

## REQUEST FOR BIDS

No. 2016-008

CASEY COMMUNITY CENTER  
INTERIOR RENOVATIONS

# EXHIBIT A DRAWINGS



Gaithersburg  
A CHARACTER COUNTS! CITY

**CASEY  
COMMUNITY  
CENTER INTERIOR  
RENOVATION**

810 S FREDERICK AVE,  
GAITHERSBURG, MD 20877

**NIKA** ARCHITECTS  
+ENGINEERS

NIKA A+E  
451 HUNGERFORD DRIVE (P)301.770.3520  
4TH FLOOR (F)301.770.3521  
ROCKVILLE, MD 20850 www.nika-ae.com

Professional Certification.  
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State of Maryland, license  
number 15975, expiration date  
10.16.2015

No.	Description	Date

Revisions

Drawing Title

**COVER SHEET**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015 Drawing Scale: AS NOTED

Date  
07-15-15 CADD Filename  
Revit Model CADD Plot Scale  
1:1

Drawn By  
PG

Checked By  
AV

Sheet Number  
**A001**

# PROPOSED DESIGN DRAWINGS

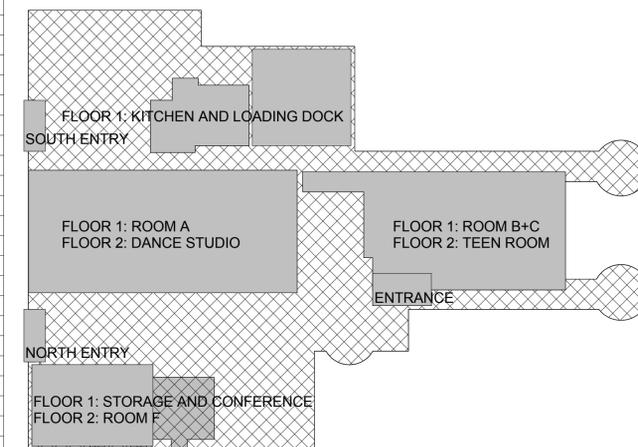
## CITY OF GAITHERSBURG - CASEY COMMUNITY CENTER 810 S FREDERICK AVE, GAITHERSBURG, MARYLAND 20877

### 100% SUBMITTAL

#### SHEET LIST

SHEET NUMBER	SHEET NAME
A001	COVER SHEET
A002	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
A003	LIST OF REQUIRED SUBMITTALS
A100	FIRST FLOOR OVERALL PLAN
A101	SECOND FLOOR OVERALL PLAN
A102	ROOF OVERALL PLAN
A103	SITE PLAN
A200	FIRST FLOOR ELEVATION KITCHEN
A201	FIRST FLOOR ELEVATION CONFERENCE ROOM AND ENTRIES
A300	ROOM SECTIONS AND DETAILS
A400	FIRST FLOOR ENLARGED PLANS - DEMOLITION
A401	FIRST FLOOR ENLARGED PLANS
A402	FIRST FLOOR ENLARGED REFLECTED CEILING PLANS
A403	SECOND FLOOR ENLARGED PLAN - COMPUTER ROOM F - DEMOLITION AND NEW WORK
A405	SECOND FLOOR ENLARGED REFLECTED CEILING PLAN - ROOM F
A406	SECOND FLOOR ENLARGED REFLECTED CEILING PLAN - TEEN ROOM E
A407	SECOND FLOOR ENLARGED REFLECTED CEILING PLAN - DANCE STUDIO
A600	FIRST FLOOR FINISH SCHEDULE
A601	SECOND FLOOR FINISH SCHEDULE
E001	ELECTRICAL NOTES AND SYMBOLS
E101	ELECTRICAL SITE PLAN
E102	ELECTRICAL FIRST FLOOR OVERALL PLAN
E103	ELECTRICAL SECOND FLOOR OVERALL PLAN
E501	ELECTRICAL DETAILS
EDL101	ELECTRICAL FIRST FLOOR ENLARGED REFLECTED CEILING PLAN - DEMOLITION
EDL102	ELECTRICAL SECOND FLOOR ENLARGED RCP - COMPUTER ROOM F - DEMOLITION
EDP101	ELECTRICAL FIRST FLOOR ENLARGED PLANS - DEMOLITION
EL101	ELECTRICAL FIRST FLOOR ENLARGED REFLECTED CEILING PLAN
EL102	ELECTRICAL SECOND FLOOR ENLARGED RCP - COMPUTER ROOM F
EL501	ELECTRICAL LUMINARE SCHEDULE
EL601	ELECTRICAL LIGHTING CALCULATIONS - SITE
EP101	ELECTRICAL FIRST FLOOR ENLARGED PLANS
EP501	ELECTRICAL RISER DIAGRAM
EP601	ELECTRICAL PANEL SCHEDULES
M001	MECHANICAL NOTES AND SYMBOLS
M100	MECHANICAL FIRST FLOOR OVERALL PLAN
M101	MECHANICAL SECOND FLOOR OVERALL PLAN
M400	MECHANICAL FIRST FLOOR ENLARGED PLANS - DEMOLITION
M401	MECHANICAL FIRST FLOOR ENLARGED PLAN
M402	MECHANICAL SECOND FLOOR ENLARGED PLAN
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
P001	PLUMBING GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
P100	PLUMBING FIRST FLOOR OVERALL PLAN - DEMOLITION
P101	PLUMBING FIRST FLOOR OVERALL PLAN
P400	PLUMBING FIRST FLOOR ENLARGED PLANS - DEMOLITION
P401	PLUMBING FIRST FLOOR ENLARGED PLANS
P501	PLUMBING RISER DIAGRAMS AND SCHEDULE
P601	PLUMBING DETAILS

#### BUILDING FOOTPRINT AND AREAS OF WORK



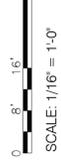
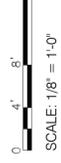
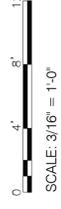
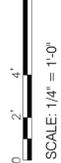
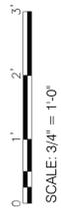
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A CHARACTER COUNTS! CITY



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED  
SCALE: 1-1/2" = 1'-0"  
SCALE: 1" = 1'-0"  
SCALE: 3/4" = 1'-0"  
SCALE: 1/2" = 1'-0"  
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SCALE: 3/16" = 1'-0"  
SCALE: 1/8" = 1'-0"  
SCALE: 1/16" = 1'-0"



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**LIST OF REQUIRED SUBMITTALS**

THE FOLLOWING LIST INFORMS OF THE ESSENTIAL TECHNICAL SUBMITTALS REQUIRED AT MINIMUM. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL RELEVANT SUBMITTALS FOR THE ENTIRE PROJECT'S PROCUREMENT. PROVIDE CALCULATIONS AS NECESSARY. IN ADDITION, PROVIDE ADMINISTRATIVE SUBMITTAL AS REQUIRED BY THE SOLICITATION.

**ARCHITECTURAL:**

- STORAGE ROOM:
  1. FIRE RATED DOOR AND HARDWARE
  2. VCT FLOOR TILE PRODUCT DATA AND SAMPLE
- FLOORING TRANSITION
- CONFERENCE ROOM:
  1. FIRE RATED DOOR AND HARDWARE
  2. CONFERENCE TABLE
  3. SIX(6) CONFERENCE CHAIRS
  4. CABINETS PRODUCT DATA AND SAMPLE
  5. CARPET PRODUCT DATA AND SAMPLE
  6. SUSPENDED CEILING SYSTEM
  7. WALL PAINT
  8. QUARTZ BASED COUNTERTOP MATERIAL PRODUCT DATA AND SAMPLE
  9. FLOORING TRANSITIONS
- BATHROOM:
  1. DOOR
  2. CEILING SYSTEM
  3. WALL TILE PRODUCT DATA AND SAMPLE
  4. VCT FLOOR TILE PRODUCT DATA AND SAMPLE
  5. MIRROR
  6. SOAP DISPENSER
  7. TOILET PAPER HOLDER
  8. SANITARY NAPKIN DISPOSAL
  9. FLOORING TRANSITIONS
- KITCHEN:
  1. STAINLESS STEEL ISLAND TABLE
  2. STAINLESS STEEL L TABLE
  3. REFRIGERATOR
  4. FREEZER
  5. SUSPENDED CEILING SYSTEM
  6. WALL TILE PRODUCT DATA AND SAMPLE
  7. FLOOR TILE PRODUCT DATA AND SAMPLE
  8. FLOORING TRANSITIONS
  9. ROOF CURB SHOP DRAWINGS
  10. SHEET METAL
- LOADING DOCK (NEXT TO KITCHEN)
  1. SUSPENDED CEILING SYSTEM
  2. FLOORING TRANSITIONS
- TEEN ROOM:
  1. ACOUSTIC CEILING BAFFLES
  2. WALL AND CEILING PAINT
- DANCE STUDIO:
  1. ACOUSTIC CEILING BAFFLES
  2. WALL AND CEILING PAINT
- MULTIPURPOSE ROOM:
  1. SUSPENDED CEILING SYSTEM
  2. WALL PAINT
  3. CARPET
  4. FLOORING TRANSITIONS
- ROOMS A, B & C
  1. FLOOR TILE PRODUCT DATA AND SAMPLE
  2. FLOORING TRANSITIONS

**ELECTRICAL:**

1. ELECTRICAL DEVICES
2. ELECTRICAL EQUIPMENT (PANELS, DISCONNECTS, MOTOR RATES SWITCHES)
3. WIRING, CONDUITS, AND FITTINGS
4. LIGHT FIXTURES
5. COMMON ELECTRICAL MATERIALS (JUNCTION BOXES, SUPPORTS, FITTINGS, ETC.)

**MECHANICAL:**

1. SPLIT SYSTEM
2. ERU
3. ELECTRICAL HEATING COIL
4. EXHAUST FAN
5. MAKE UP FAN
6. CABINET UNIT HEATERS
7. DUCTWORK SHOP DRAWINGS AND PRODUCT DATA
8. SYSTEM LAYOUT FIELD COORDINATION SHOP DRAWING
9. CONTROLS AND TAB SETTINGS
10. SEQUENCE OF OPERATIONS
11. TAB REPORT

**PLUMBING**

- KITCHEN**
1. THREE COMPARTMENT SINK
  2. GREASE INTERCEPTOR
  3. ICEMAKER
  4. COMMERCIAL DISHWASHER
  5. HAND SINK
  6. MOPE SINK
  7. PVC DRAIN AND VENT PIPE
  8. CPVC WATER PIPE
- STORAGE**
1. WASHER/DRYER
  2. WATER CLOSET
  3. LAVATORY



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No.	Description	Date

Revisions

**LIST OF REQUIRED SUBMITTALS**

Phase  CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015		Drawing Scale: AS NOTED	
Date 07-15-15	CADD Filename Revit Model	CADD Plot Scale 1:1	

Drawn By PG  
Checked By AV  
Sheet Number **A003**



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Drawing Title

FIRST FLOOR OVERALL PLAN

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015

Drawing Scale: AS NOTED

Date  
07-15-15

CADD Filename  
Revit Model

CADD Plot Scale  
1:1

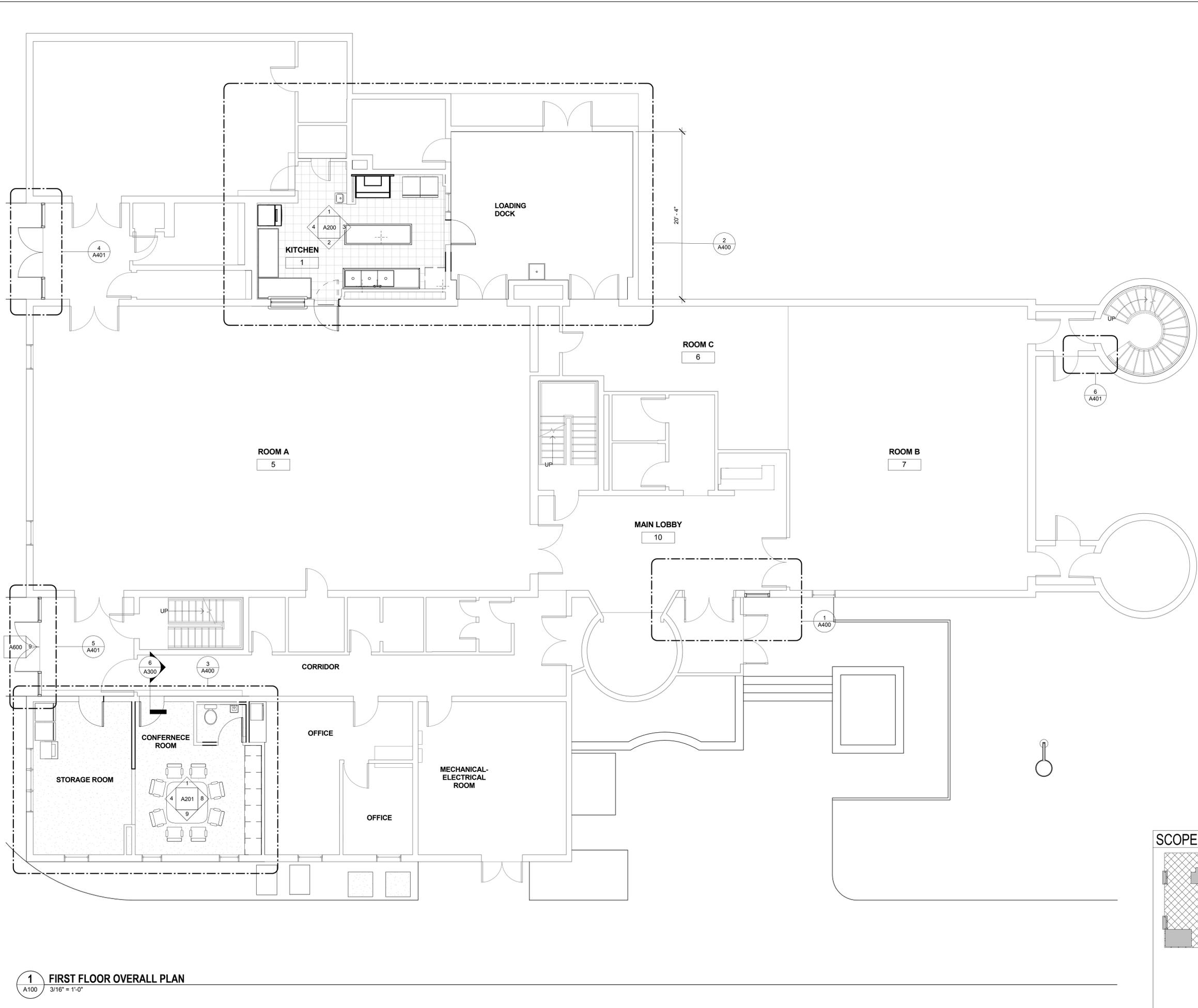
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PG

Checked By  
AV

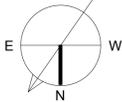
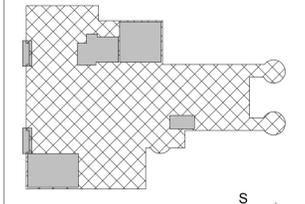
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**A100**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



#### SCOPE OF WORK



**1** FIRST FLOOR OVERALL PLAN  
A100 3/16" = 1'-0"



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No.	Description	Date

Revisions

Drawing Title  
**SECOND FLOOR OVERALL  
PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015 Drawing Scale: AS NOTED

Date  
07-15-15 CADD Filename  
Revit Model CADD Plot Scale  
1:1

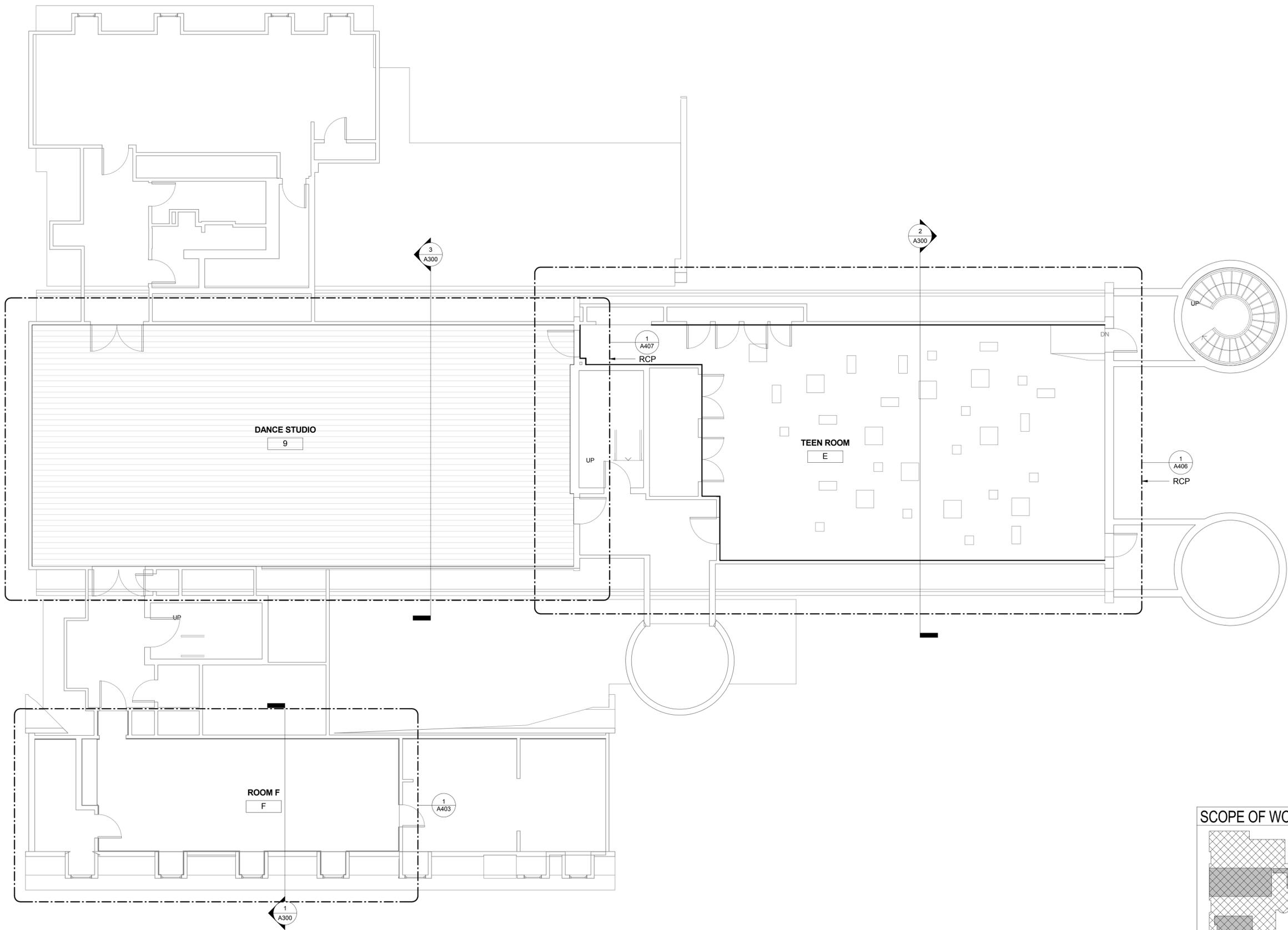
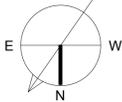
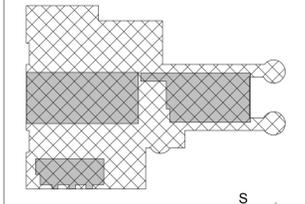
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Sheet Number  
**A101**



