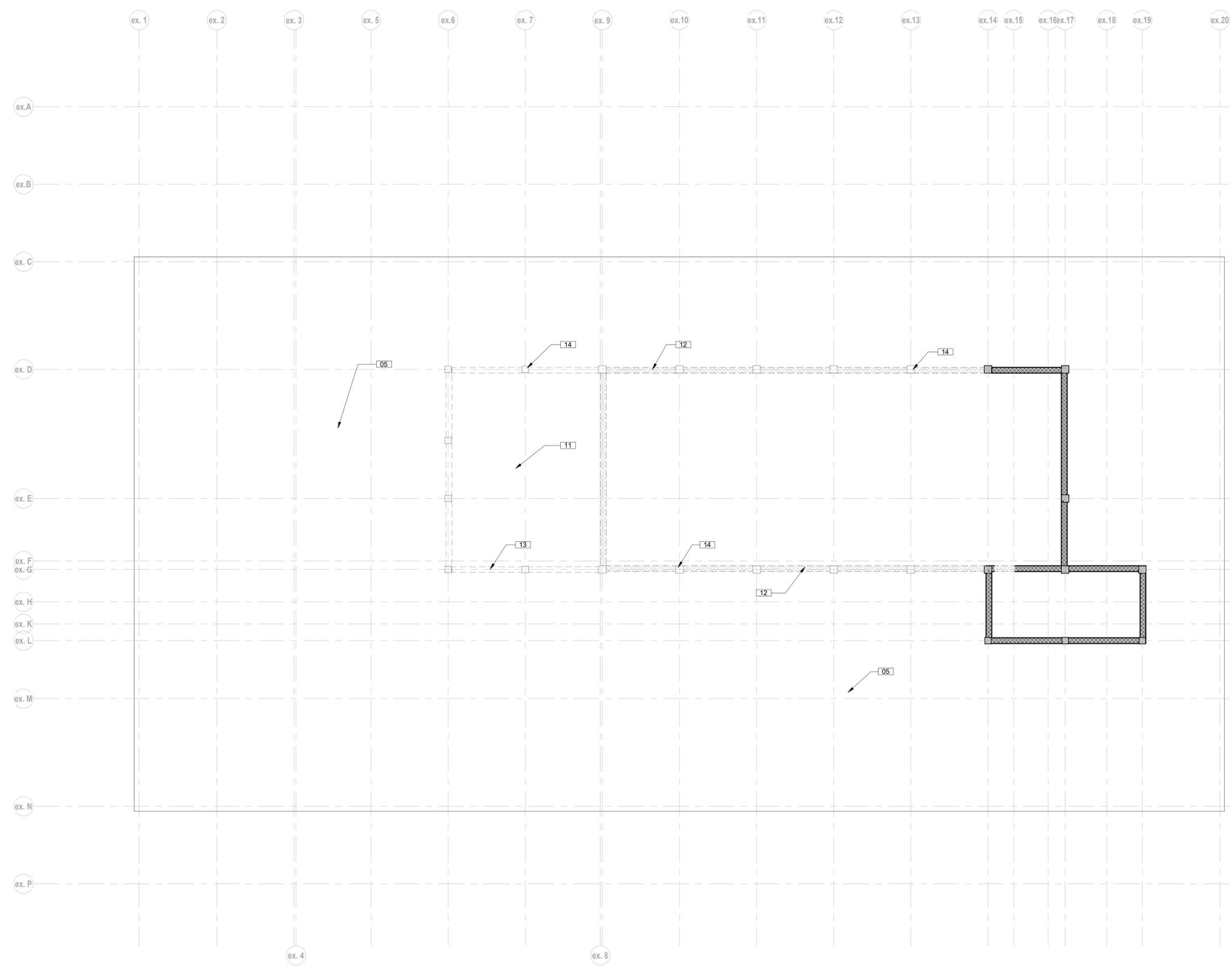
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D1.3
 DEMOLITION
 THIRD FLOOR
 PLAN

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1 ROOF AND PENTHOUSE DEMOLITION PLAN
 D1.4 1/8" = 1'-0"

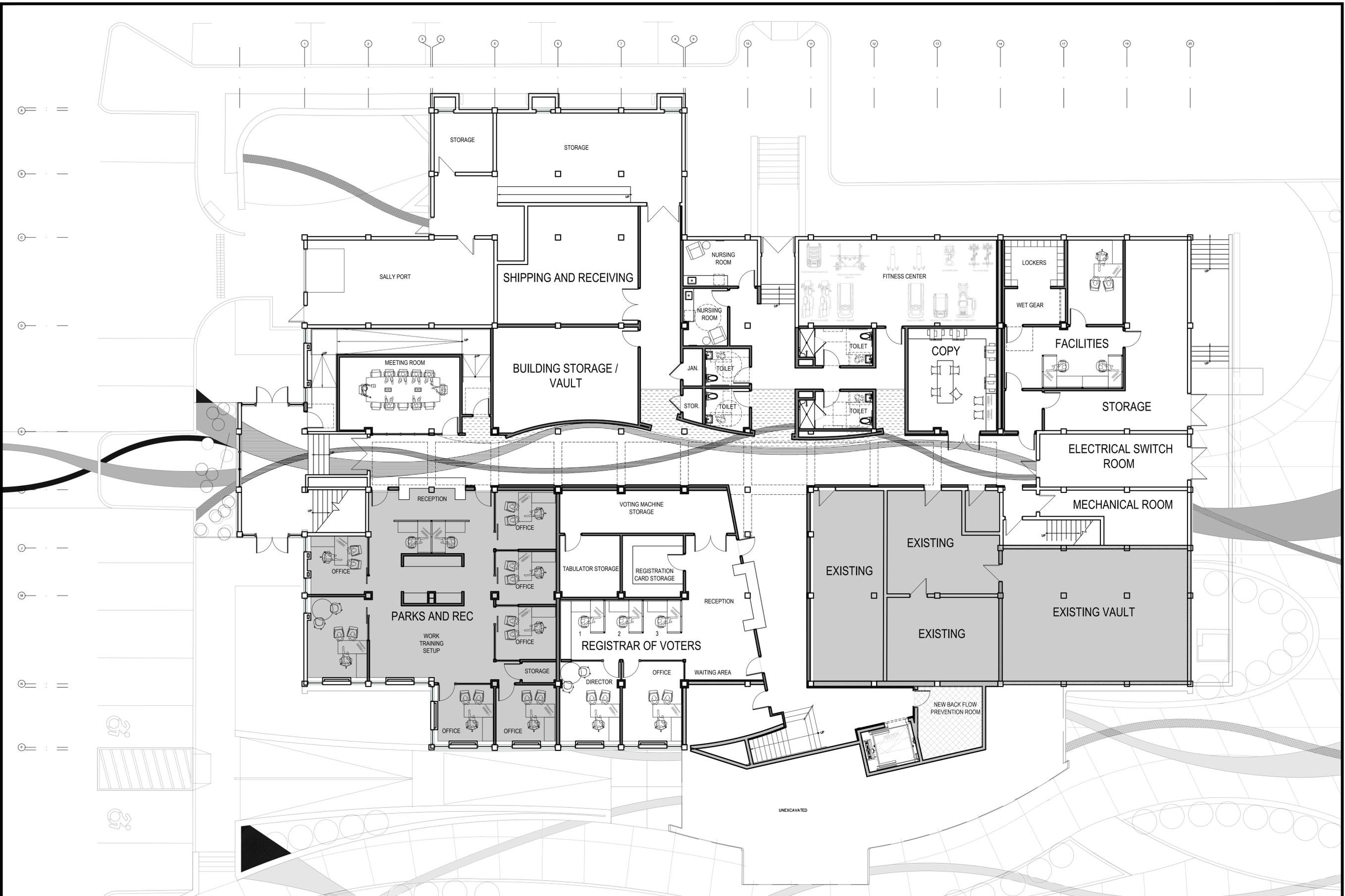
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D1.4
 DEMOLITION
 PENTHOUSE &
 ROOF PLAN



1 GROUND LEVEL FLOOR PLAN GROSS SQFT (17,205)
SCALE: 1/8"=1'-0"



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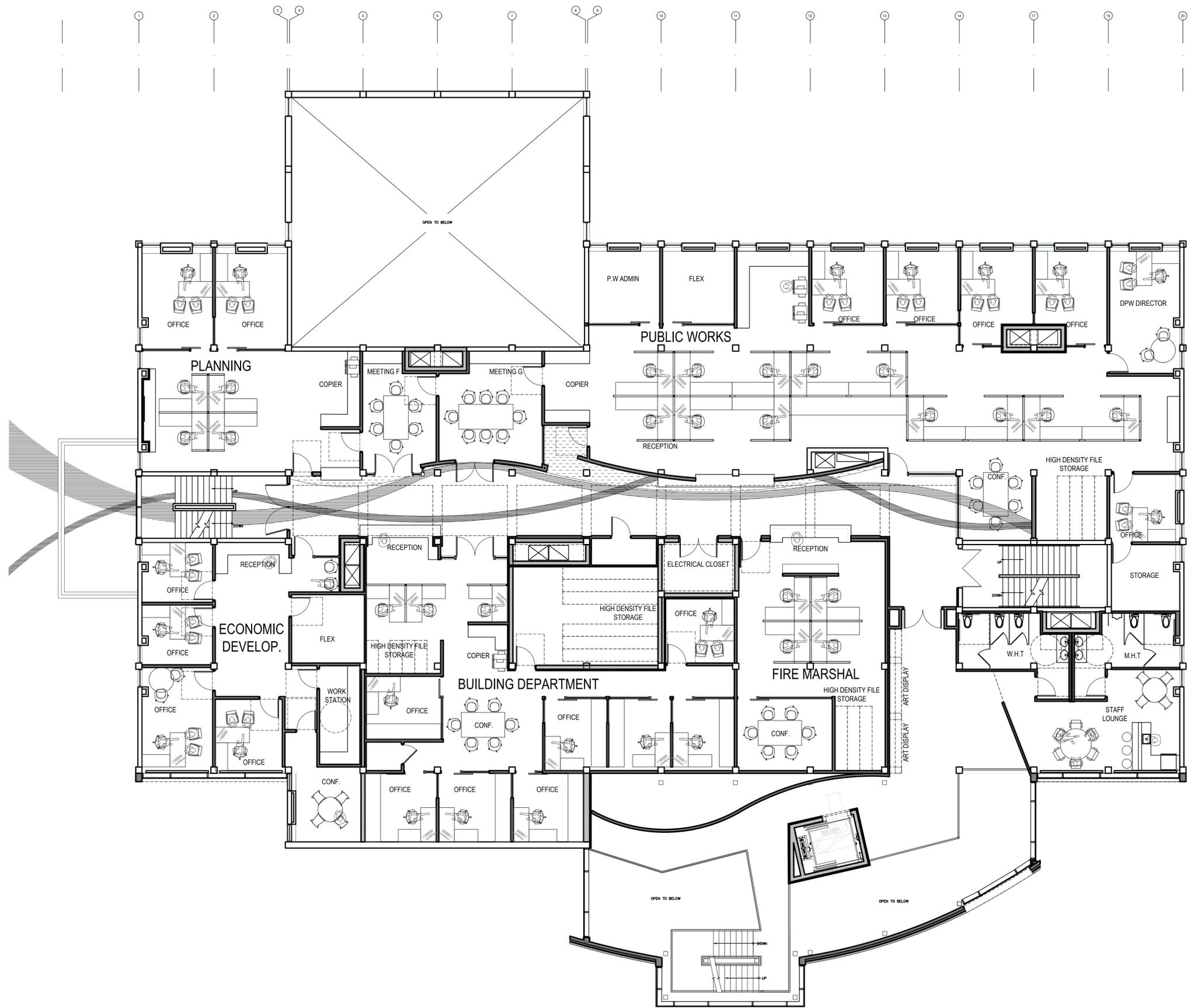
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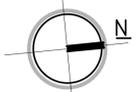
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A1.00
Ground Level
Floor Plan



1 SECOND LEVEL FLOOR PLAN GROSS SQ FT (16,390)
SCALE: 1/8"=1'-0"



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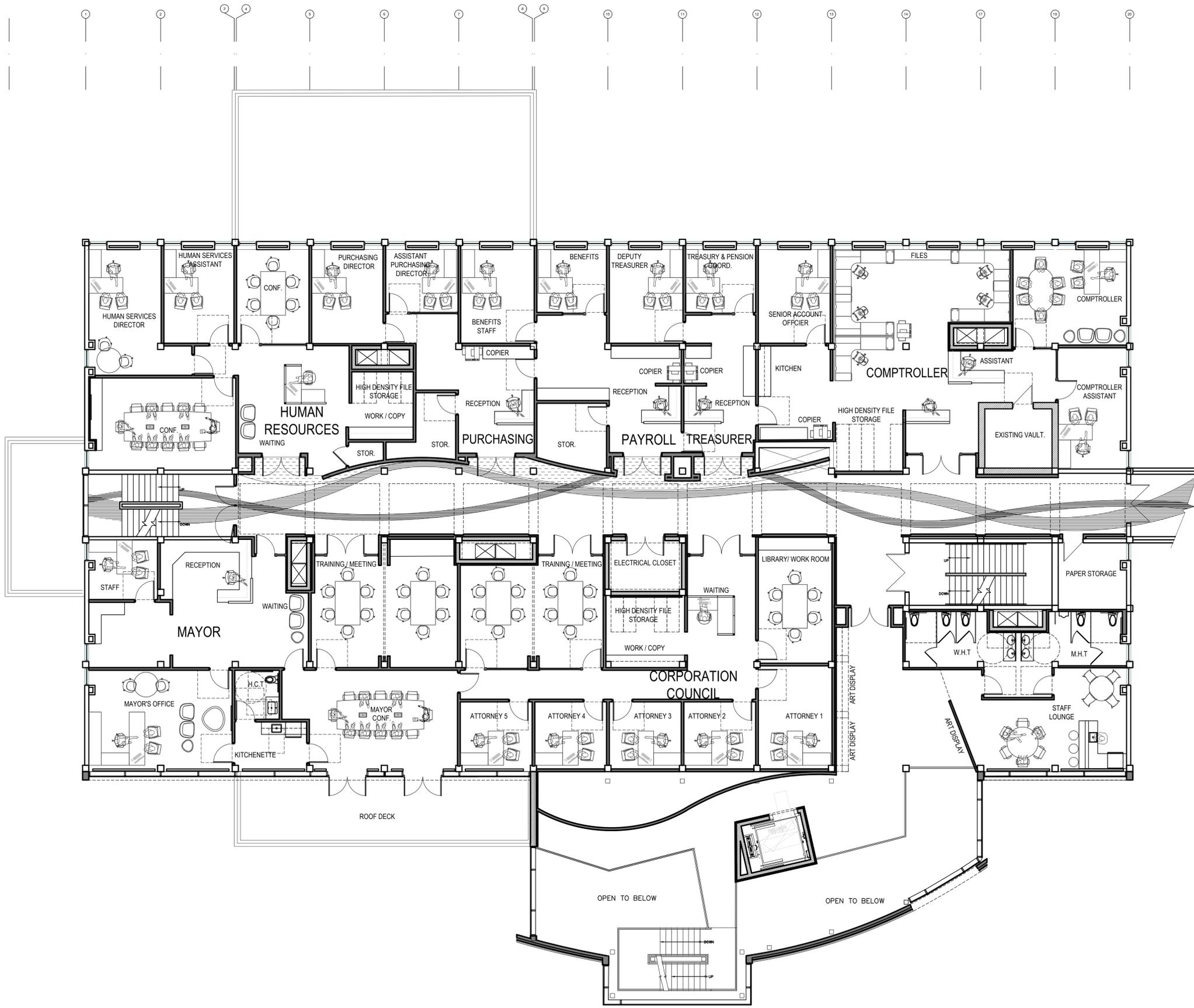
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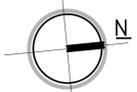
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A1.02
Second Level
Floor Plan



1 THIRD LEVEL FLOOR PLAN GROSS SQFT (16,637)
SCALE: 1/8"=1'-0"



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A1.03
Third Level
Floor Plan



REFLECTED CEILING PLAN LEGEND	
	SPRINKLER
	4\"/>
	2x2 LIGHT
	RECESSED LED LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	GYP BD ON METAL STUD CEILING
	2x2 ACOUSTICAL TILE CEILING
	LINEAR WOOD CEILING
	EXIT SIGN
	DUAL LAMP LED EMERGENCY LIGHT
	CEILING HEIGHT

1
A2.0
GROUND LEVEL - OVERALL RCP
1/8" = 1'-0"

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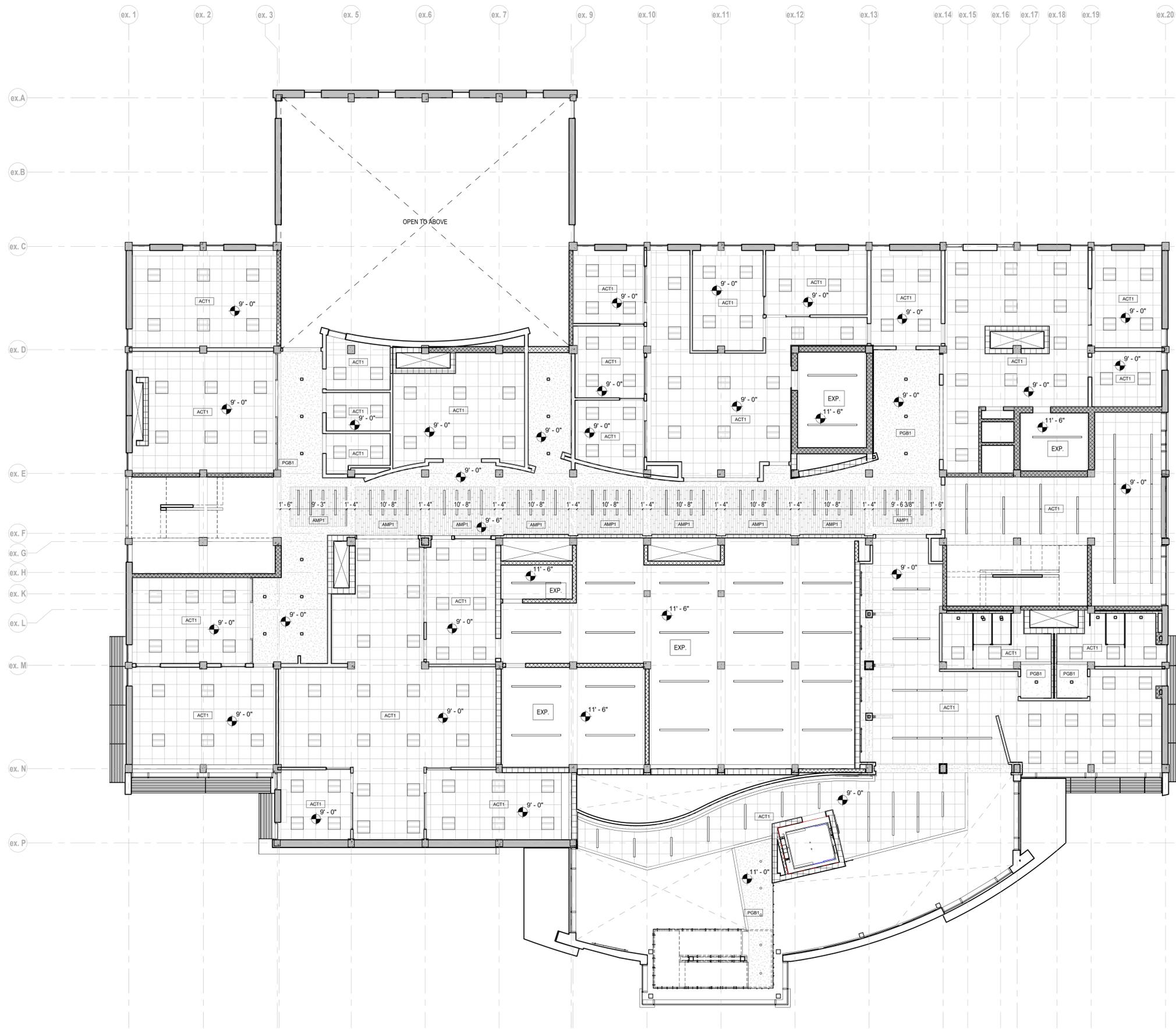
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A2.0
GROUND LEVEL - OVERALL RCP



REFLECTED CEILING PLAN LEGEND	
	SPRINKLER
	2x2 LIGHT
	RECESSED LED LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	GYP BD ON METAL STUD CEILING
	2x2 ACOUSTICAL TILE CEILING
	LINEAR WOOD CEILING
	EXIT SIGN
	DUAL LAMP LED EMERGENCY LIGHT
	CEILING HEIGHT

LEVEL 1 - OVERALL REFLECTED CEILING PLAN
 1
 A2.1 1/8" = 1'-0"

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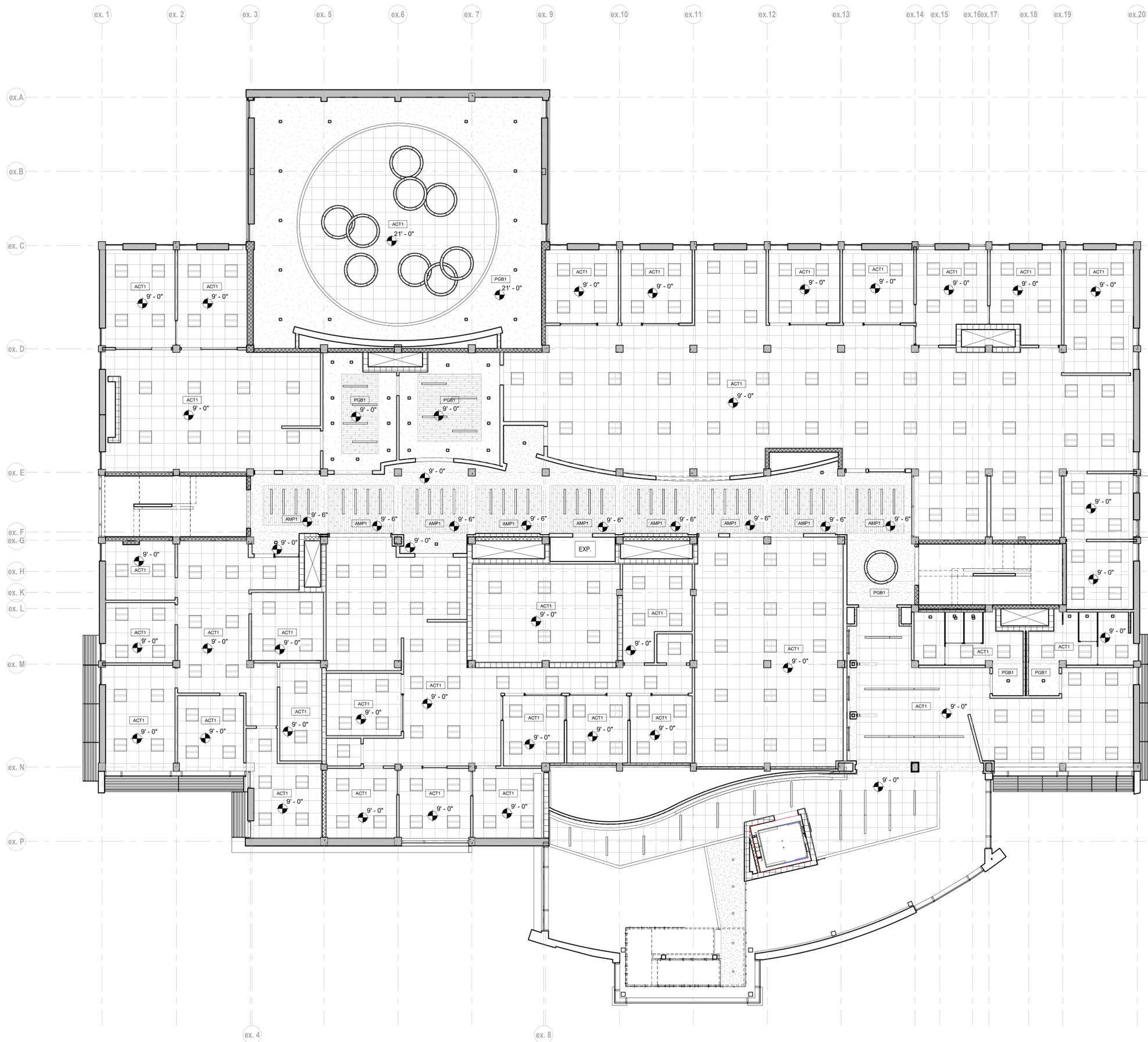
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A2.1
 OVERALL LEVEL 1 RCP



REFLECTED CEILING PLAN LEGEND	
	SPRINKLER
	4\" SQUARE CAN DOWNLIGHT
	2x2 LIGHT
	RECESSED LED LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	GYP BD ON METAL STUD CEILING
	2x2 ACOUSTICAL TILE CEILING
	LINEAR WOOD CEILING
	EXIT SIGN
	DUAL LAMP LED EMERGENCY LIGHT
	CEILING HEIGHT

1 LEVEL 2 Copy 1
A2.2 1/8" = 1'-0"

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BRISTOL, CT

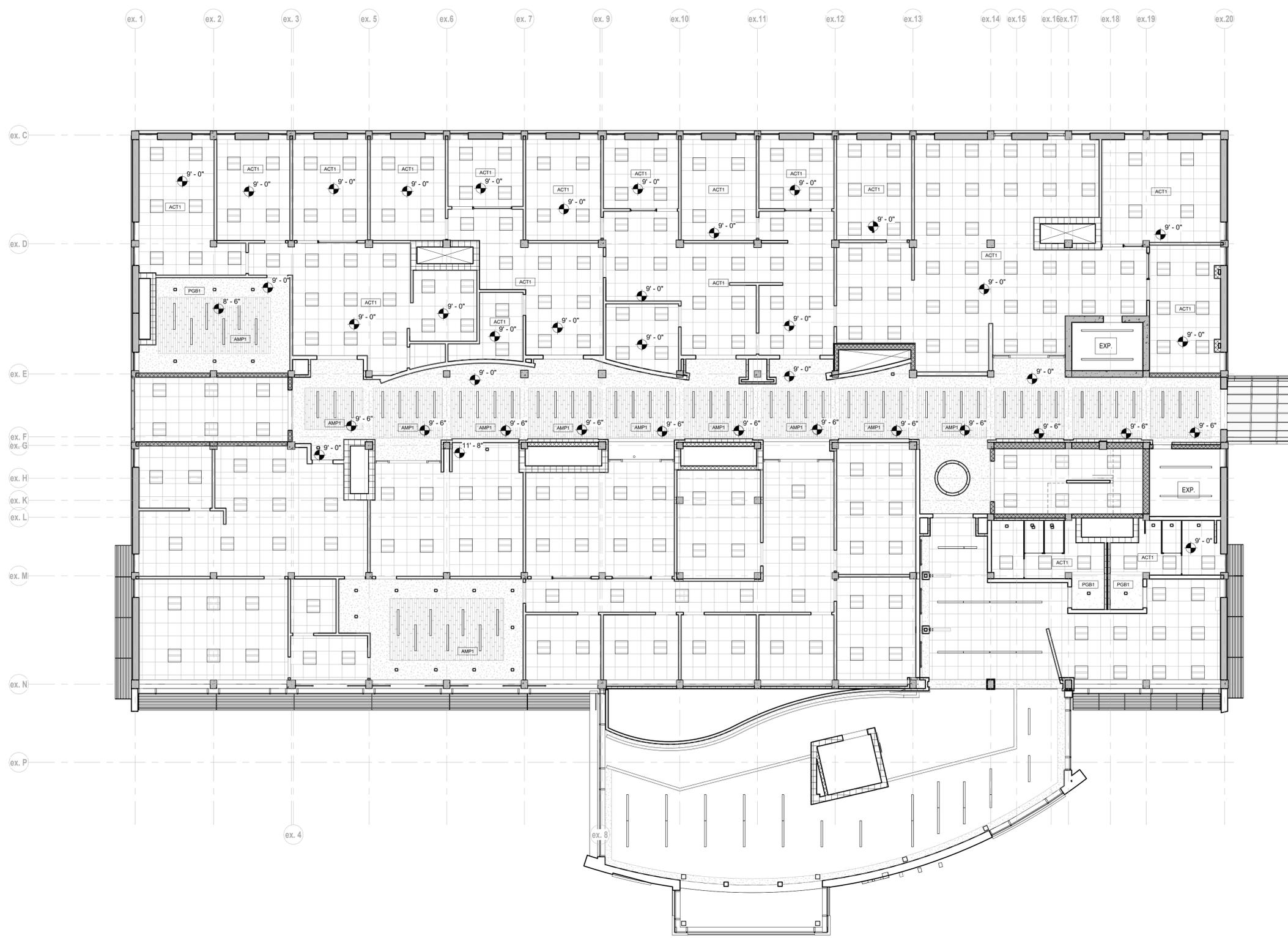
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A2.2
OVERALL
LEVEL 2 RCP



REFLECTED CEILING PLAN LEGEND	
	SPRINKLER
	4" SQUARE CAN DOWNLIGHT
	2x2 LIGHT
	RECESSED LED LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	GYP BD ON METAL STUD CEILING
	2x2 ACOUSTICAL TILE CEILING
	LINEAR WOOD CEILING
	EXIT SIGN
	DUAL LAMP LED EMERGENCY LIGHT
	CEILING HEIGHT

1 LEVEL 3 - OVERALL REFLECTED CEILING PLAN
 A2.3 1/8" = 1'-0"

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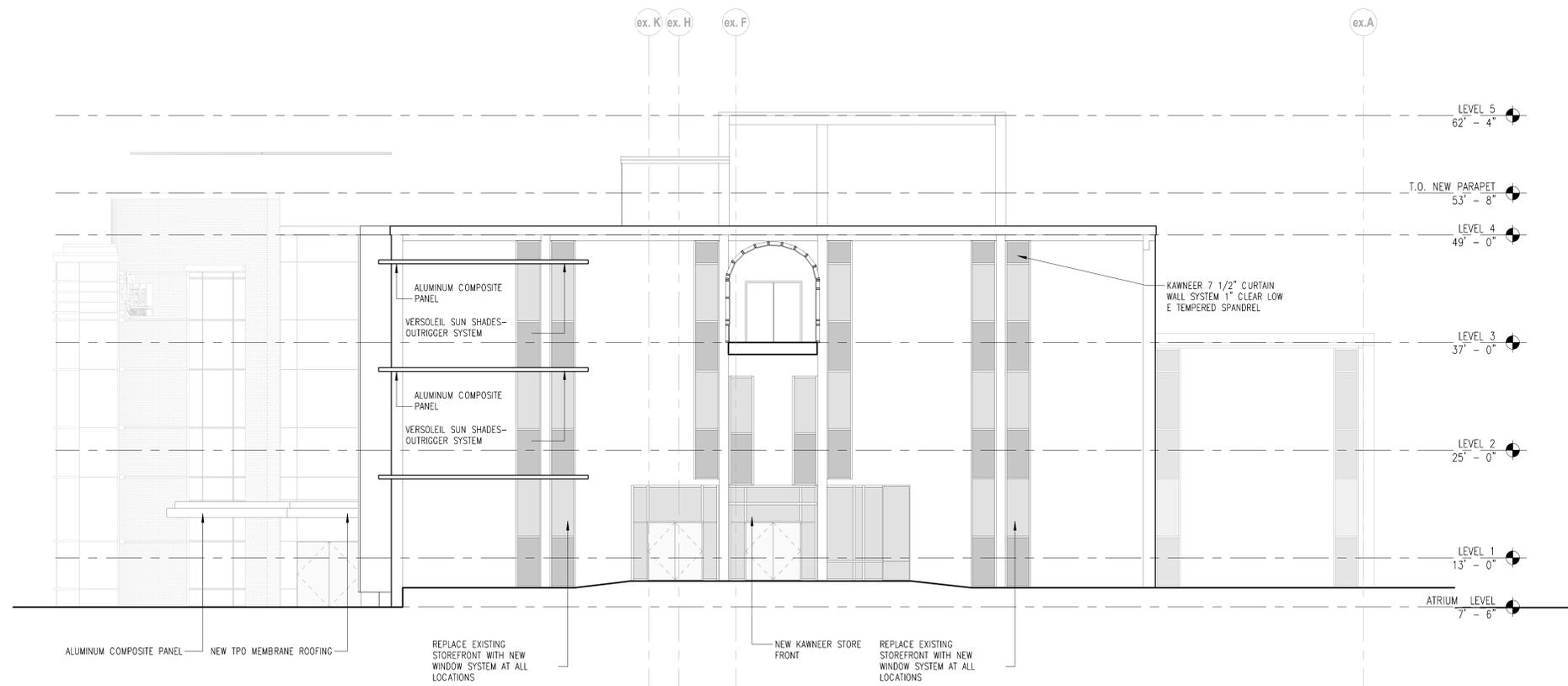
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Issuances:

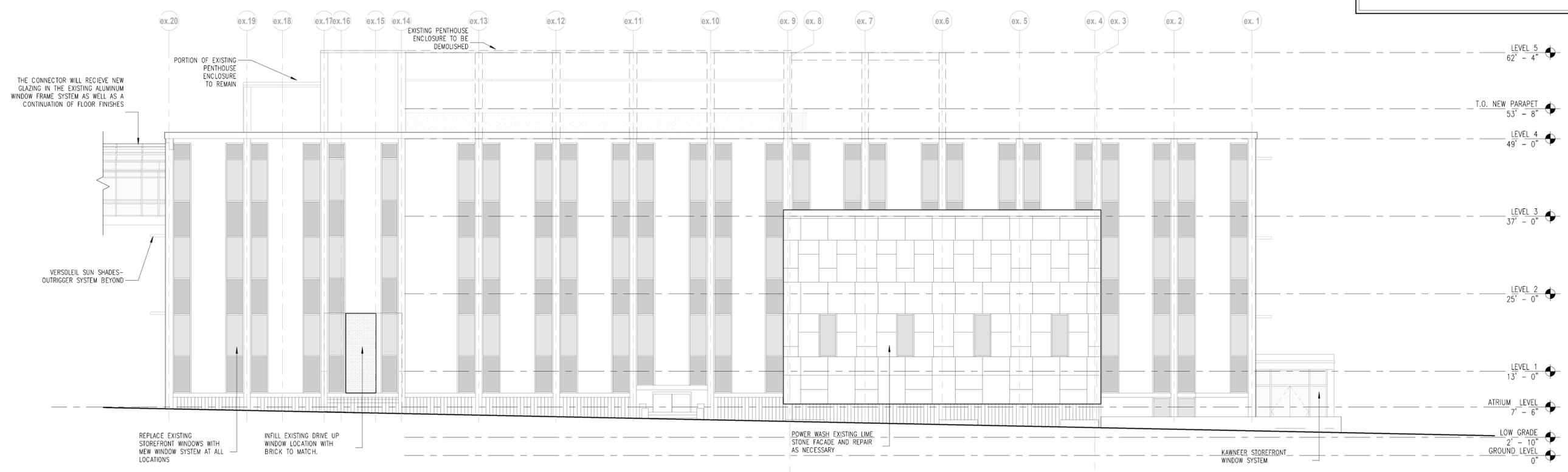
Date: JUNE 4th, 2021
 Scale: As Noted
 Project No. 2K21.004
 Drawn by: Author