#### SCOPE OF WORK



**1 SECOND FLOOR OVERALL PLAN**  
A101 3/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 1' 2' 3' SCALE: 3/4" = 1'-0"

0 1' 2' 4' SCALE: 1/2" = 1'-0"

0 2' 4' 6' SCALE: 1/4" = 1'-0"

0 4' 8' 12' SCALE: 3/16" = 1'-0"

0 8' 16' 32' SCALE: 1/16" = 1'-0"



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Revisions

Drawing Title

**ROOF OVERALL PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015 Drawing Scale: AS NOTED

Date  
07-15-15 CADD Filename  
Revit Model CADD Plot Scale  
1:1

Drawn By  
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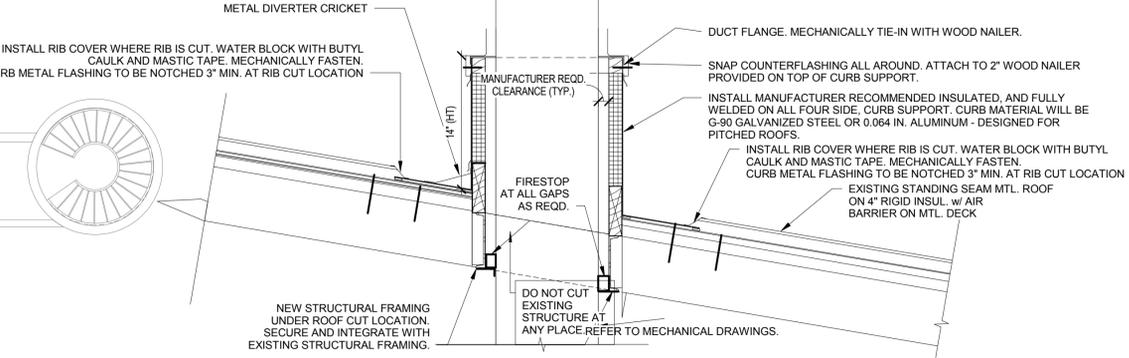
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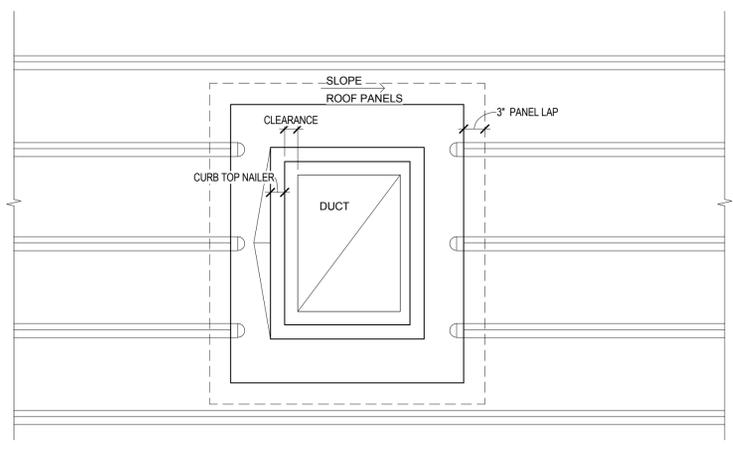


### NOTES:

1. ANY EXISTING ROOF AND ROOFING WARRANTY MUST BE MAINTAINED DURING AND AFTER CONSTRUCTION. FLASH AND COUNTERFLASH THE ENTIRE INSTALLATION THROUGHOUT.
2. ALL ROOF WORK SHALL BE PERFORMED BY A QUALIFIED ROOFING INSTALLER.
3. PROCURE THE ROOF CURB WITH THE SAME MATERIAL AS THE EXISTING STANDING SEAM METAL ROOF. INSTALL PER MANUFACTURER'S INSTRUCTION.
4. ALL METAL TO METAL LAP CONNECTIONS WILL BE WEATHER SEALED WITH MASTIC TAPE AND BUTYL CAULKING ALL AROUND. ALL INSTALLATIONS WILL BE MECHANICALLY FASTENED.
5. ORDER THE CURB WITH CONSIDERATIONS OF DUCT SIZE, REQUIRED CLEARANCES, HEIGHT ABOVE ROOF AND ROOF PITCH. PROVIDE SHOP DRAWINGS FOR REVIEW.
6. BIRD SCREEN MUST BE PROVIDED FOR GOOSENECK INTAKE

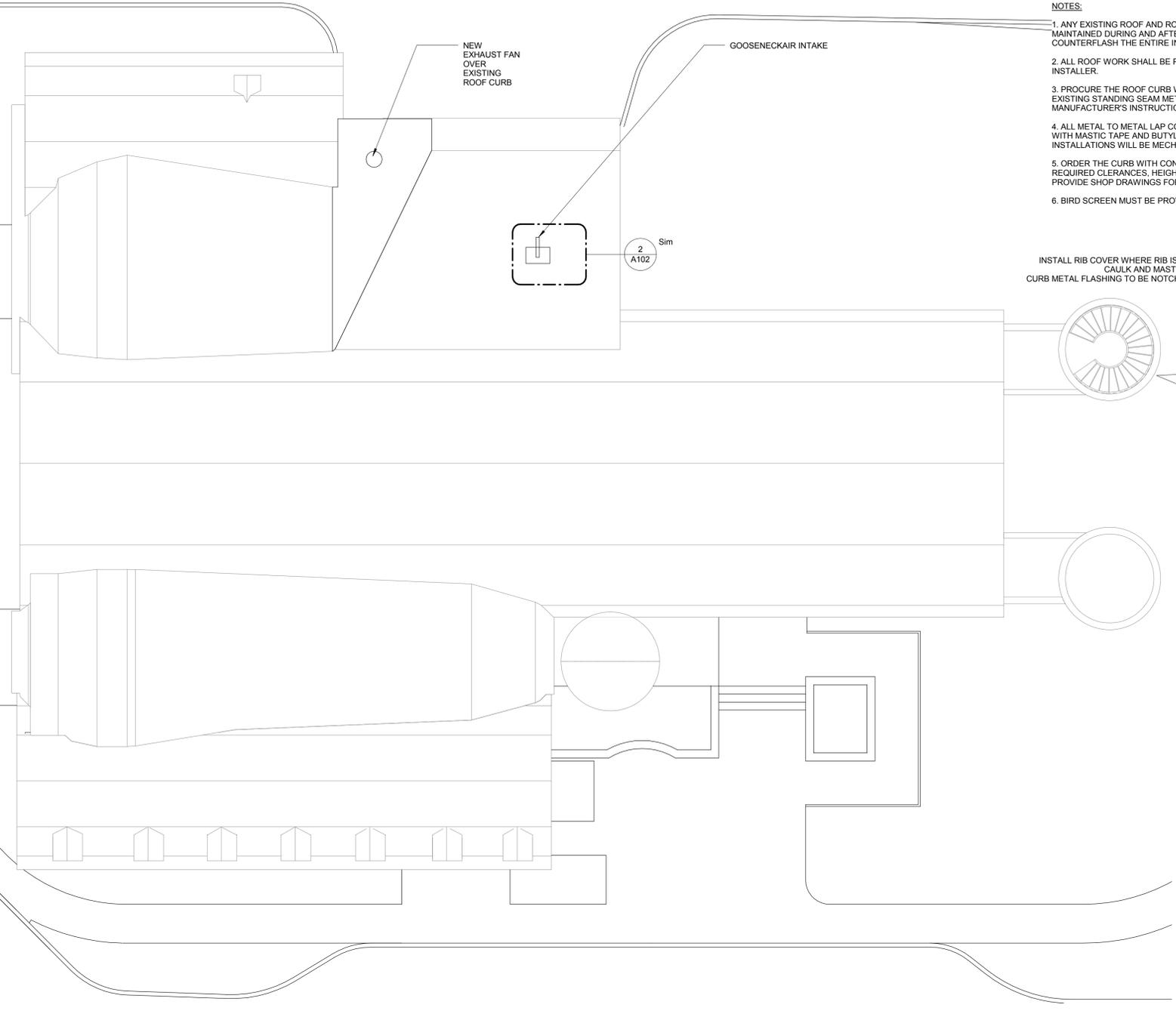


CROSS SECTION VIEW AT NEW EXHAUST FAN CURB



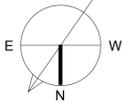
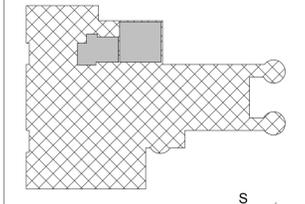
ROOF PLAN VIEW AT NEW GOOSENECK AIR INTAKE

**2** GOOSENECK DETAIL  
A102 1" = 1'-0"



**1** ROOF PLAN  
A102 1/8" = 1'-0"

### SCOPE OF WORK



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- 0 1' 2' SCALE: 1-1/2" = 1'-0"
- 0 1' 1" SCALE: 1" = 1'-0"
- 0 1/2' 2' 3' SCALE: 3/4" = 1'-0"
- 0 1' 2' 3' 4' SCALE: 1/2" = 1'-0"
- 0 1' 2' 4' 6' 8' SCALE: 1/4" = 1'-0"
- 0 1' 2' 4' 6' 8' 12' SCALE: 3/16" = 1'-0"
- 0 1' 2' 4' 6' 8' 12' 16' SCALE: 1/8" = 1'-0"
- 0 1' 2' 4' 6' 8' 12' 16' 32' SCALE: 1/16" = 1'-0"



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Drawing Title  
**SITE PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015 Drawing Scale: AS NOTED

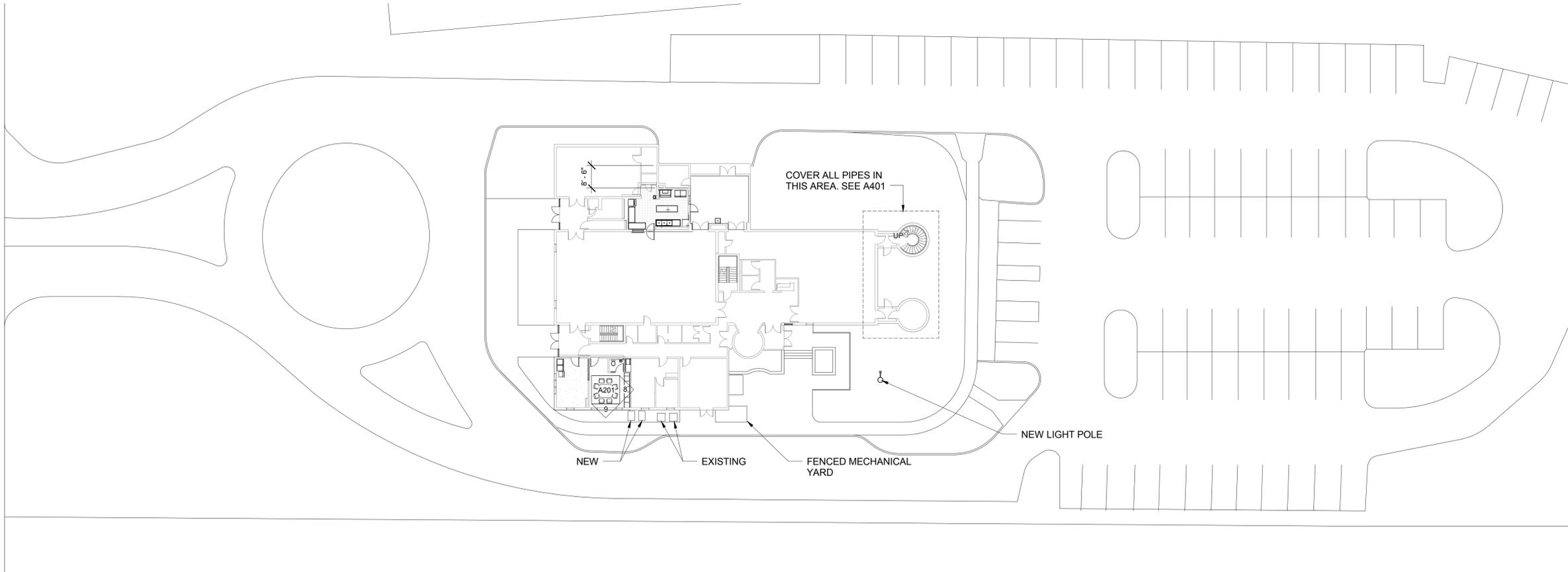
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07-15-15 CADD Filename  
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Drawn By  
Author

Checked By  
Checker

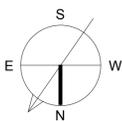
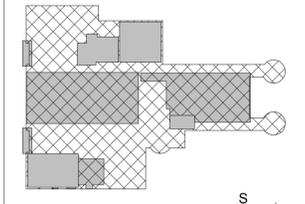
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COORDINATE STAGING AREA WITH PROGRAM DIRECTOR



**1 SITE PLAN**  
A103 3/64" = 1'-0"

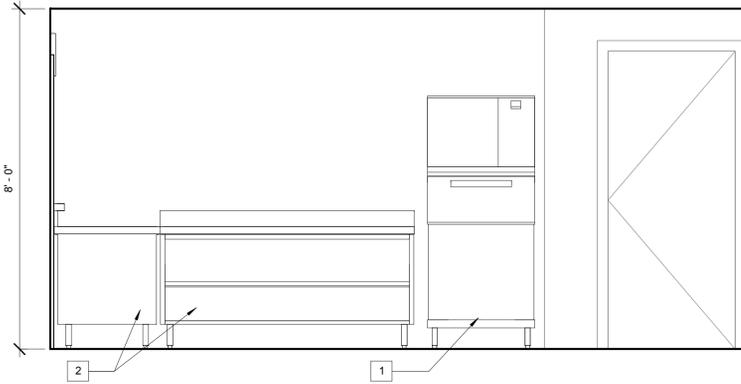
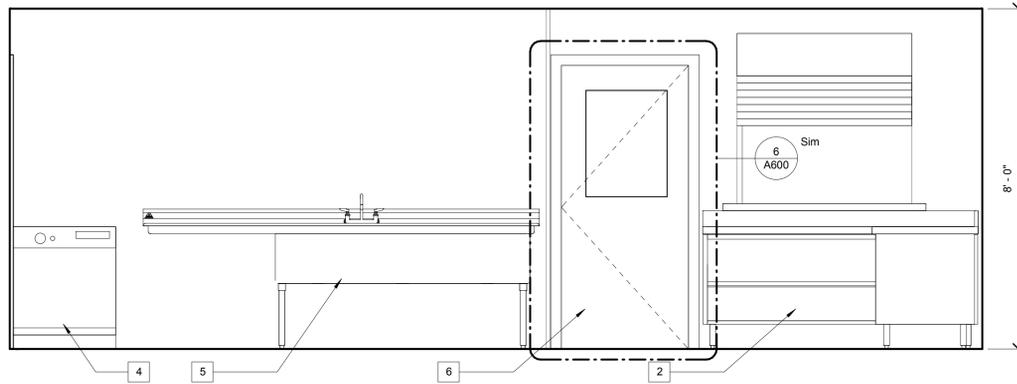
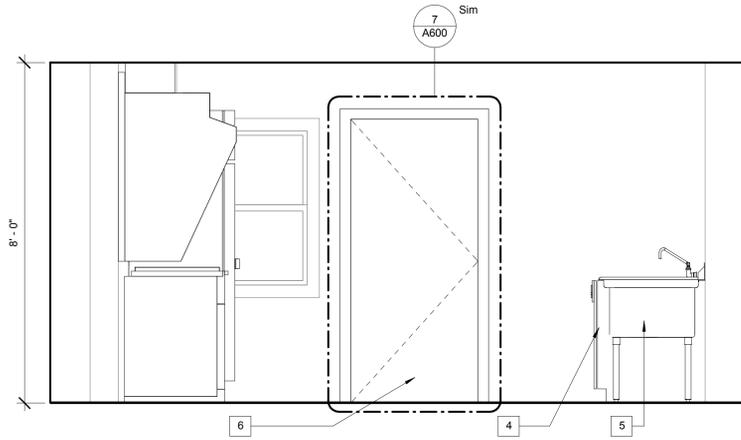
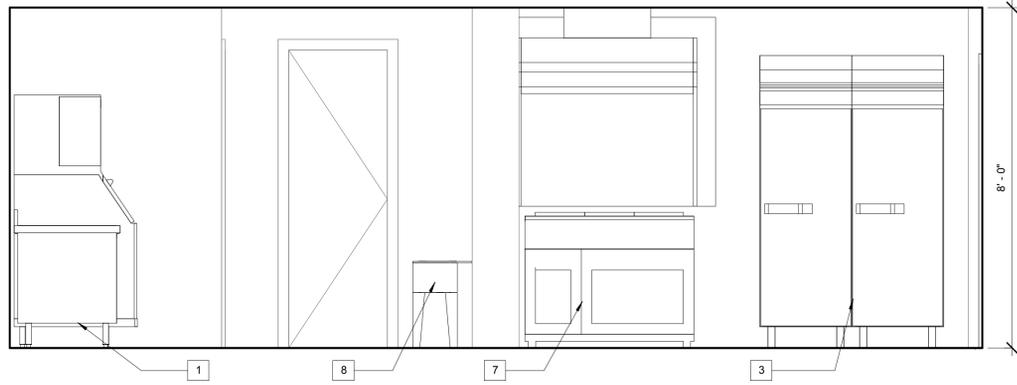
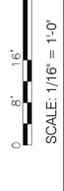
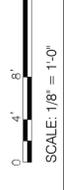
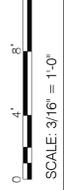
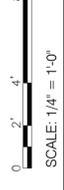
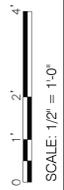
#### SCOPE OF WORK



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- 0 1' 2' 4' SCALE: 1/4" = 1'-0"
- 0 1' 2' 4' 8' SCALE: 1/8" = 1'-0"
- 0 1' 2' 4' 8' 12' SCALE: 3/16" = 1'-0"
- 0 1' 2' 4' 8' 12' 16' SCALE: 1/16" = 1'-0"
- 0 1' 2' 4' 8' 12' 16' 32' SCALE: 1/16" = 1'-0"

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**NEW CONSTRUCTION LEGEND** #

1. INSTALL NEW ICEMAKER
2. INSTALL NEW TABLE
3. INSTALL NEW REFRIGERATOR/FREEZER
4. INSTALL NEW DISHWASHER
5. INSTALL NEW KITCHEN TABLE WITH SINKS AND FLANGE FEET (ACCESSORY S-31)
6. INSTALL NEW DOOR. SEE A600
7. REINSTALL STOVE, RANGE AND HOOD AFTER COMPLETING CONSTRUCTION
8. INSTALL NEW PEDESTAL HAND SINK

**1 KITCHEN SOUTH**  
A200 1/2" = 1'-0"

**3 KITCHEN WEST**  
A200 1/2" = 1'-0"

**2 KITCHEN NORTH**  
A200 1/2" = 1'-0"

**4 KITCHEN EAST**  
A200 1/2" = 1'-0"



**CASEY COMMUNITY CENTER INTERIOR RENOVATION**

810 S FREDERICK AVE,  
GAITHERSBURG, MD 20877

**NIKA ARCHITECTS + ENGINEERS**

NIKA A+E  
451 HUNGERFORD DRIVE (P)301.770.3520  
4TH FLOOR (F)301.770.3521  
ROCKVILLE, MD 20850 www.nika-ae.com

Professional Certification.  
I certify that these documents were prepared or approved by me, and that I am a duly licensed architect under the laws of the State of Maryland, license number 15975, expiration date 10.16.2015

No.	Description	Date

Revisions

Drawing Title  
**FIRST FLOOR ELEVATION KITCHEN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number: 12-0009.015 Drawing Scale: AS NOTED

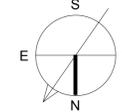
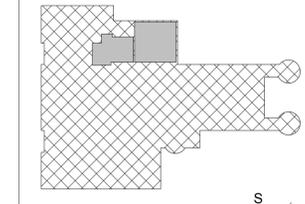
Date: 07-15-15 CADD Filename: Revit Model CADD Plot Scale: 1:1

Drawn By: PG

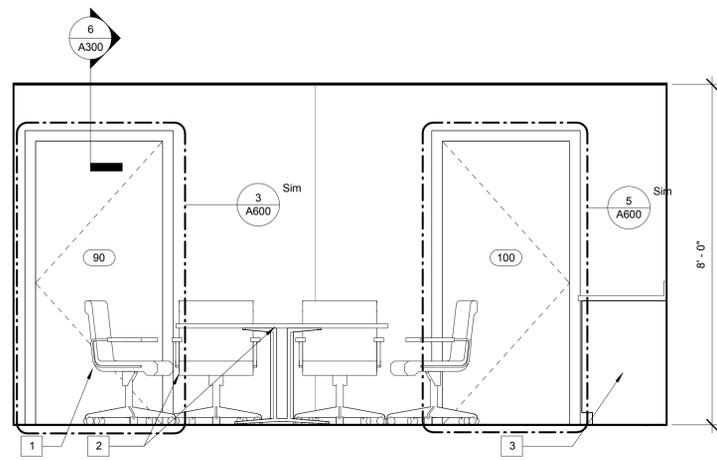
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Sheet Number: **A200**

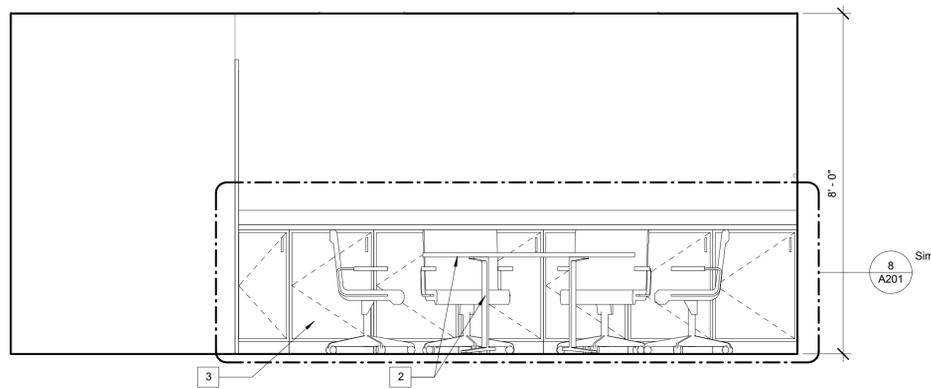
**SCOPE OF WORK**



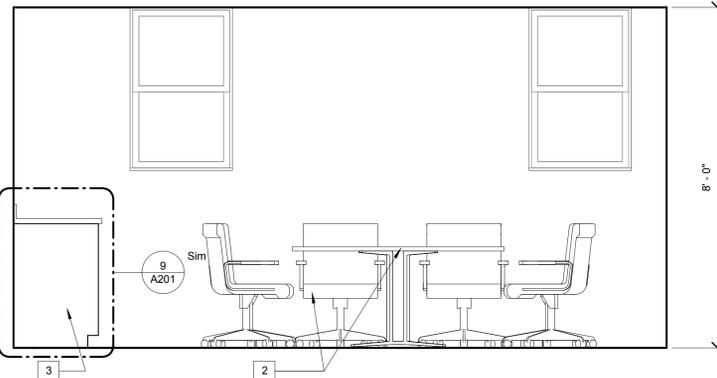
IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



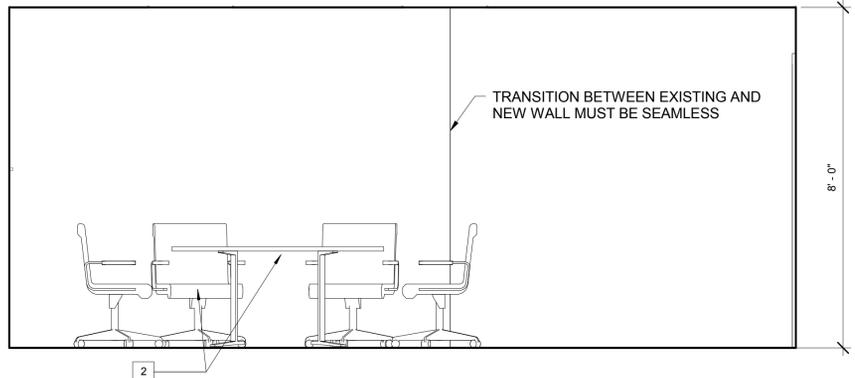
**1 CONFERENCE SOUTH**  
A201 1/2" = 1'-0"



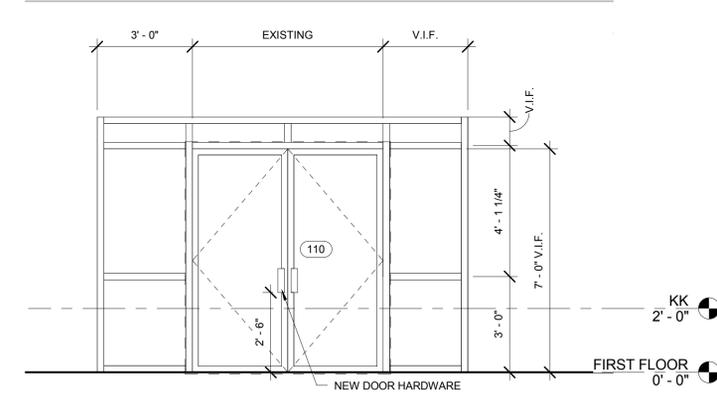
**3 CONFERENCE WEST**  
A201 1/2" = 1'-0"



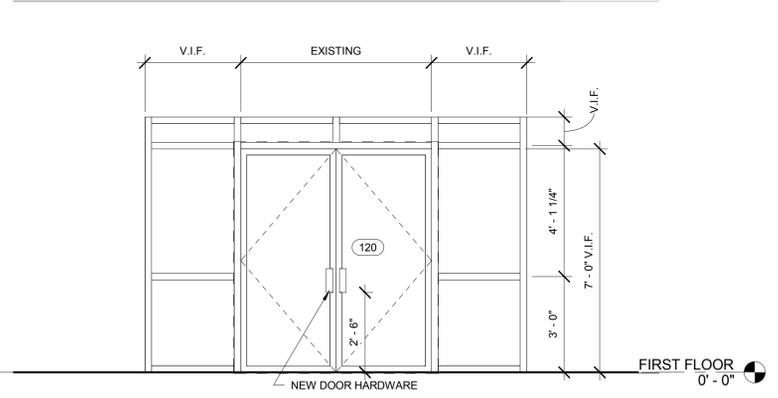
**2 CONFERENCE NORTH**  
A201 1/2" = 1'-0"



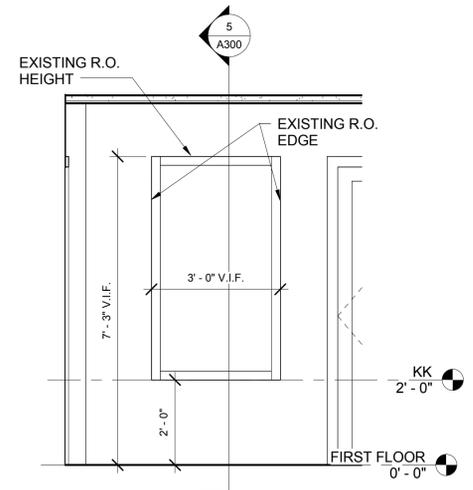
**4 CONFERENCE EAST**  
A201 1/2" = 1'-0"



**5 SOUTH ENTRY**  
A201 3/8" = 1'-0"



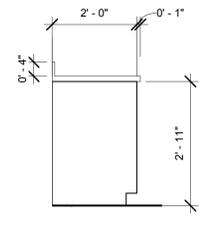
**6 NORTH ENTRY**  
A201 3/8" = 1'-0"



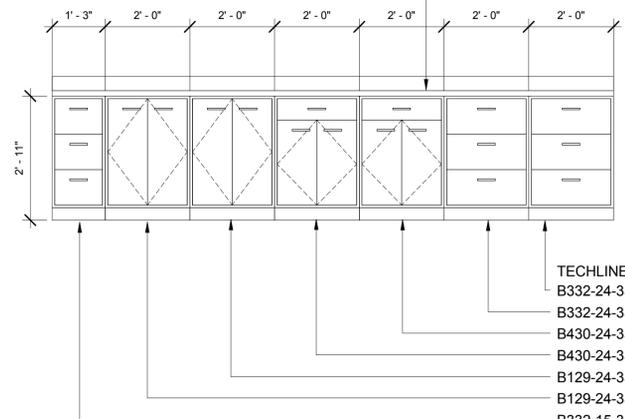
**7 LOBBY WINDOW**  
A201 1/2" = 1'-0"

**NEW CONSTRUCTION LEGEND #**

1. INSTALL NEW DOOR
2. INSTALL NEW CONFERENCE TABLE AND CHAIRS
3. INSTALL NEW BASE CABINETS



**9 CASEWORK DETAIL**  
A201 1/2" = 1'-0"



**8 CASEWORK FRONT DETAIL**  
A201 1/2" = 1'-0"

DUPONT ZODIAQ QUARTZ CONTERTOP

- TECHLINE CASEWORK  
B332-24-35-24-9-2-W15  
B332-24-35-24-9-2-W15  
B430-24-35-24-9-0-W15  
B430-24-35-24-9-0-W15  
B129-24-35-24-9-0-W15  
B129-24-35-24-9-1-W15  
B332-15-35-24-9-0-W15

TECHLINE HARDWARE

PULL:  
0161-0154000000  
SLIMLINE 128 PULL  
MATTE NICKEL FINISH

HINGE:  
0361-0093000000  
CONCEALED HINGE

DRAWER SLIDES:  
0461-0673000000  
24" DEEP SLIDES

ROLLER CATCH:  
0261-1410000000  
PART 1  
0263-1398000000  
PART 2

LOCK:  
TO MATCH CABINET  
TYPE AND PULL FINISH



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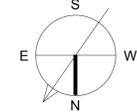
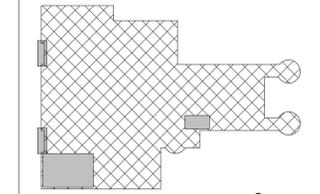


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**SCOPE OF WORK**



**FIRST FLOOR ELEVATION CONFERENCE ROOM AND ENTRIES**

Phase:  CONCEPT  30%  60%  90%  100%

AE Project Number: 12-0009.015  
Date: 07-15-15

Drawing Title: FIRST FLOOR ELEVATION CONFERENCE ROOM AND ENTRIES

Drawing Scale: AS NOTED  
CADD Filename: Revit Model  
CADD Plot Scale: 1:1

Drawn By: PG  
Checked By: AV

Sheet Number: **A201**

NIKA ARCHITECTS License #15975  
TAE Y. JUNG  
STATE OF MARYLAND



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No.	Description	Date

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Drawing Title

**ROOM SECTIONS AND  
DETAILS**

Phase  
 CONCEPT  30%  60%  90%  100%

AE Project Number: 12-0009.015 Drawing Scale: AS NOTED

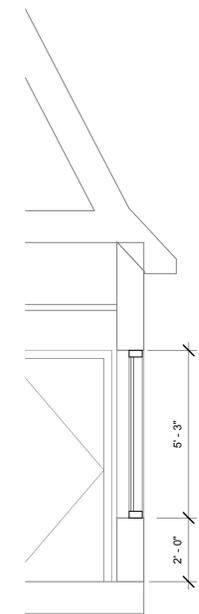
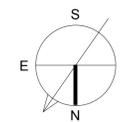
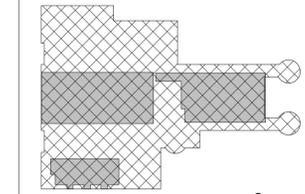
Date: 07-15-15 CADD Filename: Revit Model CADD Plot Scale: 1:1

Drawn By: PG  
Checked By: AV

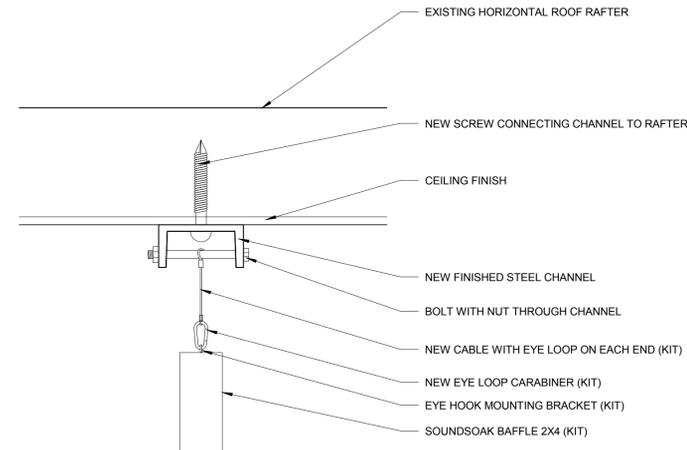
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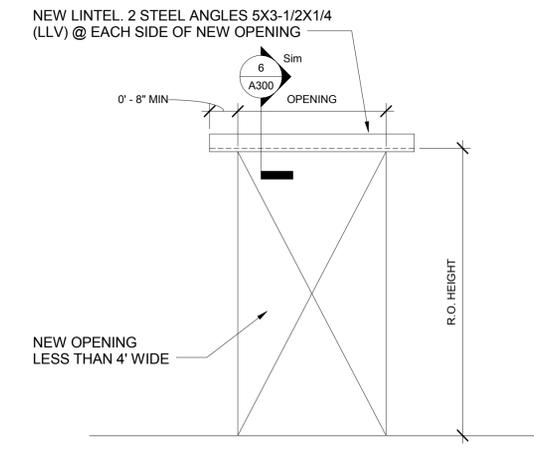
**SCOPE OF WORK**



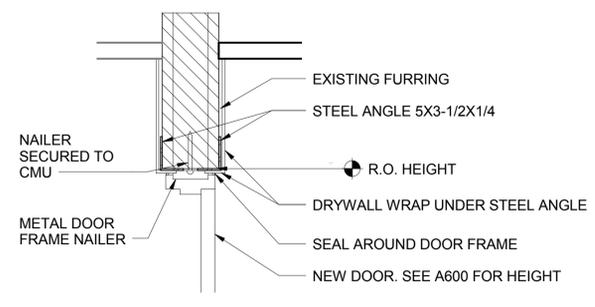
**5 ENTRY**  
A300 3/8" = 1'-0"



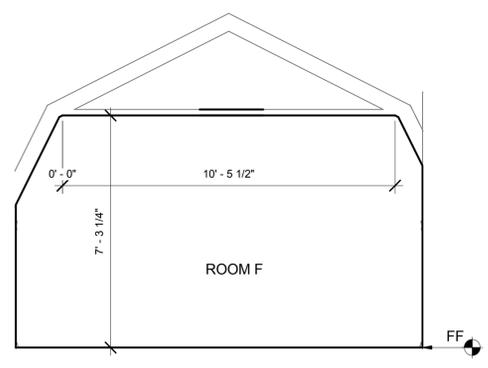
**4 BAFFLE CONNECTION DETAIL**  
A300 3" = 1'-0"



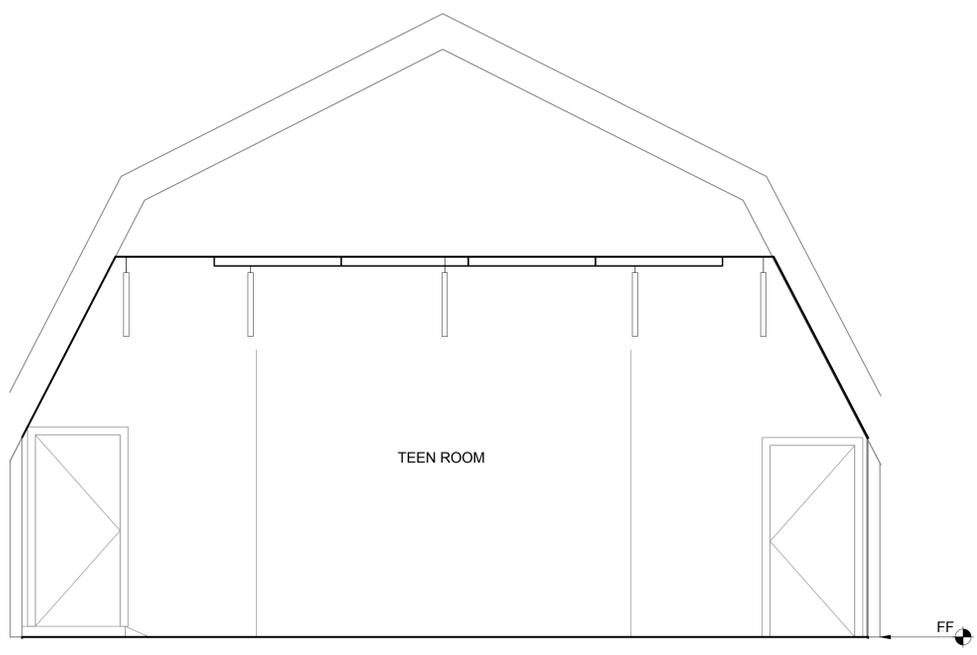
**7 CONFERENCE DOOR STRUCTURE**  
A300 1/2" = 1'-0"



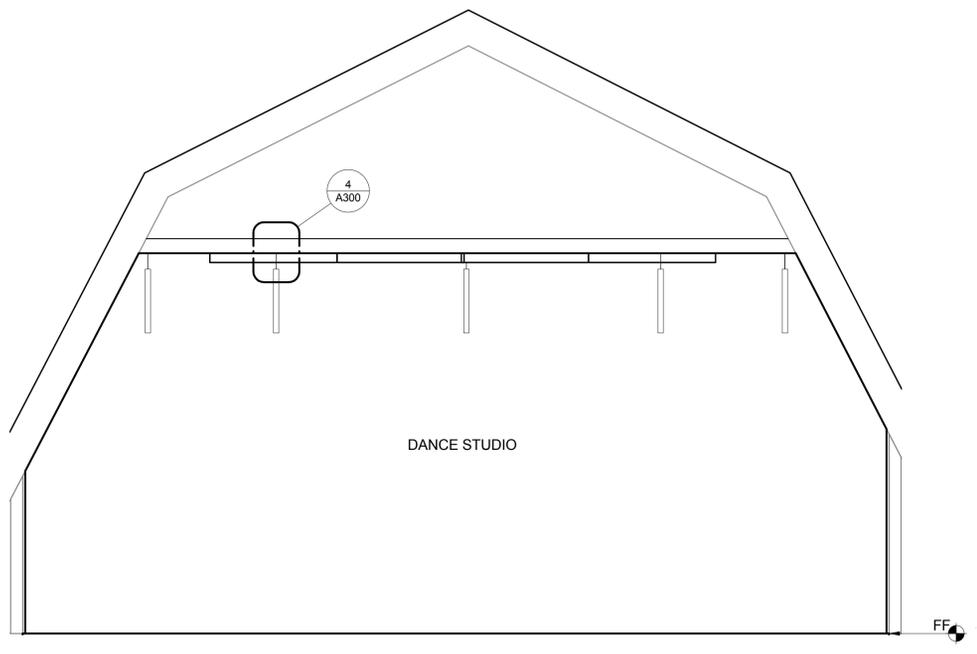
**6 CONFERENCE DOOR LINTEL DETAIL**  
A300 1" = 1'-0"