A2.3
 OVERALL
 LEVEL 3 RCP



2 NORTH ELEVATION
A3.01 1/8" = 1'-0"

PRODUCT	ID NUM	
CURTAIN WALL:		
<ul style="list-style-type: none"> KAWNEER 7 1/2" CURTAIN WALL SYSTEM T.B.D COLOR: T.B.D 		
STORE FRONT:		
<ul style="list-style-type: none"> KAWNEER TRIFAB 801UT FRAMING SYSTEM T.B.D COLOR: T.B.D 		
FACE BRICK 1:		
<ul style="list-style-type: none"> GLEN- GARY MORTAR: T.B.D COLOR: T.B.D BONDING: RUNNING 	BR-1	
FACE BRICK 2:		
<ul style="list-style-type: none"> GLEN- GARY MORTAR: T.B.D COLOR: T.B.D BONDING: RUNNING 	BR-2	
ALUMINUM COPING:		
<ul style="list-style-type: none"> PAC-CLAD ALUMINUM CONTINUOUS CLEAT COPING COLOR: T.B.D 	AC-1	
CAST STONE:		
<ul style="list-style-type: none"> GLEN- GARY MORTAR: T.B.D COLOR: T.B.D BONDING: RUNNING 	CS-1	
ROOFING PRODUCTS:		
<ul style="list-style-type: none"> JOHNSON MANSVILLE ROOFING SYSTEM 60 MIL FULLY-ADHERED EPDM COLOR: T.B.D FOR MORE INFORMATION REFERENCE ROOF PLAN 		
ALUMINUM COMPOSITE PANELS:		
<ul style="list-style-type: none"> T.B.D T.B.D T.B.D 		
GENERAL EVALUATION NOTES:		
<ol style="list-style-type: none"> REMOVE EXISTING MECHANICAL PENTHOUSE AND ASSOCIATED MECHANICAL EQUIPMENT AS SHOWN IN THE DEMOLITION PLAN PATCH AND PREPARE FOR NEW ROOFING REMOVE EXISTING SIGNAGE, BRACKET AND ASSOCIATED COMPONENTS. PATCH AND MATCH EXISTING LIME STONE REMOVE EXISTING STORE FRONT WINDOW ASSEMBLY AND PREPARE FOR NEW WINDOW ASSEMBLY POWER WASH ANY EXPOSED EXISTING LIME STONE AND CONCRETE REPOINT AND REPAIR EXISTING BRICK AS NECESSARY 	X	
<p>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.</p>		



1 WEST ELEVATION
A3.01 1/8" = 1'-0"

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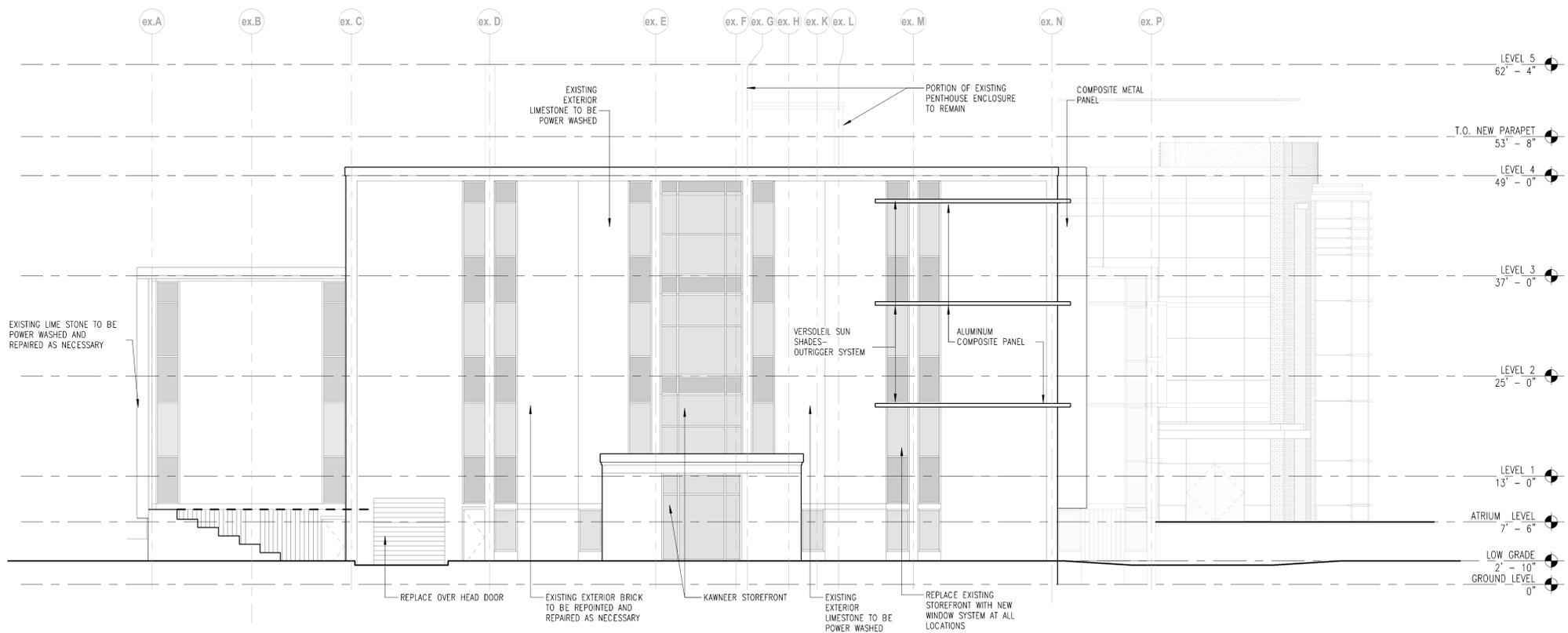
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A3.01
EXTERIOR
ELEVATIONS

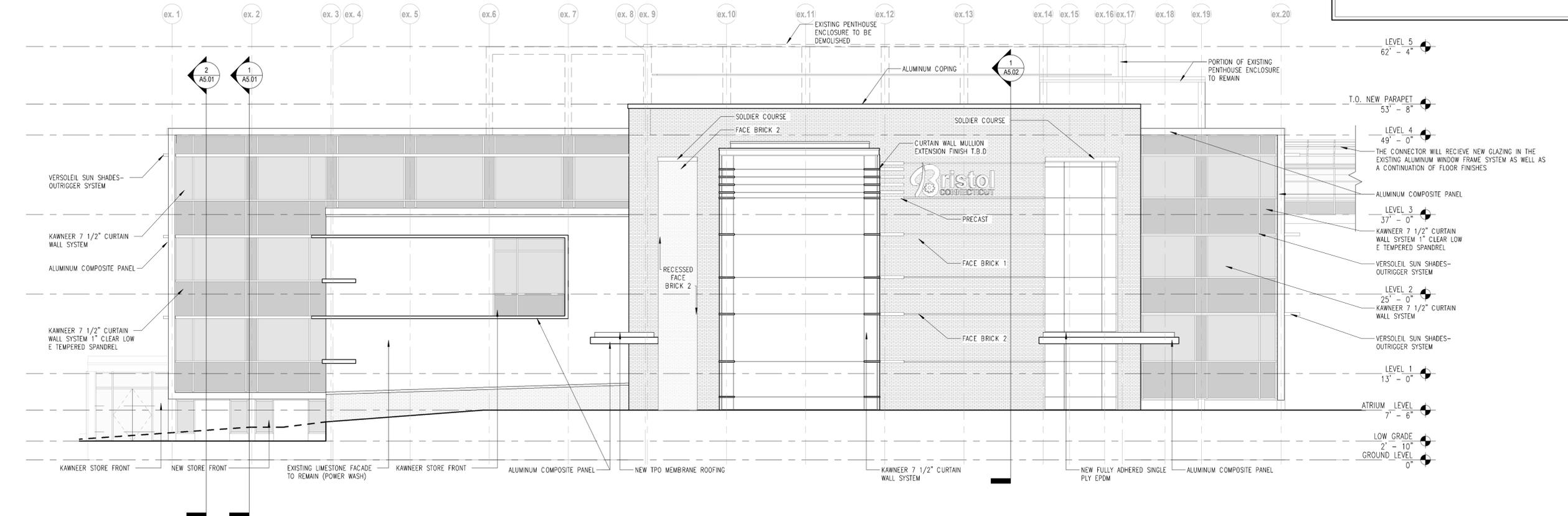


EXTERIOR PRODUCTS	
PRODUCT	ID NUMBER
CURTAIN WALL:	
• KAWNEER 7 1/2" CURTAIN WALL SYSTEM	
• T.B.D	
• COLOR: T.B.D	
STORE FRONT:	
• KAWNEER TRIFAB 801UT FRAMING SYSTEM	
• T.B.D	
• COLOR: T.B.D	
FACE BRICK 1:	BR-1
• GLEN-GARY	
• MORTAR: T.B.D	
• COLOR: T.B.D	
• BONDING: RUNNING	
FACE BRICK 2:	BR-2
• GLEN-GARY	
• MORTAR: T.B.D	
• COLOR: T.B.D	
• BONDING: RUNNING	
ALUMINUM COPING:	AC-1
• PAC-CLAD ALUMINUM	
• CONTINUOUS CLEAT COPING	
• COLOR: T.B.D	
CAST STONE:	CS-1
• GLEN-GARY	
• MORTAR: T.B.D	
• COLOR: T.B.D	
• BONDING: RUNNING	
ROOFING PRODUCTS:	
• JOHNSON MANSVILLE ROOFING SYSTEM	
• 60 MIL FULLY-ADHERED EPDM	
• COLOR: T.B.D	
FOR MORE INFORMATION REFERENCE ROOF PLAN	
ALUMINUM COMPOSITE PANELS:	
• T.B.D	
• T.B.D	
• T.B.D	

GENERAL EVALUATION NOTES:	
1	REMOVE EXISTING MECHANICAL PENTHOUSE AND ASSOCIATED MECHANICAL EQUIPMENT AS SHOWN IN THE DEMOLITION PLAN PATCH AND PREPARE FOR NEW ROOFING
2	REMOVE EXISTING SIGNAGE, BRACKET AND ASSOCIATED COMPONENTS. PATCH AND MATCH EXISTING LIMESTONE
3	REMOVE EXISTING STORE FRONT WINDOW ASSEMBLY AND PREPARE FOR NEW WINDOW ASSEMBLY
4	POWER WASH ANY EXPOSED EXISTING LIMESTONE AND CONCRETE
5	REPOINT AND REPAIR EXISTING BRICK AS NECESSARY

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.

1 SOUTH ELEVATION
A3.02/ 1/8" = 1'-0"



2 EAST ELEVATION
A3.02/ 1/8" = 1'-0"

WALL SCONCE

RECESSED
DOWNLIGHT CANNED
LIGHTING

2X2 SUSPENDED
CEILING GRID

CENTRIA METAL CLAD
CANOPIES

LINEAR LIGHTS

GYPWALL
SOFFIT

HORIZONTAL WOOD PLANK
FINISH

KAWNEER 7 1/2
CURTAIN WALL
SYSTEM

C.R. LAWRENCE
HANDRAIL AND
GLASS GUARD
SYSTEM

ARTWORK
DISPLAY/CASEWORK

P3

P2

FRY REGLET
ARCHITECTURAL REVEAL

NEW STRUCTURE
TDB

PAINTED GYPSUM
BOARD WITH WALL
COVERING

PORCELAIN TILE (1)

RUBBER BASE

PORCELAIN TILE (2)



1 VIEW OF ATRIUM

FRY REGLET
ARCHITECTURAL REVEAL

PAINTED REVEAL

KAWNEER 7 1/2
CURTAIN WALL
SYSTEM

WALL SCONCE

HORIZONTAL WOOD
PLANK FINISH

NEW STRUCTURE
TBD

ARTWORK
DISPLAY/CASEWORK

PAINTED GYPSUM
BOARD WITH
WALL COVERING

RUBBER BASE

PORCELAIN TILE (1)

PORCELAIN TILE (2)



LINEAR LIGHTS

2X2 SUSPENDED
CEILING GRID

PAINT 3

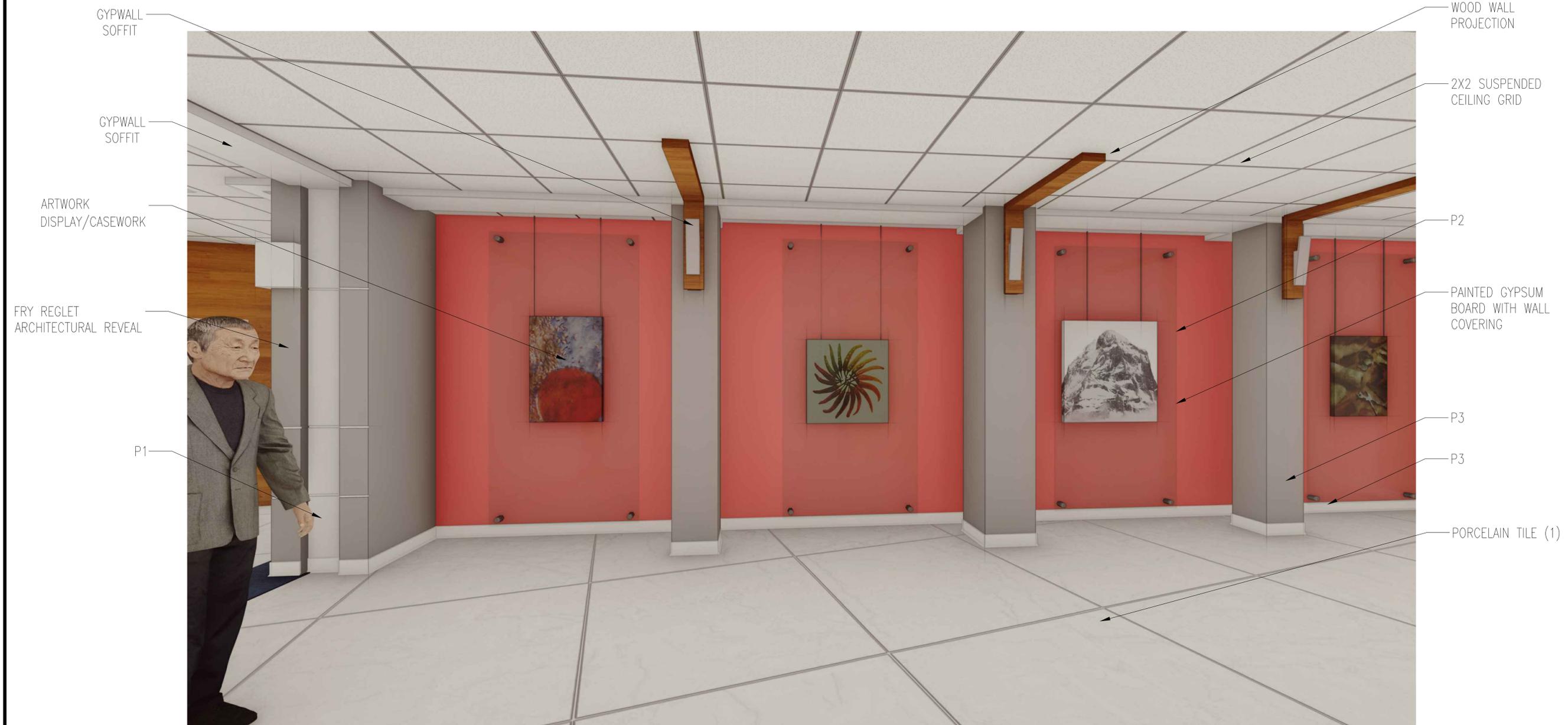
WALL SCONCE

PAINT 2

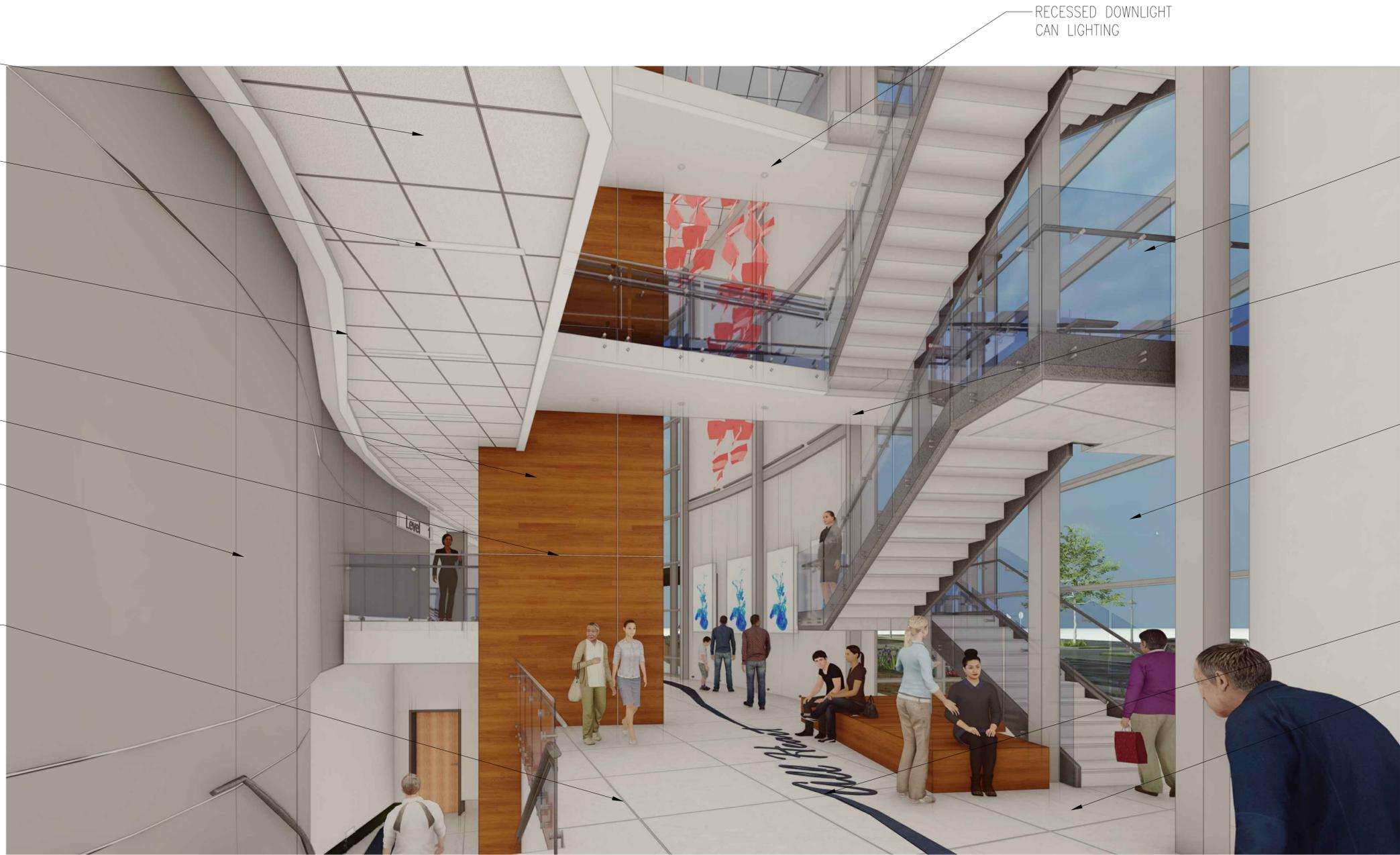
C.R. LAWRENCE
HANDRAIL AND
GLASS GUARD
SYSTEM

PAINT 1

1 VIEW OF ATRIUM



1 VIEW OF ATRIUM



2X2 SUSPENDED
 CEILING GRID

LINEAR LIGHTS

COVE LIGHTING

HORIZONTAL WOOD
 PLANK FINISH

REVEAL

FRY REGLET
 ARCHITECTURAL REVEAL

PORCELAIN TILE (1)

RECESSED DOWNLIGHT
 CAN LIGHTING

C.R. LAWRENCE
 HANDRAIL AND
 GLASS GUARD
 SYSTEM

RECESSED DOWNLIGHT
 CAN LIGHTING

KAWNEER 7 1/2
 CURTAIN WALL
 SYSTEM

PORCELAIN TILE (2)

PORCELAIN TILE (1)

1 VIEW OF ATRIUM

PAINTED REVEAL

RECESSED DOWNLIGHT
CAN LIGHTING

HORIZONTAL WOOD
PLANK FINISH

PAINTED REVEAL

PORCELAIN TILE (1)



WOOD GAIRD
RAILINGS

GYPWALL

FRY REGLET
ARCHITECTURAL REVEAL

KAWNEER 7 1/2
CURTAIN WALL
SYSTEM

WALL SCONCE

PORCELAIN TILE (2)

C.R. LAWRENCE
HANDRAIL AND
GLASS GUARD
SYSTEM

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All About

111 NORTH MAIN ST
BRISTOL, CT

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1 VIEW OF ATRIUM



1 VIEW OF CITY COUNCIL CHAMBERS

PAINED PANEL

CURVING WALL W/
ACOUSTIC PANEL

FRY REGLET
ARCHITECTURAL
REVEAL

SOUND ABSORPTIVE
PANELS

NEW SEATING

ARMSTRONG PLANKS
SUSPENDED CEILING

NEW LIGHTS

RECESSED AV
SCREENS (1)
IN
THE VIEW

PAINED PANEL

NEW LIGHT RAIL

WALL SCONCE

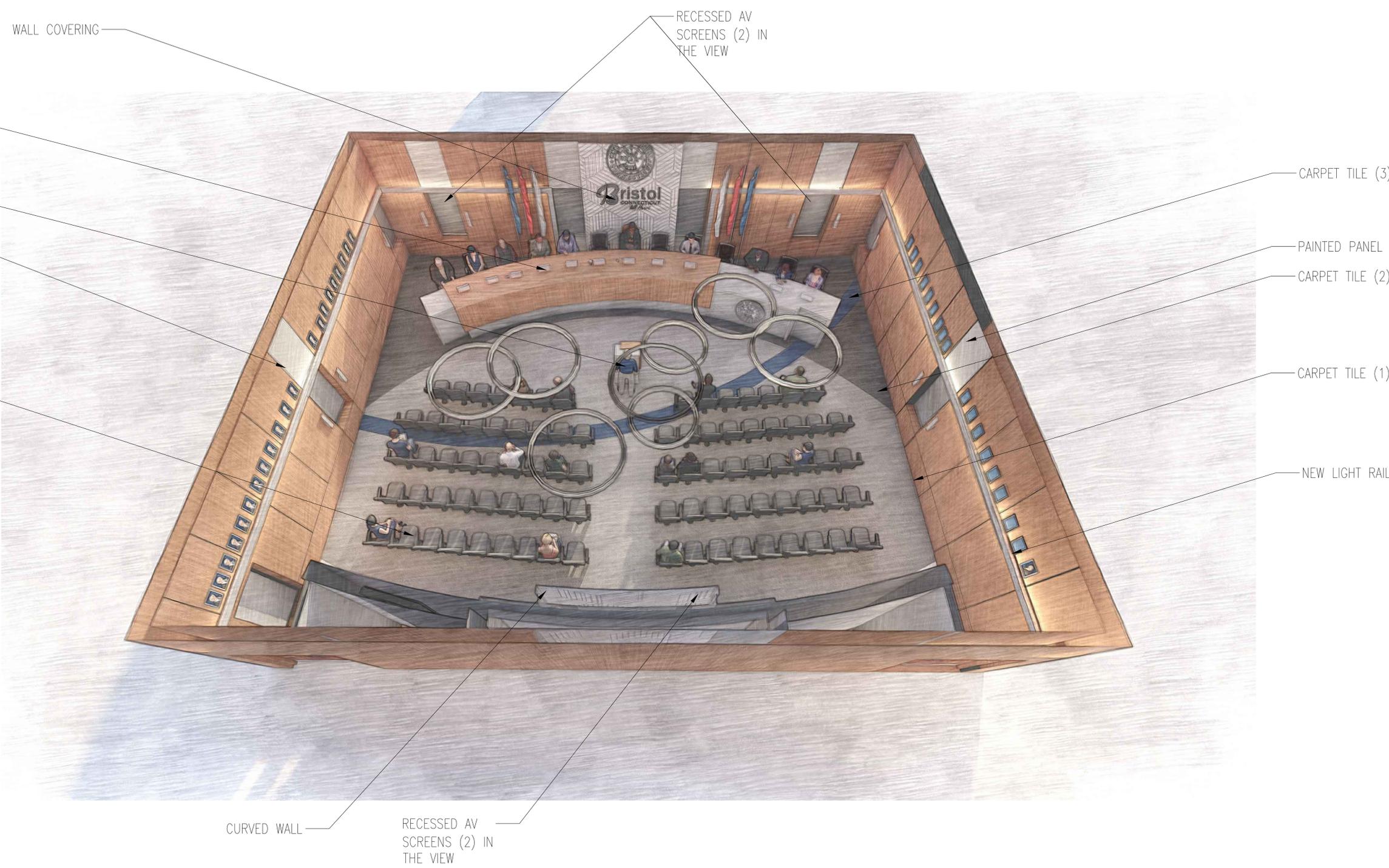
CARPET (2)

CARPET (1)

CARPET (3)



1 VIEW OF CITY COUNCIL CHAMBERS



1 VIEW OF CITY COUNCIL CHAMBERS



NEW TPO MEMBRANE ROOFING

KAWNEER STOREFRONT

KAWNEER 7 1/2 CURTAIN WALL SYSTEM

ALUMINUM COPING

KAWNEER SOLAR SHADES

ALUMINUM COMPOSITE PANEL

KAWNEER 7 1/2 CURTAIN WALL SYSTEM

4 STORY ALTERNATING BRICK STYLE

KAWNEER 7 1/2 CURTAIN WALL SYSTEM

CENTRIA METAL CLAD CANOPIES

CENTRIA METAL CLAD CANOPIES

NEW FLAG POLE

1 VIEW OF EXTERIOR

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111 NORTH MAIN ST
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A3.29
 AXONOMETRIC VIEWS



CENTRIA METAL CLAD CANOPIES

KAWNEER STOREFRONT

KAWNEER SOLAR SHADES

ALUMINUM COPING

POWERWASHING EXISTING
 LIMESTONE AND BRICK

4 STORY ALTERNATING
 BRICK STYLE

NEW
 MECHANICAL/ROOFING

KAWNEER 7 1/2
 CURTAIN WALL
 SYSTEM

NEW PAINT

NEW VCT TO BE
 INSTALLED

NEW FLAG POLE

NEW OVERHEAD DOORS

EXTERIOR POWERWASHED

1 VIEW OF EXTERIOR

Issues:

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NEW EDP ROOFING

4 STORY ALTERNATING BRICK STYLE

CENTRIA METAL CLAD CANOPIES



1 VIEW OF EXTERIOR

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111 NORTH MAIN ST

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A3.31
 AXONOMETRIC VIEWS

NEW EDP ROOFING

NEW TPO MEMBRANE ROOFING

KAWNEER 7 1/2 CURTAIN WALL SYSTEM



4 STORY ALTERNATING BRICK STYLE

KAWNEER 7 1/2 CURTAIN WALL SYSTEM

KAWNEER SOLAR SHADES

NEW FLAG POLE

CENTRIA METAL CLAD CANOPIES

1 VIEW OF EXTERIOR

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INTERIOR RENOVATIONS FOR:

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All Hearts

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 BRISTOL, CT

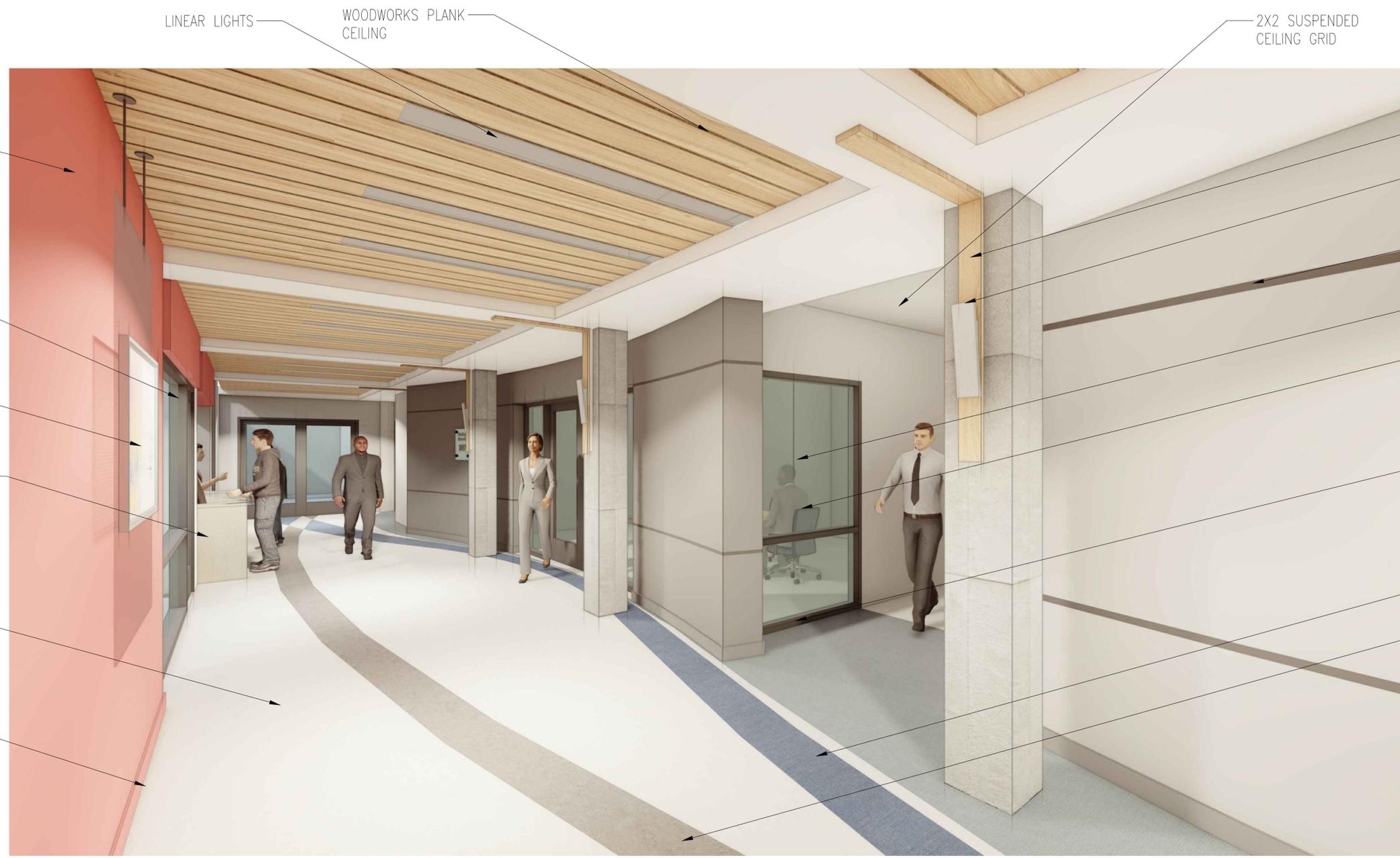
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A3.32
 AXONOMETRIC VIEWS



PAINTED (1) WITH 2 LAYERS OF DRYWALL

NXT WALL OR FAULKBUILT

ARTWORK DISPLAY/CASEWORK

PLASTIC LAMINATED MILLWORK W/ SOLID SURFACE COUNTERS

PORCELAIN TILE (1)

RUBBER BASE

LINEAR LIGHTS

WOODWORKS PLANK CEILING

2X2 SUSPENDED CEILING GRID

WOOD SOFFIT

GYPWALL SOFFIT

FRY REGLET ARCHITECTURAL REVEAL

GLAZING

NEW FURNITURE

NXT WALL OR FAULKBUILT

PORCELAIN TILE (3)

PORCELAIN TILE (2)

1 VIEW OF CORRIDOR

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A3.34
 AXONOMETRIC VIEWS



LINEAR LIGHTS

WOODWORKS PLANK CEILING

WOOD SOFFIT

GYPWALL SOFFIT

FRY REGLET ARCHITECTURAL REVEAL

PAINTED (2) CURVED WALL

PORCELAIN TILE(3)

PORCELAIN TILE(1)

OVERHEAD ROLLING SHUTTERS

NXT WALL OR FAULKBUILT

PLASTIC LAMINATE MILLWORK WITH SOLID SURFACE COUNTERS

PORCELAIN TILE(2)

RUBBER BASE

1 VIEW OF CORRIDOR

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INTERIOR RENOVATIONS FOR:

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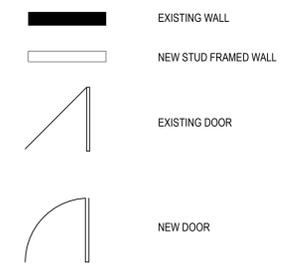
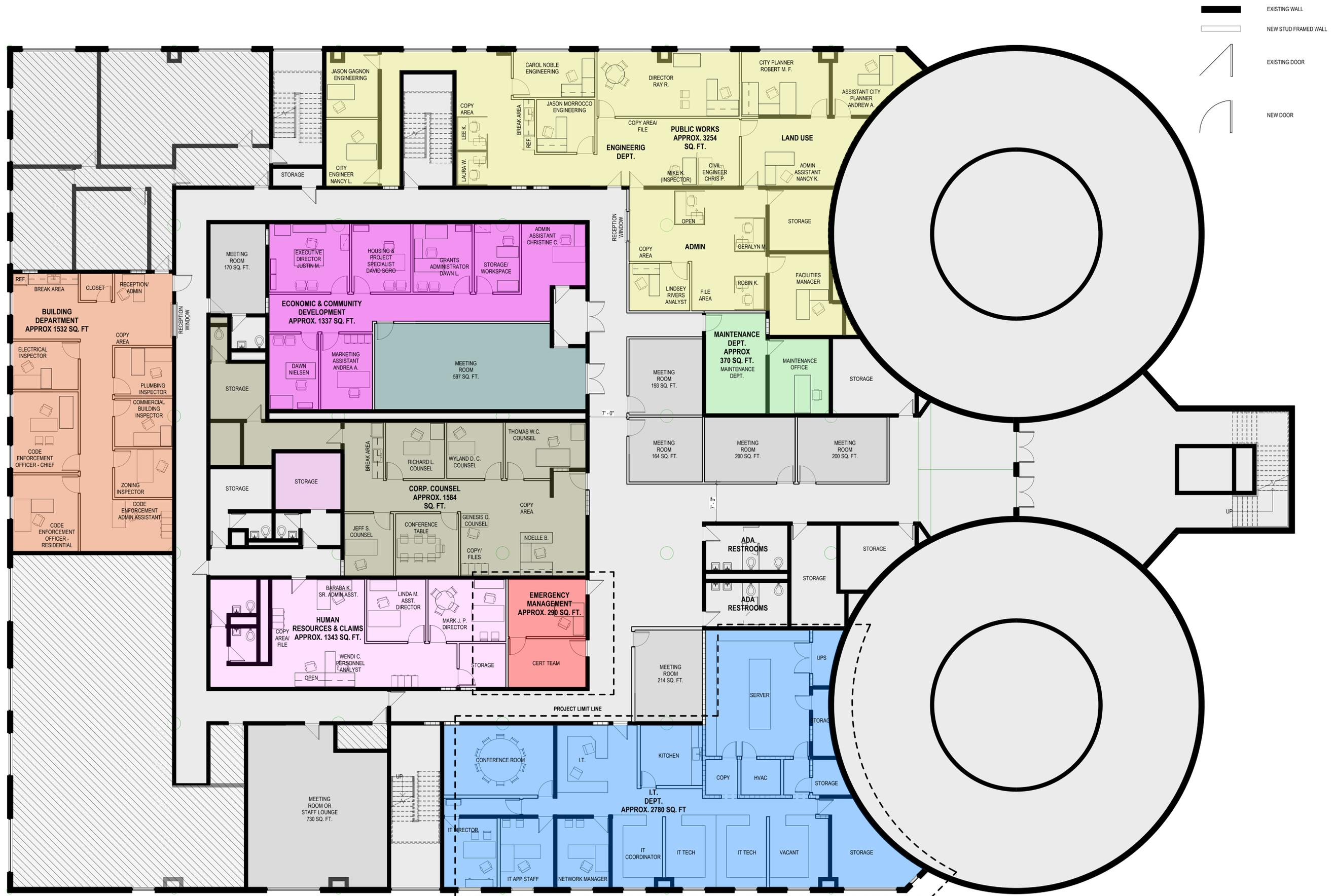
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A3.35
 AXONOMETRIC VIEWS



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RENOVATIONS FOR:

BRISTOL, CT
 111 NORTH MAIN ST

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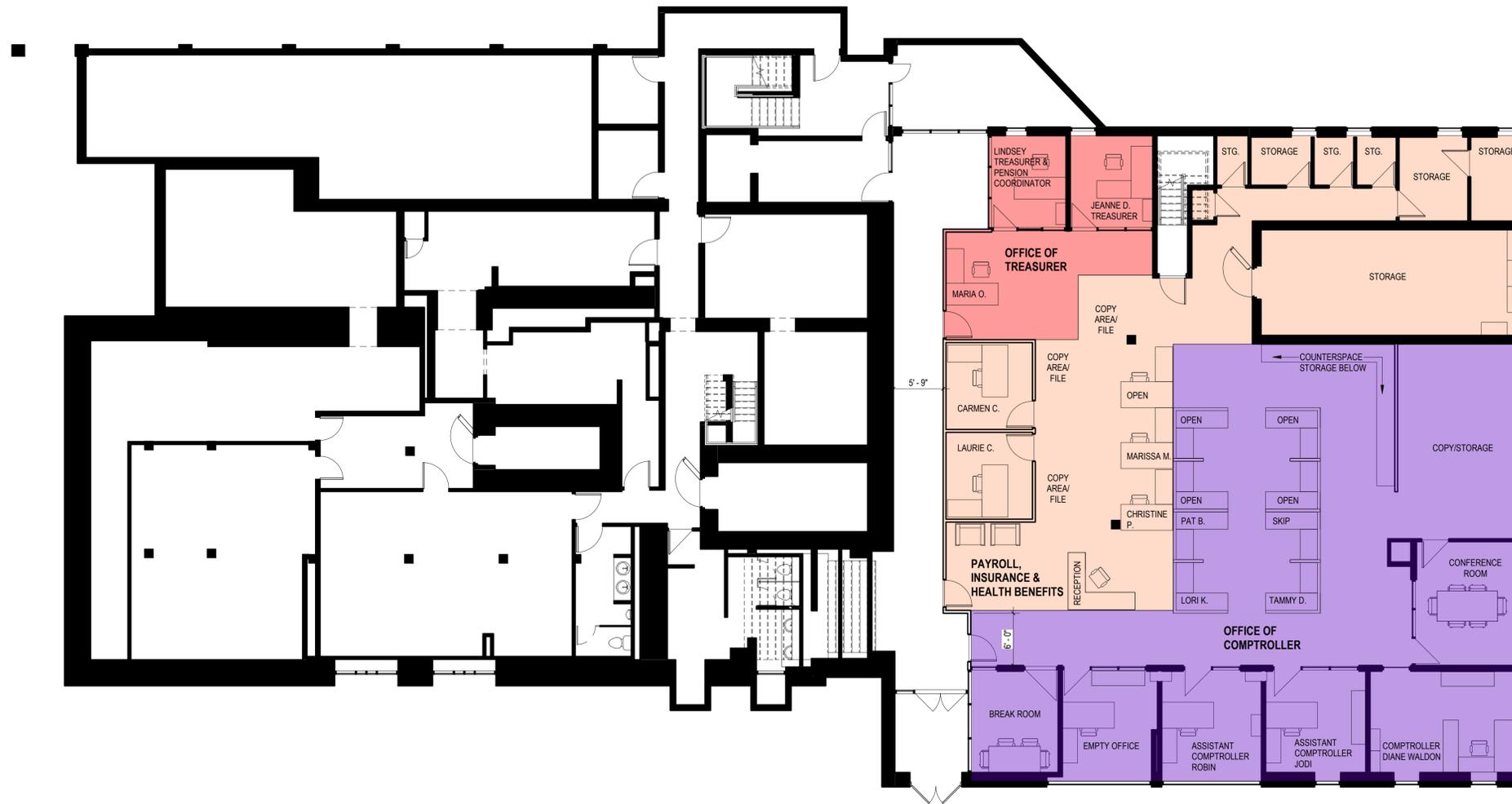
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SECOND FLOOR COURTHOUSE TEMPORARY FITOUT
 1 AT1.0 1/8" = 1'-0"

AT1.0
 TEMPORARY FIT OUT - COURTHOUSE


 EXISTING WALL TO REMAIN
 NEW STUD FRAMED WALL
 EXISTING DOOR
 NEW DOOR



1 FIRST FLOOR TEMPORARY FIT OUT
 AT2.0 1/8" = 1'-0"

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RENOVATIONS FOR:

 BRISTOL, CT
 111 NORTH MAIN ST

Issuances:

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AT2.0
 FIRST FLOOR
 TEMPORARY FIT OUT
 WEBSTER BANK

-  EXISTING WALL TO REMAIN
-  NEW STUD FRAMED WALL
-  EXISTING DOOR
-  NEW DOOR



1 SECOND FLOOR SWING SPACE FIT OUT
 AT2.1 1/8" = 1'-0"

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RENOVATIONS FOR: **Bristol** CONNECTICUT
All Heart
 BRISTOL, CT
 111 NORTH MAIN ST

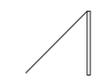
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Date: June 18th, 2021

Scale: As Noted

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AT2.1
 SECOND FLOOR
 TEMPORARY FIT OUT
 WEBSTER BANK

-  EXISTING WALL TO REMAIN
-  NEW STUD FRAMED WALL
-  EXISTING DOOR
-  NEW DOOR



1 MEZZANINE TEMPORARY FIT OUT
 AT2.2 1/4" = 1'-0"

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All Heart
 BRISTOL, CT

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Scale: As Noted

Project No. 2K21.004 | Drawn by: DM

AT2.2
 MEZZANINE
 TEMPORARY FIT OUT
 WEBSTER BANK

GENERAL NOTES	
1.	THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF DUCTWORK AND PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT, DUCTWORK AND PIPING FABRICATION DRAWING APPROVAL.
2.	ANY MATERIAL, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
3.	DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS, WHERE ACOUSTICALLY LINED DUCT IS SPECIFIED. DUCT DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING.
4.	ALL LOW PRESSURE TERMINAL BRANCH DUCTWORK (SUPPLY AND RETURN) SHALL BE PROVIDED WITH VOLUME CONTROL DAMPERS. ALL BRANCH DUCT VOLUME DAMPERS SERVING DIFFUSERS IN GYPSUM BOARD CEILINGS (OTHERWISE INACCESSIBLE) SHALL BE REMOTELY (CORD OR CABLE) OPERABLE THROUGH THE FACE OF THE DIFFUSER.
5.	THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. FINISHED PAINT COLOR TO BE SELECTED BY THE ARCHITECT. MANUFACTURER'S LOGO SHALL NOT BE EXPOSED.
6.	WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COIL, ECT, DIFFER FROM THE LINE SIZE PIPING. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
7.	SOME PRESSURE AND TEMPERATURE GAUGES ARE SCHEMATICALLY SHOWN ON THE PLANS, REFER TO THE SPECIFICATIONS FOR EXACT TYPES AND LOCATIONS.
8.	ALL FIRE DAMPERS SHALL BE 2 HOUR FIRE RATED PER U.L. 555.
9.	PROVIDE FIRE SMOKE DAMPERS AND ACCESS DOORS IN ALL DUCTWORK PENETRATING FIRE RATED WALLS AND FLOORS. ALL ACCESS DOORS SHALL BE 18X18. ALL FIRE SMOKE DAMPERS SHALL BE PROVIDED WITH END SWITCH FOR STATUS SIGNAL TO THE BMS AND FIRE SMOKE CONTROL PANEL.
10.	PROVIDE ONE THERMOSTAT FOR EACH FAN COIL UNIT, ATTIC VENT AIR FAN UNIT, VAV, FPB, CABINET UNIT HEATER AND ELECTRIC BASEBOARD RADIATION. THERMOSTAT LOCATIONS SHALL BE AS SHOWN ON PLANS AND/OR WHERE DIRECTED AND APPROVED BY THE ARCHITECTS AND ENGINEERS.
11.	ALL DUCTWORK AND PIPING REQUIRING FIRE RATING AND WHERE SHOWN ON PLANS SHALL BE PROVIDED WITH A 2-HOUR FIRE RATED ENCLOSURE (PROVIDED UNDER ANOTHER SECTION OF THE SPECIFICATIONS).
12.	BORDER TYPES AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.
13.	PROVIDE CABLE OPERATED DAMPER FOR ALL SUPPLY AND RETURN DIFFUSERS IN INACCESSIBLE CEILING. ADJUSTMENT OF VOLUME DAMPERS SHALL BE THROUGH THE DIFFUSER FACE.
14.	ALL HANDICAP SPACE THERMOSTAT SHALL BE INSTALED PER ADA REQUIREMENTS.
15.	ALL PIPING SHALL BE INSTALLED TIGHT TO THE BOTTOM OF STEEL AT ALL TIMES UNLESS OTHERWISE INDICATED OR REQUIRED BY FIELD CONDITIONS.
16.	ALL PIPING OF DISSIMILAR MATERIALS SHALL HAVE DIELECTRIC FITTINGS.
17.	ALL HVAC EQUIPMENT THAT CONTAINS A COILING COIL OR FUEL FIRED APPLIANCE WILL BE PROVIDED WITH A SECONDARY DRAIN PAN AND A MOISTURE SENSOR THAT WILL AUTOMATICALLY SHUT THE UNIT DOWN WHEN MOISTURE IS DETECTED.

DEMOLITION NOTES	
1.	DEMOLITION NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2.	ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
3.	AFTER REMOVING PIPING THROUGH FLOOR SLABS, PENETRATIONS SHALL BE PATCHED WITH APPROVED FIRE-RATED MATERIAL.
4.	THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
5.	DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
6.	ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE OWNER.
7.	THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.
8.	CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE & LOCAL REQUIREMENTS.

MECHANICAL ABBREVIATIONS	
AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
CD-A	DIFFUSER TYPE - REFER TO SCHEDULE
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNITS
CC	COOLING COIL
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CP	CONDENSATE PUMP
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ER	EXISTING TO REMAIN
ETR	EXISTING TO BE RELOCATED
EX	GENERAL EXHAUST
FC	FAN COIL
FD	FIRE DAMPER WITH ACCESS DOOR
FLA	FULL LOAD AMPS
FPI	FIN PER INCH
FTR	FIN TUBE RADIATION
FXC	FLEXIBLE CONNECTION
GPM	GALLONS PER MINUTE
HWP	HOT WATER PUMP
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HX	HEAT EXCHANGER
HZ	HERTZ
IU	INDUCTION UNIT
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MD	MOTORIZED DAMPER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OED	OPEN ENDED DUCT
PC	PUMPED CONDENSATE
PD	PUMPED DISCHARGE
PH	PHASE
PSI	POUNDS PER SQUARE INCH
RF	RETURN FAN
SD	SMOKE DETECTOR
TC	TOTAL COOLING (IN MBH)
TD	TRANSFER DUCT
TAO	TRANSFER AIR OPENING
TX	TOILET EXHAUST
TYP	TYPICAL
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VN	VENT
WMS	WIRE MESH SCREEN

MECHANICAL PIPING SYMBOL LIST	
	UNION
	PIPE FLANGE
	CAPPED PIPE
	CAPPED AND VALVE CONNECTION
	STRAINER WITH BLOW DOWN VALVE
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SHUT-OFF VALVE (GATE OR BALL VALVE SEE SPECS)
	CHECK VALVE
	CONDENSATE PUMP
	CIRCUIT SETTER
	POINT OF NEW CONNECTION TO EXISTING WORK
	REMOVE AND SAFE OFF EXISTING WORK FOR RECONNECTION

MECHANICAL DUCTWORK SYMBOL LIST	
	NEW SUPPLY DUCT
	EXISTING SUPPLY DUCT TO REMAIN
	EXISTING SUPPLY DUCT TO BE REMOVED
	NEW RETURN DUCT
	EXISTING RETURN DUCT TO REMAIN
	EXISTING RETURN DUCT TO BE REMOVED
	ACOUSTICALLY LINED DUCT
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE RELOCATED
	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
	ROUND DUCT DIAMETER
	TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT
	ACCESS DOOR IN DUCT
	FLEXIBLE CONNECTION
	VOLUME DAMPER
	FIRE DAMPER W/ DUCT ACCESS DOOR
	MOTORIZED DAMPER W/DUCT ACCESS DOOR
	COMBINATION FIRE/SMOKE DAMPER W/DUCT ACCESS DOOR
	SUPPLY CEILING DIFFUSER
	RETURN CEILING GRILLE OR REGISTER
	SUPPLY LINEAR DIFFUSER W/ PLENUM
	RETURN LINEAR DIFFUSER W/ PLENUM
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	ELBOW WITH TURNING VANES
	RADIUS ELBOW
	DUCT SPLIT OR BRANCH TAKEOFF
	THERMOSTAT - WALL OR DUCT MOUNTED
	TEMPERATURE SENSOR - WALL OR DUCT MOUNTED
	HUMIDISTAT - WALL OR DUCT MOUNTED
	DUCT MOUNTED SMOKE DETECTOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE AND NITROUS OXIDE SENSOR
	MECHANICAL PLAN NOTE TAG
	REVISION SYMBOL

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INTERIOR RENOVATIONS FOR:
Bristol
CONNECTICUT
All Heart
111 NORTH MAIN ST
BRISTOL, CT

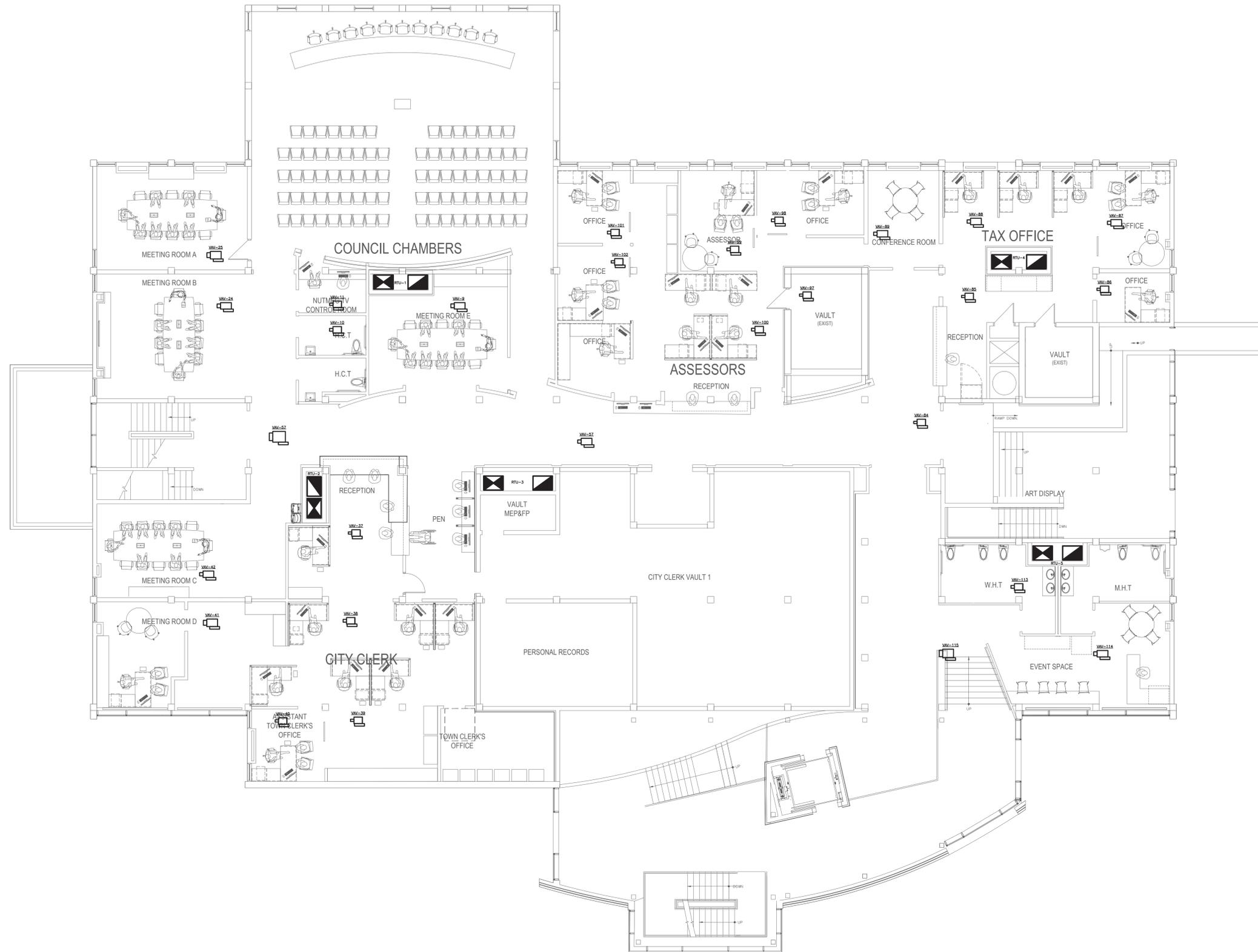
Issuances:

Date: March 15th, 2021
Scale: NONE
Project No. 2K20.002 | Drawn by: TL

M0.01
MECHANICAL
NOTES &
LEGEND



1 MECHANICAL OVERALL PLAN
 SCALE: 1/8" = 1'-0"



1 MECHANICAL OVERALL PLAN
SCALE: 1/8" = 1'-0"

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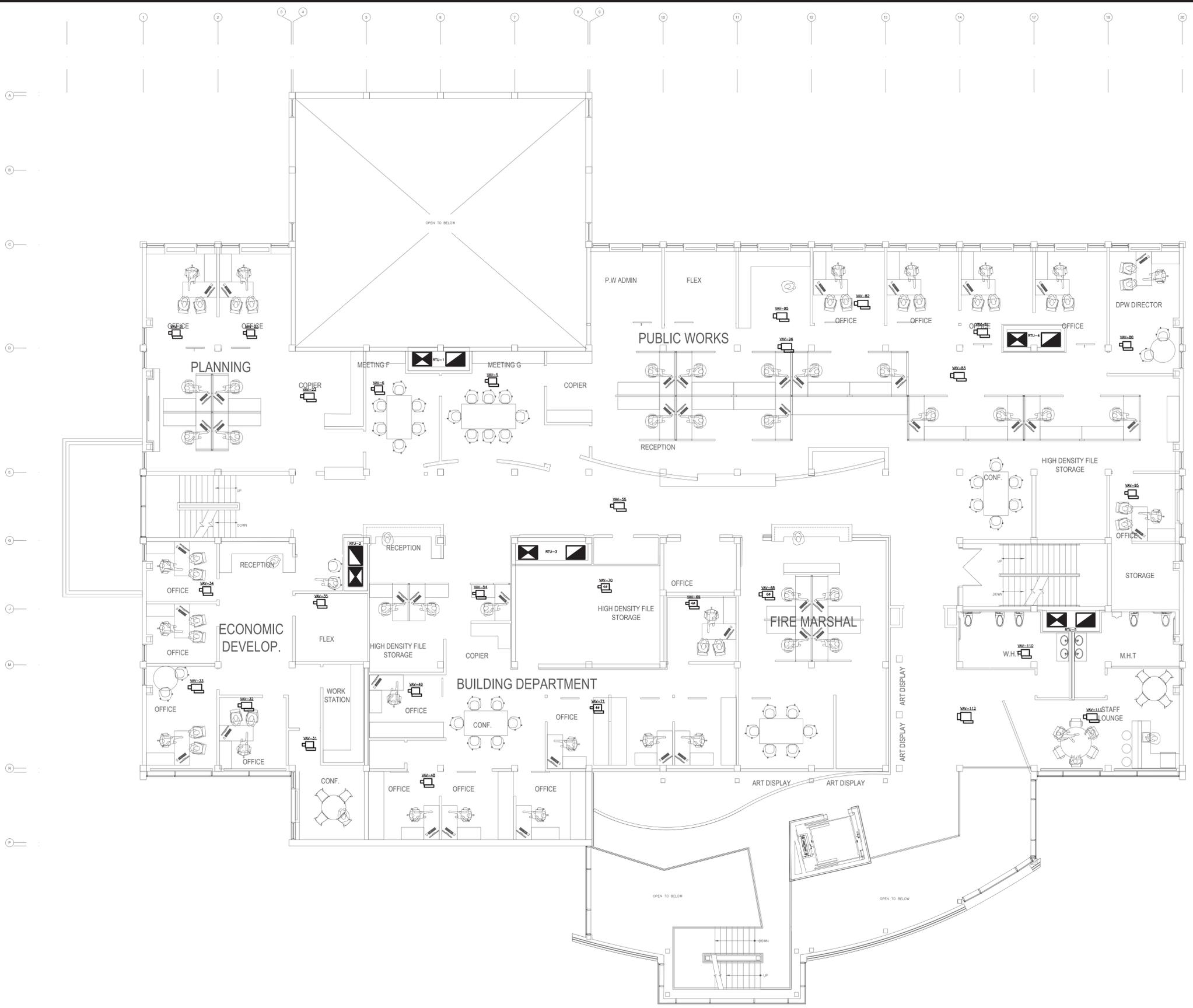
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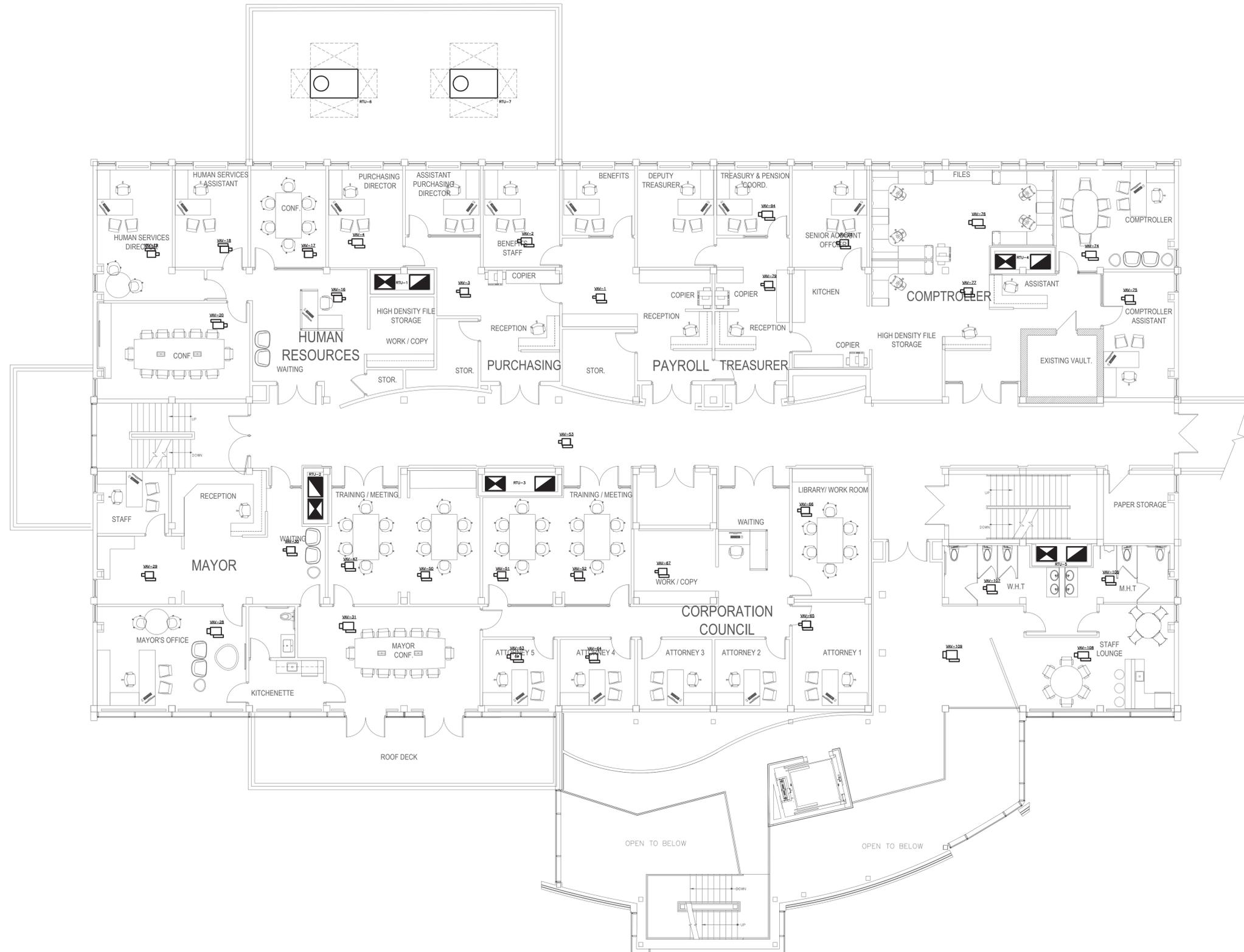
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M2.11
MECHANICAL FIRST
FLOOR PLAN



1 MECHANICAL OVERALL PLAN
 SCALE: 1/8" = 1'-0"



1 MECHANICAL OVERALL PLAN
 SCALE: 1/8" = 1'-0"

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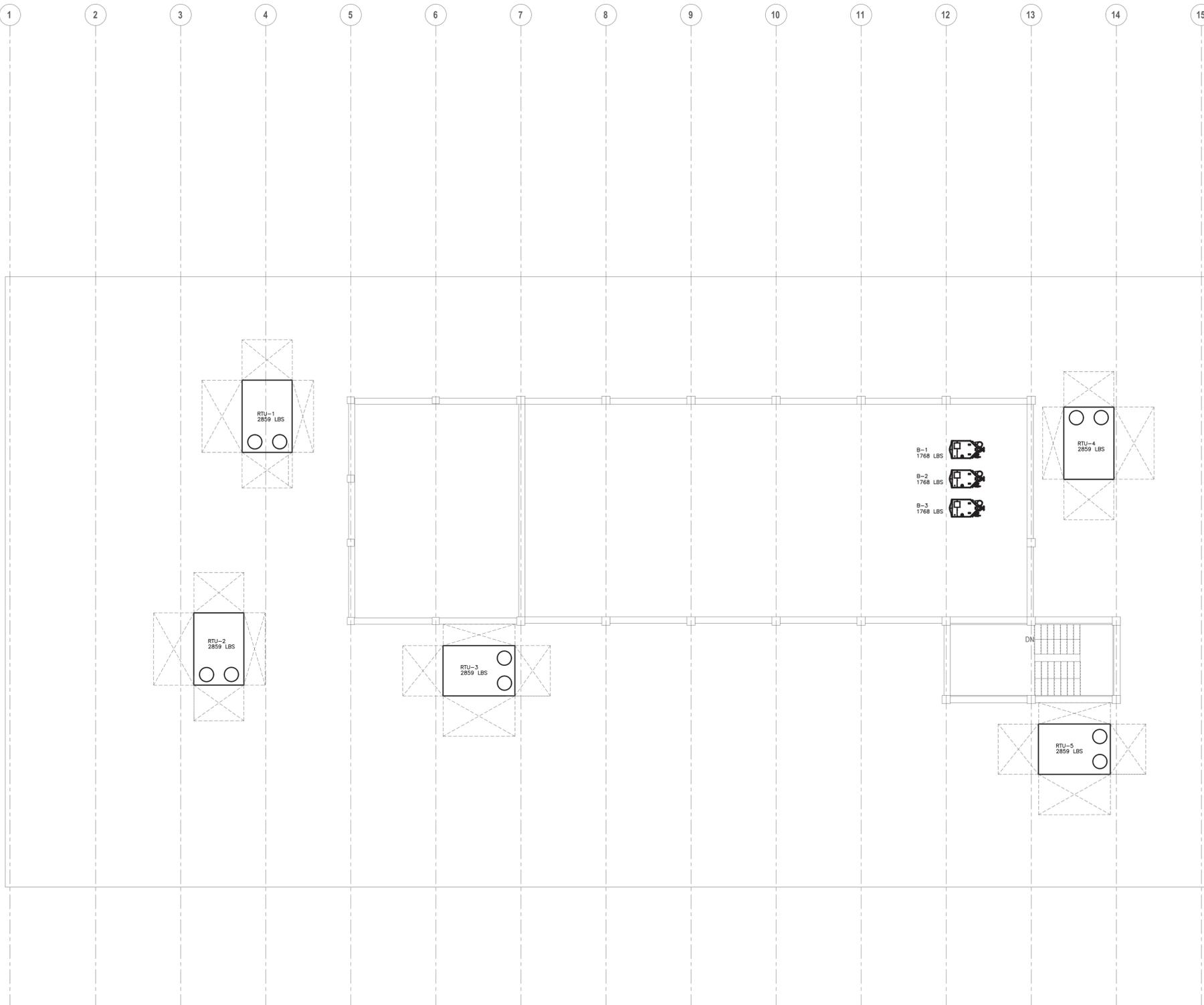
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Date: March 15th, 2021
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M2.31
 MECHANICAL THIRD FLOOR PLAN



1 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

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M2.41
MECHANICAL
ROOF PLAN

VARIABLE AIR VOLUME TERMINAL UNIT													
UNIT TAG	INLET SIZE	CFM RANGE	TERMINAL SET POINTS		HEATING COIL DATA				ELECTRIC DATA			MANUFACTURER MODEL	NOTES
			MAX CFM	MIN CFM	MBH	EAT/EWT	LAT/LWT	APD	GPM/PD	MCA	VOLTS		
VAV-1	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-2	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-3	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-4	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-5	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-6	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-7	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-8	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-9	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-10	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-11	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-12	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-13	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-14	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-15	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-16	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-17	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-18	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-19	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-20	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-21	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-22	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-23	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-24	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-25	9"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV9	--
VAV-26	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-27	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-28	10"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV10	--
VAV-29	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-30	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-31	9"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV9	--
VAV-32	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-33	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-34	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-35	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-36	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-37	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-38	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-39	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-40	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-41	10"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV10	--
VAV-42	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-43	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-44	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-45	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-46	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-47	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-48	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-49	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-50	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--

VARIABLE AIR VOLUME TERMINAL UNIT													
UNIT TAG	INLET SIZE	CFM RANGE	TERMINAL SET POINTS		HEATING COIL DATA				ELECTRIC DATA			MANUFACTURER MODEL	NOTES
			MAX CFM	MIN CFM	MBH	EAT/EWT	LAT/LWT	APD	GPM/PD	MCA	VOLTS		
VAV-51	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-52	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-53	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-54	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-55	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-56	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-57	14"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV14	--
VAV-58	8"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV8	--
VAV-59	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-60	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-61	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-62	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-63	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-64	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-65	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-66	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-67	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-68	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-69	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-70	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-71	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-72	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-73	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-74	6"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV6	--
VAV-75	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-76	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-77	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-78	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-79	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-80	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-81	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-82	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-83	8"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV8	--
VAV-84	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-85	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-86	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-87	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-88	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-89	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-90	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-91	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-92	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-93	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-94	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-95	8"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV8	--
VAV-96	7"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-97	4"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-98	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-99	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-100	5"ø	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--

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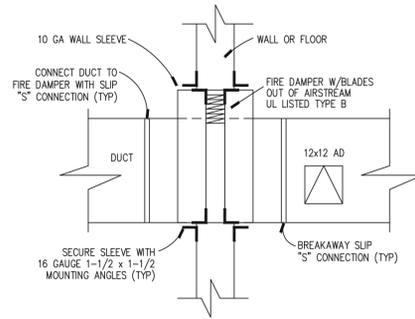


BRISTOL, CT
 111 NORTH MAIN ST

Issuances:

Date: March 15th, 2021
 Scale: NONE
 Project No. 2K20.002 Drawn by: TL

M3.01
 MECHANICAL SCHEDULES



1 FIRE DAMPER DETAIL
SCALE: NONE

ROOFTOP UNIT SCHEDULE																										
UNIT TAG	SERVICE LOCATION	SUPPLY FAN				MIN OUTSIDE AIR (CFM)	OUTSIDE AIR (%)	COOLING				ELECTRICAL			HEATING			MIN EER	FILTER	MANUFACTURER	MODEL	REFRIGERANT	OPERATING WEIGHT (LBS)	REMARKS		
		TOTAL CFM	ESP	HP	DRIVE			NOM. CAPACITY TOTAL (BTU)	SENS. (BTU)	EAT DB/WB	AMBIENT (°F)	STAGES (MIN)	MCA	VOLTS	PHASE	INPUT (BTU)	OUTPUT (BTU)								EFFICIENCY	STAGES
RTU-1	SOUTH WEST ROOF	8000	1.5	5.0	BELT	1405	17.6	247,550	195,500	80/67	95	--	98.0	208	3	350,000	280,000	80%	2.5:1	11.0	MERV 13	TRANE	YHD240	410A	2859	NOTES 1-9
RTU-2	SOUTH EAST ROOF	8000	1.5	5.0	BELT	1130	14.2	247,550	195,500	80/67	95	--	98.0	208	3	350,000	280,000	80%	2.5:1	11.0	MERV 13	TRANE	YHD240	410A	2859	NOTES 1-9
RTU-3	EAST ROOF	8000	1.5	5.0	BELT	1690	21.2	247,550	195,500	80/67	95	--	98.0	208	3	350,000	280,000	80%	2.5:1	11.0	MERV 13	TRANE	YHD240	410A	2859	NOTES 1-9
RTU-4	NORTH WEST ROOF	8000	1.5	5.0	BELT	1425	17.8	247,550	195,500	80/67	95	--	98.0	208	3	350,000	280,000	80%	2.5:1	11.0	MERV 13	TRANE	YHD240	410A	2859	NOTES 1-9
RTU-5	ATRIUM ROOF	8000	1.5	5.0	BELT	1500	18.8	247,550	195,500	80/67	95	--	98.0	208	3	350,000	280,000	80%	2.5:1	11.0	MERV 13	TRANE	YHD240	410A	2859	NOTES 1-9
RTU-6	COUNCIL CHAMBERS ROOF	2000	0.5	1.0	BELT	375	18.8	61,100	45,000	80/67	95	--	26.0	208	3	80,000	64,000	80%	2.5:1	12.8	MERV 13	TRANE	YHC060F4	410A	1059	NOTES 1-9
RTU-7	COUNCIL CHAMBERS ROOF	2000	0.5	1.0	BELT	375	18.8	61,100	45,000	80/67	95	--	26.0	208	3	80,000	64,000	80%	2.5:1	12.8	MERV 13	TRANE	YHC060F4	410A	1059	NOTES 1-9

NOTES:
 1. PROVIDE DOWNFLOW SUPPLY AND RETURN DISCHARGES.
 2. PROVIDE MODULATING GAS HEAT.
 3. PROVIDE SUPPLY AND RETURN AIR SMOKE DETECTOR. FIELD INSTALL IF NOT OFFERED BY MANUFACTURER FROM FACTORY.
 4. PROVIDE FULL ENTHALPY ECONOMIZER AND POWERED EXHAUST.
 5. PROVIDE HINGED ACCESS PANELS AND CLOGGED FILTER SWITCH.
 6. PROVIDE DISCONNECT SWITCH AND POWERED CONVENIENCE OUTLET.
 7. PROVIDE CO2 SENSOR IN RETURN DUCTWORK. PROVIDE DEMAND CONTROL VENTILATION.
 8. PROVIDE VAV SYSTEM CONTROLS WITH INDOOR/OUTDOOR SUPPLY AIR TEMPERATURE RESET CAPABILITY (ADJUSTABLE)
 9. MOUNT ON VIBRATION ISOLATION CURB.