**1 ROOM F SECTION**  
A300 3/8" = 1'-0"



**2 TEEN ROOM SECTION**  
A300 3/8" = 1'-0"



**3 DANCE STUDIO SECTION**  
A300 3/8" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1-1/2" = 1'-0"

2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1" = 1'-0"

3' 2' 1' 0 0.1/2' 1' 1'-0" SCALE: 3/4" = 1'-0"

4' 2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1/2" = 1'-0"

6' 4' 2' 0 0.1/4" = 1'-0" SCALE: 1/4" = 1'-0"

8' 4' 2' 0 0.1/4" = 1'-0" SCALE: 1/4" = 1'-0"

12' 8' 4' 0 0.3/16" = 1'-0" SCALE: 3/16" = 1'-0"

16' 8' 4' 0 0.1/8" = 1'-0" SCALE: 1/8" = 1'-0"

32' 16' 8' 4' 0 1/16" = 1'-0" SCALE: 1/16" = 1'-0"



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No.	Description	Date

Revisions

Drawing Title

**FIRST FLOOR ENLARGED  
PLANS - DEMOLITION**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number: 12-0009.015 Drawing Scale: AS NOTED

Date: 07-15-15 CADD Filename: Revit Model CADD Plot Scale: 1:1

Drawn By: PG

Checked By: AV

Sheet Number

**A400**

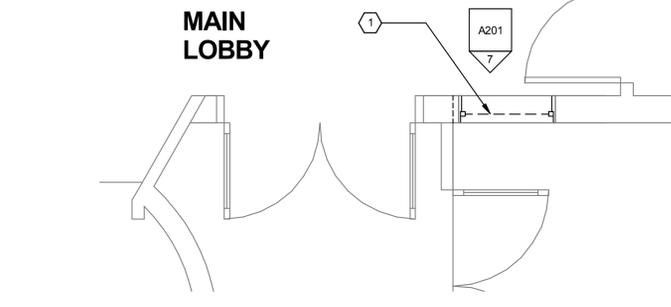


**DEMOLITION GENERAL NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE REGULATIONS AND ORDINANCES.
2. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE LATEST EDITION OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
3. ALL SLAB PENETRATIONS TO BE FILLED & PREPARED FOR NEW FINISHES AS REQUIRED.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO START OF WORK.
5. COORDINATE WITH MECHANICAL DRAWINGS FOR REMOVAL OF DUCTS, VENTS, RADIATORS, REGISTERS/DIFFUSERS, WINDOW A/C UNITS AND SUPPORT SYSTEMS. (TYP.)
6. COORDINATE WITH ELECTRICAL DRAWINGS FOR REMOVAL OF LIGHT FIXTURES, SWITCHES, CONDUIT, AND RELATED WIRING AND SUPPORT SYSTEMS. (TYP.)
7. COORDINATE WITH PLUMBING DRAWINGS FOR LOCATIONS OF EXISTING FLOOR PENETRATIONS TO BE PATCHED AND LOCATIONS OF NEW FLOOR PENETRATIONS FOR SENTRY LINES.
8. COORDINATE WITH FINISH & EQUIPMENT PLAN TO PROVIDE ADDITIONAL BLOCKING FOR LOCATIONS OF WALL MOUNTED ITEMS.
8. KEY NOTES ARE PROVIDED FOR ADDITIONAL CLARITY OF BUILDING CONDITIONS AND SHALL NOT LIMIT THE OVERALL SCOPE OF WORK.
9. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING, SUPPORT AND PROTECTION OF EXISTING CONSTRUCTION TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
10. AFTER DEMOLITION, CONTRACTOR TO FUR AND PATCH ALL FINISHES, WALL CLADDINGS, WALL PENETRATIONS, FIRE SEPARATIONS, WEATHERPROOFING AND REPAIR ALL DAMAGES CAUSED TO EXISTING BUILDING DURING DEMOLITION PROCESS AS REQUIRED.
11. CONTRACTOR SHALL INSTALL TEMPORARY CNSTRUCTION PARTITION TO PREVENT ANY DISRUPTION TO OCCUPIED SPACES THROUGHOUT CONSTRUCTION.
12. TEMPORARY STORAGE FOR EXISTING EQUIPMENT WILL BE SPECIFIED BY THE CITY

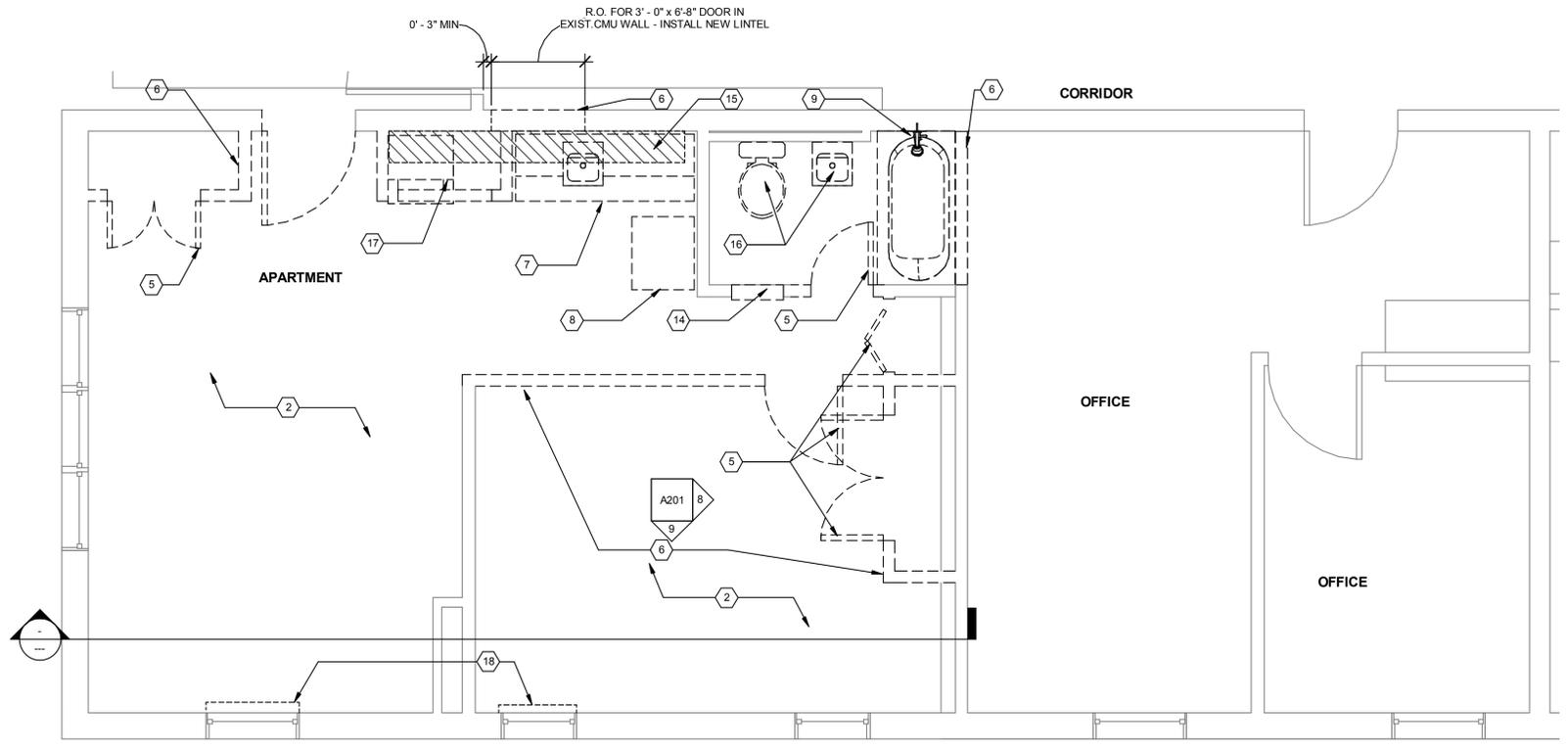
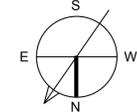
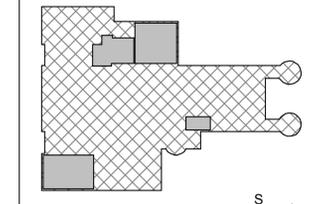
**DEMOLITION KEY NOTES**

1. REMOVE (SCRAP) EXISTING WINDOW AND FRAMING. SAW CUT AND REMOVE CMU WALL BELOW FROM SILL TO FLOOR WITHIN WINDOW R.O. WIDTH EXTENTS
2. REMOVE (SCRAP) EXISTING FLOORING, UNDERLAYMENT AND ADHESIVE DOWN TO EXISTING SLAB. PREPARE SUBSTRATE SURFACE TO RECEIVE NEW FLOORING. REMOVE EXISTING CEILING AND FIXTURES. REMOVE ALL WALL TILES IN KITCHEN. PREPARE SURFACES TO RECEIVE NEW WALL TILES.
3. SAFELY STORE REFRIGERATOR/FREEZER FOR RELOCATION
4. REMOVE (SCRAP) METAL KITCHEN COUNTERS AND SINKS.
5. REMOVE (SCRAP) DOOR AND HARDWARE
6. REMOVE EXISTING WALL
7. REMOVE (SCRAP) EXISTING KITCHENETTE, FLOOR AND OVERHEAD CABINETS. CAP EXISTING PLUMBING AT SINK. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
8. REMOVE REFRIGERATOR IN EXISTING APARTMENT AND STORE TEMPORARILY
9. REMOVE (SCRAP) BATHTUB. CAP EXISTING PLUMBING. REFER TO PLUMBING FOR ADDITIONAL INFORMATION.
10. REMOVE (SCRAP) EXISTING ICEMAKER.
11. REMOVE (SCRAP) EXISTING GREASE INTERCEPTOR
12. REMOVE (SCRAP) EXISTING HAND-WASH SINK
13. REMOVE (SCRAP) EXISTING DISHWASHER
14. REMOVE EXISTING ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. SAW CUT AND REMOVE EXTENT OF EXISTING SLAB-ON-GRADE FOR NEW PLUMBING PIPES. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. FIELD COORDINATE LAYOUT.
16. REMOVE (SCRAP) EXISTING PLUMBING FIXTURES.
17. REMOVE EXISTING W/D AND SAFELY STORE AWAY FOR REUSE.
18. REMOVE EXISTING AIR CONDITIONING UNITS. FILL AND FINISH ROUGH OPENING TO MATCH EXTERIOR AND INTERIOR FINISH.

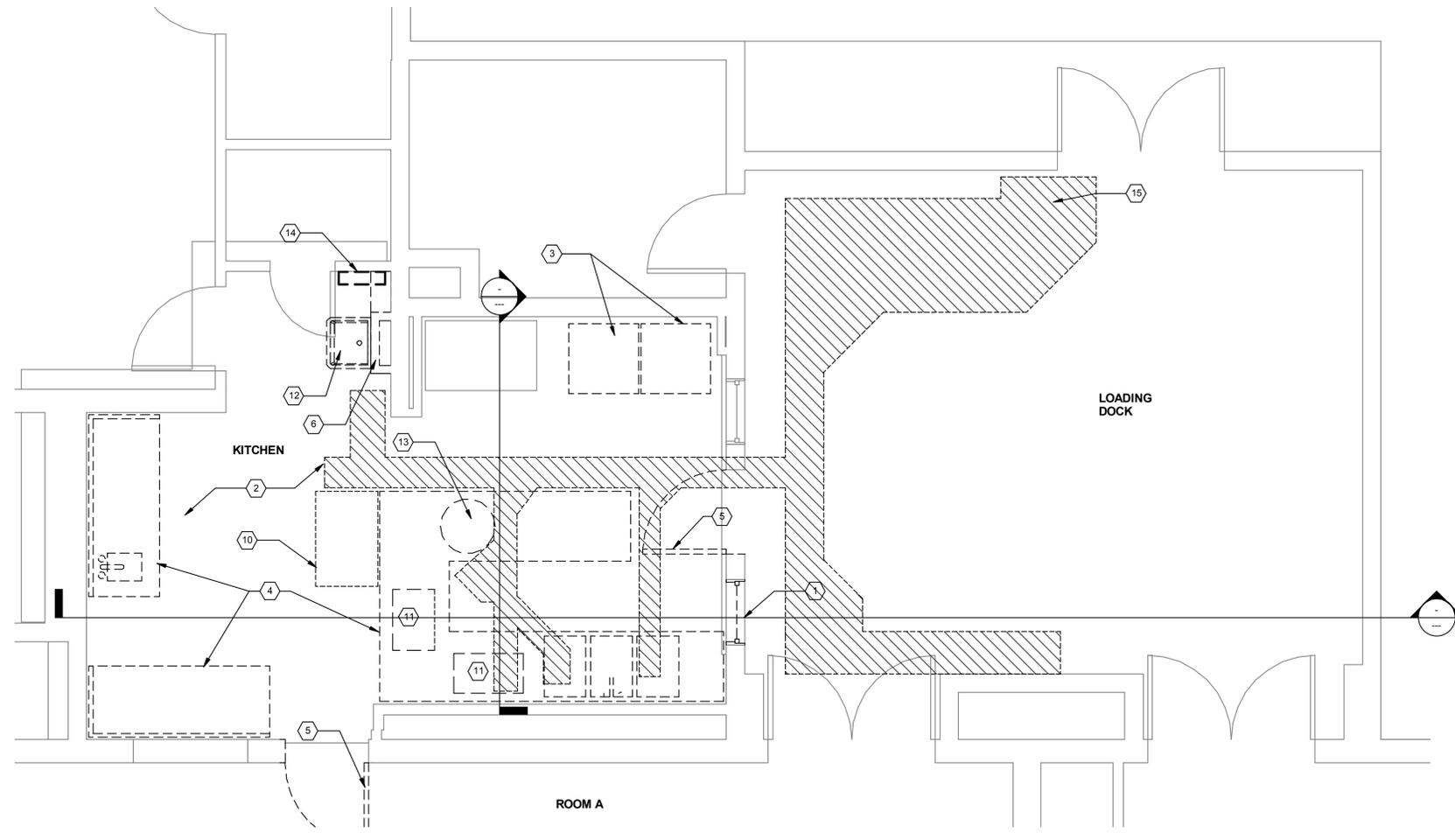


**1 ENTRANCE - ENLARGED**  
A400 3/8" = 1'-0"

**SCOPE OF WORK**



**3 APARTMENT AND BATHROOM PLAN - ENLARGED - DEMOLITION**  
A400 3/8" = 1'-0"



**2 KITCHEN PLAN - ENLARGED - DEMOLITION**  
A400 3/8" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31' 32' 33' 34' 35' 36' 37' 38' 39' 40'

SCALE: 1-1/2" = 1'-0"

SCALE: 1" = 1'-0"

SCALE: 3/4" = 1'-0"

SCALE: 1/2" = 1'-0"

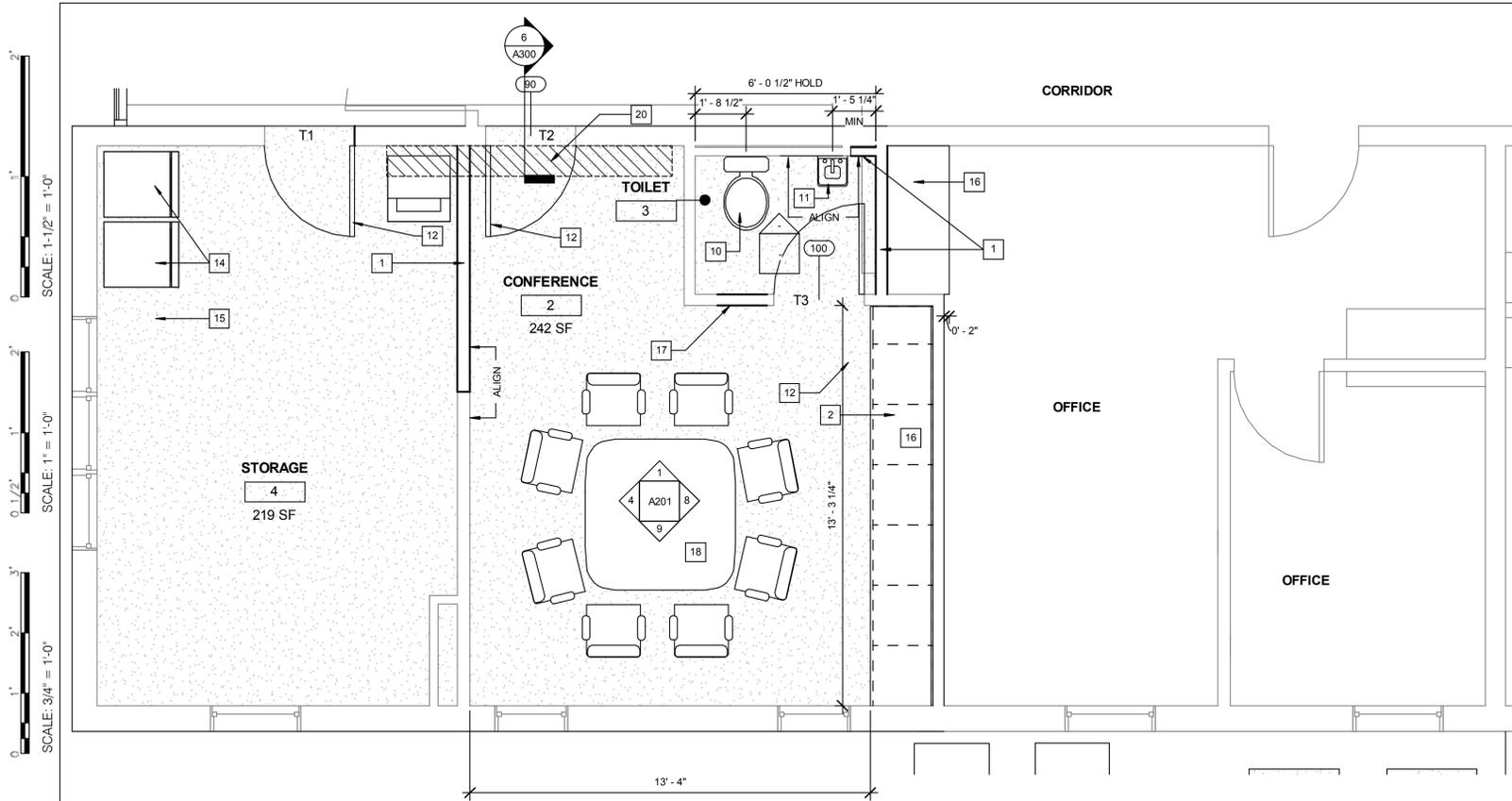
SCALE: 1/4" = 1'-0"

SCALE: 3/16" = 1'-0"

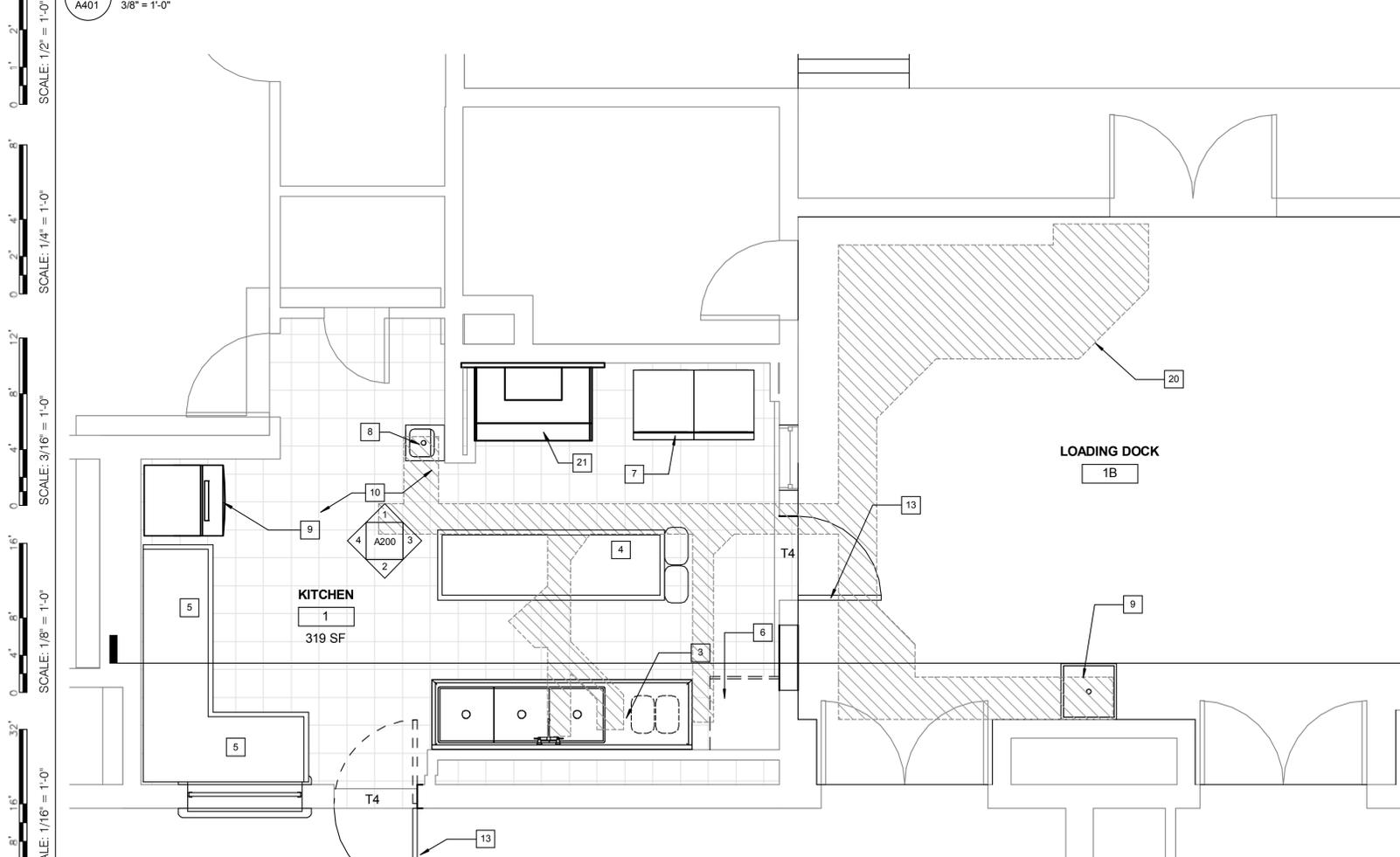
SCALE: 1/8" = 1'-0"

SCALE: 1/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



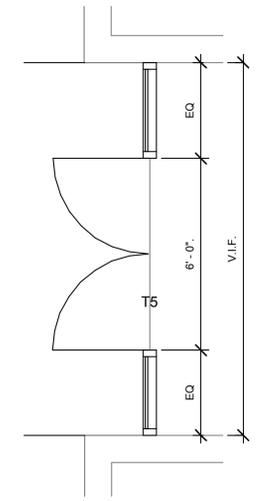
**2 CONFERENCE ROOM AND OFFICES - ENLARGED**  
A401 3/8" = 1'-0"



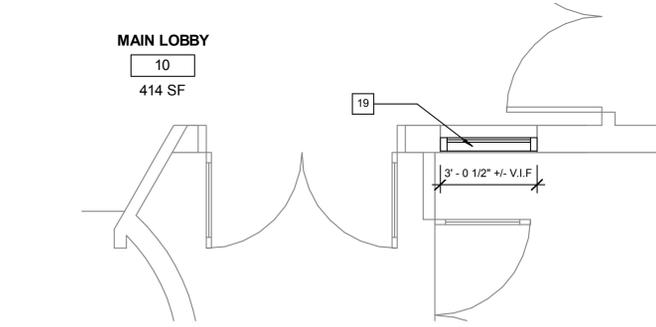
**1 KITCHEN PLAN - ENLARGED**  
A401 3/8" = 1'-0"

**NEW WORK KEY NOTES** #

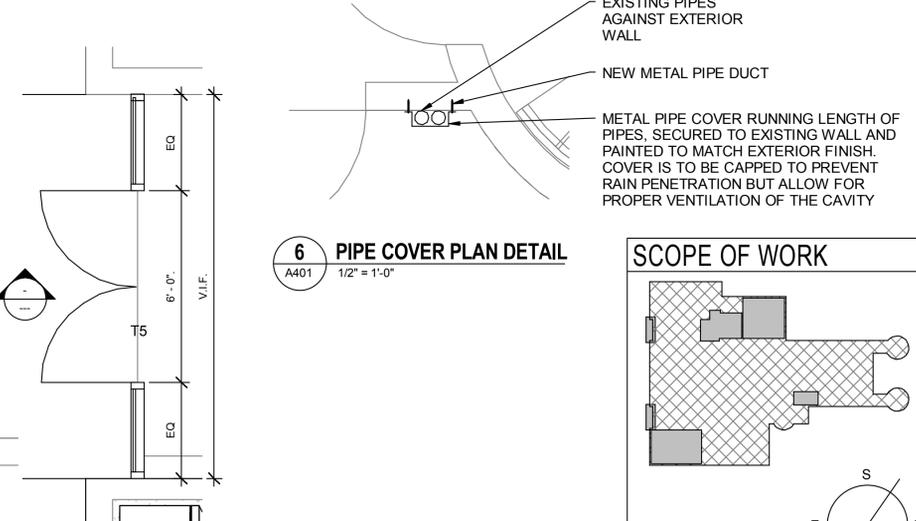
1. NEW PARTITION WALL
2. NEW BASE CABINETS WITH LAMINATED FINISH
3. NEW STAINLESS STEEL (SS) KITCHEN COUNTER WITH THREE BOWL SINK
4. NEW MOVABLE STAINLESS STEEL (SS) ISLAND COUNTER
5. NEW STAINLESS STEEL (SS) PREPARATION COUNTER WITH STORAGE
6. NEW DISHWASHER WITH VENT EXHAUST. REFER TO PLUMBING AND ELECTRICAL DRAWINGS FR ADDITIONAL INFORMATION.
7. NEW BEVERAGE AIR MODEL: HR1W-1S REFRIGERATOR AND NEW BEVERAGE AIR MODEL: HF1W-1S FREEZER
8. NEW HAND WASH PEDESTAL SINK
9. NEW PEDESTAL MOP SINK
10. NEW W.C.
11. NEW SINK
12. NEW FIRE RATED DOOR - 90 MINUTE
13. NEW DOOR ASSEMBLY
14. NEW LOCATION OF FREEZER/REFRIGERATOR RELOCATED FROM EXISTING KITCHEN
15. NEW LOCATION OF WASHER-DRYER.
16. NEW QUARTZ BASED COUNTERTOP WITH BACKSPLASH
17. INSTALL NEW GYPSUM WALLBOARD AROUND NEW ELECTRICAL PANEL. PREPARE WALL SURFACE TO RECEIVE NEW FINISH
18. NEW CONFERENCE TABLE AND CHAIRS
19. NEW ALUMINUM STOREFRONT WITH THERMAL BREAK AND DOUBLE PANE INSULATED GLAZING AT MAIN LOBBY. STOREFRONT WIDTH SHALL BE SAME AS EXISTING ROUGH OPENING
20. REFILL AREA WHERE SLAB WAS REMOVED WITH NEW SLAB AFTER INSTALLING EQUIPMENT
21. EXISTING OVERHEAD EXHAUST HOOD AND STOVE TO BE REINSTALLED IN SAME LOCATION. EXHAUST HOOD STERLING EQUIPMENT CO., INC.



**4 SOUTH STOREFRONT ENTRY DOOR**  
A401 3/8" = 1'-0"



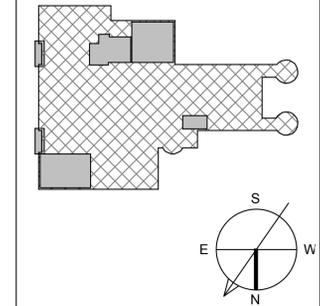
**3 MAIN LOBBY ENTRANCE - ENLARGED**  
A401 3/8" = 1'-0"



**6 PIPE COVER PLAN DETAIL**  
A401 1/2" = 1'-0"

**5 NORTH STOREFRONT ENTRY DOOR**  
A401 3/8" = 1'-0"

**SCOPE OF WORK**



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Drawing Title  
**FIRST FLOOR ENLARGED PLANS**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015 Drawing Scale: AS NOTED

Date  
07-15-15 CADD Filename  
Revit Model CADD Plot Scale  
1:1

Drawn By  
PG

Checked By  
AV

Sheet Number  
**A401**

STATE OF MARYLAND  
TAE Y. JUNG  
LICENSE #15975



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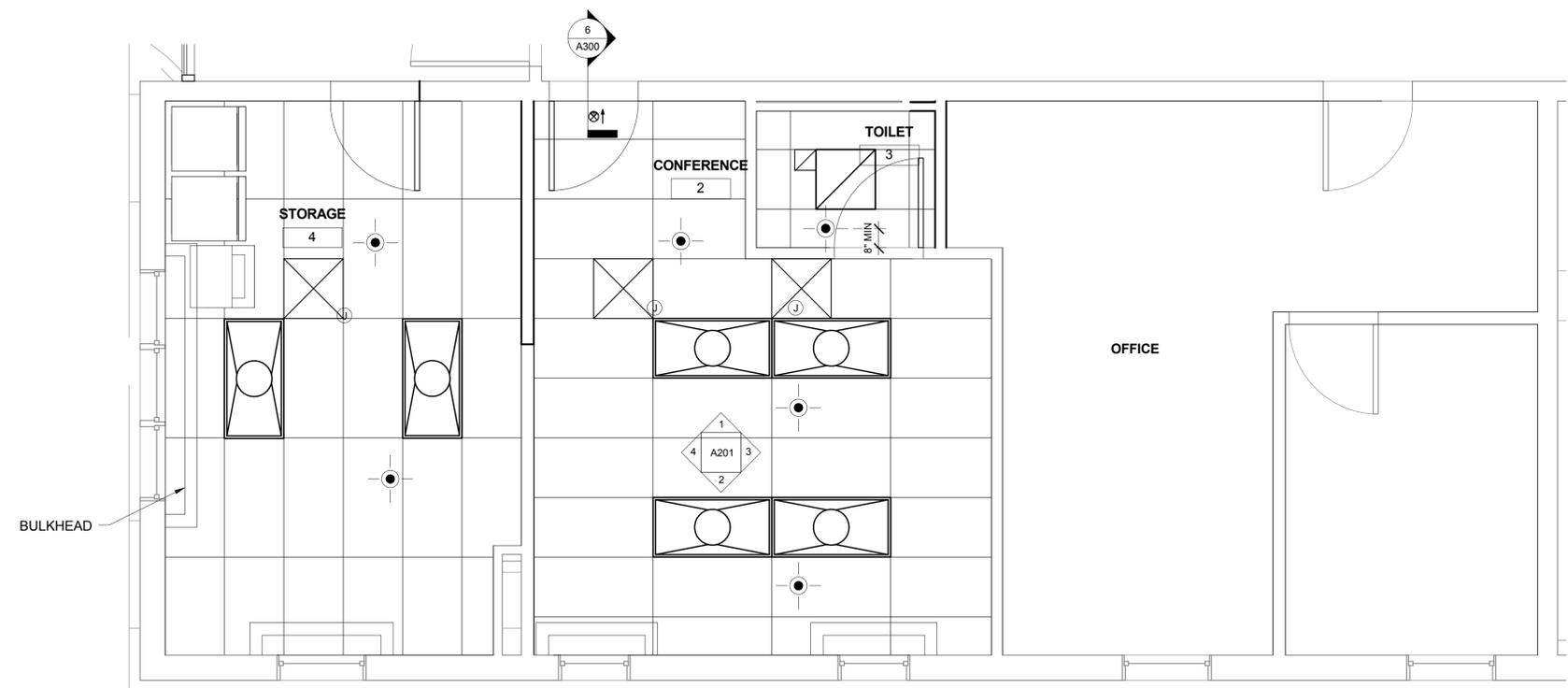
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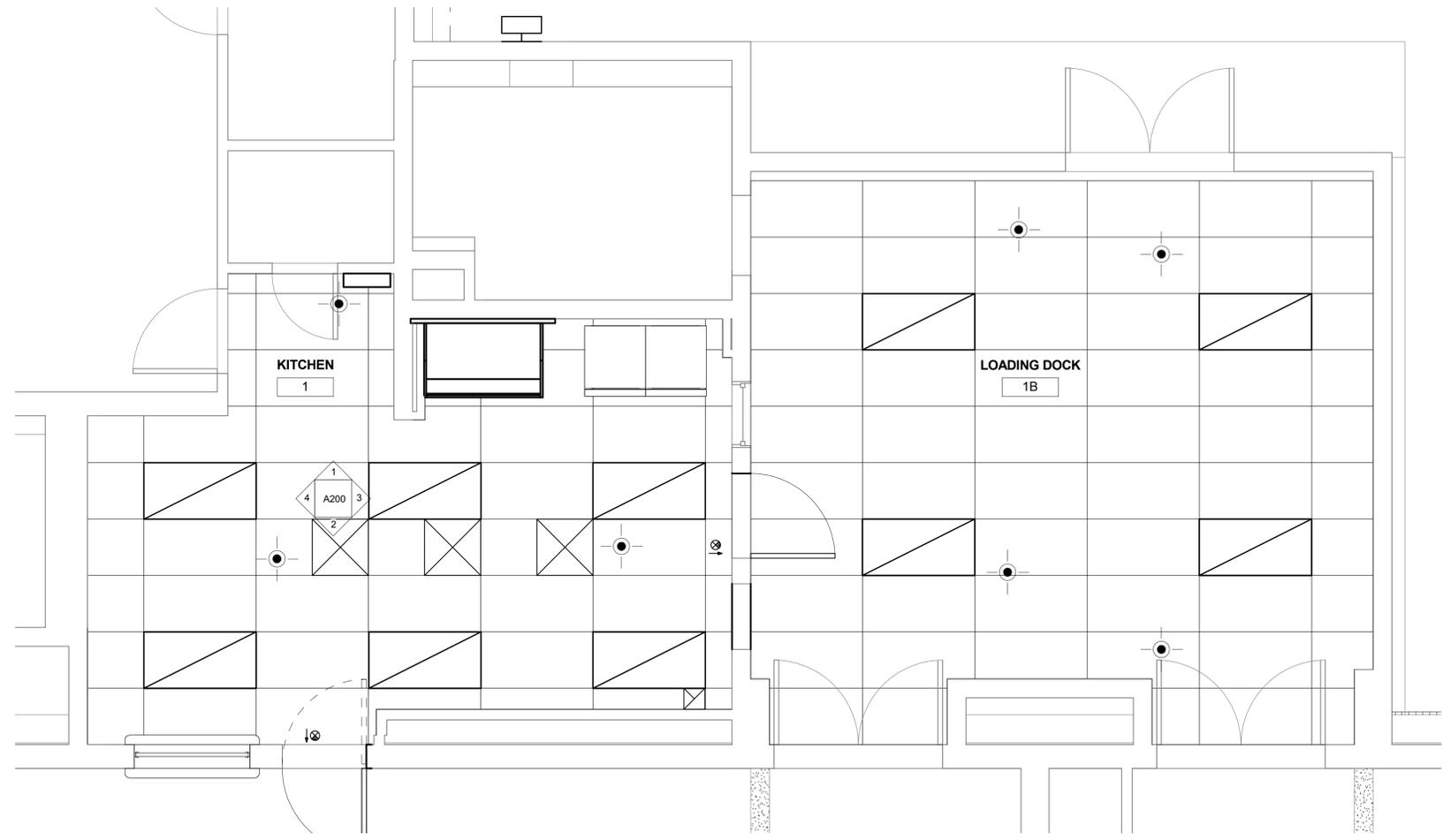
### NOTES:

- EXISTING FIRE SPRINKLERS WILL REQUIRE THE DROP TO BE ADJUSTED FOR THE NEW CEILING HEIGHTS.
- EXISTING SPRINKLERS THAT ARE LOCATED WHERE NEW LIGHTS OR NEW CEILING EQUIPMENT WILL REQUIRE RELOCATION TO AN ADJACENT CEILING TILE AND SHALL BE SPACED PER NFPA 13 REQUIREMENTS.
- ALL NEW SPRINKLER PIPING AND EQUIPMENT SHALL BE TESTED PER NFPA 13 AND CITY OF GAITHERSBURG REQUIREMENTS.
- EXISTING P.A. SYSTEM SPEAKERS AND OCCUPANCY CENSORS TO BE REINSTALLED AFTER CEILING REPLACEMENT
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION

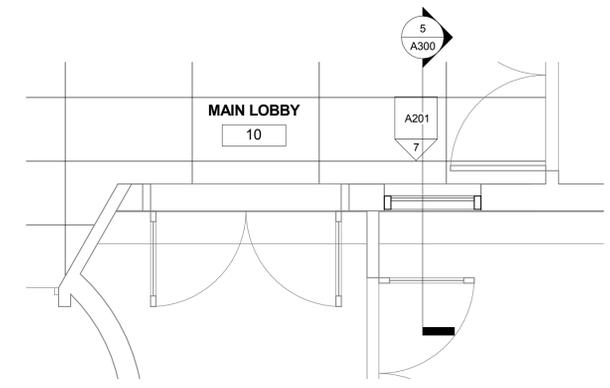
FOR RCP LEGEND SEE SHEET A002



**1 APARTMENT AND BATHROOM REFLECTED CEILING PLAN**  
A402 3/8" = 1'-0"

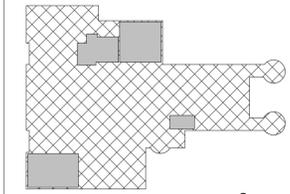


**2 KITCHEN REFLECTED CEILING PLAN**  
A402 3/8" = 1'-0"



**3 ENTRANCE REFLECTED CEILING PLAN**  
A402 3/8" = 1'-0"

### SCOPE OF WORK



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No.	Description	Date

Revisions

Drawing Title  
**FIRST FLOOR ENLARGED REFLECTED CEILING PLANS**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
CADD Plot Scale 1:1	Drawn By PG
Checked By AV	Sheet Number <b>A402</b>