DIFFUSERS, REGISTERS, GRILLES									
UNIT TAG	SERVICE	MATERIAL FINISH	MANUFACTURER MODEL	REMARKS	UNIT TAG	SERVICE	MATERIAL FINISH	MANUFACTURER MODEL	REMARKS
A	SUPPLY	STEEL WHITE	PRICE SPD	NOTE 1	B	RETURN	STEEL WHITE	PRICE S30	NOTE 1
C	SUPPLY	STEEL WHITE	PRICE S20	NOTE 1	D	RETURN	STEEL WHITE	PRICE 95	NOTE 1
E	SUPPLY	STEEL WHITE	PRICE SDGE	NOTE 1	F	RETURN	STEEL WHITE	PRICE SDGR	NOTE 1
G	SUPPLY	STEEL WHITE	PRICE RCD	NOTE 1	H				

NOTES:
 1. PROVIDE SIZE INDICATED IN DRAWINGS.

VARIABLE AIR VOLUME TERMINAL UNIT														
UNIT TAG	INLET SIZE	CFM RANGE	TERMINAL SET POINTS		HEATING COIL DATA					ELECTRIC DATA			MANUFACTURER MODEL	NOTES
			MAX CFM	MIN CFM	MBH	EAT/EWT	LAT/LWT	APD	GPM/PD	MCA	VOLTS	PHASE		
VAV-101	5"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-102	4"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-103	5"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-104	4"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-105	4"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--
VAV-106	5"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-107	5"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-108	7"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV7	--
VAV-109	12"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV12	--
VAV-110	8"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV8	--
VAV-111	5"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-112	12"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV12	--
VAV-113	8"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV8	--
VAV-114	5"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV5	--
VAV-115	12"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV12	--
VAV-116	4"ø	--	--	--	--	--	--	--	--	--	--	--	PRICE SDV4	--

BOILER SCHEDULE												
BOILER TAG	SERVICE LOCATION	INPUT MBH	OUTPUT MBH	FUEL	BOILER TYPE	WATER SETPOINT	WEIGHT	ELECTRICAL DATA			MANUFACTURER MODEL	REMARKS
								FLA	VOLTS	PHASE		
B-1	HW LOOP ROOF MECH RM	750	722	NAT GAS	CONDENSING	180°F	1768 LBS	5	208	3	LOCHINVAR FBNO751	NOTES 1-2
B-2	HW LOOP ROOF MECH RM	750	722	NAT GAS	CONDENSING	180°F	1768 LBS	5	208	3	LOCHINVAR FBNO751	NOTES 1-2
B-3	HW LOOP ROOF MECH RM	750	722	NAT GAS	CONDENSING	180°F	1768 LBS	5	208	3	LOCHINVAR FBNO751	NOTES 1-2

NOTES:
 1. PROVIDE WITH CONTROLS FOR INTEGRATION INTO BMS.
 2. PROVIDE CONDENSATE NEUTRALIZER FOR EACH BOILER. REFER TO MANUFACTURERS SPECIFICATIONS FOR INSTALLATION AND MAINTENANCE INSTRUCTIONS.

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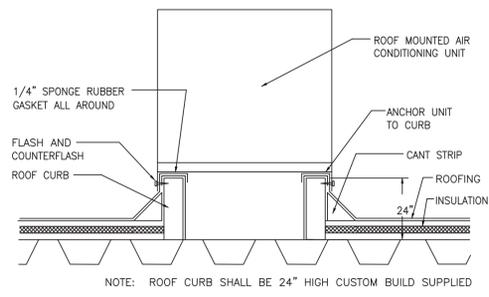
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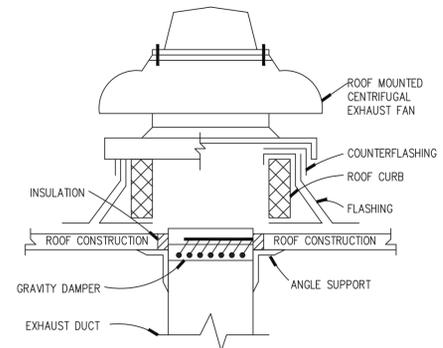
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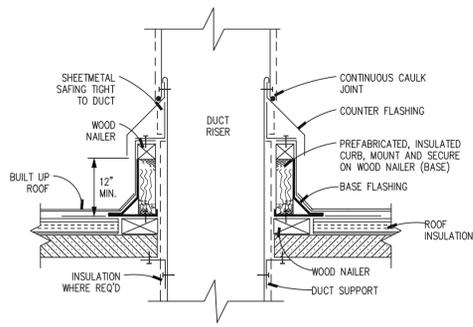
M3.02
 MECHANICAL
 SCHEDULES
 AND DETAILS



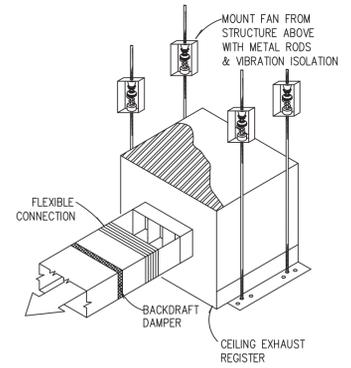
1 RTU ROOF CURB MOUNTING DETAIL
SCALE: NONE



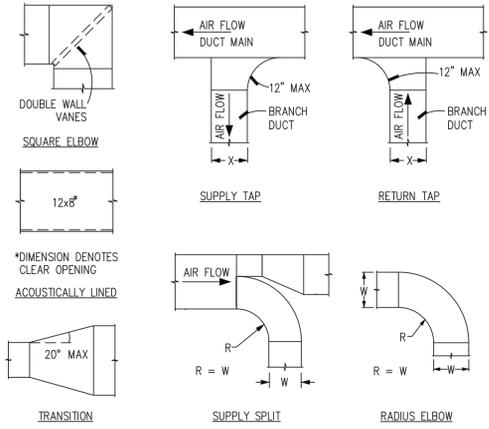
2 ROOF EXHAUST FAN DETAIL
SCALE: NONE



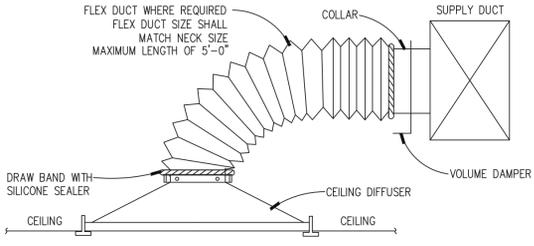
3 DUCT PENETRATION THROUGH ROOF
SCALE: NONE



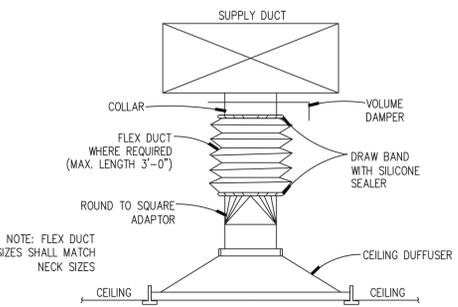
4 CEILING FAN DETAIL
SCALE: NONE



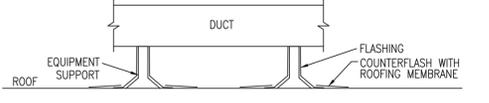
5 DUCT FITTING DETAIL
SCALE: NONE



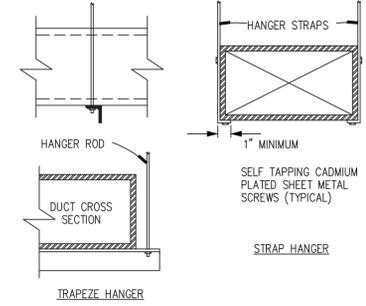
6 TYPICAL SIDE DIFFUSER CONNECTION
SCALE: NONE



7 TYPICAL DIFFUSER CONNECTION
SCALE: NONE

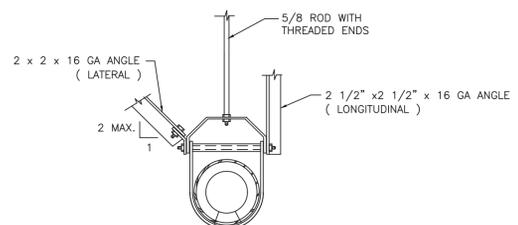


8 ROOFTOP DUCT SUPPORT DETAIL
SCALE: NONE



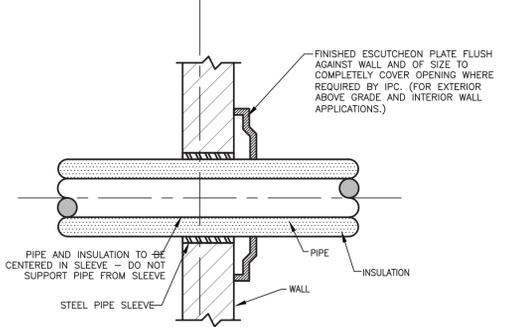
HANGER SIZES FOR RECTANGULAR DUCT			
MAX SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1"x16 GAUGE STRAP	NONE	8'-0"
36"	1/4" ROUND ROD	1-1/2"x1-1/2"x1/8"	8'-0"
48"	1/4" ROUND ROD	2"x2"x1/8"	8'-0"
60"	5/16" ROUND ROD	2"x2"x1/8"	8'-0"
84"	3/8" ROUND ROD	2"x2"x1/8"	8'-0"

9 DUCT HANGER DETAIL
SCALE: NONE



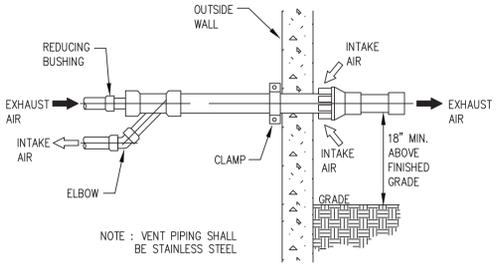
10 PIPE SUPPORT DETAIL
SCALE: NONE

1. PROVIDE LONGITUDINAL AND LATERAL BRACING ON PIPING 2 1/2" AND GREATER, GAS PIPING 1" I.D. AND GREATER AND PIPING IN BOILER AND MECHANICAL ROOMS 1 1/4" AND GREATER, WHERE SUSPENDED 12" OR MORE FROM SUPPORTING STRUCTURE.
2. PROVIDE SIMILAR BRACING ON ALL DUCTWORK WITH CROSS-SECTIONAL AREA OF 6 SF OR GREATER OR DIAMETER OF 28 IN. OR GREATER WHERE SUSPENDED 12" OR MORE FROM SUPPORTING STRUCTURE.
3. MAKE END CONNECTIONS TO EXISTING STRUCTURAL STEEL WITH 1/2" BOLTS OR TO CONCRETE DECK PER CONNECTION TO CONCRETE DETAIL ABOVE.

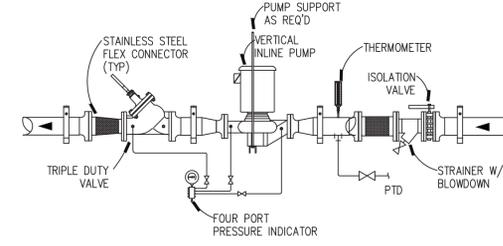


- NON-RATED NOTES:**
- NONFIRE-RESISTANCE-RATED ASSEMBLIES:
 - ANNULAR SPACE MUST BE FILLED TO RESIST FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION WITH AN APPROVED NONCOMBUSTIBLE MATERIAL OR WITH A FILL, VOID, OR CAVITY MATERIAL THAT IS TESTED AND CLASSIFIED FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS.

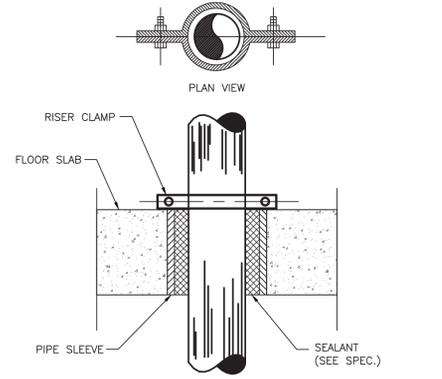
11 PIPE PENETRATION DETAIL NON-RATED WALL
SCALE: NONE



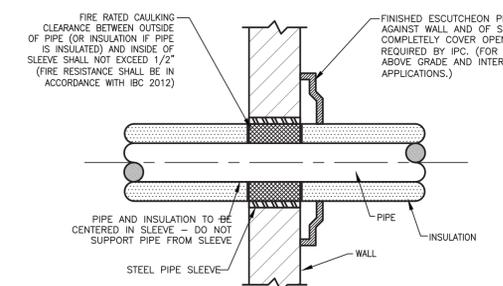
12 GAS VENT WALL TERMINATION
SCALE: NONE



13 VERTICAL INLINE PUMP DETAIL
SCALE: NONE



14 PIPE SLEEVE THROUGH FLOOR SLAB
SCALE: NONE



- FIRE-RATED NOTES:**
- THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENCE OF 0.01 INCH OF WATER.
 - THE SYSTEM SHALL HAVE A F-RATING OF NOT LESS THAN ONE HOUR, BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATING.

15 FIRE RATED WALL PIPE PENETRATION DETAIL
SCALE: NONE

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M3.03
MECHANICAL
DETAILS

ELECTRICAL ABBREVIATIONS			
A	AMPERE	GFI	GROUND FAULT INTERRUPTING
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
AHJ	AUTH. HAVING JURISDICTION	HZ	HERTZ
BLDG	BUILDING	IC	INTERRUPTING CAPACITY
C	CONDUIT	JB	JUNCTION BOX
CB	CIRCUIT BREAKER	KVA	KILOVOLT AMPERE
CKT	CIRCUIT	KW	KILOWATT
CLG	CEILING	LTG	LIGHTING
CLOS	CLOSET	MAX	MAXIMUM
CO	CONDUIT ONLY	MCB	MAIN CIRCUIT BREAKER
COMM	COMMUNICATION	MIN	MINIMUM
CONT	CONTINUATION	MLO	MAIN LUGS ONLY
CORR	CORRIDOR	MTD	MOUNTED
CP	CONDENSATE PUMP	MTG	MOUNTING
CU	COPPER	MW	MICROWAVE
DED	DEDICATED	N	NEW DEVICE
DISC	DISCONNECT	NEC	NATIONAL ELECTRICAL CODE
DN	DOWN	NTS	NOT TO SCALE
DW	DISHWASHER	OC	ON CENTER
DWG	DRAWING	P	POLE
E	EXISTING DEVICE	PB	PULL BOX
EC	ELECTRICAL CONTRACTOR	Ø	PHASE
ELEC	ELECTRICAL	PNL	PANEL
ELEV	ELEVATOR	PWR	POWER
EMERG	EMERGENCY	R	RELOCATED DEVICE
EP	ELECTRICAL PANEL	RECEPT	RECEPTACLE
EQPT	EQUIPMENT	RM	ROOM
ER	EXISTING TO BE RELOCATED	SECT	SECTION
EXIST	EXISTING	SW	SWITCH
FA	FIRE ALARM	TELE	TELEPHONE
FBO	FURNISHED BY OTHERS	TYP	TYPICAL
FCO	FUSED CUTOUT	UON	UNLESS OTHERWISE NOTED
FDR	FEEDER	V	VOLT OR VOLTAGE
FL	FLOOR	W	WATT
G, GRD	GROUND	WM	WIREMOLD
GC	GENERAL CONTRACTOR	WP	WATER PROOF

ELECTRICAL EXCAVATION NOTES

- FOR EACH DAYS EXPECTED WORK AS MARKED OUT BY ELECTRICAL CONTRACTOR, THE EXCAVATION CONTRACTOR SHALL ESTABLISH SAFETY PERIMETER EXCLUDING UNAUTHORIZED PERSONNEL AND INITIATE EXCAVATION. AT ALL TIMES, THE EXCAVATION SUBCONTRACTOR SHALL MAINTAIN A SAFE DISTANCE BETWEEN HIS WORKERS AND BACK HOE OR OTHER EQUIPMENT REQUIRED FOR TRENCHING, CUTTING AND EXCAVATION WORK, AND ELECTRICAL CONTRACTOR'S PERSONNEL INSTALLING CONDUIT IN OPENED TRENCH.
- EXCAVATION SUBCONTRACTOR SHALL SCHEDULE THE DAYS WORK SO THAT INSTALLED CONDUIT IS BACK FILLED PRIOR TO THE END OF THE DAY. UNDER NO CIRCUMSTANCES SHALL OPEN TRENCHES BE LEFT UNATTENDED AT THE END OF THE WORKDAY. GRADE BACK FILLED AREAS LEVEL WITH ADJACENT UNDISTURBED AREAS.
- THE BOTTOM OF THE EXCAVATED TRENCH SHOULD BE UNDISTURBED, TAMPED, OR RELATIVELY SMOOTH EARTH WHERE THE EXCAVATION IS IN OR ON ROCK, THE CONDUIT SHOULD BE LAID ON A PROTECTIVE LAYER OF CLEAN TAMPED BACKFILL.
- ALL BACK FILL (NO ROCKS) SHOULD BE FREE OF MATERIALS THAT MAY DAMAGE THE CONDUIT SYSTEM. BACK FILL WITHIN 6" OF THE CONDUIT SHOULD BE FREE OF MATERIAL GREATER THAN 4" IN MAXIMUM DIMENSION OR WITH SHARP EDGES LIKELY TO DAMAGE IT. THE BALANCE OF BACK FILL SHOULD BE FREE OF SOLID MATERIAL GREATER THAN 8" IN MAXIMUM DIMENSION. BACK FILL MATERIAL SHOULD BE ADEQUATELY COMPACTED. EXCAVATION SUBCONTRACTOR SHALL PROVIDE ADDITIONAL MATERIALS AS NEEDED TO MEET THESE REQUIREMENTS, AND REMOVE EXCESS SPOILS FROM THE SITE AT THE CONCLUSION OF THE PROJECT.
- SAW CUT BOUNDARIES OF PAVED AREAS PRIOR TO EXCAVATION (CUT MINIMUM OF 6" BEYOND EDGE OF EXCAVATION).
- FOR AREAS CROSSING OTHER UTILITIES, MACHINE EXCAVATION SHALL BE LIMITED TO AMOUNT NECESSARY TO BREAK PAVEMENT AND/OR FROST, BUT IN NO CASE GREAT THAN A 12" DEPTH OR LESS THAN 12" ABOVE A UTILITY LINE.
- FINAL RAKING OUT AND RESEEDING OF GRASS AREA WILL BE BY CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAVING AND RESORATION. CONTRACTOR SHALL THOROUGHLY COMPACT ALL ADDITIONAL BACK FILL MATERIALS BEYOND THOSE CALLED FOR UNDER NOTE 4 ABOVE.
- CONTRACTOR SHALL BE PERMITTED TO USE PVC SCHEDULE 40 CONDUIT OUTDOORS.
- PVC SCHEDULE 40 - PLASTIC CONDUIT: (FOR OUTDOOR USE)
 - CUT ENDS SQUARE, REAM SMOOTH, WIPE CLEAN, APPLY APPROVED SOLVENT CEMENT AND QUARTER TURN AS DRAWING UP TIGHT TO SHOULDER.
 - FOR UNDERGROUND, CONVERT TO STEEL CONDUIT THROUGH ADAPTERS WHEN ENTERING BUILDING AND FOR RISERS.
 - CLEARANCE FROM HOT WATER AND STEAM LINES SHALL BE 3 FT MINIMUM.
 - SEAL JOINTS WATERTIGHT.
- EXCAVATION WILL BE BY HAND IN THE VICINITY OF POINTS WHERE THE NEW CONDUIT CROSSES EXISTING UTILITIES AS SHOWN ON THIS DRAWING OR AS OTHERWISE DETERMINED IN THE COURSE OF THE WORK. HAND EXCAVATION WILL BE BY THE ELECTRICAL CONTRACTOR'S PERSONNEL, AND FINAL RESPONSIBILITY FOR THE PERSONNEL'S SAFETY RESTS WITH THE ELECTRICAL CONTRACTOR. SEE ALSO EXCAVATION NOTE #6. WHILE THE CLIENT WILL MAKE THEIR BEST EFFORTS TO LOCATE EXISTING UTILITIES AND TO DE-ENERGIZE AND LOCKOUT EXISTING ADJACENT ELECTRICAL CIRCUITS WHILE WORK IS IN PROGRESS, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE HIS PERSONNEL WITH THE APPROPRIATE INSTRUMENTATION TO CONTINUOUSLY MONITOR THE WORK AREA FOR THE PRESENCE OF LIVE ELECTRICAL WIRING.

SERVICE INSTALLATION NOTES

- SEAL ALL CONDUIT ENDS FOR RODENT AND INSECT CONTROL.
- CT. TYPE METERING. MOUNT METER AT 5' AFF. METER LOCATION AND EQUIPMENT VENDOR SHALL BE APPROVED BY UTILITY COMPANY.
- SUPPLEMENTAL GROUND ELECTRODES SHALL BE 3/4"x10' LONG COPPERWELD GROUND RODS TIED TOGETHER WITH #1/0 SOFT COPPER WIRE. USE EXOTHERMIC WELD CONNECTIONS. SPACE THE GROUND RODS 5' MINIMUM OFF BUILDING AND 10' FROM EACH OTHER.
- SERVICE GROUND TO METALLIC WATER PIPE DOMESTIC SERVICE MAIN. USE APPROVED AND LISTED GROUND CLAMP.
- CONTRACTOR SHALL PROVIDE ALL CONDUIT, REDUCERS, COUPLINGS, FITTINGS, EXPANSION JOINTS, AND HANGERS AS REQUIRED.
- ALL CHARGES AND PERMITS SHALL BE PAID BY THE CONTRACTOR.
- CONTRACTOR SHALL CONTACT UTILITY COMPANY OPERATING PERSONNEL FOR DIRECTION AND EXPLANATION OF ALL WORK TO BE COMPLETED.
- CONTRACTOR TO PROVIDE ASSISTANCE TO UTILITY COMPANY.
- ALL WORK REQUIRING UTILITY PERSONNEL SHALL BE PERFORMED DURING NORMAL WEEKDAY WORKING HOURS (8 A.M. TO 4:30 P.M.)
- UTILITY COMPANY SHALL BE PROVIDED WITH 72 HOURS ADVANCED NOTIFICATION OR AS REQUIRED FOR ANY AND ALL WORK REQUIRING UTILITY PERSONNEL.
- CONTRACTOR SHALL CONTACT UTILITY COMPANIES, FOR 'CALL BEFORE YOU DIG' REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION TO MARK ALL EXISTING UTILITIES.
- CONTRACTOR SHALL PERFORM A SHORT-CIRCUIT STUDY ON NEW SWITCHGEAR. ENSURE THAT THE SHORT-CIRCUIT STUDY TAKES INTO ACCOUNT FAULT CURRENTS FROM THE UTILITY AS WELL AS LARGE MOTORS AND GENERATORS SUPPLIED BY THE SWITCHGEAR. MAKE ALLOWANCES FOR INCREASES IN THE UTILITY SHORT CIRCUIT CONTRIBUTION OVER THE DESIGN LIFE OF THE SWITCHGEAR.

ELECTRICAL GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE (NEC), NATIONAL FIRE CODE (NFPA), STATE BUILDING CODES, CODES AND REQUIREMENTS OF THE LOCAL CITY, AND OWNERS REQUIREMENTS.
- ALL CONDUITS AND EQUIPMENT SHALL BE INSTALLED AND GROUND IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE APPLICABLE LOCAL AND NATIONAL CODES.
- ALL MATERIAL SHALL BE UNDERWRITERS' LABORATORIES LISTED FOR ITS APPLICATION WHERE SUCH LISTING IS APPLICABLE.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
- SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVERS).
- VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILING AND THE LIKE.
- NO CONDUIT SMALLER THAN 3/4", NOR WIRE SIZE SMALLER THAN NO. 12 A.W.G. FOR POWER SHALL BE USED UNLESS OTHERWISE NOTED.
- ALL 120V BRANCH CIRCUITS GREATER THAN 100 LINEAR FEET SHALL BE #10AWG MIN.
- LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.
- SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
- PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES, AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND ON INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.
- COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
- PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
- PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. COMMON BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
- SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
- INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
- FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION. PUTTY PADS SHALL BE INSTALLED AT RECEPTACLES IN FIRE RATED WALLS AS REQUIRED BY CODE.
- ALL CIRCUIT NUMBERS INDICATED ON PLANS ARE FOR CLARITY ONLY, FIELD CONDITIONS PREVAIL.
- ALL TERMINATION LUGS SHALL BE SIZED ACCORDINGLY TO ACCOMMODATE INDICATED CONDUCTORS.
- CONTRACTOR SHALL TEST AND BALANCE ELECTRICAL PANELS ASSOCIATED WITH NEW WORK TO A MAXIMUM IMBALANCE OF 10%.
- ALL CUTTING AND PATCHING SHALL BE FULLY COORDINATED WITH THE GENERAL CONTRACTOR.
- PANEL DIRECTORIES SHALL BE UPDATED TO CONFORM TO WORK COMPLETED UNDER THIS CONTRACT. UPDATED DIRECTORIES TO BE TYPE-WRITTEN.
- UPON COMPLETION OF THE WORK, THREE MARKED UP SETS OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE OWNER.
- ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK PRIOR TO SUBMISSION OF A PROPOSAL.
- THE CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILING, PLASTER, PARTITIONS, WALLS, ETC., AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS.
- CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELING ON ELECTRICAL EQUIPMENT AS REQUIRED BY NEC 2017 ARTICLE 110.16 AND 110.24.

ELECTRICAL DEMOLITION NOTES

- THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF ELECTRICAL WORK AS DESCRIBED IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORSEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT WHERE CONSIDERED JUSTIFIABLE BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS IN FULL COORDINATION WITH THE ENGINEER'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY.
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL LIGHTING, RECEPTACLES SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUITS, ETC., FROM PARTITIONS OR CEILING THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD.
- ALL REUSED RACEWAYS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- ALL UNUSED CONCEALED OUTLET BOXES OR FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.
- EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.
- PORTIONS OF FEEDER RUNS TO BE REMOVED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS, CABLE TYPE, CONDUCTOR AMPACITY, CONDUIT SIZES, ETC.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW CLOSELY THE ENGINEER'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR, AS DIRECTED BY THE OWNER.
- EXISTING CONDUITS ROUTED IN SLAB AND TURNING OUT OF SLAB SHALL BE CUT BACK TO 1" INTO SLAB AND OPENING PATCHED.
- ALL EXISTING UNUSED WIRING SHALL BE DISCONNECTED AT EACH END AND REMOVED.
- CONTRACTOR SHALL DISCONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING TAKEN OUT OF OPERATION. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO DEMOLITION.
- CONTRACTOR SHALL REMOVE THE EXISTING ELECTRICAL SERVICE AND ELECTRICAL SERVICE EQUIPMENT AT THE BUILDING. CONTRACTOR SHALL REMOVE ALL THE EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT IN THE BUILDING. ALL CONDUIT AND WIRING SHALL BE REMOVED BACK TO SOURCE. EXISTING TRANSFORMER VAULT INSIDE OF BUILDING SHALL BE REMOVED. COORDINATE ALL WORK WITH UTILITY COMPANY.

ELECTRICAL DRAWING INDEX

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CONNECTICUT
All Heart
111 NORTH MAIN ST
BRISTOL, CT

Issuances:

Date: March 15th, 2021
Scale: NONE
Project No. 2K20.002 Drawn by: TL

E0.01
ELECTRICAL
NOTES

ELECTRICAL LIGHTING LEGEND

	'a'	-	FIXTURE CONTROLLED BY SWITCH/OCCUPANCY SENSOR
	'1'	-	DENOTES CIRCUIT NUMBER
	'EM'	-	DENOTES LIGHT FIXTURE CONNECTED TO EMERGENCY GENERATOR SYSTEM
	'NL'	-	DENOTES UNSWITCHED NIGHT LIGHT

REFER TO THIS DRAWING FOR LIGHTING SPECIFICATIONS FOR ALL FIXTURES. COORDINATE ALL WORK INCLUDING ALL LIGHT FIXTURE SPECIFICATIONS WITH ARCHITECTURAL DRAWINGS.