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IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' SCALE: 1-1/2" = 1'-0"

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' SCALE: 1" = 1'-0"

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' SCALE: 1/2" = 1'-0"

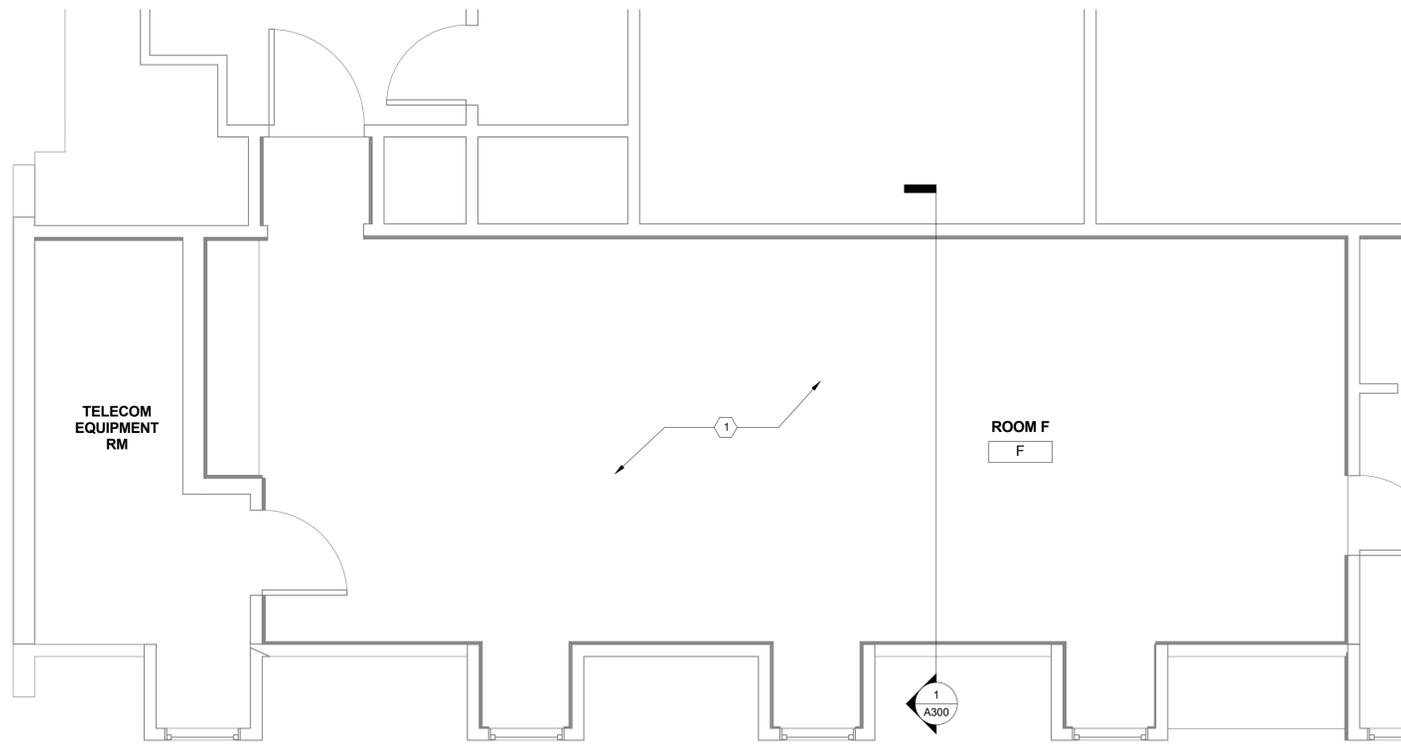
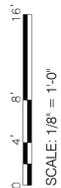
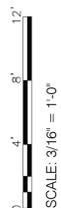
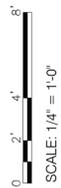
0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' SCALE: 3/16" = 1'-0"

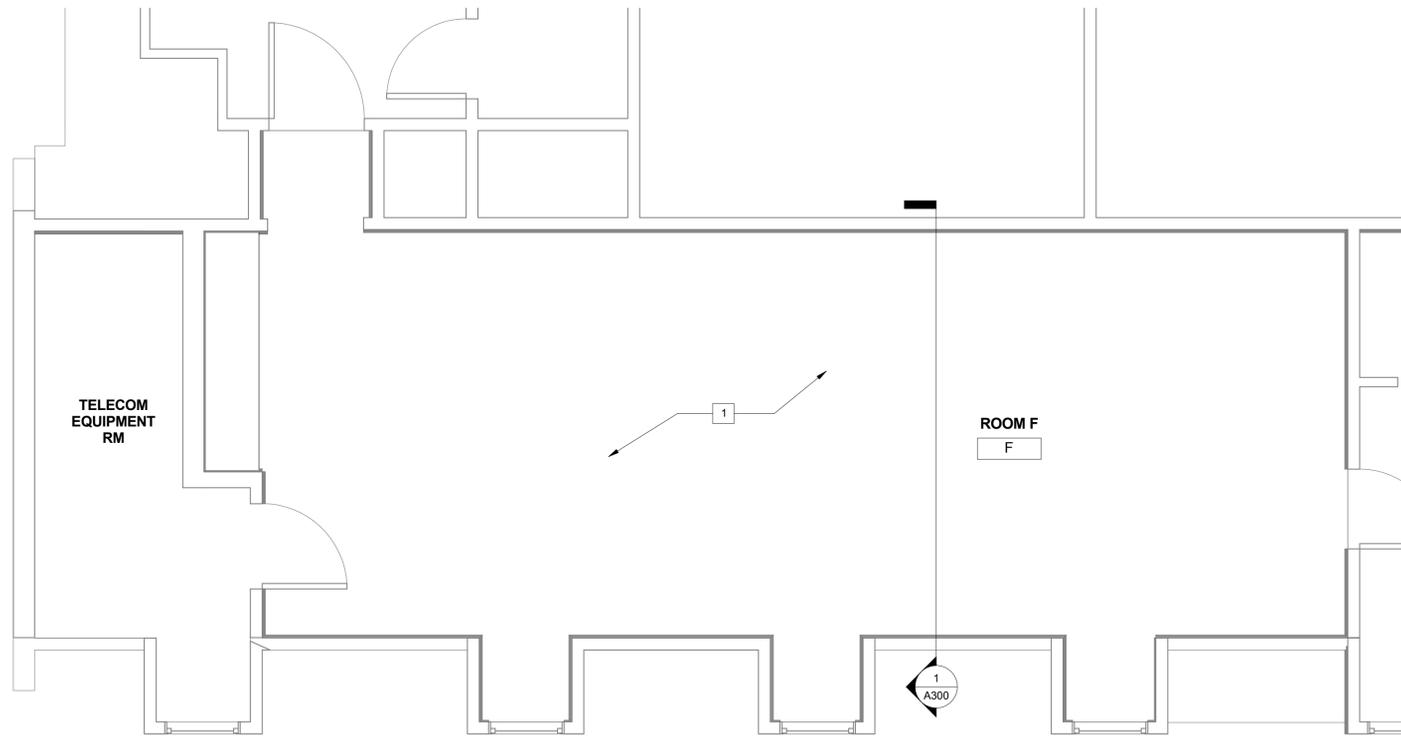
0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' SCALE: 1/8" = 1'-0"

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' SCALE: 1/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



**1** COMPUTER ROOM "ROOM F" - ENLARGED DEMOLITION  
A403 3/8" = 1'-0"



**2** COMPUTER ROOM "ROOM F" - ENLARGED  
A403 3/8" = 1'-0"

**DEMOLITION KEY NOTE #**

1. REMOVE EXISTING FLOOR FINISH, WALL COVERING AND SUSPENDED CEILING SYSTEM.

**NEW WORK KEY NOTE #**

1. INSTALL NEW FLOOR FINISH, REFINISH GYP. BD, PAINT FINISH AND SUSPENDED CEILING SYSTEM.



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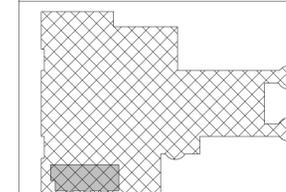
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No.	Description	Date

Revisions

**SCOPE OF WORK**



**SECOND FLOOR ENLARGED PLAN - COMPUTER ROOM F - DEMOLITION AND NEW WORK**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015 Drawing Scale: AS NOTED

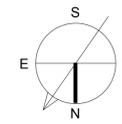
Date 07-15-15 CADD Filename Revit Model CADD Plot Scale 1:1

Drawn By PG

Checked By AV

Sheet Number

**A403**





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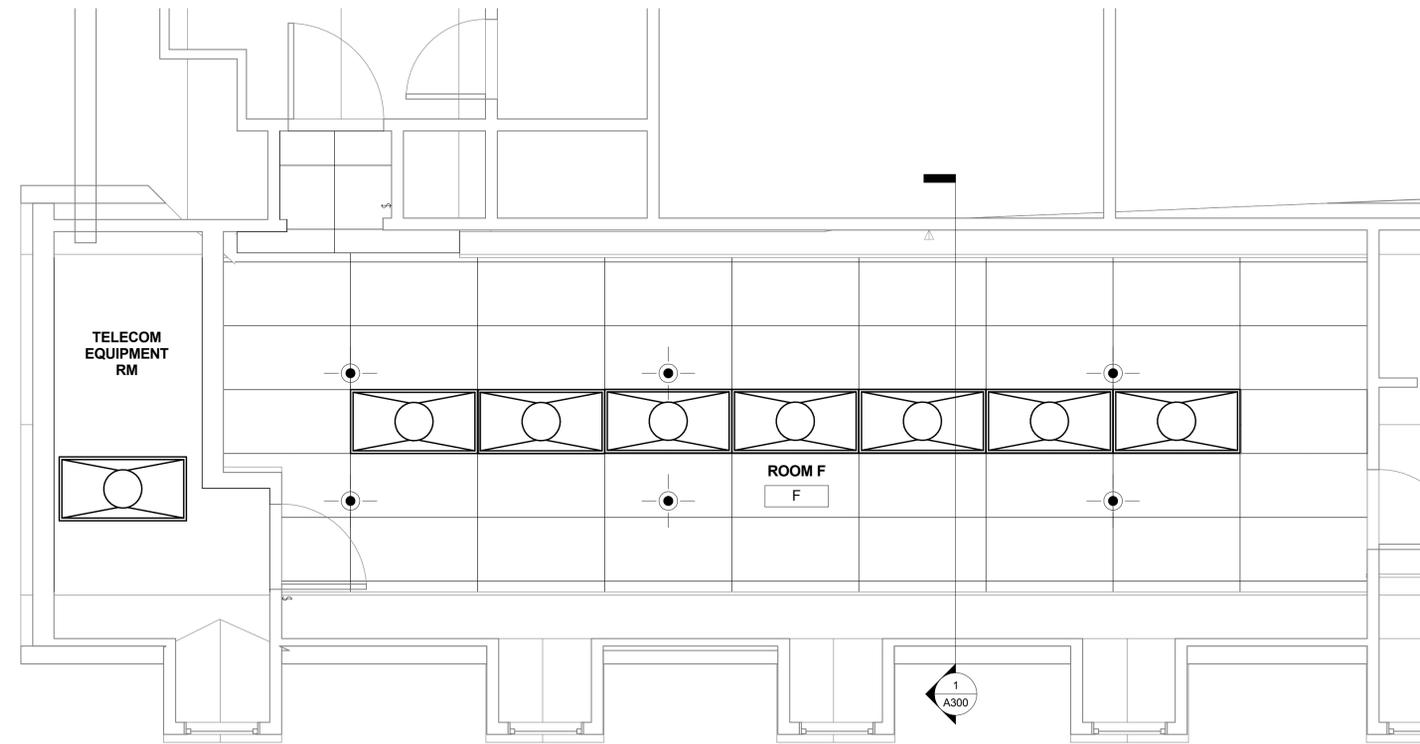
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**NOTES:**

- EXISTING FIRE SPRINKLERS WILL REQUIRE THE DROP TO BE ADJUSTED FOR THE NEW CEILING HEIGHTS.
- EXISTING SPRINKLERS THAT ARE LOCATED WHERE NEW LIGHTS OR NEW CEILING EQUIPMENT WILL REQUIRE RELOCATION TO AN ADJACENT CEILING TILE AND SHALL BE SPACED PER NFPA 13 REQUIREMENTS.
- ALL NEW SPRINKLER PIPING AND EQUIPMENT SHALL BE TESTED PER NFPA 13 AND CITY OF GAITHERSBURG REQUIREMENTS.
- EXISTING P.A. SYSTEM SPEAKERS AND OCCUPANCY SENSORS TO BE REINSTALLED AFTER CEILING REPLACEMENT
- SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION

FOR RCP LEGEND SEE SHEET A002



**1** COMPUTER ROOM "ROOM F" REFLECTED CEILING PLAN  
A405 3/8" = 1'-0"

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No.	Description	Date

Revisions

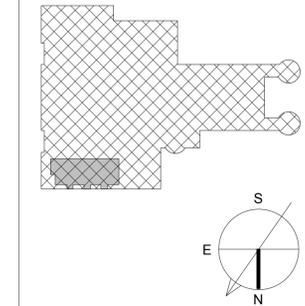
Design Title  
**SECOND FLOOR ENLARGED REFLECTED CEILING PLAN - ROOM F**

Phase  
 CONCEPT  30%  60%  90%  100%

AE Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

Drawn By PG
Checked By AV
Sheet Number <b>A405</b>

**SCOPE OF WORK**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 1' 2' 3' SCALE: 3/4" = 1'-0"

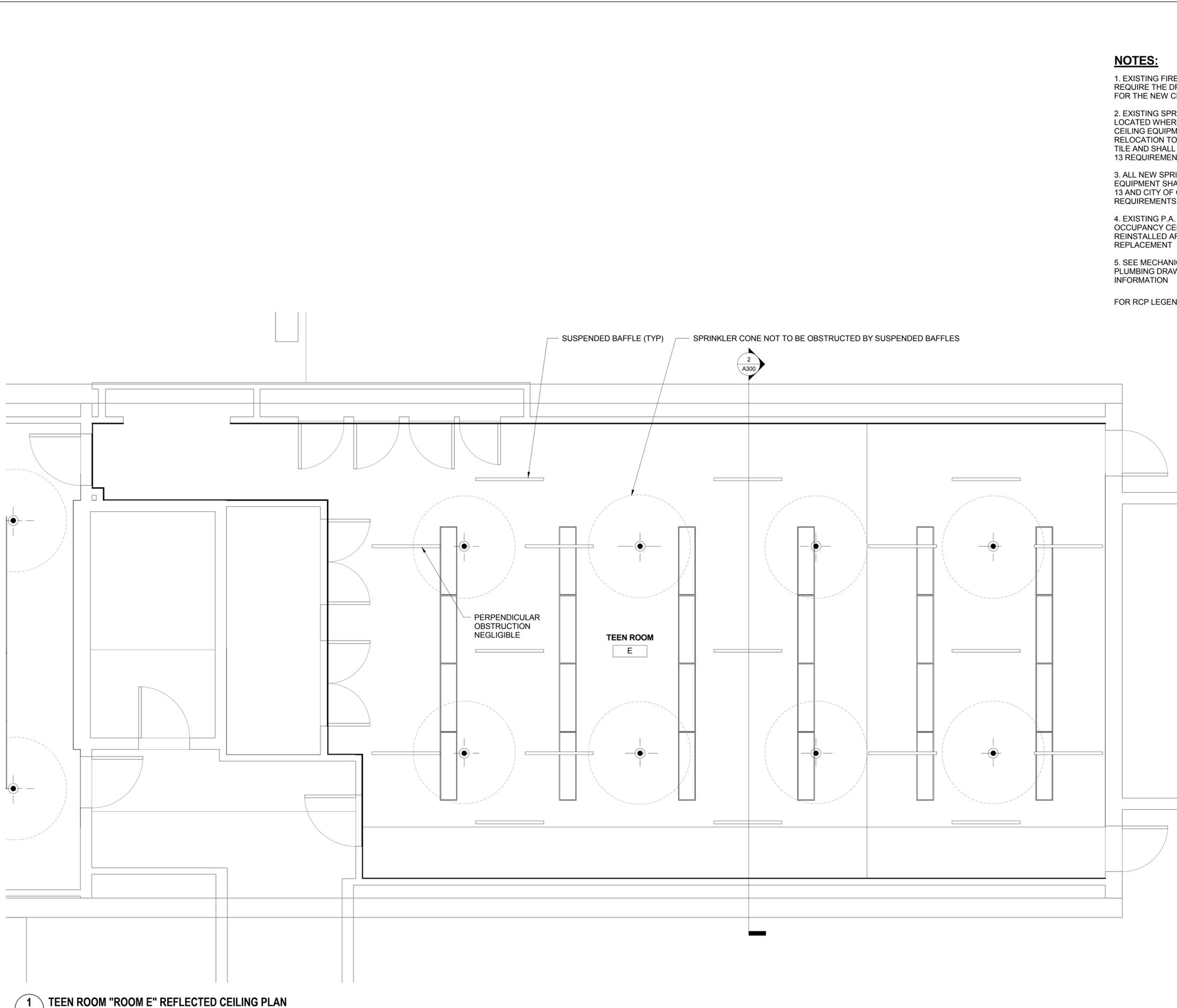
0 1' 2' 4' SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6' 8' SCALE: 1/4" = 1'-0"

0 1' 2' 4' 6' 8' 12' SCALE: 3/16" = 1'-0"

0 1' 2' 4' 6' 8' 12' 16' 32' SCALE: 1/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



**1** TEEN ROOM "ROOM E" REFLECTED CEILING PLAN  
A406 3/8" = 1'-0"

**NOTES:**

- EXISTING FIRE SPRINKLERS WILL REQUIRE THE DROP TO BE ADJUSTED FOR THE NEW CEILING HEIGHTS.
  - EXISTING SPRINKLERS THAT ARE LOCATED WHERE NEW LIGHTS OR NEW CEILING EQUIPMENT WILL REQUIRE RELOCATION TO AN ADJACENT CEILING TILE AND SHALL BE SPACED PER NFPA 13 REQUIREMENTS.
  - ALL NEW SPRINKLER PIPING AND EQUIPMENT SHALL BE TESTED PER NFPA 13 AND CITY OF GAITHERSBURG REQUIREMENTS.
  - EXISTING P.A. SYSTEM SPEAKERS AND OCCUPANCY CENSORS TO BE REINSTALLED AFTER CEILING REPLACEMENT
  - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
- FOR RCP LEGEND SEE SHEET A002



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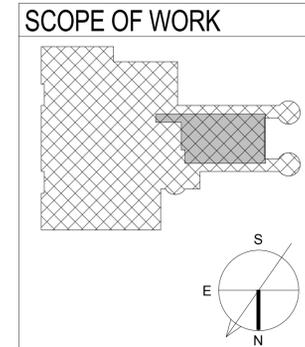


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No.	Description	Date

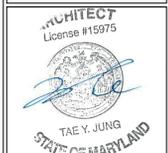
Revisions



**SECOND FLOOR ENLARGED  
REFLECTED CEILING PLAN  
-TEEN ROOM E**

Phase  
 CONCEPT  30%  60%  90%  100%

AE Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
CADD Plot Scale 1:1	Drawn By PG
Checked By AV	Sheet Number <b>A406</b>





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number 15975, expiration date  
10.16.2015

No.	Description	Date

Revisions

Design Title  
**SECOND FLOOR ENLARGED  
REFLECTED CEILING PLAN -  
DANCE STUDIO**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015 Drawing Scale: AS NOTED

Date  
07-15-15 CADD Filename  
Revit Model CADD Plot Scale  
1:1

Drawn By  
PG

Checked By  
AV

Sheet Number  
**A407**

#### NOTES:

- EXISTING FIRE SPRINKLERS WILL REQUIRE THE DROP TO BE ADJUSTED FOR THE NEW CEILING HEIGHTS.
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FOR RCP LEGEND SEE SHEET A002

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0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 1' 2' 3' SCALE: 3/4" = 1'-0"

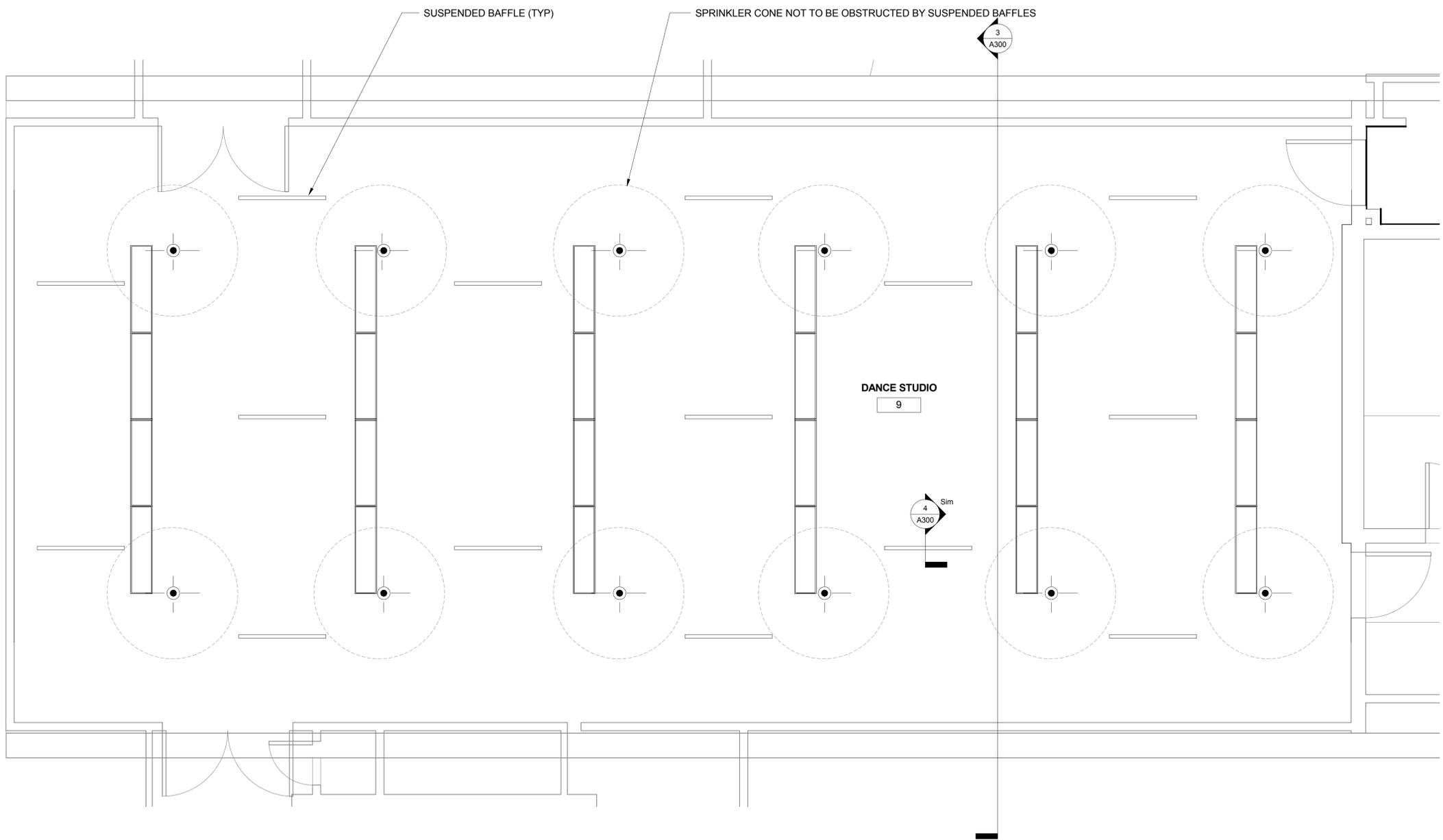
0 1' 2' 4' SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6' 8' 10' 12' SCALE: 1/4" = 1'-0"

0 1' 2' 4' 6' 8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30' 32' SCALE: 3/16" = 1'-0"

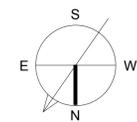
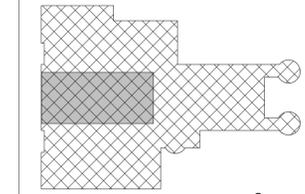
0 1' 2' 4' 6' 8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30' 32' SCALE: 1/8" = 1'-0"

0 1' 2' 4' 6' 8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30' 32' SCALE: 1/16" = 1'-0"



**1 DANCE STUDIO REFLECTED CEILING PLAN**  
A407 3/8" = 1'-0"

#### SCOPE OF WORK





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number 15975, expiration date  
10.16.2015

No.	Description	Date

Revisions

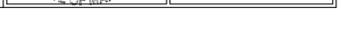
## FIRST FLOOR FINISH SCHEDULE

Phase  CONCEPT  30%  60%  90%  100%

AE Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

Drawn By PG
Checked By AV

Sheet Number <b>A600</b>
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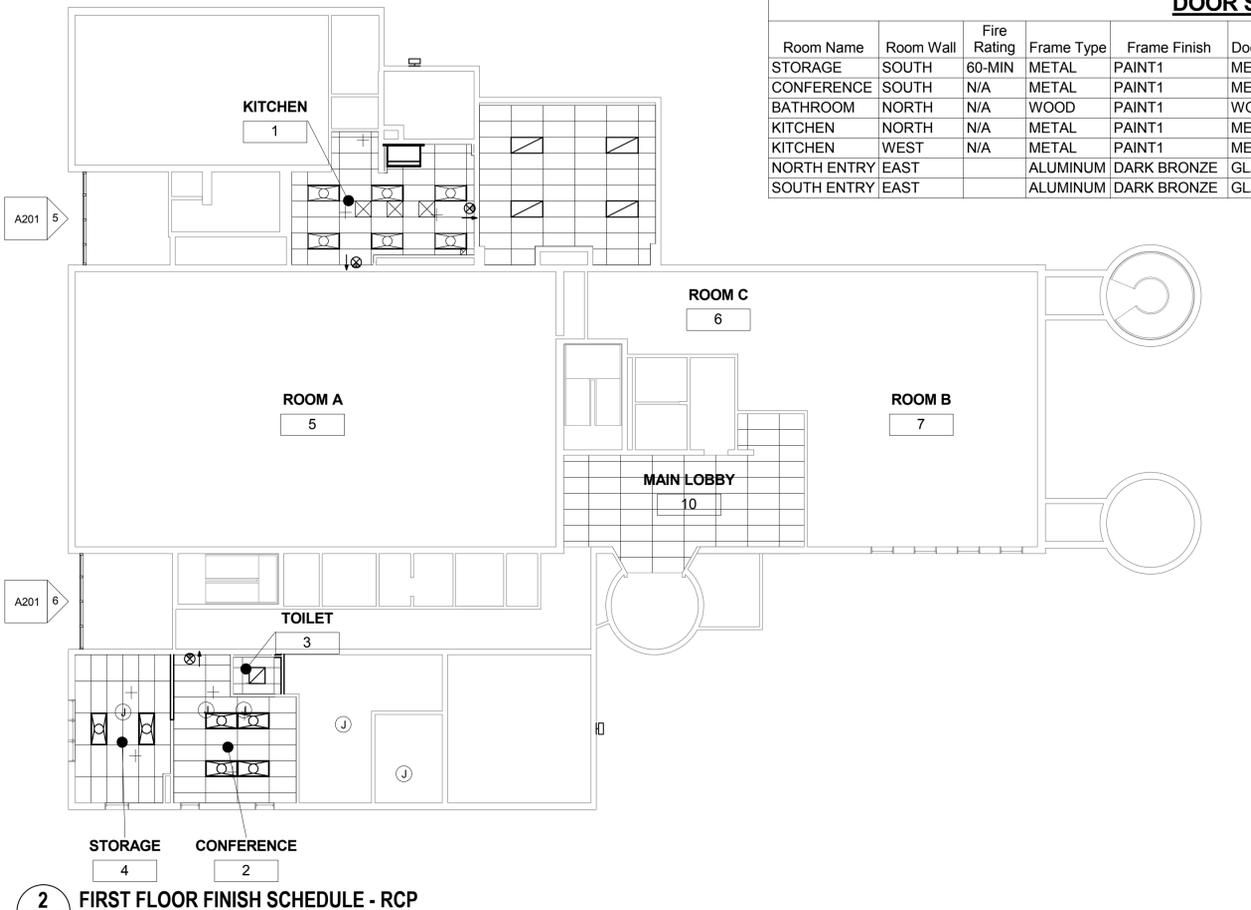


Number	Name	Floor Finish	Ceiling Finish	Wall Finish	Comments	Ceiling Height
1	KITCHEN	AQ220	ACT-PVC	FRP		8' - 0"
1B	LOADING DOCK	VCT	ACT-PVC			9' - 0"
2	CONFERENCE	M8206KL	ACT	PAINT1		8' - 0"
3	TOILET	VCT	ACT	PAINT1		8' - 0"
4	STORAGE	VCT	ACT	PAINT1		8' - 0"
5	ROOM A	A51830				8' - 0"
6	ROOM C	A51830				8' - 0"
7	ROOM B	A51830				8' - 0"

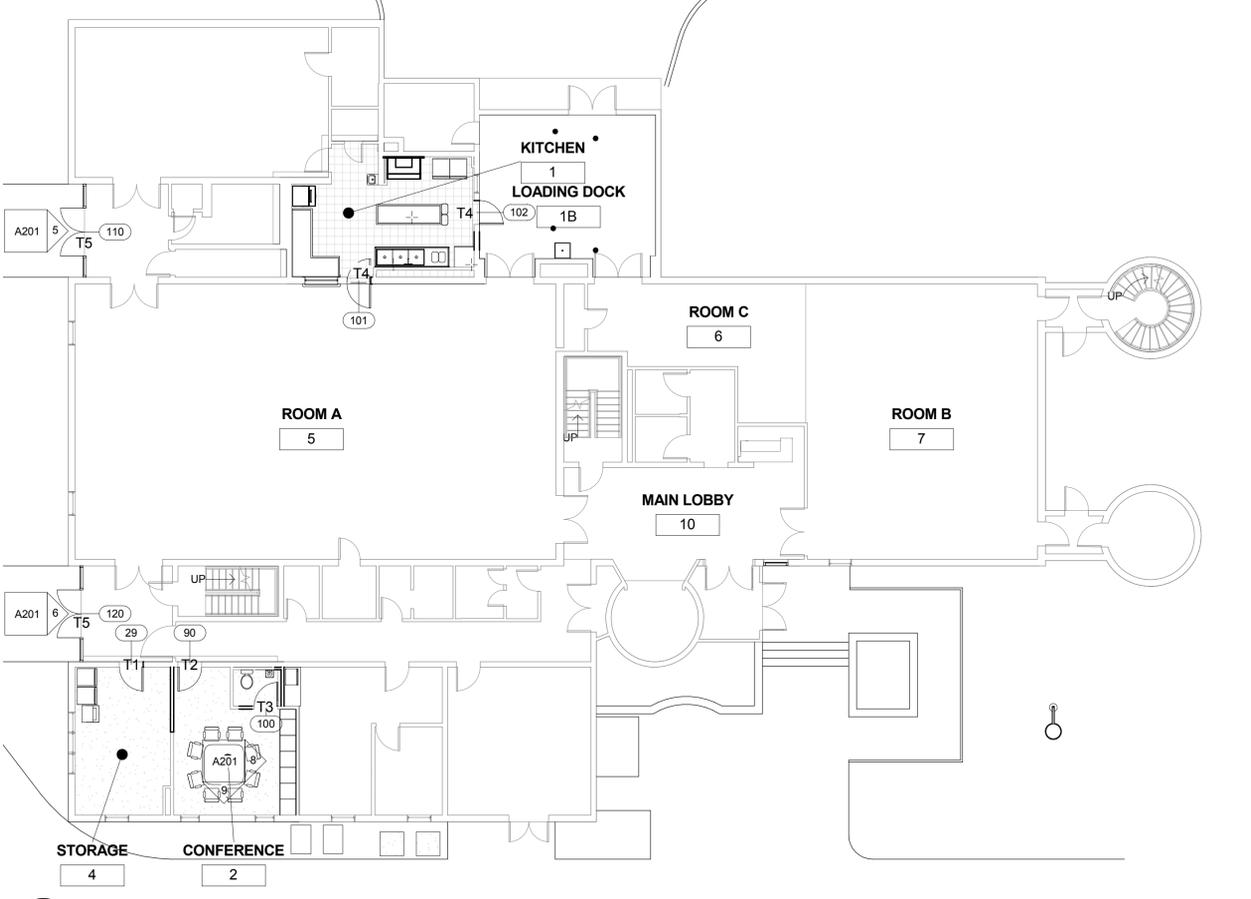
Room Name	Room Wall	Fire Rating	Frame Type	Frame Finish	Door Material	Height	Width	HW	Transition Type	Transition From-To
STORAGE	SOUTH	60-MIN	METAL	PAINT1	METAL	6' - 8"	3' - 0"	HW 1	T1 ALUM.	VCT1-VCT2
CONFERENCE	SOUTH	N/A	METAL	PAINT1	METAL	6' - 8"	3' - 0"	HW 2	T2 ALUM.	CARPET-VCT1
BATHROOM	NORTH	N/A	WOOD	PAINT1	WOOD	6' - 8"	3' - 0"	HW 3	T3 ALUM.	CARPET-VCT2
KITCHEN	NORTH	N/A	METAL	PAINT1	METAL+LITE	6' - 8"	3' - 0"	HW 4	T4 ALUM.	TILE-LVT
KITCHEN	WEST	N/A	METAL	PAINT1	METAL	6' - 8"	3' - 0"	HW 4	T4 ALUM.	TILE-LVT
NORTH ENTRY	EAST		ALUMINUM	DARK BRONZE	GLASS	7' - 0"	6' - 0"	HW 5	T5 ALUM.	VCT-CONCRETE
SOUTH ENTRY	EAST		ALUMINUM	DARK BRONZE	GLASS	7' - 0"	6' - 0"	HW 5	T5 ALUM.	VCT-CONCRETE

Key	Description	Manufacturer	Model	Color	Finish	Size	Comments
AQ220	UNGLAZED QUARRY TILE	METROPOLITAN CERAMICS	108	CHESTNUT BROWN	UNGLAZED	6"x6"	
ACT-PVC	VINYL ACOUSTIC TILE	PROSERIES	SMOOTH-PRO	WHITE	PVC	2'x4'	
M8206KL	MODULAR CARPET	MANNINGTON	KEY LARGO 8206	TAN	DYED	2'x2'	
ACT	ACOUSTIC CEILING TILE	ARMSTRONG	ULTIMA	WHITE	FINE TEXTURE	2'x4'	
PAINT1							MATCH EXISTING PAINT, LEVEL 3
PAINT2	PAINT FOR CONCRETE	SHERWIN WILLIAMS	B58W610, B58V600	WHITE	SEMI-GLOSS		
GYP	GYPSUM BOARD						STANDARD GYPSUM BOARD
A51830	LUXURY VINYL TILE	ARMSTRONG	51830	COTTAGE TAN		12"x12"	
ZODIAQ	QUARTZ COUNTERTOP	DUPONT	ZODIAQ	MOCHA LATTE	POLISHED		
TW15BW	BASE CABINETS	TECHLINE	W15 BRIGHTON WALNUT	BRIGHT WALNUT	LAMINATE		SEE A201 FOR CASEWORK DETAILS
FRP	FIBERGLASS REINF. PANELS	CRANE	IVORY 84	IVORY	SMOOTH	4'X8'	

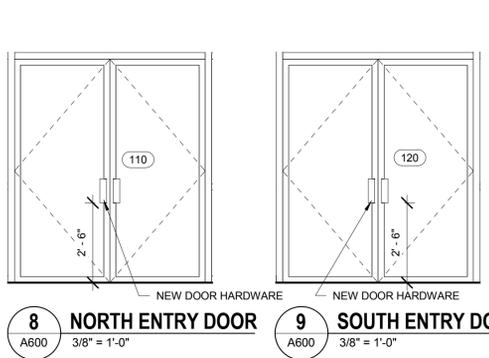
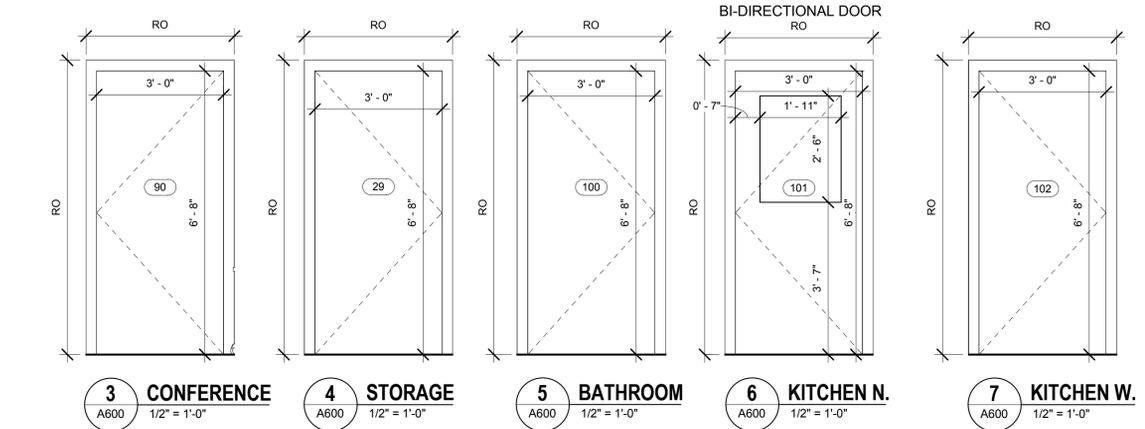
Name	Equipment Type	Manufacturer	Model #	Overall Dimensions	NSF Certification	Bolted in Place
KITCHEN	3-SINK TABLE	AERO	2F3-2424-36L	30"Dx112"Wx42"H	YES	YES
KITCHEN	ISLAND TABLE	AERO	1TG-30108	30"Dx108"Wx35"H	YES	NO
KITCHEN	CORNER L TABLE	AERO	3TCBX-6096	24"Dx60"Wx96"Lx39"H	YES	NO
KITCHEN	PEDESTAL SINK	EAGLE	HSA-10-FA-P	19"Dx15"Wx39"H	YES	YES
KITCHEN	KITCHEN SINK	AERO	F3L SERIES W/FAUCET MODEL # B-0230	114"Lx30"Wx42"H	YES	YES
KITCHEN	GREASE INTERCEPTOR	JAY R SMITH	8200 SERIES W/EXTENSION, PCN/FLG # 8250	35"Lx20"Wx24"	YES	YES
KITCHEN	DISHWASHER	CMA	180CB (CORNER LOCATION)	25"Lx25"Wx72"H	YES	NO
KITCHEN	ICEMAKER	MANITOWOC	INDIGO 1106	34"Lx30"Wx45"H	YES	NO
KITCHEN	SERVICE SINK	LIGHT COMMERCIAL	Z-1996-24	24"Dx24"Lx10"H	YES	YES
CONFERENCE	CONFERENCE TABLE	HON	HUDDLE 30X60 RECTANGULAR (2)	60"Wx60"L	NO	NO
CONFERENCE	CONFERENCE CHAIRS	ALLSTEEL	INSPIRE INST-NGONO W/ CASTERS	22"Dx24"Wx36"H	NO	NO



2 FIRST FLOOR FINISH SCHEDULE - RCP  
A600 3/32" = 1'-0"



1 FIRST FLOOR FINISH SCHEDULE - PLAN  
A600 3/32" = 1'-0"



**HARDWARE KEYS:**

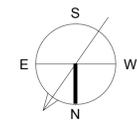
**HW 1:** STORAGE FUNCTION, LEVER, LATCH, MORTICE LOCKSET - SECURE LOCK, CLOSER, 10" SS KICK PLATE INSIDE. THRESHOLD, HARDWARE WILL BE INTEGRAL TO MANUFACTURER SUPPLIED RATED ASSEMBLY

**HW 2:** OFFICE FUNCTION, LEVER, MORTICE LOCKSET, COAT HOOK, CLOSER, THRESHOLD, SILENCERS, HARDWARE WILL BE INTEGRAL TO MANUFACTURER SUPPLIED RATED ASSEMBLY

**HW 3:** RESTROOM FUNCTION, LEVER, CLOSER, THUMBTURN INSIDE WITH SAFETY OVERRIDE FROM OUTSIDE, COAT HOOK, 10" SS KICK PLATE OUTSIDE

**HW 4:** STORAGE FUNCTION, LEVER, SURFACE MOUNTED LEVER LOCKSET, CLOSER, 10" SS KICK PLATE BOTH SIDES, THRESHOLD, HARDWARE WILL BE INTEGRAL TO MANUFACTURER SUPPLIED RATED ASSEMBLY.