		NEW CEILING MOUNTED EDGE-LIT LED EXIT SIGN WITH BATTERY PACK. DIRECTIONAL ARROWS AS INDICATED ON PLANS. SHADED AREAS INDICATE ILLUMINATED FACE/FACES. DUAL-LITE LES SERIES MODEL#: 'LESCSRXNA' OR APPROVED EQUAL.
		NEW WALL MOUNTED EDGE-LIT LED EXIT SIGN WITH BATTERY PACK. DIRECTIONAL ARROWS AS INDICATED ON PLANS. SHADED AREAS INDICATE ILLUMINATED FACE/FACES. DUAL-LITE LES SERIES MODEL#: 'LESCSRXNA' OR APPROVED EQUAL.
		NEW EDGE-LIT CONNECTICUT APPROVED LED EXIT SIGN WITH WHEELCHAIR SYMBOL. DIRECTIONAL ARROWS AS INDICATED ON PLANS. ISOLITE MODEL#: 'EU-CT-EM-R-DSA-1C-WH-MBC' OR APPROVED EQUAL.
		NEW EXTERIOR EMERGENCY REMOTE HEAD. PROVIDE POWER FROM INTERIOR EXIT SIGN. DUAL-LITE MODEL#: 'EVO-D-W' OR APPROVED EQUAL.
		NEW CEILING MOUNTED VACANCY SENSOR INFRARED/ULTRASONIC DUAL TECHNOLOGY COMPATIBLE WITH DAYLIGHT HARVESTING ROOM CONTROLLER. HUBBELL #NXOS-QMDT2R OR APPROVED EQUAL. 'a' - CONTROLS LIGHTING FIXTURES DESIGNATED 'a'
		NEW CEILING MOUNTED DAYLIGHT SENSOR COMPATIBLE WITH DAYLIGHT HARVESTING ROOM CONTROLLER TO CONTROL ALL LIGHT FIXTURES IN THE AREA/ROOM LOCATED IN THE DAYLIGHT ZONE PER 2015 IECC C405.2.2.3. HUBBELL #NXDS OR APPROVED EQUAL.
		NEW CEILING MOUNTED VACANCY SENSOR OVERRIDE SWITCH. PROVIDE ROOM CONTROLLER COMPATIBLE OVERRIDE SWITCH FOR ALL ROOMS EQUIPPED WITH A LIGHTING CONTROL ROOM CONTROLLER. 'a' - CONTROLS LIGHTING FIXTURES DESIGNATED 'a'
		NEW WALL MOUNTED VACANCY SENSOR INFRARED/ULTRASONIC DUAL TECHNOLOGY WITH MANUAL SWITCH. HUBBELL #LIGHTHAWK2 OR APPROVED EQUAL. 'a' - CONTROLS LIGHTING FIXTURES DESIGNATED 'a'
		NEW WALL MOUNTED VACANCY SENSOR INFRARED/ULTRASONIC DUAL TECHNOLOGY WITH DIMMING. HUBBELL LIGHTHAWK MODEL: 'LHDMTS-2-N-WH' OR APPROVED EQUAL. 'a' - CONTROLS LIGHTING FIXTURES DESIGNATED 'a'
		NEW WALL MOUNTED DIMMER SWITCH. 'a' - CONTROLS LIGHTING FIXTURES DESIGNATED 'a'
		NEW WALL MOUNTED LIGHT SWITCH '3' - DENOTES THREE WAY SWITCH 'a' - CONTROLS LIGHTING FIXTURES DESIGNATED 'a'

ELECTRICAL POWER LEGEND

		NEW WALL MOUNTED 20A, 120V DUPLEX RECEPTACLE. 'GFI' - DENOTES GROUND FAULT INTERRUPTER '+XX' - DENOTES MOUNTING HEIGHT 'XX' AFF. '1' - DENOTES CIRCUIT NUMBER
		NEW DEDICATED WALL MOUNTED 20A, 120V DUPLEX RECEPTACLE. '+XX' - DENOTES MOUNTING HEIGHT 'XX' AFF. '1' - DENOTES CIRCUIT NUMBER
		NEW WALL MOUNTED 20A, 120V QUADRUPLUX RECEPTACLE. 'GFI' - DENOTES GROUND FAULT INTERRUPTER '+XX' - DENOTES MOUNTING HEIGHT 'XX' AFF. '1' - DENOTES CIRCUIT NUMBER
		NEW WALL MOUNTED 208V NEMA RECEPTACLE. '20A' - DENOTES DEVICE AMPERAGE RATING. '+XX' - DENOTES MOUNTING HEIGHT 'XX' AFF.
		NEW WALL MOUNTED TAMPER RESISTANT 20A, 120V DUPLEX RECEPTACLE WITH USB PORTS. HUBBELL USB20A5W OR APPROVED EQUAL. '+XX' - DENOTES MOUNTING HEIGHT 'XX' AFF. '1' - DENOTES CIRCUIT NUMBER
		NEW RECESSED FLUSH POKE-THRU DEVICE TO PROVIDE POWER, COMMUNICATION, AND A/V FEEDS TO NEW CONFERENCE TABLE. COORDINATE EXACT LOCATION WITH FURNITURE VENDOR. WIREMOLD MODEL#: '6ATC2PBK' OR APPROVED EQUAL.
		NEW RECESSED FLUSH POKE-THRU DEVICE TO PROVIDE POWER AND COMMUNICATION FEEDS TO NEW CONFERENCE TABLE. COORDINATE EXACT LOCATION WITH FURNITURE VENDOR. WIREMOLD MODEL#: 'RC4ATC' OR APPROVED EQUAL.
		NEW RECESSED FLUSH FLOORBOX TO PROVIDE POWER, COMMUNICATION, AND A/V FEEDS TO NEW CONFERENCE TABLE. CONTRACTOR SHALL TRENCH CONCRETE FLOOR TO INSTALL NEW FLOOR BOX. COORDINATE EXACT LOCATION WITH FURNITURE VENDOR. WIREMOLD MODEL#: 'RFB9A/V' OR APPROVED EQUAL.
		NEW RECESSED FLUSH FLOORBOX TO PROVIDE POWER AND COMMUNICATION FEEDS TO NEW CONFERENCE TABLE. CONTRACTOR SHALL TRENCH CONCRETE FLOOR TO INSTALL NEW FLOOR BOX. COORDINATE EXACT LOCATION WITH FURNITURE VENDOR. WIREMOLD MODEL#: 'RFB6S' OR APPROVED EQUAL.
		NEW WALL MOUNTED POWER AND COMMUNICATION FEEDS FOR FURNITURE SYSTEMS. EXACT LOCATIONS TBD BY FURNITURE VENDOR. RUN A 1-1/4" CONDUIT FOR TELE/DATA FROM FURNITURE FEED TO 6" ABOVE NEAREST ACCESSIBLE CEILING WITH GROMMETTED END. STANDARD JUNCTION BOX, STUB-UPS & PULL STRINGS BY ELECTRICAL CONTRACTOR. COMMUNICATIONS CONTRACTOR TO SUPPLY AND INSTALL CABLING AND FACEPLATES AT TERMINATION POINTS.
		NEW RECESSED FLUSH FLOOR MOUNTED POWER AND COMMUNICATION FEEDS TO NEW FURNITURE SYSTEM. COORDINATE EXACT LOCATION WITH FURNITURE VENDOR / ARCHITECT. REQUIRES CORE DRILLING. MAY REQUIRE X-RAY PRIOR TO DRILLING. WIREMOLD MODEL#: '4FATCBK' OR APPROVED EQUAL.
		NEW RECESSED 4-GANG FLUSH WALL BOX DEVICE TO PROVIDE POWER, COMMUNICATION, AND A/V FEEDS TO NEW WALL MOUNTED MONITOR. RUN A 3/4" CONDUIT FOR POWER FROM WALL BOX TO CONFERENCE ROOM POKE-THRU DEVICE. RUN A 1-1/4" CONDUIT FOR TELE/DATA FROM WALL BOX TO 6" ABOVE NEAREST ACCESSIBLE CEILING WITH GROMMETTED END. ALSO RUN A 1-1/4" CONDUIT TO CONFERENCE ROOM POKE-THRU DEVICE. RUN A 1-1/4" CONDUIT FOR A/V FROM WALL BOX TO 6" ABOVE NEAREST ACCESSIBLE CEILING WITH GROMMETTED END. ALSO RUN A 1-1/4" CONDUIT TO CONFERENCE ROOM POKE-THRU DEVICE. COORDINATE EXACT MOUNTING HEIGHT OF WALL BOX WITH HEIGHT OF MONITOR IN FIELD. WIREMOLD MODEL#: 'EFSB4' OR APPROVED EQUAL. COORDINATE ALL WORK WITH I.T. AND A/V VENDOR.
		NEW WALL MOUNTED VOICE/DATA DEVICE WITH 1" C. STUBBED UP TO 6" ABOVE NEAREST ACCESSIBLE FINISH CEILING. '+XX' - DENOTES MOUNTING HEIGHT 'XX' AFF.
		CEILING MOUNTED WIRELESS ACCESS POINT. RUN (1) CATEGORY 6 CABLE (PLENUM RATED) FROM OUTLET TO SERVER ROOM AND TERMINATE ON WIRELESS CONTROLLER (BY OTHERS).
		NEW CABLE TELEVISION OUTLET WITH 1" C. STUBBED UP TO 6" ABOVE FINISH CEILING. '+XX' - DENOTES MOUNTING HEIGHT 'XX' AFF
		NEW BRANCH CIRCUIT HOMERUN TO ELECTRIC PANEL. HALF ARROWS INDICATE NUMBER OF CIRCUITS.
		NEW WALL MOUNTED JUNCTION BOX SIZED PER NEC.
		NEW SWITCH WITH THERMAL OVERLOAD PROTECTION FOR FRACTIONAL HORSEPOWER MOTORS.
		NEW UNFUSED DISCONNECT SWITCH 30/3 - DENOTES 30 AMP/3-POLE SWITCH
		NEW FUSED DISCONNECT SWITCH 30/20/3 - DENOTES 30 AMP/20 AMP FUSE/3-POLE SWITCH
		NEW MOTORIZED DAMPER. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
		NEW CARD READER. COORDINATE WITH TENANT'S SECURITY VENDOR. PROVIDE ELECTRIC STRIKE. REFER TO DRAWING E4.02 FOR 'TYPICAL DOOR LAYOUT FOR SECURITY SYSTEM' DETAIL.
		NEW CALL-FOR-AID DEVICE WITH INTEGRAL TRANSFORMER. EDWARDS SYSTEM TECHNOLOGY MODEL #6538-GS OR APPROVED EQUAL. REFER TO DRAWING E4.02 FOR 'CALL-FOR-AID WIRING DIAGRAM'.
		NEW COPPER GROUND BUS. REFER TO DRAWING E4.02 FOR 'COPPER GROUND BUS DETAIL'.
		NEW MAGNETIC DOOR-HOLD DEVICE. PROVIDE POWER TO DEVICE FROM SECURITY SYSTEM CIRCUIT. PROVIDE CONNECTION TO FIRE ALARM SYSTEM FOR DOOR RELEASE AT ALARM.
		NEW DOOR-ACCESS OPERATOR AND WIRELESS HANDICAP PUSH BUTTON CONTROLLER. STANLEY MAGIC-ACCESS OPERATOR. SYSTEM SHALL BE INSTALLED PER MANUFACTURERS'S SPECIFICATIONS.

FIRE ALARM LEGEND

		NEW FIRE ALARM MANUAL PULL STATION; MOUNT AT 48" AFF.
		NEW FIRE ALARM SYSTEM AUDIO/VISUAL ALARM; MOUNT AT 80" AFF.
		NEW FIRE ALARM SYSTEM VISUAL ALARM; MOUNT AT 80" AFF.
		NEW SYSTEM TYPE AUTOMATIC FIRE ALARM SMOKE DETECTOR.
		NEW SYSTEM TYPE SMOKE DETECTOR TIED INTO ELEVATOR RECALL.
		NEW SYSTEM TYPE SMOKE DETECTOR MOUNTED AT TOP OF SHAFT.
		NEW SYSTEM TYPE FIRE ALARM HEAT DETECTOR.
		NEW SYSTEM TYPE FIRE DUCT MOUNTED ALARM SMOKE DETECTOR. COORDINATE WITH MECHANICAL CONTRACTOR.
		NEW SYSTEM TYPE AUTOMATIC FIRE ALARM CARBON MONOXIDE DETECTOR.
		FIRE ALARM BELL; 120 VOLT HARDWIRED, EXTERIOR MOUNTED, WEATHERPROOF.
		RED INDICATING BEACON, EXTERIOR MOUNTED, WEATHERPROOF.
		NEW FIRE DEPARTMENT KEY BOX.
		NEW FIRE ALARM CONTROL PANEL.
		NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL.
		NEW SPRINKLER WATER FLOW SWITCH FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT NUMBER AND LOCATION OF DEVICES IN THE FIELD. COORDINATE ALL WORK WITH FIRE PROTECTION CONTRACTOR.
		NEW SPRINKLER TAMPER SWITCH FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT NUMBER AND LOCATION OF DEVICES IN THE FIELD. COORDINATE ALL WORK WITH FIRE PROTECTION CONTRACTOR.
		NEW CONTROL MODULE.
		NEW MONITOR MODULE.
		NEW FIRE ALARM DOOR HOLDBACK DEVICE.
		NEW FIRE/SMOKE DAMPER.
		NEW END OF LINE RESISTOR.

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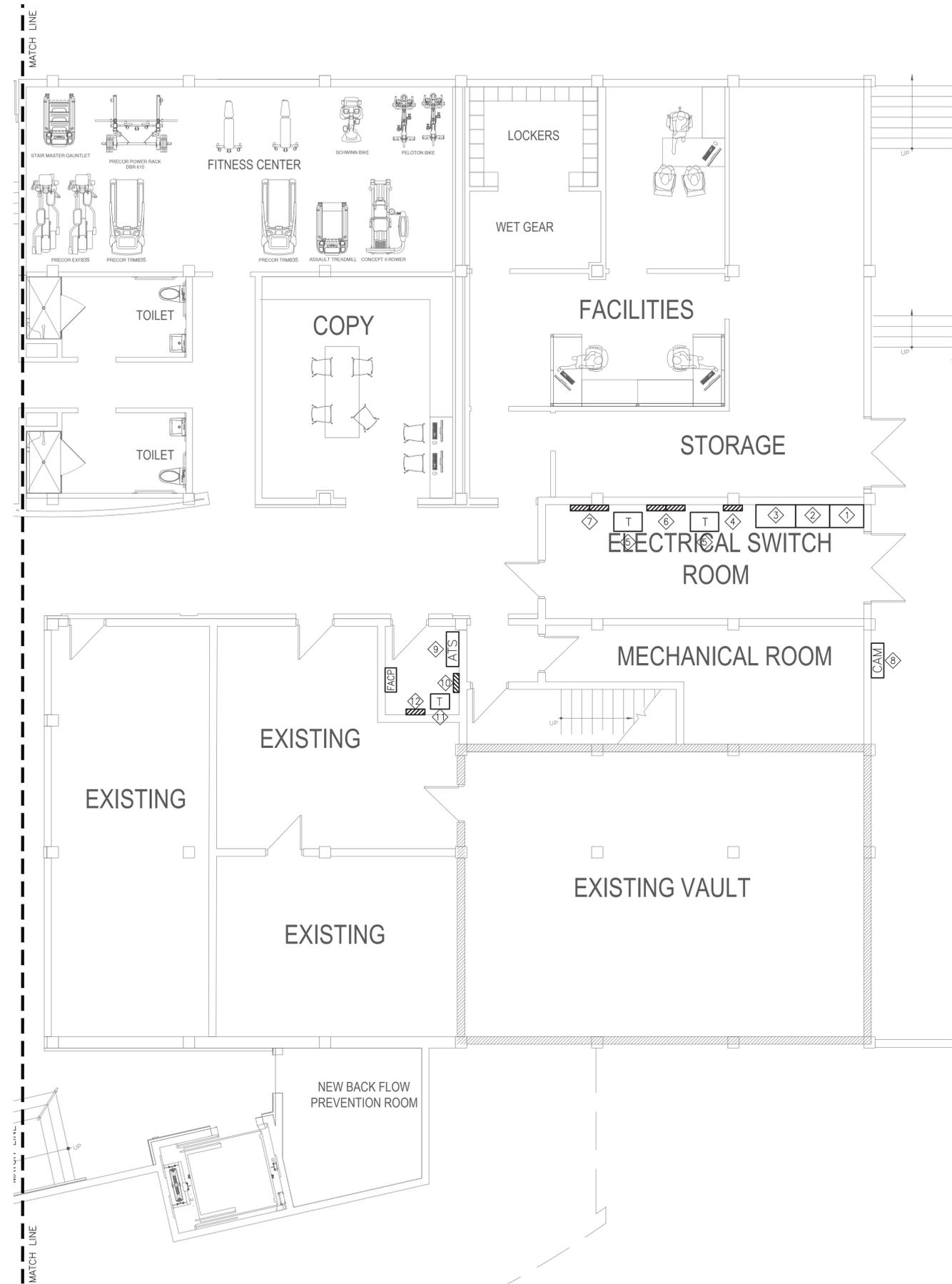
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INTERIOR RENOVATIONS FOR:
Bristol
CONNECTICUT
All Heart
111 NORTH MAIN ST
BRISTOL, CT

Issuances:

Date: March 15th, 2021
Scale: NONE
Project No. 2K20.002 | Drawn by: TL

E0.02
ELECTRICAL
LEGEND



1 GRD. FLOOR ELECTRICAL POWER PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL POWER NOTES

1. CONTRACTOR SHALL REFER TO DRAWING E0.01 FOR DEMOLITION NOTES. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH ARCHITECTURAL DRAWINGS.
2. REFER TO DRAWING E3.02 FOR FIRE ALARM RISER DIAGRAM AND NOTES.
3. CIRCUIT NUMBERS ARE FOR DIAGRAMMATIC PURPOSE ONLY.
4. ALL ELECTRICAL DEVICES SHALL BE MOUNTED 18" AFF, U.O.N.
5. CONTRACTOR SHALL CIRCUIT (2)#12+#12 GRD. IN 3/4"C. TO PANEL AND CIRCUIT INDICATED, UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL RUN 1" EMPTY CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING WITH GROMMETED END FITTING FOR TELEPHONE/DATA DEVICE LOCATION. PROVIDE DRAG LINES FOR EMPTY CONDUIT.
7. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF ALL BRANCH CIRCUITING TO ELECTRICAL DEVICES TO REMAIN. ELECTRICAL CONTRACTOR SHALL EXTEND AND RECONNECT ANY BRANCH CIRCUITING THAT BECOME DISCONNECTED DUE TO DEMOLITION.
8. CONTRACTOR TO REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION AND EXACT REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. CONTRACTOR TO COORDINATE ALL WORK WITH MECHANICAL AND PLUMBING CONTRACTORS AND WITH EQUIPMENT SPECIFICATIONS.
9. SECURITY DEVICES LOCATIONS SHOWN ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATION AND QUANTITY OF ALL DEVICES WITH SECURITY CONSULTANT AND ARCHITECT.

ELECTRICAL KEYNOTES

- 1 NEW 1600A, 480V PULL BOX
- 2 NEW 1600A, 480V, 3Ø, 4W. COMBINATION CT CABINET/SERVICE SWITCH.
- 3 NEW MAIN DISTRIBUTION PANEL 'MDP' 1600A, 480V, 3Ø, 4W.
- 4 NEW PANEL 'HPG' 400A, 277/480V, 3Ø, 4W., 42-POLE.
- 5 NEW 75 KVA STEP-DOWN TRANSFORMER.
- 6 NEW PANEL 'LPGA' 200A, 120/208V, 3Ø, 4W., 84-POLE, 2-SECTION.
- 7 NEW PANEL 'LPGB' 200A, 120/208V, 3Ø, 4W., 84-POLE, 2-SECTION.
- 8 NEW COMBINATION CAM LOCK BOX/MANUAL TRANSFER SWITCH WITH LOAD BANK TESTING CONNECTION IN NEMA 3R ENCLOSURE WITH 200A, 480V CAPABLE CAM LOCK CONNECTIONS. REFER TO DRAWING E4.03 FOR 'COMBINATION CAM LOCK/MANUAL TRANSFER SWITCH ONE-LINE DIAGRAM'.
- 9 NEW LIFE-SAFETY AUTOMATIC TRANSFER SWITCH (ATS), 200A, 480V, 3Ø, 4W., 4-POLE.
- 10 NEW EMERGENCY PANEL 'EHP', 200A, 480V, 3Ø, 4W.
- 11 NEW 30 KVA TRANSFORMER.
- 12 NEW EMERGENCY PANEL 'ELP', 100A, 208V, 3Ø, 4W.

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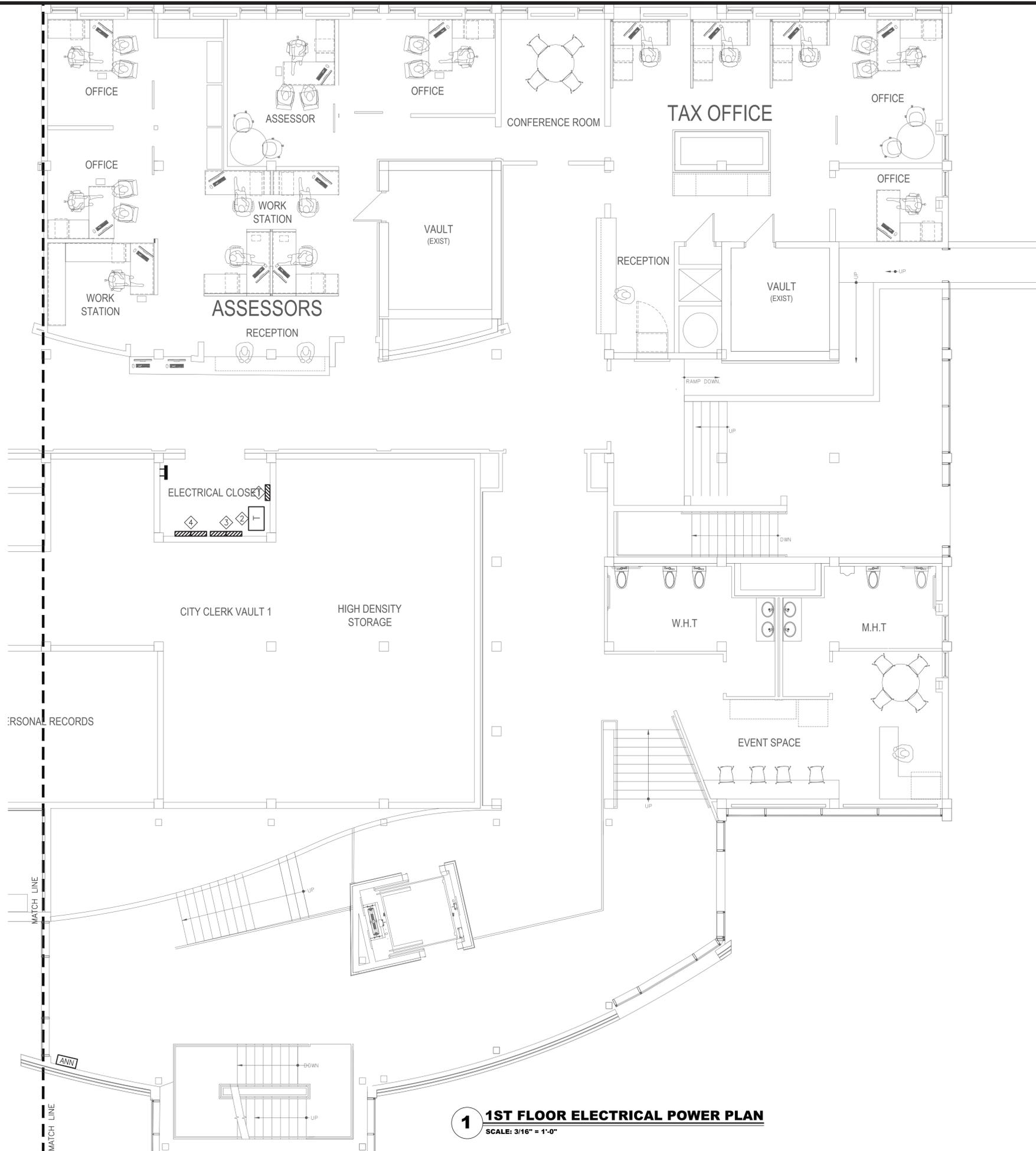
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INTERIOR RENOVATIONS FOR:
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All Heart
111 NORTH MAIN ST
BRISTOL, CT

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E2.02
GROUND FLOOR
ELECTRICAL
POWER PLAN
(2 OF 2)



ELECTRICAL POWER NOTES

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9. SECURITY DEVICES LOCATIONS SHOWN ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATION AND QUANTITY OF ALL DEVICES WITH SECURITY CONSULTANT AND ARCHITECT.

ELECTRICAL KEYNOTES

- ◆ NEW PANEL 'HP1' 400A, 277/480V, 3ø, 4W., 42-POLE.
- ◆ TWO (2) NEW 75 KVA STEP-DOWN TRANSFORMERS WITH ONE TRANSFORMER TRAPEZE MOUNTED ABOVE THE OTHER.
- ◆ NEW PANEL 'LP1A' 200A, 120/208V, 3ø, 4W., 84-POLE, 2-SECTION.
- ◆ NEW PANEL 'LP1B' 200A, 120/208V, 3ø, 4W., 84-POLE, 2-SECTION.

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

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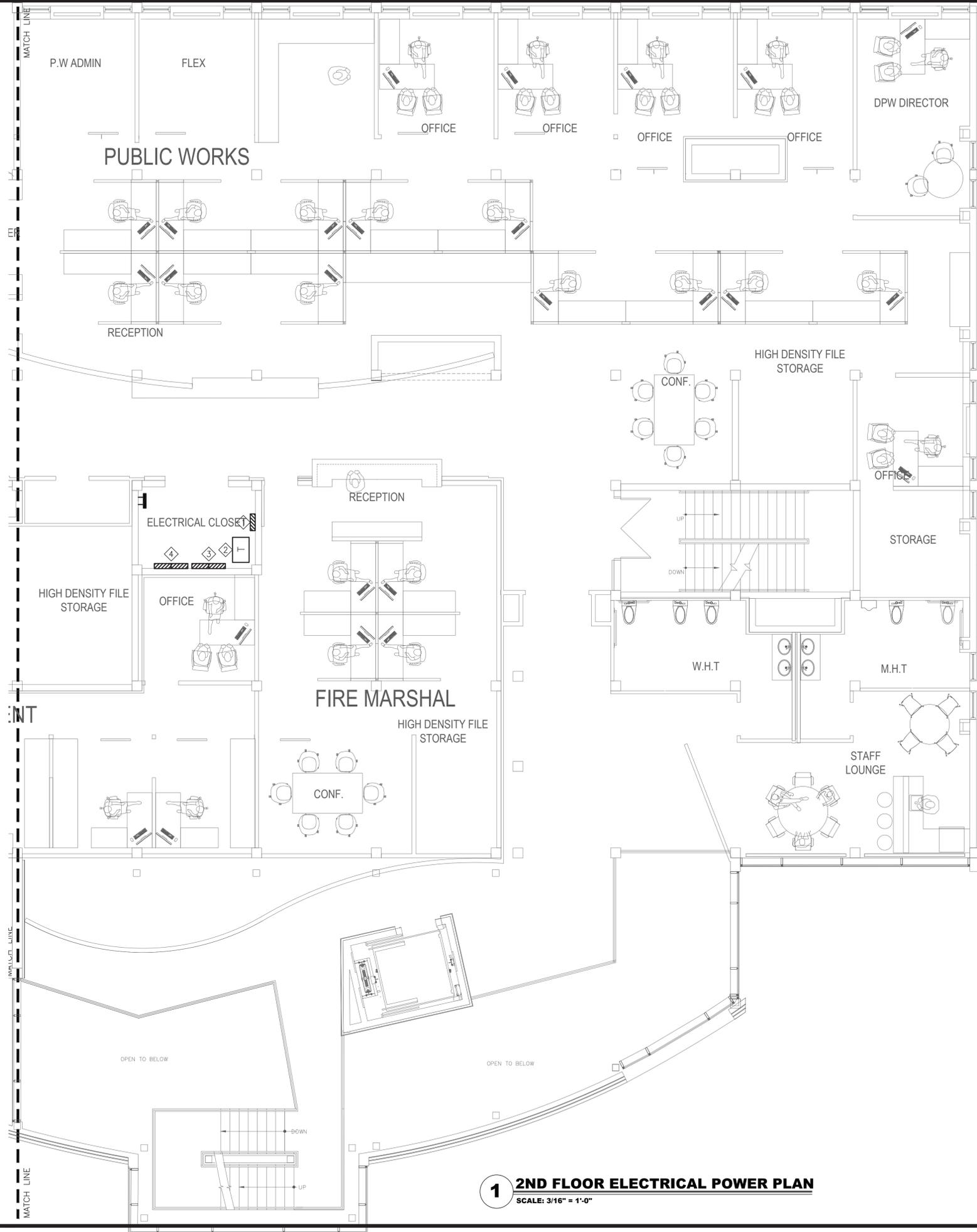
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INTERIOR RENOVATIONS FOR:

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1 2ND FLOOR ELECTRICAL POWER PLAN
SCALE: 3/16" = 1'-0"

ELECTRICAL POWER NOTES

1. CONTRACTOR SHALL REFER TO DRAWING E0.01 FOR DEMOLITION NOTES. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH ARCHITECTURAL DRAWINGS.
2. REFER TO DRAWING E3.02 FOR FIRE ALARM RISER DIAGRAM AND NOTES.
3. CIRCUIT NUMBERS ARE FOR DIAGRAMMATIC PURPOSE ONLY.
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5. CONTRACTOR SHALL CIRCUIT (2)#12-#12 GRD. IN 3/4" C. TO PANEL AND CIRCUIT INDICATED, UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL RUN 1" EMPTY CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING WITH GROMMETED END FITTING FOR TELEPHONE/DATA DEVICE LOCATION. PROVIDE DRAG LINES FOR EMPTY CONDUIT.
7. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF ALL BRANCH CIRCUITING TO ELECTRICAL DEVICES TO REMAIN. ELECTRICAL CONTRACTOR SHALL EXTEND AND RECONNECT ANY BRANCH CIRCUITING THAT BECOME DISCONNECTED DUE TO DEMOLITION.
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9. SECURITY DEVICES LOCATIONS SHOWN ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATION AND QUANTITY OF ALL DEVICES WITH SECURITY CONSULTANT AND ARCHITECT.

ELECTRICAL KEYNOTES

- ◆ NEW PANEL 'HP1' 400A, 277/480V, 3ø, 4W., 42-POLE.
- ◆ TWO (2) NEW 75 KVA STEP-DOWN TRANSFORMERS WITH ONE TRANSFORMER TRAPEZE MOUNTED ABOVE THE OTHER.
- ◆ NEW PANEL 'LP2A' 200A, 120/208V, 3ø, 4W., 84-POLE, 2-SECTION.
- ◆ NEW PANEL 'LP2B' 200A, 120/208V, 3ø, 4W., 84-POLE, 2-SECTION.

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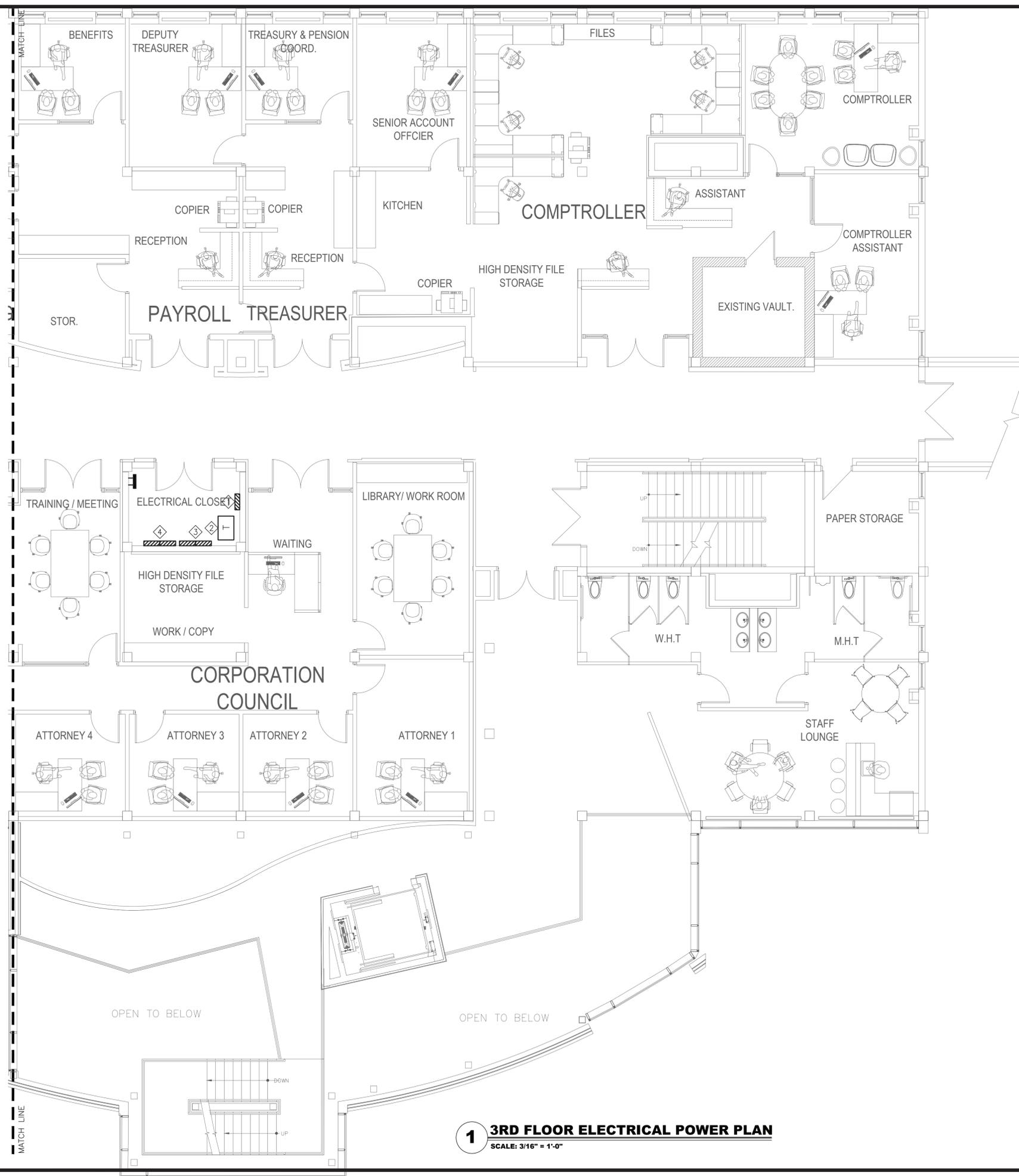
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INTERIOR RENOVATIONS FOR:
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E2.22
SECOND FLOOR
ELECTRICAL
POWER PLAN
(2 OF 2)



ELECTRICAL POWER NOTES

1. CONTRACTOR SHALL REFER TO DRAWING E0.01 FOR DEMOLITION NOTES. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH ARCHITECTURAL DRAWINGS.
2. REFER TO DRAWING E3.02 FOR FIRE ALARM RISER DIAGRAM AND NOTES.
3. CIRCUIT NUMBERS ARE FOR DIAGRAMMATIC PURPOSE ONLY.
4. ALL ELECTRICAL DEVICES SHALL BE MOUNTED 18" AFF, U.O.N.
5. CONTRACTOR SHALL CIRCUIT (2)#12+12 GRD. IN 3/4" C. TO PANEL AND CIRCUIT INDICATED, UNLESS OTHERWISE NOTED.
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9. SECURITY DEVICES LOCATIONS SHOWN ARE FOR REFERENCE ONLY. COORDINATE EXACT LOCATION AND QUANTITY OF ALL DEVICES WITH SECURITY CONSULTANT AND ARCHITECT.

ELECTRICAL KEYNOTES

- ① NEW PANEL 'HP3' 400A, 277/480V, 3Ø, 4W., 42-POLE.
- ② TWO (2) NEW 75 KVA STEP-DOWN TRANSFORMERS WITH ONE TRANSFORMER TRAPEZE MOUNTED ABOVE THE OTHER.
- ③ NEW PANEL 'LP3A' 200A, 120/208V, 3Ø, 4W., 84-POLE, 2-SECTION.
- ④ NEW PANEL 'LP3B' 200A, 120/208V, 3Ø, 4W., 84-POLE, 2-SECTION.

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

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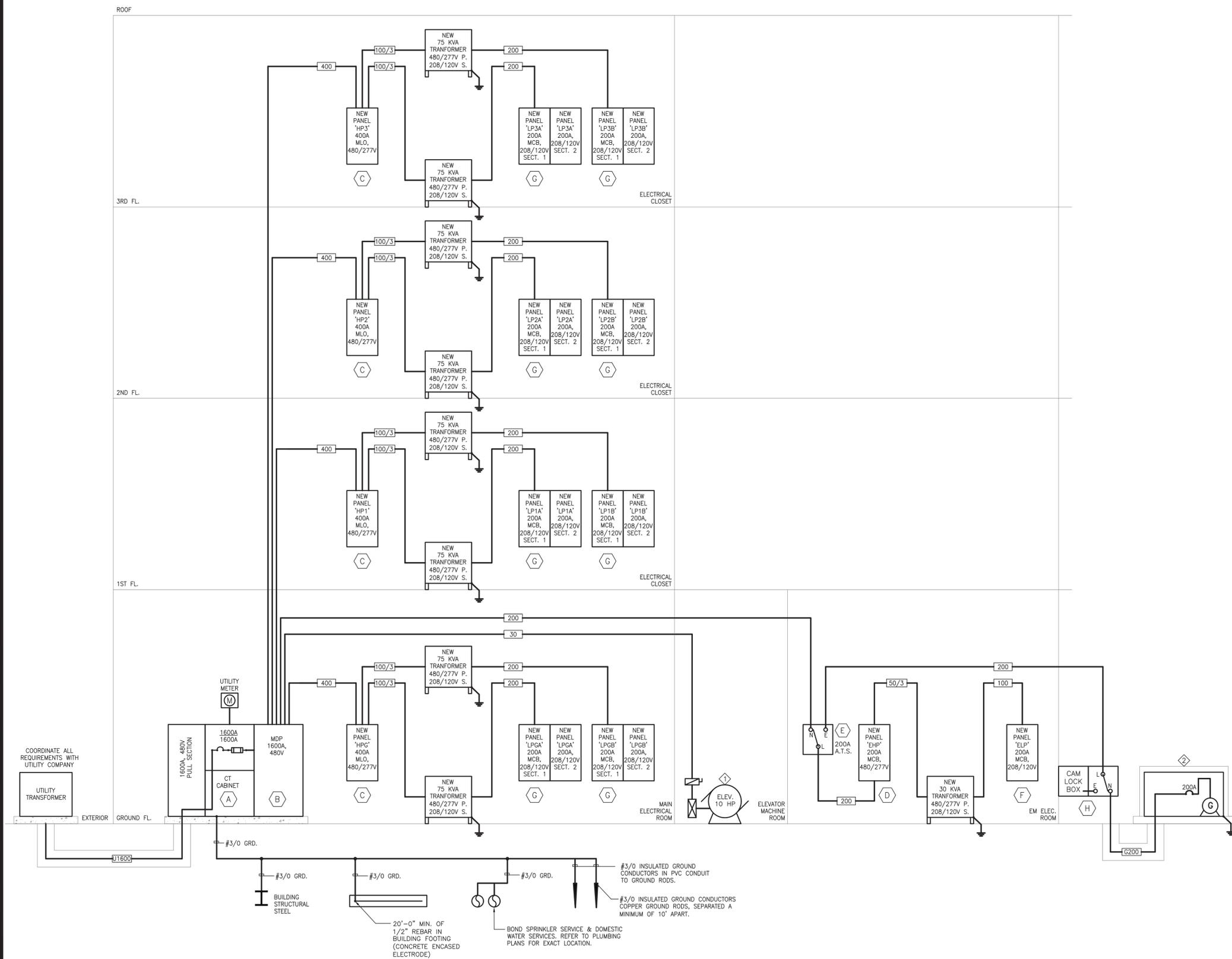
INTERIOR RENOVATIONS FOR:

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E2.32
THIRD FLOOR
ELECTRICAL
POWER PLAN
(2 OF 2)



1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

- ### ELECTRICAL RISER DIAGRAM NOTES
- REFER TO DRAWING E001 FOR ELECTRICAL GENERAL NOTES AND EXCAVATION NOTES.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE CODES.
 - CONTRACTOR SHALL RUN A 1" CONDUIT WITH DRAG LINE FOR CONTROL WIRING FROM THE EMERGENCY GENERATOR TO THE ATS AND TO THE REMOTE ANNUNCIATOR PANEL. GENERATOR REMOTE ANNUNCIATOR SHALL BE LOCATED IN SECURITY OFFICE BY FRONT ENTRANCE.
 - REFER TO DRAWING E303 FOR GROUNDING DETAILS.
 - CONTRACTOR SHALL PROVIDE POWER TO ALL REQUIRED 120V GENERATOR CIRCUITS FROM PANEL 'ELP'. COORDINATE ALL REQUIREMENTS WITH GENERATOR VENDOR.
 - CONTRACTOR SHALL PLACE A SIGN AT THE SERVICE ENTRANCE INDICATING TYPE AND LOCATION OF THE EMERGENCY GENERATOR.
 - GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY EXOTHERMIC WELDING OR LISTED PRESSURE CONNECTORS (COMPRESSION TYPE).
 - PROVIDE FIELD MARKING OF AVAILABLE FAULT CURRENT AT ALL SERVICE EQUIPMENT AS REQUIRED BY NEC 110.24.

- ### ELECTRICAL RISER KEYNOTES
- COORDINATE EXACT ELEVATOR HORSE POWER, ASSOCIATED BREAKER SIZE AND WIRE SIZE WITH ELEVATOR COMPANY (10 HP APPROXIMATE). PROVIDE A SHUNT-TRIP TYPE BREAKER FOR INTERLOCK WITH SPRINKLER SYSTEM AND HEAT DETECTOR FOR POWER SHUT-DOWN.
 - NEW OUTDOOR 150KW, 480V, 3Ø, DIESEL FIRED EMERGENCY GENERATOR IN A SOUND ATTENUATED ENCLOSURE. EMERGENCY GENERATOR TO BE A GENERAC SD150 OR APPROVED EQUAL. COORDINATE INSTALLATION WITH GENERATOR VENDOR. GENERATOR SHALL BE GROUNDED AS A SEPARATELY DERIVED SYSTEM. SEE DRAWING E303 FOR GENERATOR GROUNDING DETAIL. SEE RISER NOTES #3, #5, & #6.

- ### SWITCHGEAR SPECIFICATIONS
- A** 1600A, 480/277V, 3-PHASE, 4-WIRE COMBINATION MAIN SERVICE SWITCH / CT CABINET WITH GROUND FAULT PROTECTION PER NEC 230.95 & 240.13 AND WITH UNDERGROUND PULL SECTION, RATED 100,000 A.I.C. SIEMENS SB2 TYPE SWITCHBOARD OR APPROVED EQUAL. MAIN SERVICE SWITCH SHALL BE SPECIFIED WITH SIEMENS SM8RT DAS CONTROLLER TO MEET NEC 240.87 REQUIREMENTS OR APPROVED EQUAL.
 - B** 1600A, 480/277V, 3-PHASE, 4-WIRE MAIN LUG ONLY MAIN DISTRIBUTION PANEL 'MDP'. PROVIDE COPPER BUS CONSTRUCTION WITH NEUTRAL AND GROUND KIT, RATED 100,000 A.I.C. SIEMENS SB2 TYPE SWITCHBOARD OR APPROVED EQUAL.
 - C** 400A MLO, 480/277V, 3-PHASE, 4-WIRE, 42-POLE PANEL. PROVIDE COPPER BUS CONSTRUCTION WITH NEUTRAL AND GROUND KIT, A.I.C. RATED AS NOTED ON PANEL SCHEDULES. SIEMENS TYPE 'P2' PANELBOARD OR APPROVED EQUAL.
 - D** 225A MCB, 480/277V, 3-PHASE, 4-WIRE, 42-POLE PANEL. PROVIDE COPPER BUS CONSTRUCTION WITH NEUTRAL AND GROUND KIT, A.I.C. RATED AS NOTED ON PANEL SCHEDULES. SIEMENS TYPE 'P2' PANELBOARD OR APPROVED EQUAL.
 - E** 200A, 277/480V, 4-POLE, 3-PHASE, 4-WIRE AUTOMATIC TRANSFER SWITCH, RATED 65,000 A.I.C. ASCO '300-B-3-200-N-1-C' OR APPROVED EQUAL. COORDINATE ALL WORK WITH GENERATOR VENDOR.
 - F** 100A MCB, 208/120V, 3-PHASE, 4-WIRE, 42-POLE PANEL. PROVIDE COPPER BUS CONSTRUCTION WITH NEUTRAL AND GROUND KIT, A.I.C. RATED AS NOTED ON PANEL SCHEDULES. SIEMENS TYPE 'P2' PANELBOARD OR APPROVED EQUAL.
 - G** 225A MCB, 208/120V, 3-PHASE, 4-WIRE, 84-POLE PANEL. PROVIDE COPPER BUS CONSTRUCTION WITH NEUTRAL AND GROUND KIT, A.I.C. RATED AS NOTED ON PANEL SCHEDULES. SIEMENS TYPE 'P2' PANELBOARD OR APPROVED EQUAL.
 - H** NEW COMBINATION CAM LOCK BOX/MANUAL TRANSFER SWITCH WITH LOAD BANK TESTING CONNECTION. FOXFAB POWER SOLUTIONS MODEL#: FFCC-S1-14-B-200T480-200T480-200T480-200T480-ALU-LB OR APPROVED EQUAL. NEMA 3R ENCLOSURE WITH 200A, 480V CAPABLE CAM LOCK CONNECTIONS. REFER TO DRAWING E4.03 FOR 'COMBINATION CAM LOCK/MANUAL TRANSFER SWITCH ONE-LINE DIAGRAM'.

- ### FEEDER LEGEND
- U1600** (4) SETS OF: ((4)600MCM IN 4"PVC.)
 - G200** (4)3/0 + #6 GRD. IN 3"PVC ROUTED AT LEAST 24" UNDERGROUND.
 - 400** (4)600MCM + #3 GRD. IN 4".
 - 200** (4)3/0 + #6 GRD. IN 2".
 - 100** (4)#3 + #8 GRD. IN 1-1/4".
 - 100/3** (3)#3 + #8 GRD. IN 1-1/4".
 - 50/3** (3)#6 + #10 GRD. IN 1".
 - 30** (4)#10 + #10 GRD. IN 3/4".
- ALL WIRE SIZES ARE BASED ON COPPER FEEDERS UNLESS OTHERWISE SPECIFIED.
UPGRADE FEEDERS AS NEEDED FOR NO MORE THAN 3% VOLTAGE DROP.

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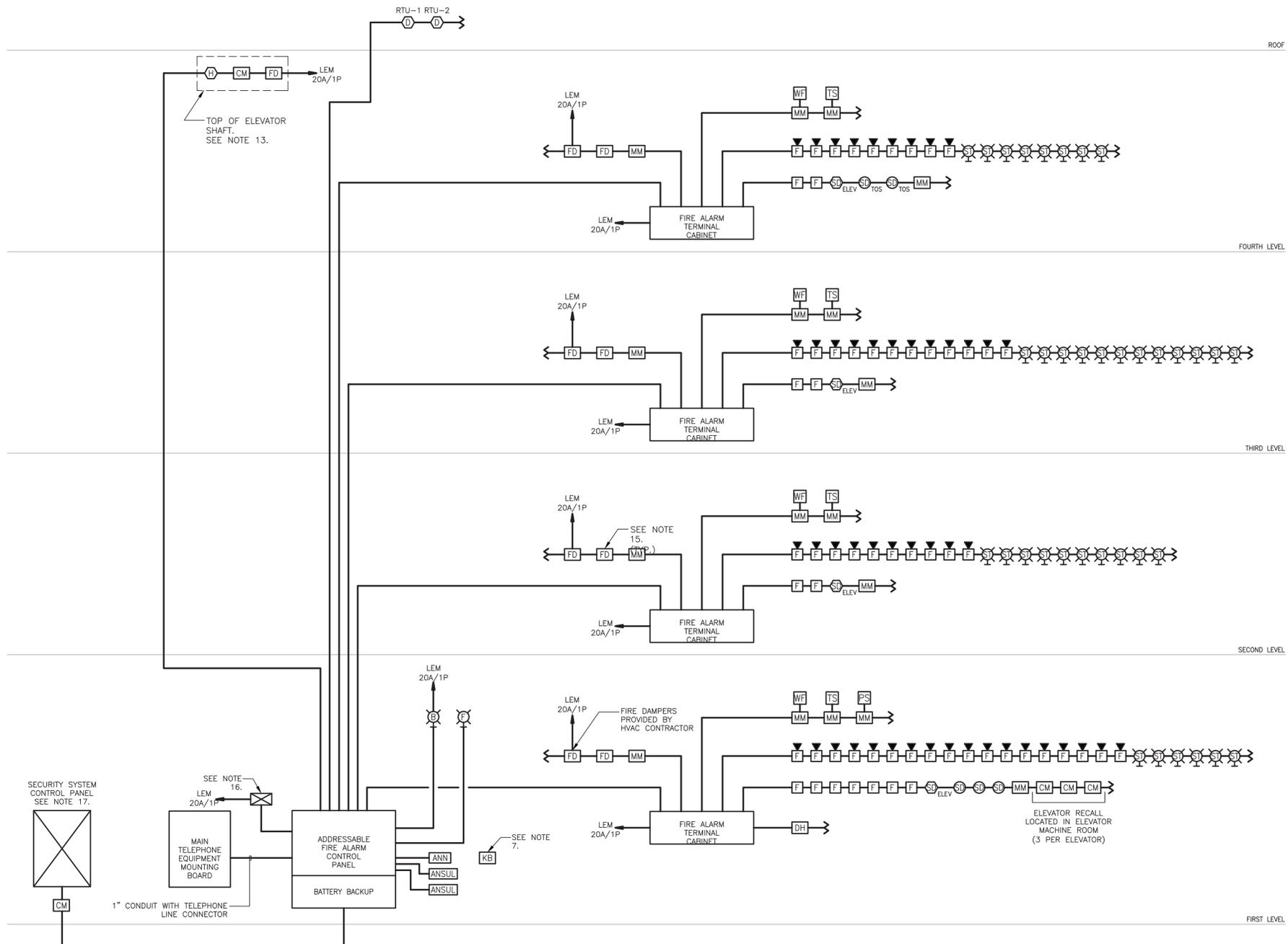
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E3.01
ELECTRICAL
RISER DIAGRAM



1 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

FIRE ALARM NOTES

- ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET AND PROGRAMMING REQUIRED TO CONNECT DEVICES TO NEW SYSTEM.
- ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT. SYNCHRONIZE ALL VISUAL ALARM DEVICES AT END OF PROJECT.
- ALL NEW FIRE ALARM DEVICES TO BE ADDRESSABLE.
- CONTRACTOR IS RESPONSIBLE FOR ALL FIRE ALARM PERMIT AND INSPECTIONS COSTS.
- ALL FIRE ALARM WIRING SHALL BE #14 TWISTED FOR STROBES AND #16 TWISTED FOR SPEAKERS (PLENUM RATED). CONTRACTOR SHALL ONLY BRING WIRES THAT SERVE THAT SPEAKER.
- PROVIDE RECESS KEY BOX. ELECTRICAL CONTRACTOR SHALL PURCHASE THROUGH LOCAL FIRE DEPARTMENT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKER HANDLE-LOCK ON POWER CIRCUITS. HANDLE LOCK SHALL ALLOW THE CIRCUIT BREAKER TO TRIP, BUT PREVENT SWITCHING OF THE CIRCUIT BREAKER TO THE "OFF" POSITION.
- PROVIDE SMOKE DETECTOR IN VICINITY OF FIRE ALARM CONTROL PANEL, REMOTE ANNUNCIATOR, AND ALL FIRE ALARM TERMINAL BOXES. SMOKE DETECTORS IN ELEVATOR LOBBY SHALL BE PROGRAMMED AND/OR PROVIDED WITH ELEVATOR RECALL CAPABILITY.
- MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- ALL SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT OR (FIRE ALARM RATED FLEXIBLE METALLIC CABLE TYPE MC CABLE WHERE CONCEALED) AND IN ACCORDANCE WITH EQUIPMENT SUPPLIER'S APPROVED SHOP DRAWINGS AND WIRING DIAGRAMS.
- RISER DIAGRAM DOES NOT SHOW ENTIRE SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATION OF ALL SYSTEM DEVICES.
- PROVIDE 120V POWER AND CONTROL MODULE FOR CONTROL OF SMOKE DAMPER AT TOP OF ELEVATOR SHAFT. DAMPER SHALL BE PROGRAMMED TO OPEN UPON ACTIVATION OF SMOKE DETECTOR AT ELEVATOR MACHINE ROOM, OR AS DIRECTED PROVIDE CONTROL WIRING FROM DAMPER MOTOR TO FIRE ALARM TERMINAL CABINET.
- PROVIDE REMOTE ALARM INDICATOR OVER DOOR OF EACH LOCKED ROOM THAT CONTAINS A SMOKE OR HEAT DETECTOR WHETHER OR NOT SHOWN ON THE FLOOR PLANS; SUCH AS, ELEVATOR MACHINE ROOMS, ELECTRIC ROOMS, MECHANICAL ROOMS, IT ROOMS, ETC.
- ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER AND CONTROL WIRING TO ALL SMOKE/FIRE DAMPERS. REFER TO ELECTRICAL DRAWINGS FOR POWER WIRING REQUIREMENTS. PROVIDE A MONITOR MODULE, CONTROL MODULE AND RELAY MODULE FOR EACH GROUP OF SMOKE/FIRE DAMPERS. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY OF SMOKE DAMPERS AND SMOKE ZONES.
- PROVIDE A 20A, 120V, 1 PHASE SURGE PROTECTOR EQUAL TO MCO SURGE PROTECTION MODEL NO. 415. SURGE PROTECTOR SHALL BE INSTALLED BETWEEN THE CIRCUIT BREAKER IN THE PANEL AND THE FIRE ALARM PANEL, AND ACCORDANCE WITH MANUFACTURER'S WIRING RECOMMENDATIONS.
- SECURITY/DOOR ENTRY SYSTEM SHALL BE CONNECTED TO FIRE ALARM SYSTEM VIA A CONTROL MODULE/RELAY. ELECTRIC DOOR STRIKE SHALL UNLOCK/RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM ALARM.
- COORDINATE ELEVATOR RECALL WITH THE FIRE ALARM VENDOR PRIOR TO INSTALLATION. COORDINATE WITH THE ELEVATOR SUBCONTRACTOR TO VERIFY FIRE ALARM CONNECTIONS TO ELEVATOR SYSTEM.
- CONTRACTOR SHALL PROVIDE A SMOKE DETECTOR IN EACH ELEVATOR LOBBY TIED BACK INTO THE ELEVATOR RECALL SYSTEM. A HEAT DETECTOR SHALL BE LOCATED IN THE ELEVATOR MACHINE ROOM AND SHALL BE CONNECTED TO THE ELEVATOR RECALL SYSTEM. THREE FIRE ALARM CONTROL MODULES SHALL BE INSTALLED FOR CONNECTION TO THE ELEVATOR RECALL SYSTEM. THE SMOKE DETECTOR LOCATED IN THE DESIGNATED ELEVATOR RECALL LOBBY SHALL ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE REMAINING ELEVATOR LOBBIES SHALL ACTUATE THE SECOND ELEVATOR CONTROL CIRCUIT. THE SMOKE/HEAT DETECTORS IN ELEVATOR HOISTWAYS AND/OR ELEVATOR MACHINE ROOM(S) SHALL ACTUATE THE THIRD ELEVATOR CONTROL CIRCUIT. IN ADDITION, IF THE ELEVATOR MACHINE ROOM IS LOCATED AT THE DESIGNATED LEVEL, ITS SMOKE DETECTOR SHALL ALSO ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT. ELEVATOR RECALL SYSTEM SHALL RECALL THE ELEVATOR TO THE DESIGNATED RECALL FLOOR UNLESS THE DETECTION DEVICE IS LOCATED ON THE DESIGNATED FLOOR. IN THIS CASE, ELEVATOR RECALL SYSTEM SHALL RECALL THE ELEVATOR TO THE ALTERNATE FLOOR.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED CONNECTIONS FROM STAIRWELL PRESSURIZATION SYSTEM TO FIRE ALARM CONTROL PANEL FOR A COMPLETE FUNCTIONAL SYSTEM. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- FOR ADAPTABILITY, ALL MINI-HORN DEVICES IN APARTMENTS SHALL BE WIRED TO ALLOW THE DEVICES TO BE REPLACED WITH MINI-HORN STROBE DEVICES IF REQUESTED. ALL DWELLING UNITS SHALL BE PROVIDED WITH CAPABILITY TO PROVIDE VISIBLE ALARM NOTIFICATION APPLIANCES PER 2015 IBC 907.8.2.3.4, AND CHAPTER 10 OF ICC A117.1. FIRE ALARM SYSTEM SHALL COMPLY WITH ALL REQUIREMENTS OF FIRE CODE (NFPA), AND STATE, LOCAL, AND FEDERAL BUILDING CODES.

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ENGINEERS
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2446 ALBANY AVE
WEST HARTFORD, CT 06117

BRISTOL, CT
111 NORTH MAIN ST
Bristol
CONNECTICUT
All Heart
INTERIOR RENOVATIONS FOR:

Issuances:

Date: March 15th, 2021

Scale: NONE

Project No. 2K20.002 | Drawn by: TL

E3.02
FIRE ALARM
RISER DIAGRAM

PANEL: MDP (NEW)		120/208 VOLTS, 3 PHASE, 4 WIRE		MAIN BUS 1200 AMPS	
LOCATION: PRE-OP AREA		BUS BARS: COPPER		<input type="checkbox"/> MCB <input checked="" type="checkbox"/> MLO MAIN BRK 600 AMPS 3 P KAIC RATING --	
BUILDING: 901 ETHAN ALLEN HWY.					

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	PER PHASE (KVA)			LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
			A	B	C				
1	200	3P.	-	-	-	-	-	200	2
3	3P.	-	-	-	-	-	-	3P.	4
5	3P.	-	-	-	-	-	-	3P.	6
7	3P.	-	-	-	-	-	-	3P.	8
9	3P.	-	-	-	-	-	-	3P.	10
11	3P.	-	-	-	-	-	-	3P.	12
13	3P.	-	-	-	-	-	-	3P.	14

PANEL: NLE1B (EXISTING)		120/208 VOLTS, 3 PHASE, 4 WIRE		MAIN BUS 225 AMPS	
LOCATION: PRE-OP AREA		MOUNTING: <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH		<input type="checkbox"/> MCB <input checked="" type="checkbox"/> MLO MAIN BRK 150 AMPS 3 P KAIC RATING --	
BUILDING: 901 ETHAN ALLEN HWY.		BUS BARS: COPPER			

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	PER PHASE (KVA)			LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
			A	B	C				
1	-	EXISTING	-	-	-	-	EXISTING	-	2
3	-	EXISTING	-	-	-	-	EXISTING	-	4
5	-	EXISTING	-	-	-	-	EXISTING	-	6
7	-	EXISTING	-	-	-	-	EXISTING	-	8
9	-	EXISTING	-	-	-	-	EXISTING	-	10
11	-	EXISTING	-	-	-	-	EXISTING	-	12
13	-	EXISTING	-	-	-	-	EXISTING	-	14
15	-	EXISTING	-	-	-	-	EXISTING	-	16
17	-	EXISTING	-	-	-	-	EXISTING	-	18
19	-	EXISTING	-	-	-	-	EXISTING	-	20
21	-	EXISTING	-	-	-	-	EXISTING	-	22
23	20	RECEPTACLES	-	-	-	-	EXISTING	-	24
25	20	RECEPTACLES	-	-	-	-	EXISTING	-	26
27	-	EXISTING	-	-	-	-	EXISTING	-	28
29	-	EXISTING	-	-	-	-	EXISTING	-	30
31	-	EXISTING	-	-	-	-	EXISTING	-	32
33	-	EXISTING	-	-	-	-	EXISTING	-	34
35	-	EXISTING	-	-	-	-	EXISTING	-	36
37	-	EXISTING	-	-	-	-	SPARE	20	38
39	20	RECEPTACLES	-	-	-	-	SPACE	-	40
41	20	RECEPTACLES	-	-	-	-	SPACE	-	42

PANEL: NLE1B (SECTION 2) (EXISTING)		120/208 VOLTS, 3 PHASE, 4 WIRE		MAIN BUS 225 AMPS	
LOCATION: PRE-OP AREA		MOUNTING: <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH		<input type="checkbox"/> MCB <input checked="" type="checkbox"/> MLO MAIN BRK 150 AMPS 3 P KAIC RATING --	
BUILDING: 901 ETHAN ALLEN HWY.		BUS BARS: COPPER			

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	PER PHASE (KVA)			LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
			A	B	C				
43	-	EXISTING	-	-	-	-	SPARE	20	44
45	20	RECEPTACLES	-	-	-	-	SPARE	20	46
47	20	SPARE	-	-	-	-	SPARE	20	48
49	20	SPARE	-	-	-	-	SPARE	20	50
51	20	SPARE	-	-	-	-	SPARE	20	52
53	20	SPARE	-	-	-	-	SPARE	20	54
55	20	SPARE	-	-	-	-	SPARE	20	56
57	20	SPARE	-	-	-	-	SPARE	20	58
59	20	SPARE	-	-	-	-	SPARE	20	60
61	-	SPACE	-	-	-	-	SPACE	-	62
63	-	SPACE	-	-	-	-	SPACE	-	64
65	-	SPACE	-	-	-	-	SPACE	-	66
67	-	SPACE	-	-	-	-	SPACE	-	68
69	-	SPACE	-	-	-	-	SPACE	-	70
71	-	SPACE	-	-	-	-	SPACE	-	72
73	-	SPACE	-	-	-	-	SPACE	-	74
75	-	SPACE	-	-	-	-	SPACE	-	76
77	-	SPACE	-	-	-	-	SPACE	-	78
79	-	SPACE	-	-	-	-	SPACE	-	80
81	-	SPACE	-	-	-	-	SPACE	-	82
83	-	SPACE	-	-	-	-	SPACE	-	84

NOTES:

- CIRCUIT BREAKERS FEEDING THE SAME WORKSTATIONS SHALL BE BOLTED TOGETHER WITH A UL APPROVED HANDLE TIE BAR IN ORDER TO PROVIDE A MEANS TO DISCONNECT SIMULTANEOUSLY PER NEC 605. HANDLE TIE BARS ARE NOTED ON PANEL SCHEDULE:

- DENOTES HANDLE TIE BAR

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INTERIOR RENOVATIONS FOR:

Bristol
 CONNECTICUT
All Heart

111 NORTH MAIN ST
 BRISTOL, CT

Issuances:

Date: March 15th, 2021

Scale: NONE

Project No. 2K20.002 | Drawn by: TL

E3.03
 ELECTRICAL
 PANEL SCHEDULES
 (1 OF 2)

PANEL: MDP (NEW)		120/208 VOLTS, 3 PHASE, 4 WIRE		MAIN BUS 1200 AMPS					
LOCATION: PRE-OP AREA		BUS BARS: COPPER		<input type="checkbox"/> MCB <input checked="" type="checkbox"/> MLO MAIN BRK 600 AMPS 3 P KAIC RATING --					
BUILDING: 901 ETHAN ALLEN HWY.									
CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	PER PHASE (KVA)			LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
			A	B	C				
1	200 3P.	--	--	--	--	--	--	200 3P.	2
3	3P.	--	--	--	--	--	--	3P.	4
5	3P.	--	--	--	--	--	--	3P.	6
7	3P.	--	--	--	--	--	--	3P.	8
9	3P.	--	--	--	--	--	--	3P.	10
11	3P.	--	--	--	--	--	--	3P.	12
13	3P.	--	--	--	--	--	--	3P.	14
			--	--	--	--			

PANEL: NLE1B (EXISTING)		120/208 VOLTS, 3 PHASE, 4 WIRE		MAIN BUS 225 AMPS					
LOCATION: PRE-OP AREA		MOUNTING: <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH		<input type="checkbox"/> MCB <input checked="" type="checkbox"/> MLO MAIN BRK 150 AMPS 3 P KAIC RATING --					
BUILDING: 901 ETHAN ALLEN HWY.		BUS BARS: COPPER							
CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	PER PHASE (KVA)			LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
			A	B	C				
1	--	EXISTING	--	--	--	--	EXISTING	--	2
3	--	EXISTING	--	--	--	--	EXISTING	--	4
5	--	EXISTING	--	--	--	--	EXISTING	--	6
7	--	EXISTING	--	--	--	--	EXISTING	--	8
9	--	EXISTING	--	--	--	--	EXISTING	--	10
11	--	EXISTING	--	--	--	--	EXISTING	--	12
13	--	EXISTING	--	--	--	--	EXISTING	--	14
15	--	EXISTING	--	--	--	--	EXISTING	--	16
17	--	EXISTING	--	--	--	--	EXISTING	--	18
19	--	EXISTING	--	--	--	--	EXISTING	--	20
21	--	EXISTING	--	--	--	--	EXISTING	--	22
23	20	RECEPTACLES	--	--	--	--	EXISTING	--	24
25	20	RECEPTACLES	--	--	--	--	EXISTING	--	26
27	--	EXISTING	--	--	--	--	EXISTING	--	28
29	--	EXISTING	--	--	--	--	EXISTING	--	30
31	--	EXISTING	--	--	--	--	EXISTING	--	32
33	--	EXISTING	--	--	--	--	EXISTING	--	34
35	--	EXISTING	--	--	--	--	EXISTING	--	36
37	--	EXISTING	--	--	--	--	SPACE	20	38
39	20	RECEPTACLES	--	--	--	--	SPACE	--	40
41	20	RECEPTACLES	--	--	--	--	SPACE	--	42
			--	--	--	--			

PANEL: NLE1B (SECTION 2) (EXISTING)		120/208 VOLTS, 3 PHASE, 4 WIRE		MAIN BUS 225 AMPS					
LOCATION: PRE-OP AREA		MOUNTING: <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH		<input type="checkbox"/> MCB <input checked="" type="checkbox"/> MLO MAIN BRK 150 AMPS 3 P KAIC RATING --					
BUILDING: 901 ETHAN ALLEN HWY.		BUS BARS: COPPER							
CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	PER PHASE (KVA)			LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
			A	B	C				
43	--	EXISTING	--	--	--	--	SPACE	20	44
45	20	RECEPTACLES	--	--	--	--	SPACE	20	46
47	20	SPACE	--	--	--	--	SPACE	20	48
49	20	SPACE	--	--	--	--	SPACE	20	50
51	20	SPACE	--	--	--	--	SPACE	20	52
53	20	SPACE	--	--	--	--	SPACE	20	54
55	20	SPACE	--	--	--	--	SPACE	20	56
57	20	SPACE	--	--	--	--	SPACE	20	58
59	20	SPACE	--	--	--	--	SPACE	20	60
61	--	SPACE	--	--	--	--	SPACE	--	62
63	--	SPACE	--	--	--	--	SPACE	--	64
65	--	SPACE	--	--	--	--	SPACE	--	66
67	--	SPACE	--	--	--	--	SPACE	--	68
69	--	SPACE	--	--	--	--	SPACE	--	70
71	--	SPACE	--	--	--	--	SPACE	--	72
73	--	SPACE	--	--	--	--	SPACE	--	74
75	--	SPACE	--	--	--	--	SPACE	--	76
77	--	SPACE	--	--	--	--	SPACE	--	78
79	--	SPACE	--	--	--	--	SPACE	--	80
81	--	SPACE	--	--	--	--	SPACE	--	82
83	--	SPACE	--	--	--	--	SPACE	--	84
			--	--	--	--			

NOTES:

- CIRCUIT BREAKERS FEEDING THE SAME WORKSTATIONS SHALL BE BOLTED TOGETHER WITH A UL APPROVED HANDLE TIE BAR IN ORDER TO PROVIDE A MEANS TO DISCONNECT SIMULTANEOUSLY PER NEC 605. HANDLE TIE BARS ARE NOTED ON PANEL SCHEDULE:

-- DENOTES HANDLE TIE BAR

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INTERIOR RENOVATIONS FOR:

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111 NORTH MAIN ST
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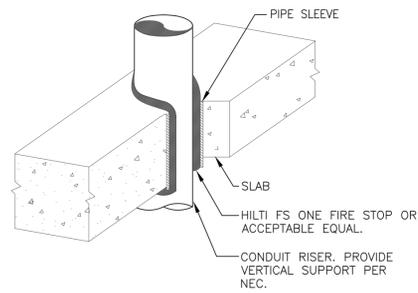
Issuances:

Date: March 15th, 2021

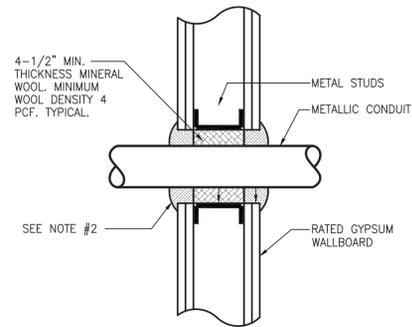
Scale: NONE

Project No. 2K20.002 | Drawn by: TL

E3.04
 ELECTRICAL
 PANEL SCHEDULES
 (2 OF 2)

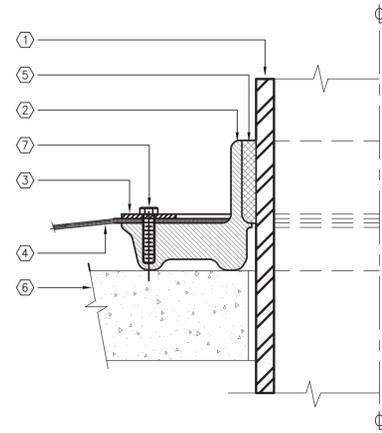


1 VERTICAL CONDUIT PENETRATION DETAIL
NOT TO SCALE



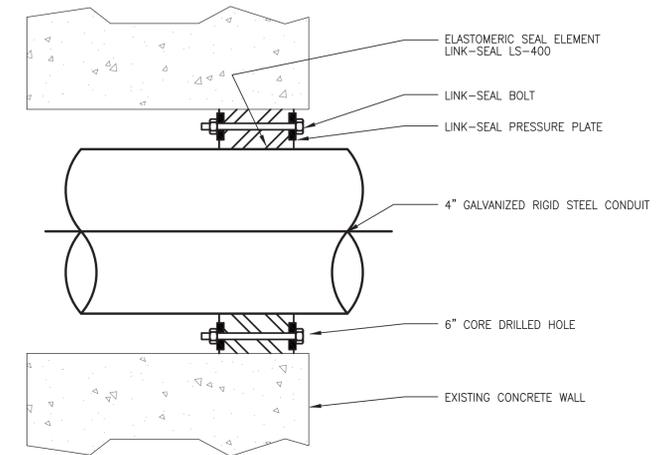
- NOTES:
- CONDUIT SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN CONDUIT AND WALL OPENING SHALL BE 0" TO A MAXIMUM OF 1"
 - HILTI FS ONE FIRESTOP PUTTY OR APPROVED EQUAL, MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH BOTH SURFACES OF WALL. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND WALL, A 1/4" CROWN OF FILL MATERIAL SHALL BE APPLIED AT THE CONDUIT/WALL INTERFACE ON BOTH SIDES OF THE ASSEMBLY, LAPPING 1/4" ON THE CONDUIT AND 1/4" BEYOND THE PERIPHERY OF THE OPENING.
 - ASSEMBLY SHALL BE INSTALLED TO COMPLY WITH UL FIRESTOP ASSEMBLY WL1175.

2 TYPICAL CONDUIT GYPSUM WALL PENETRATION DETAIL
NOT TO SCALE



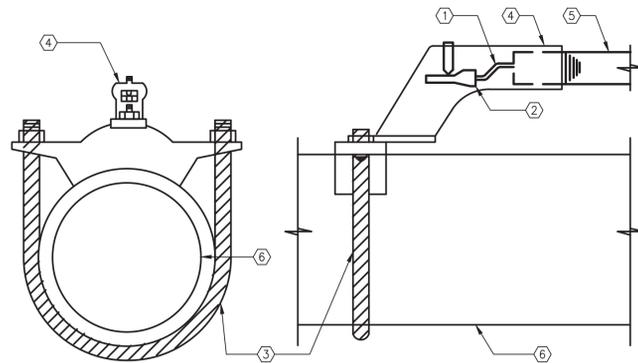
- NOTES:
- RIGID STEEL CONDUIT
 - CAST IRON SLEEVE
 - CLAMP RING
 - FLASHING OR ROOFING
 - CAULKING/PACKING
 - ROOF STRUCTURE
 - BRONZE BOLT

3 ROOF SLEEVE: CAULKED, WATERTIGHT
NOT TO SCALE



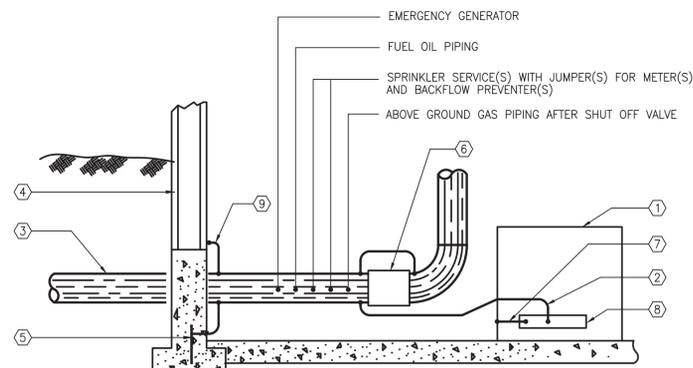
LINK-SEAL® MODULAR SEALS WITH CAST OR CORE DRILLED WALL OPENING MANUFACTURED BY PIPELINE SEAL & INSULATOR, INC. HOUSTON, TEXAS, U.S.A. TEL: 800-423-2410 E-MAIL: INFO@PSIPSI.COM

4 CORE DRILLED CONCRETE WALL PENETRATION DETAIL
NOT TO SCALE



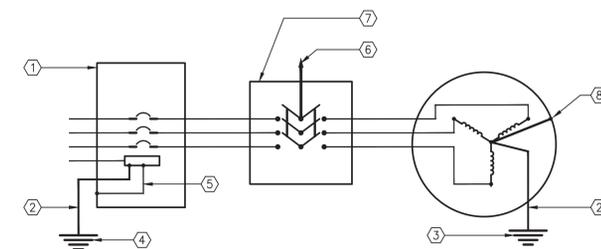
- NOTES:
- GROUNDING ELECTRODE CONDUCTOR
 - CONDUCTOR TERMINAL
 - GROUND CLAMP ASSEMBLY
 - THREADED GROUND HUB
 - CONDUIT
 - WATER SERVICE PIPE

5 WATER PIPE ELECTRODE CONNECTION
NOT TO SCALE



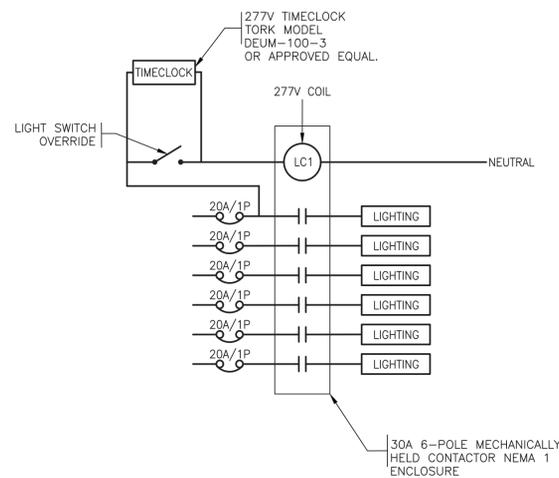
- NOTES:
- SERVICE EQUIPMENT ENCLOSURE
 - GROUNDING ELECTRODE CONDUCTOR
 - COLD WATER GROUNDING ELECTRODE (U.G. METAL PIPE)
 - GROUNDING ELECTRODE (BUILDING STEEL)
 - GROUNDING ELECTRODE (RE-BARS)
 - WATER METER WITH JUMPER
 - BOND TO ENCLOSURE (NEUTRAL DISCONNECT LINK IN NYC)
 - NEUTRAL BUS
 - BONDING JUMPER

6 GROUNDING ELECTRODE (STEEL BUILDING)
NOT TO SCALE



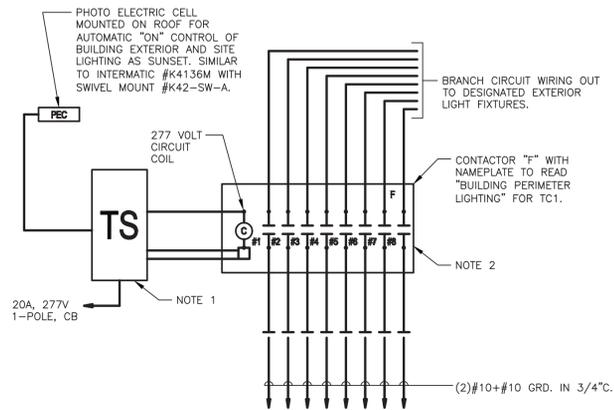
- NOTES:
- SERVICE EQUIPMENT ENCLOSURE
 - GROUNDING ELECTRODE CONDUCTOR
 - GROUNDING ELECTRODE
 - GROUNDING ELECTRODE SYSTEM
 - BOND TO ENCLOSURE
 - TO ESSENTIAL LOADS
 - TRANSFER SWITCH
 - BOND TO ENCLOSURE

7 GENERATOR GROUNDING DETAIL
NOT TO SCALE



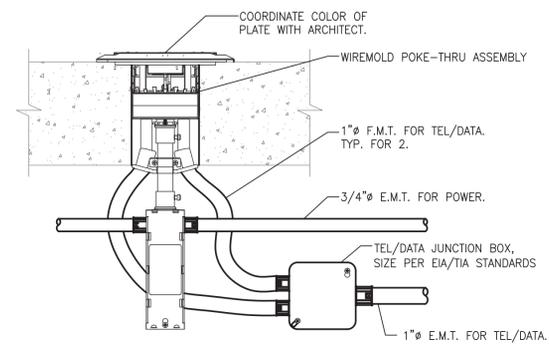
- NOTES:
1. PROVIDE OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH BUILDING PERSONNEL.

1 TIMECLOCK WIRING DIAGRAM
NOT TO SCALE



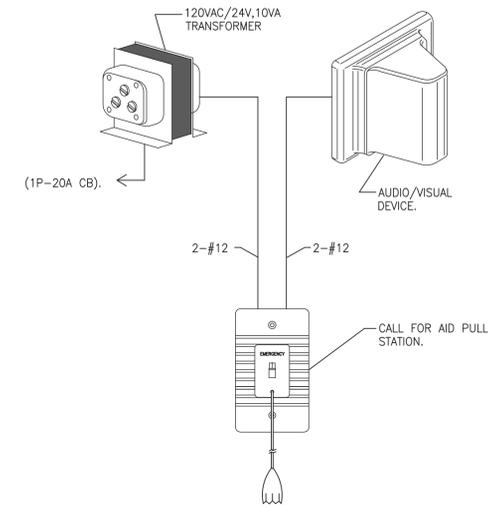
- NOTES:
1. ELECTRONIC LIGHTING CONTROL TIME CLOCK WITH ASTRO DIAL TYPE COMPUTER PROGRAMMING 2-CHANNEL. TIME CLOCK SHALL OPERATE ON 277 VOLTS AND BE MOUNTED IN NEMA 1 ENCLOSURE. TIME CLOCK SHALL BE SIMILAR TO INTERMATIC NO. ET708150R. PROVIDE WITH PHOTOCCELL AND RELAY COIL FOR AUTOMATIC "ON" CONTROL OF PERIMETER LIGHTING DURING HOURS OF DARKNESS.
 2. PROVIDE WITH OVERRIDE CAPABILITY OPTION #156ET9402A.

2 EXTERIOR LIGHTING TIMECLOCK WITH PHOTOCCELL DETAIL
NOT TO SCALE



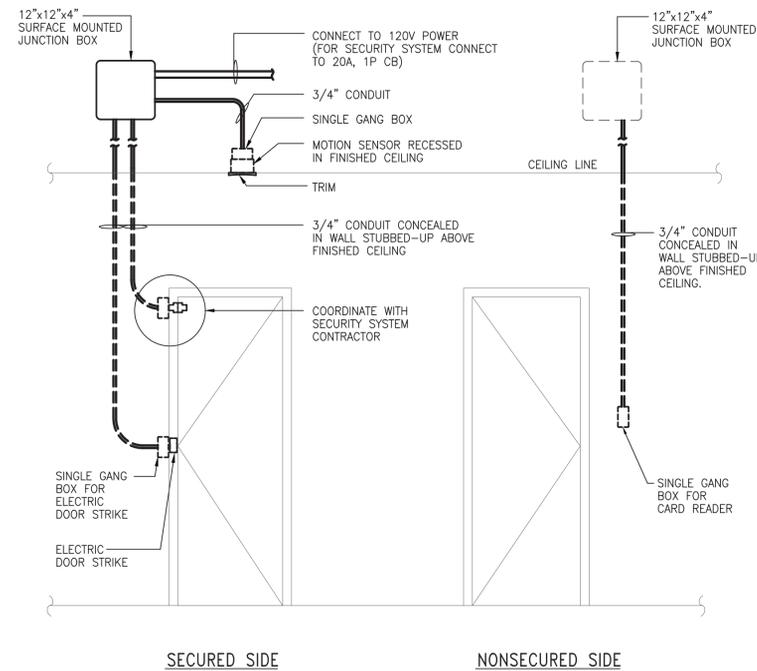
- NOTES:
1. FIRE STOP SLEEVE ON UPPER AND UNDERSIDE OF FLOOR SLAB WITH 3 HOUR RATED FIRE STOP AS MANUFACTURED BY SPECIFIED TECHNOLOGIES INC. (SPI) SEAL PENSIL 200 SILICONE FOAM.
 2. POKE-THRUS SHALL BE MIN. 2'-0" APART FROM EACH OTHER TO MAINTAIN FIRE RATING OF FLOOR.
 3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 4. POKE THRU MODEL NUMBERS SHALL BE AS PER PLANS AND SPECIFICATIONS.

3 POKE-THRU DEVICE INSTALLATION DETAIL
NOT TO SCALE

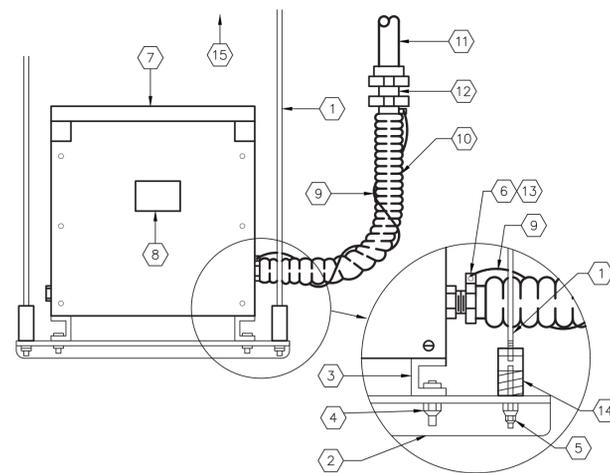


- NOTES:
1. SYSTEM SHOWN BASED ON EDWARDS SYSTEM TECHNOLOGY MODEL #6538-G5 OR APPROVED EQUAL.

4 CALL-FOR-AID WIRING DIAGRAM
NOT TO SCALE

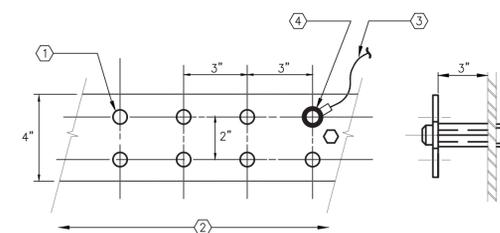


5 TYPICAL DOOR LAYOUT FOR SECURITY SYSTEM DETAIL
NOT TO SCALE



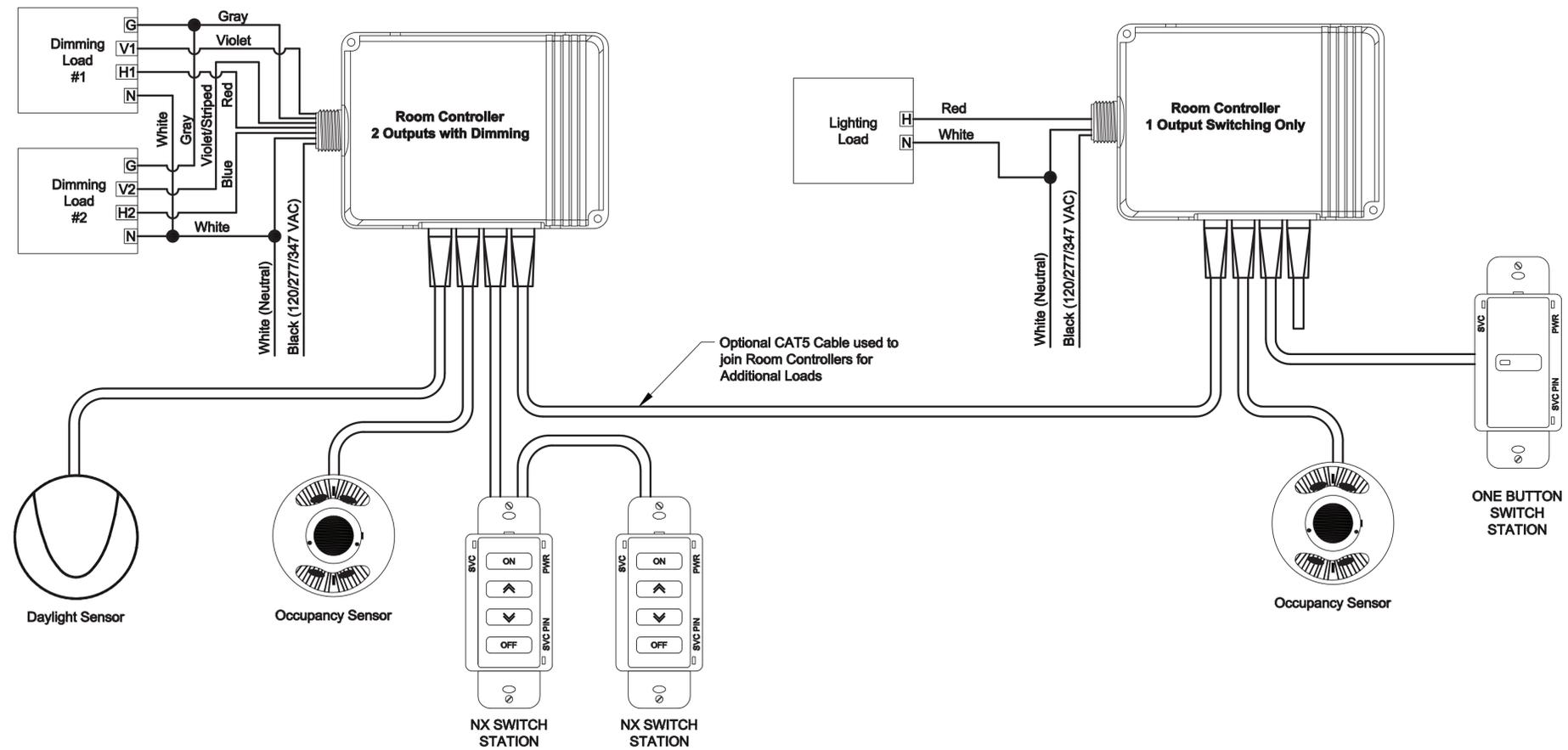
- NOTES:
1. 1/2" THREADED STEEL ROD-SUPPORT FROM STRUCTURE ABOVE
 2. 3" X3" ANGLE IRON SUPPORT-LENGTH TO SUIT - 2 REQUIRED
 3. TRANSFORMER BASE CHANNEL
 4. 1/2" NUT, BOLT & LOCKWASHER-4 REQUIRED
 5. 1/2" NUT, LOCKNUT & LOCKWASHER-4 REQUIRED
 6. SECONDARY CONNECTION DETAIL (PRIMARY: SIMILAR)
 7. TRANSFORMER - MOUNT BOTTOM SUPPORTS 6"-6" A.F.F. (MIN.)
 8. NAMEPLATE - CONNECTION DIAGRAM TO FACE CLOSET ENTRANCE
 9. EXTERNAL COPPER BONDING WIRE
 10. LIQUIDTIGHT FLEXIBLE METAL CONDUIT - 18" MIN.
 11. FEEDER CONDUIT
 12. COMBINATION COUPLING
 13. GROUND CONNECTOR
 14. VIBRATION ELIMINATOR (NEOPRENE PAD)-4 REQUIRED
 15. PROVIDE MISCELLANEOUS STEEL AS REQUIRED. TO CONN. TO STRUCTURE

6 TRANSFORMER SUSPENSION DETAIL
NOT TO SCALE

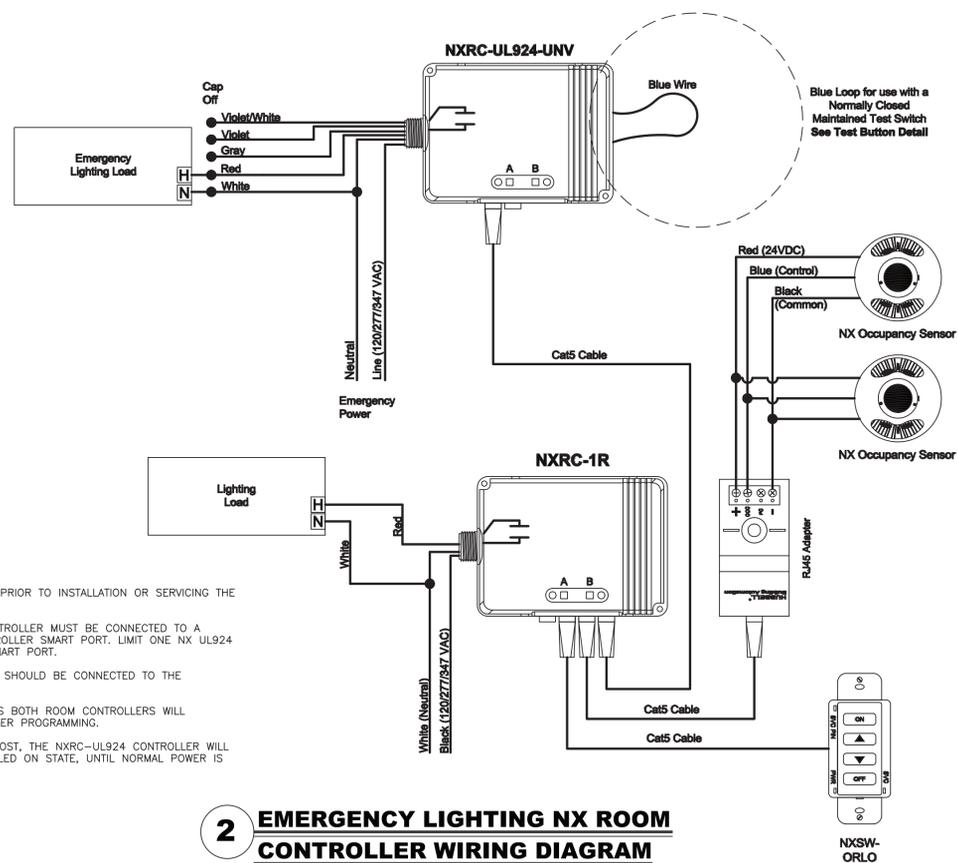
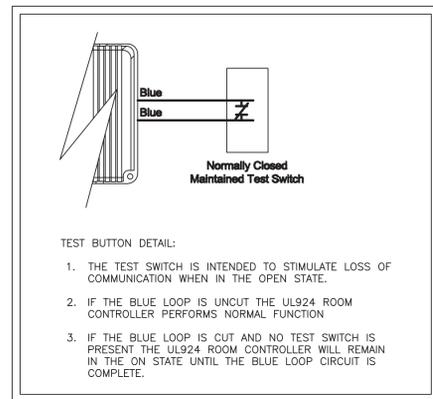


- NOTES:
1. DRILLED HOLE 7/16" DIAMETER
 2. BAR LENGTH AS REQUIRED, 1/4" THICK COPPER
 3. GROUNDING CABLE
 4. 3/8" NUT, BOLT, LOCKWASHER AND CABLE ASSEMBLY
- #6 AWG. INSULATED GREEN STRANDED COPPER CONDUCTOR, THERMO-CHEMICALLY WELDED TO BUILDING SERVICE GROUND, IN 1" EC (TYP).
- #6 AWG. INSULATED GREEN STRANDED COPPER CONDUCTOR, BONDED AT THE ELECTRICAL PANEL SERVING THE DATA ROOM EQUIPMENT IN 1" EC (TYP).
- ALL 1" EC DESIGNATED FOR THE DATA ROOM GROUNDING SYSTEM SHALL BE BONDED TO THE COMPUTER ROOM GROUNDING BUSBAR.
- CONNECTIONS TO GROUNDING BUSBAR VIA DUAL SCREW, COMPRESSION TYPE FITTINGS (TYP).

7 COMPUTER ROOM LOCAL COPPER GROUND BUS
NOT TO SCALE

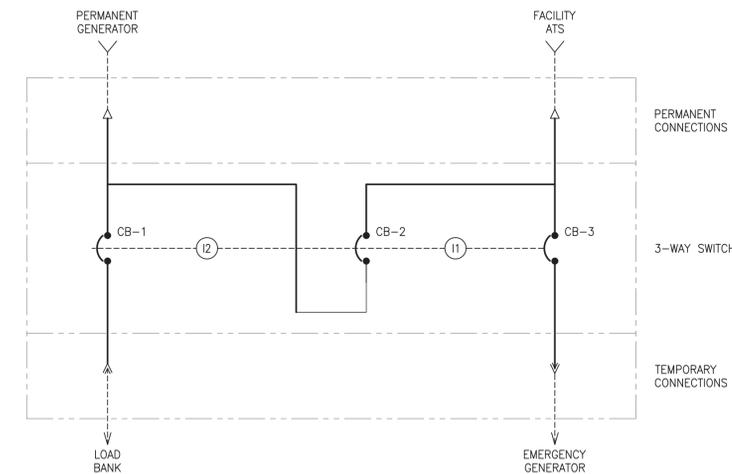


1 NX ROOM CONTROLLER WIRING DIAGRAM
NOT TO SCALE



- NOTES:
1. DISCONNECT LINE VOLTAGE PRIOR TO INSTALLATION OR SERVICING THE ROOM CONTROLLER.
 2. A NXRC-UL924 ROOM CONTROLLER MUST BE CONNECTED TO A STANDARD NX ROOM CONTROLLER SMART PORT. LIMIT ONE NX UL924 ROOM CONTROLLER PER SMART PORT.
 3. NO INPUT CONTROL DEVICE SHOULD BE CONNECTED TO THE NXRC-UL924 DEVICE.
 4. DURING NORMAL CONDITIONS BOTH ROOM CONTROLLERS WILL FUNCTION TOGETHER AND PER PROGRAMMING.
 5. WHEN NORMAL POWER IS LOST, THE NXRC-UL924 CONTROLLER WILL DEFAULT TO NON-CONTROLLED ON STATE, UNTIL NORMAL POWER IS RESTORED.

2 EMERGENCY LIGHTING NX ROOM CONTROLLER WIRING DIAGRAM
NOT TO SCALE



3 COMBINATION CAM LOCK / MANUAL TRANSFER SWITCH ONE-LINE DIAGRAM
NOT TO SCALE

DEMOLITION NOTES

- DEMOLITION NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
- ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
- AFTER REMOVING PIPING THROUGH FLOOR SLABS, PENETRATIONS SHALL BE PATCHED WITH APPROVED FIRE-RATED MATERIAL.
- THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- THE CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORTS FOR ALL EXISTING PIPING TO REMAIN THAT IS AFFECTED BY DEMOLITION OF THE EXISTING CEILING AND PARTITIONS.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.
- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE & LOCAL REQUIREMENTS.

GENERAL NOTES

- THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT AND PIPING FABRICATION DRAWING APPROVAL.
- ANY MATERIAL, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE AND VENT PIPING SYSTEMS. FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE, REFER TO THE PLUMBING FIXTURE SCHEDULE.
- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING WORK WITH ALL OTHER TRADES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, HVAC, SPRINKLER STRUCTURAL AND GENERAL ARCHITECTURAL.
- WHERE PIPING CONNECTIONS FOR EQUIPMENT DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
- ALL PIPING LOCATED ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT BE SUPPORTED BY THE CEILING TILES OR CEILING STRUCTURE.
- PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON THE DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
- PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 50 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED. ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES
- COORDINATE MOUNTING HEIGHTS OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.
- ALL PIPING SHALL SLOPE TO LOW POINTS. PROVIDE HOSE AND DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
- ALL WATER PIPING RUNNING ABOVE ELECTRICAL SERVICES SHALL BE PROVIDED WITH DRAIN PAN UNDERNEATH. PIPING FROM DRAIN PAN SHALL EXTEND TO NEAREST FLOOR DRAIN.
- ALL OPENINGS THRU FIRE RATED WALLS OR FLOORS SHALL BE SEALED WITH AN APPROVED FIREPROOFING MATERIAL TO MAINTAIN THE INTEGRITY OF THE WALL OR FLOORS.
- PROVIDE BARRIER TRAP SEAL FOR EACH FLOOR DRAIN.
- PROVIDE CONDENSATE DRAINS FOR ALL COOLING COILS; PIPE BY GRAVITY TO INDIRECT WASTE.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRED VIBRATION ISOLATION, EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- ALL PIPING SHALL BE INSTALLED TIGHT TO THE BOTTOM OF STEEL AT ALL TIMES UNLESS OTHERWISE INDICATED OR REQUIRED BY FIELD CONDITIONS.
- INSTALL WATER HAMMER ARRESTERS ON ALL PIPING SERVING QUICK CLOSING VALVES.
- PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
- ALL PIPING OF DISSIMILAR MATERIALS SHALL HAVE DIELECTRIC FITTINGS.

PLUMBING ABBREVIATIONS

AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BOP	BOTTOM OF PIPE
BFP	BACKFLOW PREVENTOR
BTU	BRITISH THERMAL UNITS
CC	COOLING COIL
CD	CONDENSATE DRAIN
CO	CLEAN OUT
CLG	CEILING
CP	CONDENSATE PUMP
CW	DOMESTIC COLD WATER PIPING
DIA	DIAMETER
DCV	DOUBLE CHECK VALVE
DF	DRINKING FOUNTAIN
DN	DOWN (PENETRATES FLOOR SLAB)
E	EXISTING
ER	EXISTING TO REMAIN
ETR	EXISTING TO BE RELOCATED
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FU	FIXTURE UNIT
FT	FEET
G	NATURAL GAS
GC	GENERAL CONTRACTOR
GAL	GALLONS
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
HB	HOSE BIBB
HP	HORSE POWER
HW	HOT WATER PIPING
HWH	HOT WATER HEATER
HWR	HOT WATER RETURN PIPING
HZ	HERTZ
KW	KILOWATT
LAV	LAVATORY
NC	NORMALLY CLOSED
NG	NATURAL GAS PIPING
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MS	MOP SINK
PC	PUMPED CONDENSATE
PD	PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PH	PHASE
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTOR ASSEMBLY
SAN	SANITARY PIPING
SH	SHOWER
SK	SINK
SQ. FT	SQUARE FEET
ST	STORM PIPING
TYP	TYPICAL
UR	URINAL
V	VENT PIPING
VD	VOLUME DAMPER
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET

PLUMBING PIPING SYMBOL LIST

	NEW COLD WATER PIPING
	EXISTING COLD WATER PIPING TO REMAIN
	NEW HOT WATER PIPING
	EXISTING HOT WATER PIPING TO REMAIN
	NEW HOT WATER RETURN PIPING
	EXISTING HOT WATER PIPING TO REMAIN
	NEW SANITARY PIPING
	EXISTING SANITARY PIPING TO REMAIN
	NEW SANITARY VENT PIPING
	EXISTING SANITARY VENT PIPING TO REMAIN
	NEW CONDENSATE DRAIN PIPING
	EXISTING CONDENSATE DRAIN PIPING TO REMAIN
	NATURAL GAS OR LIQUID PROPANE PIPING
	PIPING BELOW GRADE
	EXISTING PIPING TO BE DEMOLISHED
	FLOOR CLEANOUT
	CLEANOUT
	P-TRAP
	FLOOR DRAIN
	ROOF DRAIN
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	CAPPED PIPE
	CAPPED AND VALVE CONNECTION
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	SHUT-OFF VALVE (GATE OR BALL VALVE SEE SPECS)
	PRESSURE REDUCING VALVE
	BALANCING VALVE
	WATER METER
	BACKFLOW PREVENTOR
	PUMP
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE RELOCATED
	MECHANICAL PLAN NOTE TAG
	REVISION SYMBOL
	POINT OF NEW CONNECTION TO EXISTING WORK
	REMOVE AND SAFE OFF EXISTING WORK FOR RECONNECTION
	RISER DESIGNATION
	RISER SERVICE
	RISER NUMBER

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BRISTOL, CT

Issuances:

Date: March 15th, 2021

Scale: NONE

Project No. 2K20.002 | Drawn by: TL

P0.01
PLUMBING NOTES & LEGEND



1 OVERALL PLUMBING GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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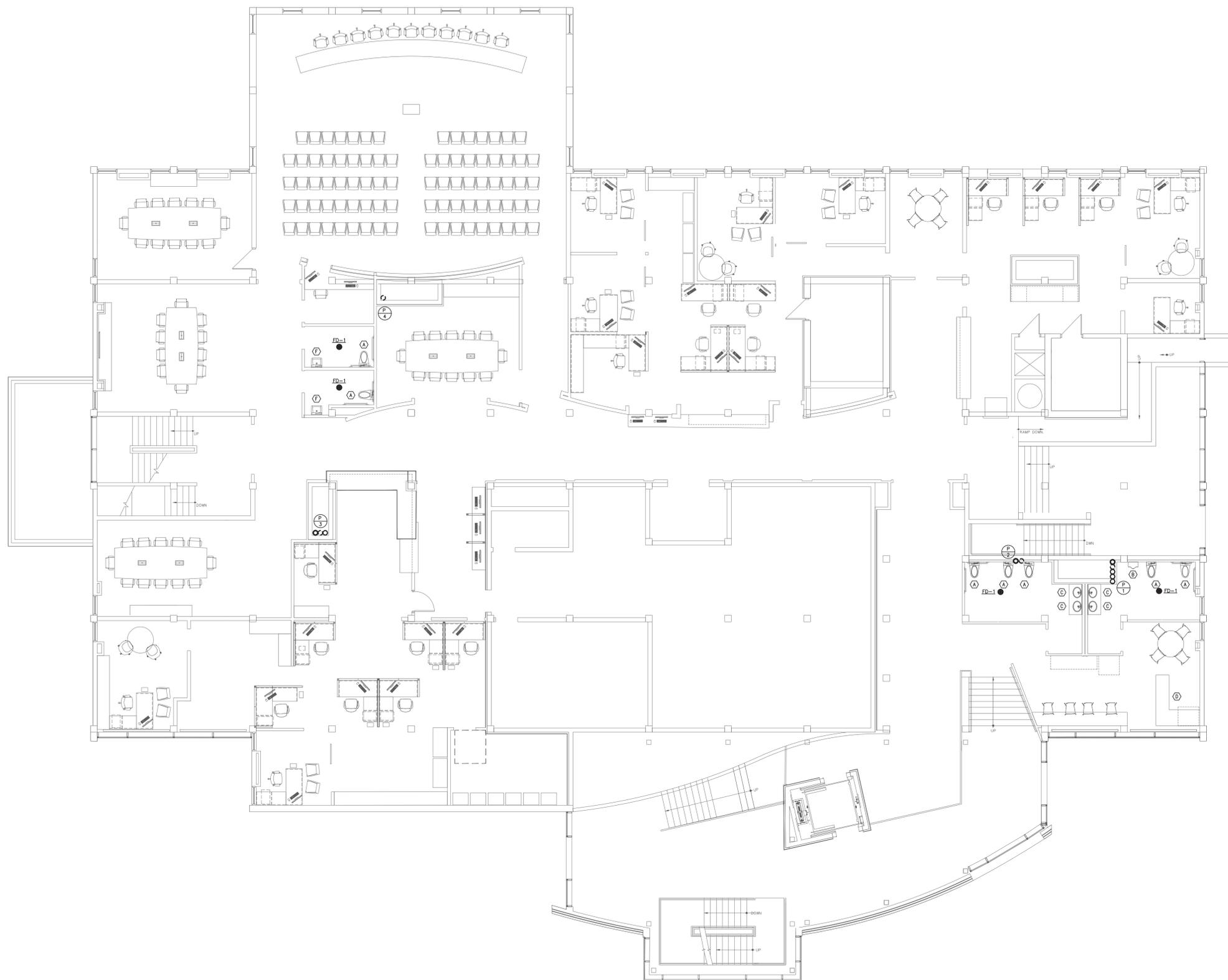
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P2.01
OVERALL
PLUMBING GROUND
FLOOR PLAN



1 PLUMBING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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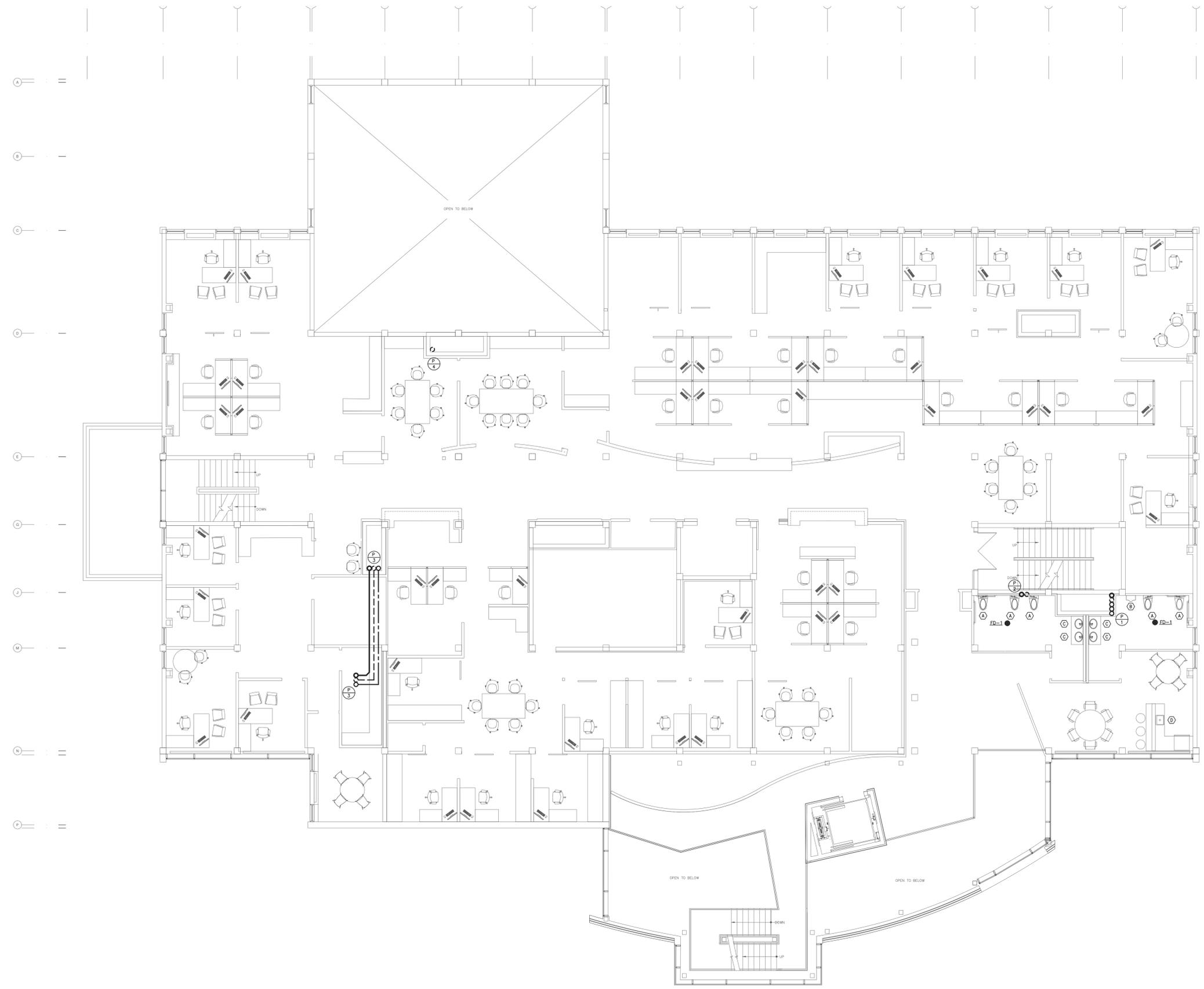
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P2.11
OVERALL
PLUMBING FIRST
FLOOR PLAN



1 OVERALL PLUMBING SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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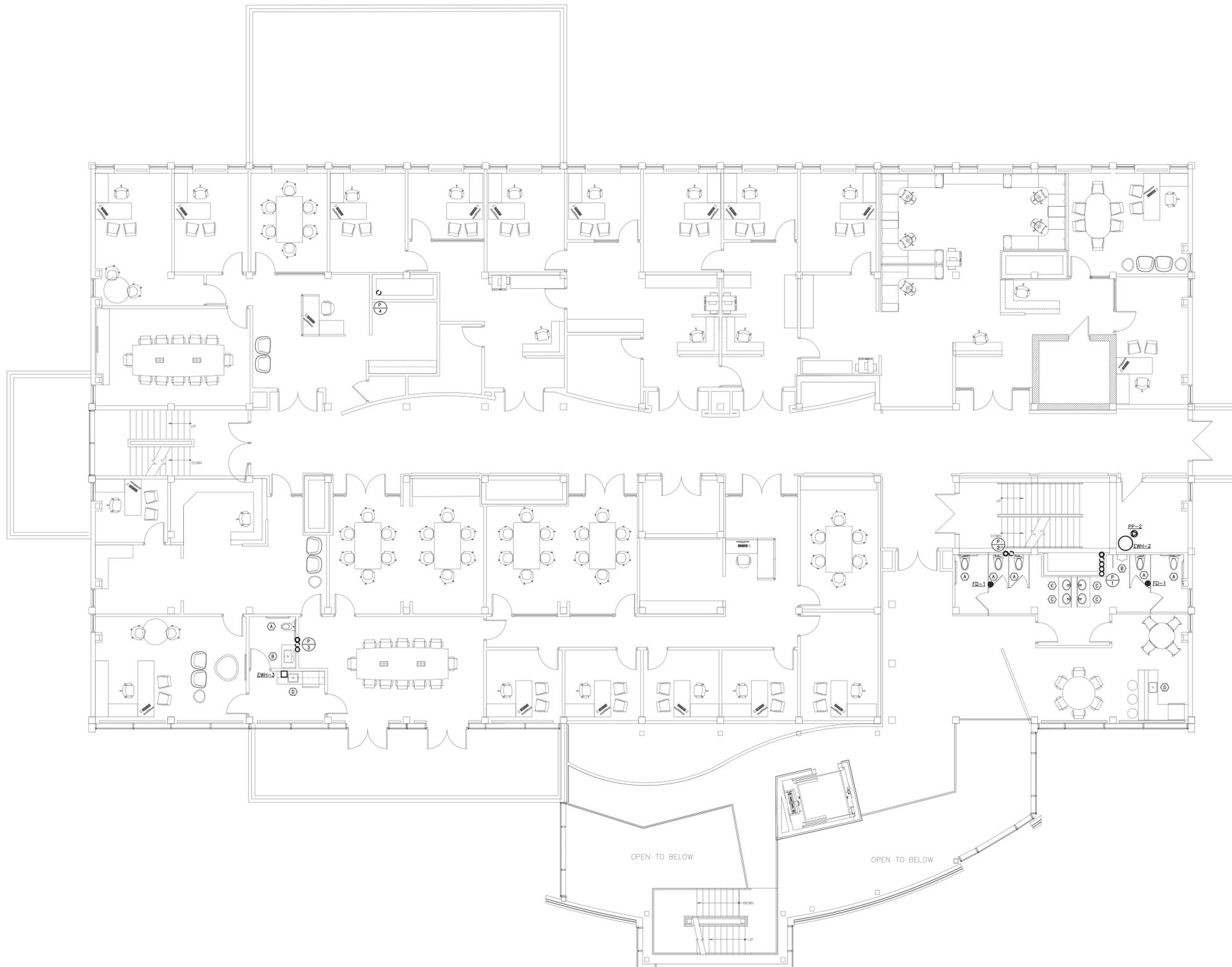
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P2.21
 OVERALL
 PLUMBING SECOND
 FLOOR PLAN



1 OVERALL PLUMBING THIRD FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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P2.31
 OVERALL
 PLUMBING THIRD
 FLOOR PLAN

PLUMBING FIXTURE SCHEDULE											
UNIT TAG	TYPE	MATERIAL COLOR	MANUFACTURER MODEL	FAUCET DATA		TRIM	CONNECTION SIZES				REMARKS
				MANUFACTURER	MODEL		CW	HW	SAN	TRAP	
A	WC-1	VITREOUS CHINA WHITE	AMERICAN STANDARD 3461.001	AMERICAN STANDARD	6047.161.002	SEAT: AMERICAN STD MODEL: 5905.100	1"	-	3"	2"	ADA COMPLIANT
B	UR	VITREOUS CHINA WHITE	AMERICAN STANDARD 6550.001	AMERICAN STANDARD	6063.051.002		3/4"	-	2"	1-1/2"	SENSOR FLUSHOMETER
C	LAV	VITREOUS CHINA WHITE	TOTO LT909	TOTO	TL960DDLQ		1/2"	-	2"	1-1/2"	ADA COMPLIANT
D	SK	STAINLESS STEEL	ELKAY ECTSR1515PBG	ELKAY	LKGT1042	SOAP DISPENSER: ELKAY 'LKAV3054'	1/2"	1/2"	1-1/2"	1-1/2"	ADA COMPLIANT
E	SH	POLISHED CHROME	TOTO TS300A55	TOTO	TS626D2		1/2"	1/2"	2"	1-1/2"	-

DRAIN SCHEDULE											
UNIT TAG	DRAIN TYPE	MATERIAL	VARIATIONS	SIZE	TRAP	CONNECTION TYPE	VENT SIZE	STRAINER	MANUFACTURER		REMARKS
									MODEL	MODEL	
FD-1	FLOOR	CAST IRON	MEDIUM DUTY GRATE	8 1/2"	-	NO HUB	-	MEDIUM DUTY	JAY R SMITH 2010C		FLOOR DRAIN NOTE 1
RD-1	ROOF	CAST IRON	PRIMARY STORM	15 1/4"	-	NO HUB	-	DOVE	JAY R SMITH 1010Y		COORDINATE OUTLET SIZE WITH DRAWINGS
RD-2	ROOF	CAST IRON	STAIRWELL ROOF SIDE OUTLET	15 1/4"	-	NO HUB	-	DOVE	JAY R SMITH 1020		COORDINATE OUTLET SIZE WITH DRAWINGS

NOTES:
1. PROVIDE ZURN Z1072-ZSHIELD BARRIER TRAP SEAL DEVICE OR APPROVED EQUAL ON ALL FLOOR DRAINS.

PUMP SCHEDULE												
PUMP TAG	SERVICE LOCATION	FLUID	PUMP TYPE	GPM	HEAD FEET	BHP	MOTOR DATA			MANUFACTURER MODEL	REMARKS	
							HP	VOLTS	PHASE			
PP-1	HW RECIRC 1ST FLR STORAGE	WATER	INLINE	2	8	-	1/40	120	1	3250	TACO 006 BC4	CONTROLLED BY AQUASTAT ON HW SUPPLY
PP-2	HW RECIRC 3RD FLR STORAGE	WATER	INLINE	2	8	-	1/40	120	1	3250	TACO 006 BC4	CONTROLLED BY AQUASTAT ON HW SUPPLY

PIPING AND FITTINGS SCHEDULE			
SYSTEM	PIPING	FITTINGS	REMARKS
DOMESTIC WATER	TYPE L HARD DRAWN COPPER TUBING	COPPER - CAST BRONZE OR COPPER SWEAT FITTINGS JOINED WITH TIN/ANTIMONY LEAD-FREE SOLDER	-
SANITARY, WASTE, AND VENT	SERVICE WEIGHT HUBLESS CAST IRON	SERVICE WEIGHT HUBLESS CAST IRON JOINED W/APPROVED STAINLESS MECHANICAL COUPLINGS W/NEOPRENE RESILIENT GASKETS.	NO-HUB COUPLINGS SHALL BE 4-BAND EQUAL TO HUSKY SD-4000
STORM DRAINAGE	SERVICE WEIGHT HUBLESS CAST IRON	SERVICE WEIGHT HUBLESS CAST IRON JOINED W/APPROVED STAINLESS MECHANICAL COUPLINGS W/NEOPRENE RESILIENT GASKETS.	NO-HUB COUPLINGS SHALL BE 4-BAND EQUAL TO HUSKY SD-4000
GAS PIPING (2" AND SMALLER)	SCHEDULE 40 STEEL	SCORED SCHEDULE 40 BLACK STEEL	CORRUGATED STAINLESS STEEL TUBING SHALL BE APPROVED FOR SIZED UP TO 2"
GAS PIPING (2 1/2" AND LARGER)	SCHEDULE 40 STEEL	WELDED SCHEDULE 40 BLACK STEEL	-

PIPE INSULATION SCHEDULE			
SYSTEM	PRODUCT MANUFACTURER	INSULATION THICKNESS	REMARKS
DOMESTIC COLD WATER PIPING, FITTINGS, AND VALVES (40°F - 60°F)	JOHN MANVILLE MICRO-LOK HP OR APPROVED EQUAL. PROVIDE PVC COVERS ON ALL EXPOSED PIPING	LESS THAN 1-1/4" - 1" 1-1/2" TO 4" - 1-1/2"	ALTERNATE PRODUCTS SHALL HAVE A CONDUCTIVITY OF 0.21-0.28 BTU-IN/(H-FT2-F). PROVIDE ALL EXPOSED PIPING WITH PVC PIPE COVERS
DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING, FITTINGS AND VALVES (105°F - 140°F)	JOHN MANVILLE MICRO-LOK HP OR APPROVED EQUAL. PROVIDE PVC COVERS ON ALL EXPOSED PIPING	LESS THAN 1-1/4" - 1/2" 1-1/2" TO 4" - 1"	ALTERNATE PRODUCTS SHALL HAVE A CONDUCTIVITY OF 0.21-0.27 BTU-IN/(H-FT2-F). PROVIDE ALL EXPOSED PIPING WITH PVC PIPE COVERS.
EXPOSED SANITARY, HOT WATER, AND COLD WATER PIPING BELOW LAVATORY AND SINKS	TRUEBRO - LAV GUARD2	RESILIENT MOLDED VINYL	ALTERNATE PRODUCTS SHALL BE SHALL COMPLY WITH ASME A112.8.9-2001 AND ADA ARTICLE 4.19.4
STORM WATER PIPING	JOHN MANVILLE MICRO-LOK HP OR APPROVED EQUAL. PROVIDE PVC COVERS ON ALL EXPOSED PIPING	3" TO 8" - 1/2"	PROVIDE ALL EXPOSED PIPING WITH PVC PIPE COVERS.

- PIPE INSULATION MEETS THE REQUIREMENTS OF 2016 NYCECC SECTION C404.4

BACKFLOW PREVENTER SCHEDULE										
UNIT NO.	LOCATION	SERVICE	BODY MATERIAL	SHUT-OFF VALVE STYLE	SIZE	METER	TEMPERATURE RANGE	MAX. WORKING PRESSURE	MANUFACTURER MODEL	REMARKS
BFP-1	MAIN LEVEL SPKLR RM	FIRE PROTECTION	CAST IRON	OS&Y	6"	NO	33°F-140°F	175 PSI	WATTS 709DCCA-OSY	LEAD FREE
BFP-2	MAIN LEVEL SPKLR RM	DOMESTIC	LEAD FREE COPPER	QUARTER TURN	2"	YES	33°F-180°F	175 PSI	WATTS LF009M2-QT	LEAD FREE

SUMP PUMP SCHEDULE											
UNIT NO.	LOCATION	FLUID	GPM	MAX TEMP. (° F)	HEAD (FT)	ELECTRICAL			MANUFACTURER MODEL	REMARKS	
						HP	VOLTS	PHASE			
SP-1	ELEV. PIT	EFFLUENT	50	120	20	1/2	115	1	8	STANCOR SE-50	NOTES 1-3

NOTES:
1. LOCATE SUMP PUMP IN ELEVATOR PIT PROVIDED BY OTHERS.
2. PROVIDE SUMP PUMP WITH OIL MINDER CONTROL PANEL FOR PUMP CONTROL AND TO DETECT HYDRAULIC OIL IN PIT.
3. PROVIDE CONTROL PANEL WITH ALARM LOCATED IN FIRST FLOOR ELEVATOR CLOSET.

ELECTRIC HOT WATER HEATER SCHEDULE											
UNIT #	LOCATION	GALLONS	RECOVERY RATE (GPH (90° RISE))	FIRST HOUR	HEATING ELEMENT (WATTS)	ELECTRICAL KW	VOLTS	PHASE	MANUFACTURER MODEL	ENERGY FACTOR	REMARKS
EWH-1	1ST FLR STORAGE	40	21	53	(2)4,500	4.5	208	1	AO SMITH ENT-40	.95	NOTES 1-3
EWH-2	3RD FLR STORAGE	30	21	48	(2)4,500	4.5	208	1	AO SMITH ENT-30	.95	NOTES 1-3
EWH-3	KITCHENETTE UNDERCOUNTER	2.6	-	-	(1)1,440	1.44	120	1	EEMAX EMT2.5	.95	NOTES 1-3

NOTES:
1. DISCHARGE ALL DRAINAGE FROM DRAIN PAN INDIRECTLY INTO FLOOR DRAIN.
2. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION
3. WATER HEATER PROVIDED WITH NON-SIMULTANEOUS HEATING ELEMENTS PER MANUFACTURER SPECIFICATIONS.

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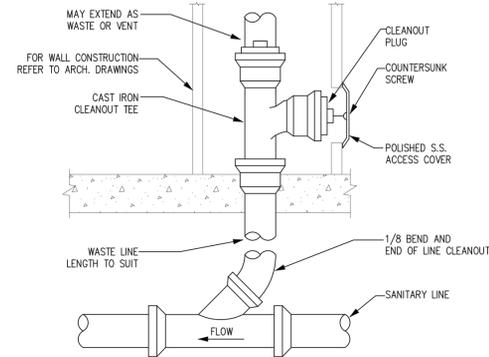
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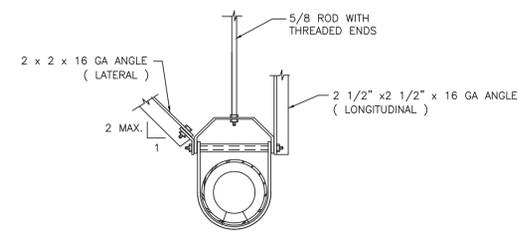
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P3.01
PLUMBING SCHEDULES

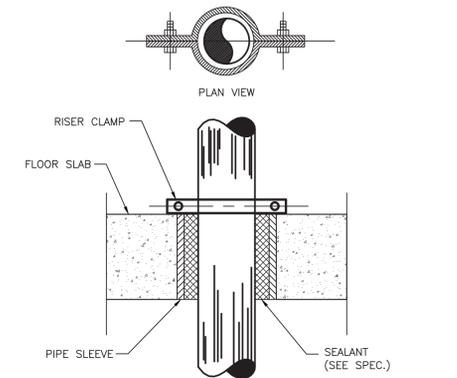


1 FINISHED ROOM WALL CLEANOUT
SCALE: NONE

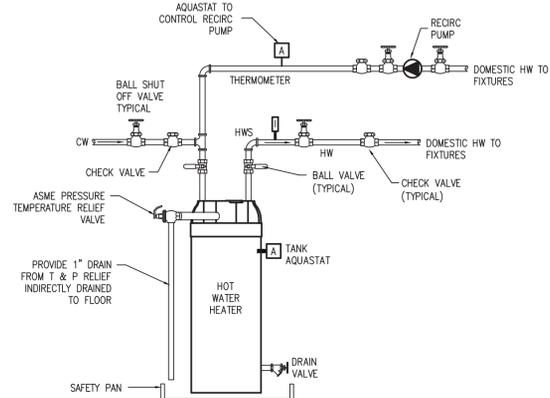


1. PROVIDE LONGITUDINAL AND LATERAL BRACING ON PIPING 2 1/2" AND GREATER, GAS PIPING 1" I.D. AND GREATER AND PIPING IN BOILER AND MECHANICAL ROOMS 1 1/4" AND GREATER, WHERE SUSPENDED 12" OR MORE FROM SUPPORTING STRUCTURE.
2. PROVIDE SIMILAR BRACING ON ALL DUCTWORK WITH CROSS-SECTIONAL AREA OF 6 SF OR GREATER OR DIAMETER OF 28 IN. OR GREATER WHERE SUSPENDED 12" OR MORE FROM SUPPORTING STRUCTURE.
3. MAKE END CONNECTIONS TO EXISTING STRUCTURAL STEEL WITH 1/2" BOLTS OR TO CONCRETE DECK PER CONNECTION TO CONCRETE DETAIL ABOVE.

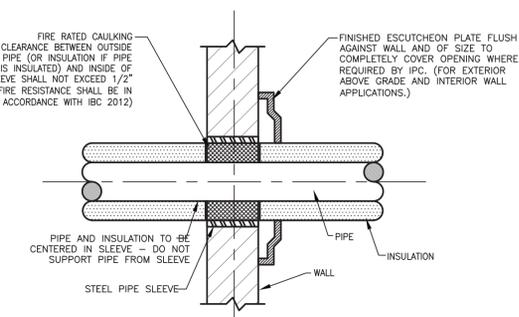
2 PIPE SUPPORT DETAIL
SCALE: NONE



3 PIPE SLEEVE THROUGH FLOOR SLAB
SCALE: NONE

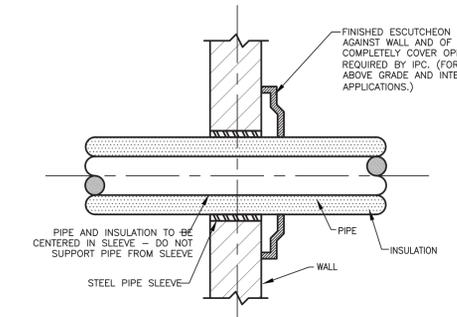


4 HOT WATER HEATER CONNECTION DETAIL
SCALE: NONE



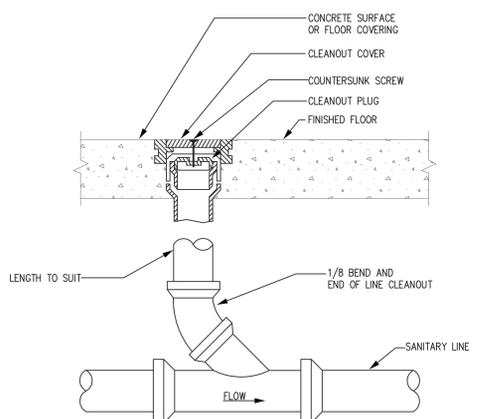
- FIRE-RATED NOTES:**
- THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENCE OF 0.01 INCH OF WATER.
 - THE SYSTEM SHALL HAVE A F-RATING OF NOT LESS THAN ONE HOUR, BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATING.

5 FIRE RATED WALL PIPE PENETRATION DETAIL
SCALE: NONE

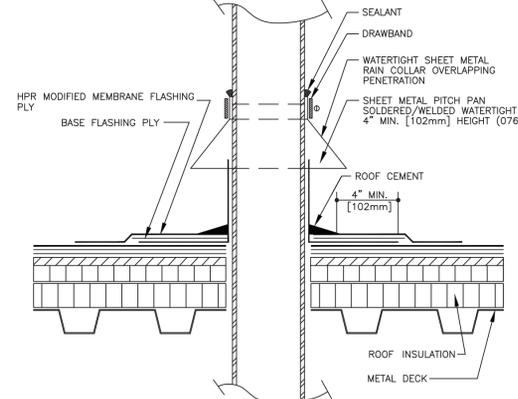


- NON-RATED NOTES:**
- NONFIRE-RESISTANCE-RATED ASSEMBLIES:
 - ANNULAR SPACE MUST BE FILLED TO RESIST FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION WITH AN APPROVED NONCOMBUSTIBLE MATERIAL OR WITH A FILL, VOID, OR CAVITY MATERIAL THAT IS TESTED AND CLASSIFIED FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS.

6 PIPE PENETRATION DETAIL NON-RATED WALL
SCALE: NONE



7 FINISHED FLOOR CLEANOUT
SCALE: NONE



8 ROOF PIPE PENETRATION DETAIL
SCALE: NONE



1 OVERALL FIRE PROTECTION GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

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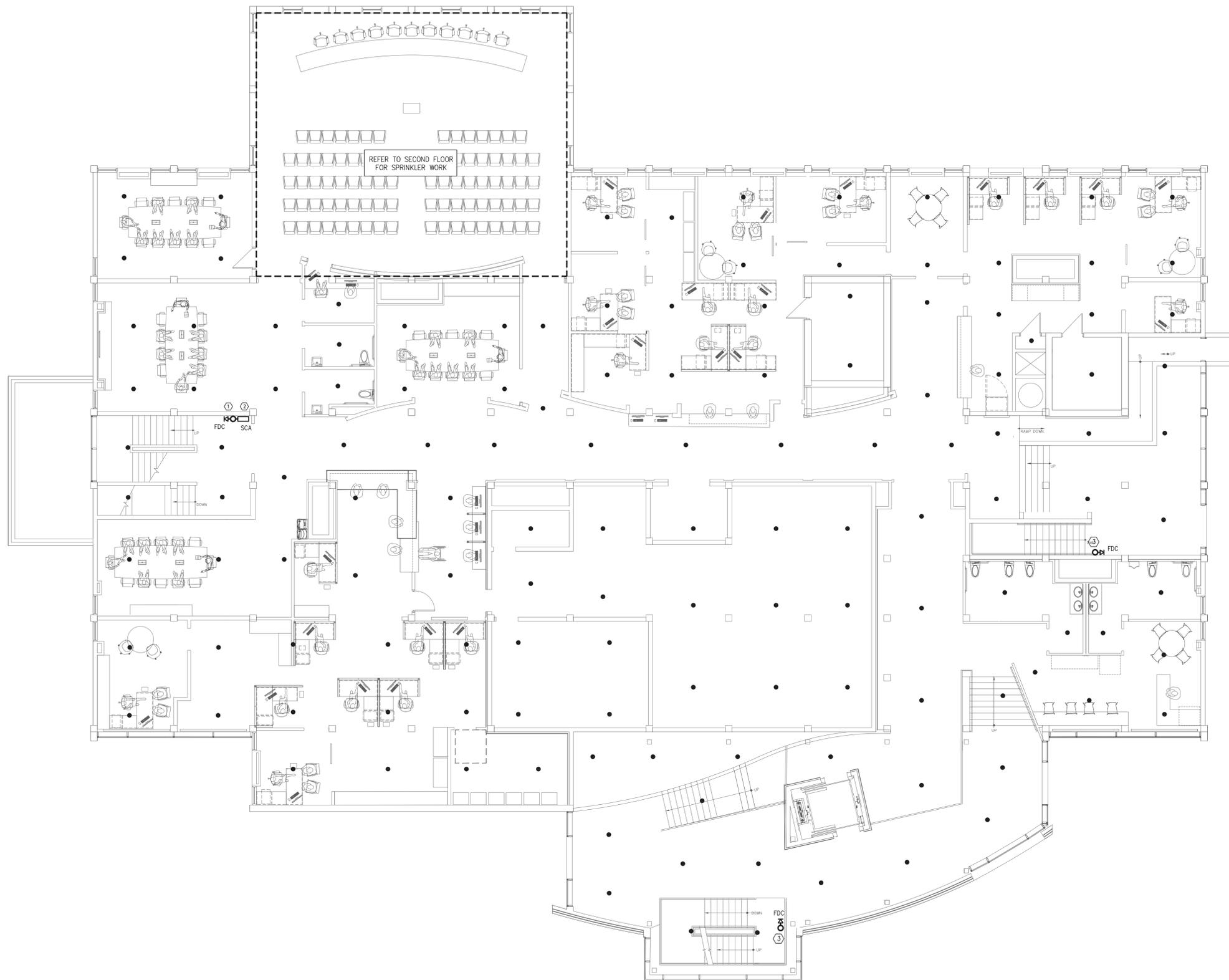
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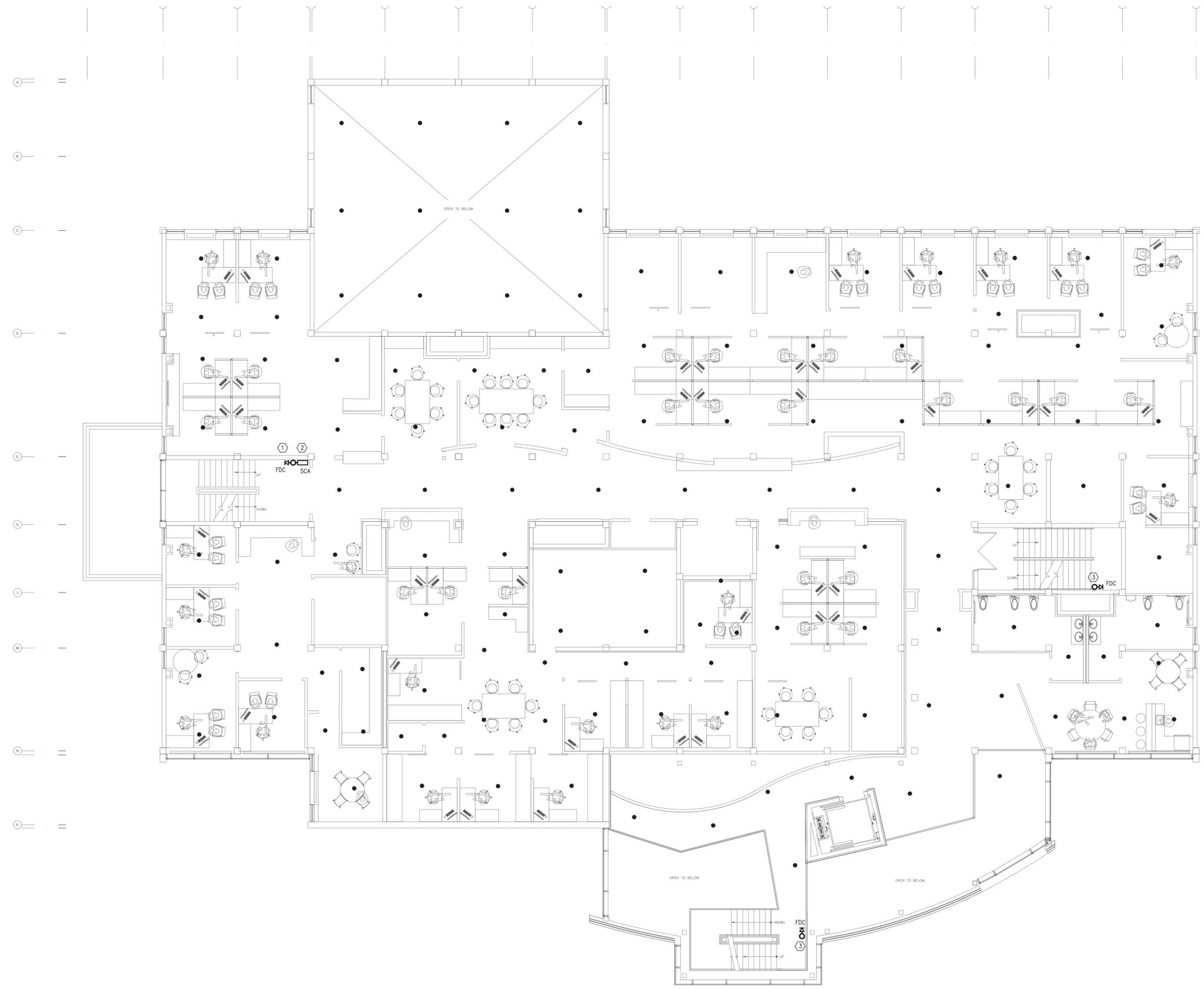
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FP1.01
OVERALL FIRE
PROTECTION
GROUND FLOOR
PLAN



1 OVERALL FIRE PROTECTION FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"



1 OVERALL FIRE PROTECTION SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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FP1.21
 OVERALL FIRE
 PROTECTION
 SECOND FLOOR
 PLAN



1 OVERALL FIRE PROTECTION THIRD FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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FP1.31
 OVERALL FIRE PROTECTION THIRD FLOOR PLAN