**HW 5:** EXTERIOR CONTROL ACCESS ENTRANCE FUNCTION, MAG LOCK INTEGRATED WITH BUILDING SECURITY (INSIDE), EXIST DEVICE (PUSH BAR), THRESHOLD, DUST SWIPE, GASKET, MORTICE LOCKSET (EMERGENCY ELECTRONIC OVERRIDE), MATCH EXISTING EXIT DEVICE. KEY ENTRY FROM OUTSIDE, KEYMARK BY MEDCO.



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

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No.	Description	Date

Revisions

Drawing Title  
**SECOND FLOOR FINISH SCHEDULE**

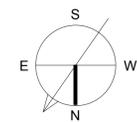
Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

Drawn By PG
Checked By AV

Sheet Number <b>A601</b>
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License #15975



**ROOM FINISH SCHEDULE - SECOND FLOOR**

Number	Name	Floor Finish	Ceiling Finish	Wall Finish	Wall Finish 2	Comments
9	DANCE STUDIO		AB6605	PAINT1		ADD WALL PAINT AS ALTERNATIVE
E	TEEN ROOM		AB6605	PAINT1		ADD WALL PAINT AS ALTERNATIVE
F	ROOM F	M8206KL	ACT	PAINT1		

**FINISH LEGEND - SECOND FLOOR**

Key	Description	Manufacturer	Model	Color	Finish	Size	Comments
M8206KL	MODULAR CARPET	MANNINGTON	KEY LARGO 8206	TAN	DYED	2'x2'	
ACT	ACOUSTIC CEILING TILE	ARMSTRONG	ULTIMA	WHITE	FINE TEXTURE	2'x4'	
PAINT1							MATCH EXISTING PAINT, LEVEL 3
AB6605	SUSPENDED ACOUSTIC SOUND BAFFLE	ARMSTRONG	6605	WHEAT	FABRIC	2'x4'	

**HARDWARE KEYS:**

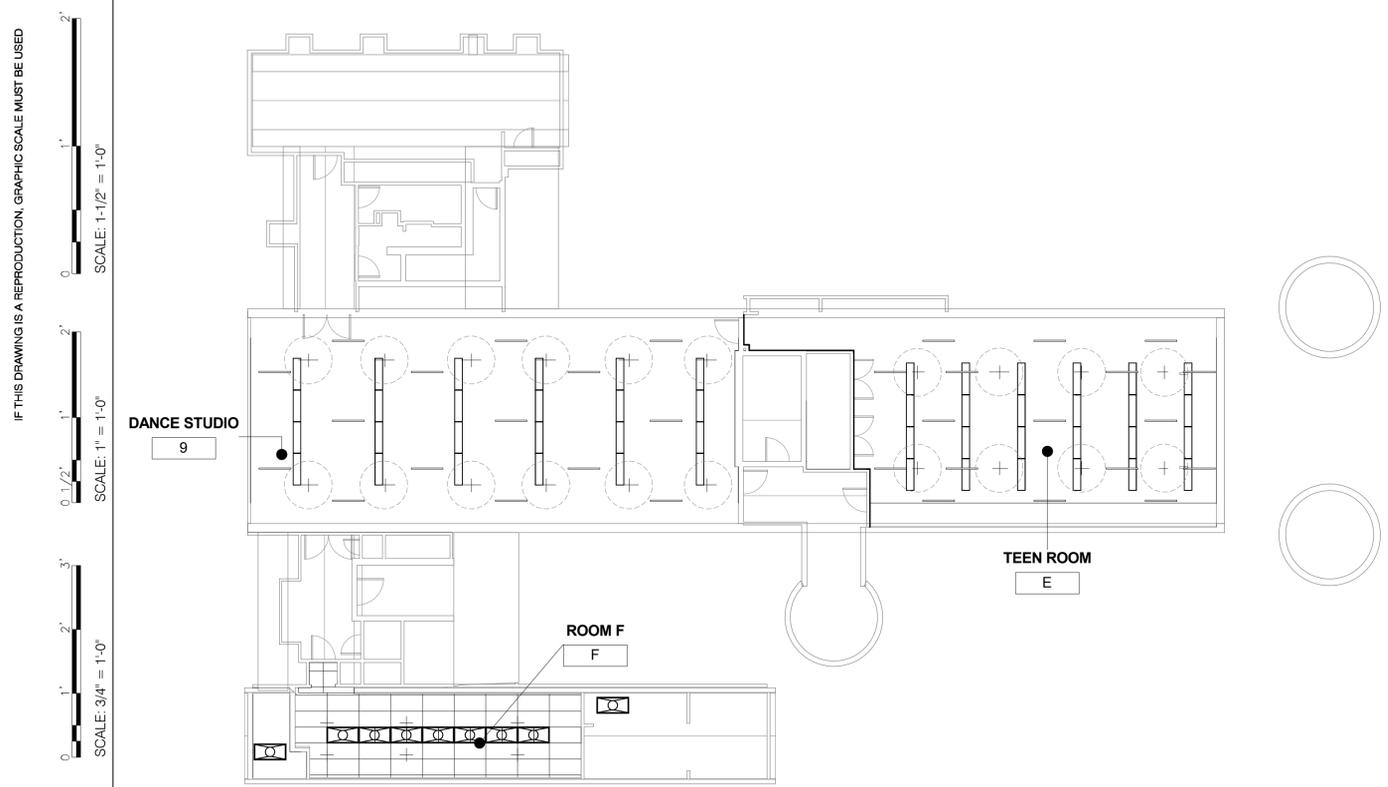
**HW 1 :**  
STORAGE FUNCTION, LEVER, LATCH, MORTICE LOCKSET - SECURE LOCK. CLOSER, 10" SS KICK PLATE INSIDE. THRESHOLD. HARDWARE WILL BE INTEGRAL TO MANUFACTURER SUPPLIED RATED ASSEMBLY

**HW 2 :**  
OFFICE FUNCTION, LEVER, MORTICE LOCKSET. COAT HOOK, CLOSER. THRESHOLD. SILENCERS. HARDWARE WILL BE INTEGRAL TO MANUFACTURER SUPPLIED RATED ASSEMBLY

**HW 3 :**  
RESTROOM FUNCTION, LEVER, CLOSER, THUMBTURN INSIDE WITH SAFETY OVERRIDE FROM OUTSIDE, COAT HOOK, 10" SS KICK PLATE INSIDE

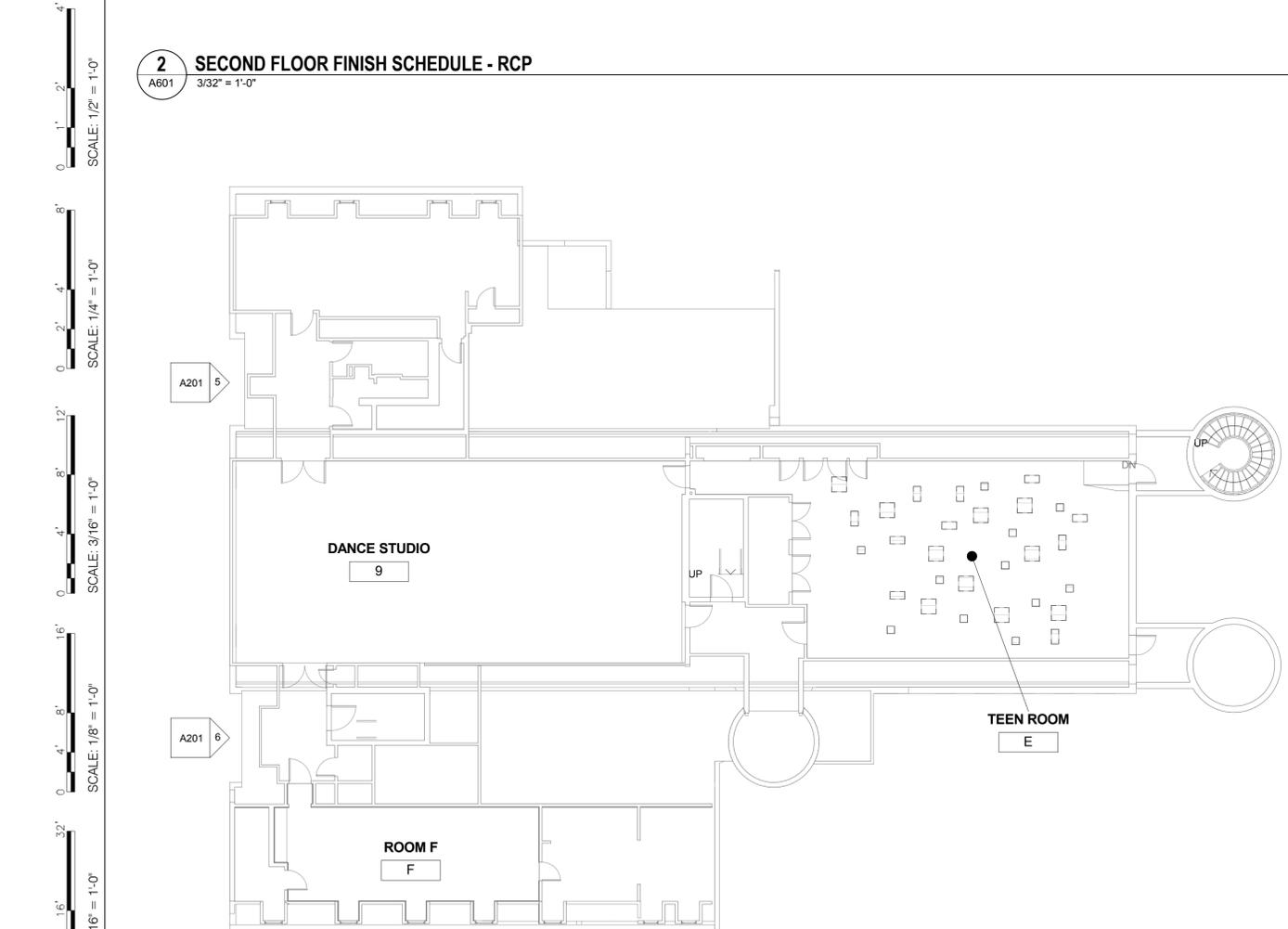
**HW 4:**  
STORAGE FUNCTION, LEVER, MORTICE LOCKSET, CLOSER, 10" SS KICK PLATE BOTH SIDES. THRESHOLD. HARDWARE WILL BE INTEGRAL TO MANUFACTURER SUPPLIED RATED ASSEMBLY.

**HW 5:**  
EXTERIOR CONTROL ACCESS ENTRANCE FUNCTION. MAG LOCK INTEGRATED WITH BUILDING SECURITY(INSIDE), EXIST DEVICE (PUSH BAR), THRESHOLD, DUST SWIPE, GASKET, MORTICE LOCKSET (EMERGENCY ELECTRONIC OVERRIDE)



**2 SECOND FLOOR FINISH SCHEDULE - RCP**

A601 3/32" = 1'-0"



**1 SECOND FLOOR FINISH SCHEDULE - PLAN**

A601 3/32" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

2' SCALE: 1-1/2" = 1'-0"  
1' SCALE: 1" = 1'-0"  
0.1/2' SCALE: 3/4" = 1'-0"  
3' SCALE: 3/4" = 1'-0"  
2' SCALE: 1/2" = 1'-0"  
1' SCALE: 1/4" = 1'-0"  
8' SCALE: 3/16" = 1'-0"  
4' SCALE: 1/8" = 1'-0"  
16' SCALE: 1/16" = 1'-0"

**POWER SYMBOLS**

	NON FUSED DISCONNECT SWITCH
	PANEL BOARD, NORMAL POWER
	JUNCTION BOX, MOUNTING AS INDICATED MOUNTED
	WORK TO BE DEMOLISHED/REWORKED
	EXISTING TO REMAIN
	NEW WORK
	125V, DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER, NEMA 5-20R, WALL RECESSED MOUNTED 18" AFF, UON. PROVIDE HOT, NEUTRAL, AND GROUND WIRES.
	125V, DUPLEX RECEPTACLE, NEMA 5-20R, WALL RECESSED MOUNTED 18" AFF, UON. PROVIDE HOT, NEUTRAL, AND GROUND WIRES.
	125V, SIMPLEX RECEPTACLE, NEMA 5-20R, WALL RECESSED MOUNTED 18" AFF, UON. PROVIDE HOT, NEUTRAL, AND GROUND WIRES.
	125V, QUADPLEX RECEPTACLE, NEMA 5-20R, WALL RECESSED MOUNTED 18" AFF, UON. PROVIDE HOT, NEUTRAL, AND GROUND WIRES.
	220V, SPECIAL PURPOSE RECEPTACLE, NEMA 6-20R, WALL RECESSED MOUNTED 18" AFF, UON
	125V, DUPLEX FLOOR RECEPTACLE, NEMA 5-20R, FLOOR RECESSED MOUNTED, UON

**RECEPTACLE SUFFIXES**

XX" AFF	= MOUNT DEVICE AT INDICATED INCHES AFF TO CENTER
GFCI	= GROUND FAULT CIRCUIT INTERRUPTER
REF	= REFRIGERATOR
FRZ	= FREEZER
R	= RANGE
AC	= AIR CONDITIONER
CTR	= 125V, COUNTERTOP RECEPTACLE, NEMA 5-20R, WALL RECESSED MOUNTED 6" ABOVE COUNTER, UON
W	= WASHING MACHINE
DW	= DISH WASHER
IM	= ICE MACHINE

**COMMUNICATION SYMBOLS**

	DATA OUTLET, WALL RECESSED MOUNT, 18" AFF UON.
	TELEPHONE OUTLET, WALL RECESSED MOUNT, 18" AFF UON.

**LIGHTING FIXTURE SYMBOLS**

	SURFACE MOUNTED FLUORESCENT 1'x4'		WALL MOUNTED LED FIXTURE
	SURFACE MOUNTED CIRCULAR LIGHT 12"		LED POLE LAMP FIXTURE
	LENSED RECESSED FLUORESCENT FIXTURE 2'x4'		CEILING RECESSED MOUNTED 6" LED DOWNLIGHT
	RECESSED FLUORESCENT FIXTURE 2'x2'		LED EXIT SIGN AND EMERGENCY LIGHT COMBO
	LED EXIT SIGN		CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	SUSPENDED CEILING FAN WITH LIGHT		EMERGENCY DUAL HEAD FIXTURE
	20A, REGULAR VOLTAGE - 120V SINGLE POLE, GRADE SWITCH, WALL MOUNT AT 48" AFF TO CENTER UON		
	20A, REGULAR VOLTAGE - 120V SINGLE POLE, GRADE SWITCH, WALL MOUNT AT 48" AFF TO CENTER UON		
	120V SINGLE POLE, 1HP MOTOR RATED SWITCH		
	OCCUPANCY SENSOR SWITCH		
	DIRECT/INDIRECT RECESSED FLUORESCENT TROFFER FIXTURE 2'x4'		
	DIRECT/INDIRECT RECESSED 2'x4' TROFFER LIGHT FIXTURE EQUIPPED WITH EMERGENCY BATTERY BALLAST		

**DISCONNECT SWITCHES SUFFIXES AND SPECIFICATION**

VFD	= VARIABLE FREQUENCY DRIVER
WP	= WEATHER PROOF NEMA 3R, NEMA 4, OR NEMA 12
NEMA XX	= SPECIFIC NEMA CONFIGURATION
XXXAF	= FRAME SIZE
XXXAT	= TRIP SIZE

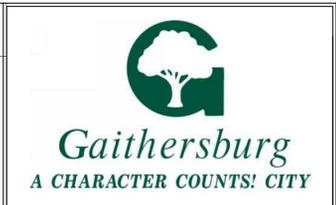
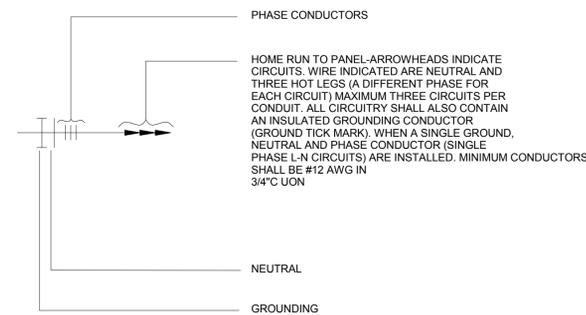
**ABBREVIATIONS**

A	AMPERES
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
BC	BARE COPPER
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
C	CONDUIT
CAB	CABINET
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COTR	CONTRACTING OFFICER
CP	CONTROL PANEL
CTS	CURRENT TRANSFORMERS
CTR	COUNTER
CU	COPPER
DEMO	DEMOLITION
DS	DISCONNECT SWITCH
DWG	DRAWING(S)
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EWV	ELECTRIC WATER COOLER
EWL	ELECTRIC WATER HEATER
ETR	EXISTING TO REMAIN
EX	EXISTING
FLA	FULL LOAD AMPERES
FLUOR	FLUORESCENT
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	ENGINE GENERATOR SET
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GFS	GROUND FAULT SENSOR
GND	GROUND
GYP	GYPSUM
HGT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HV	HIGH VOLTAGE
INC	INCANDESCENT
JB	JUNCTION BOX
KV	KILO-VOLTS
KVA	KILO-VOLTS-AMPERES
KVAR	KILO-VOLTS-AMPERES REACTIVE
KW	KILO-WATTS
KWH	KILO-WATT-HOURS
LAN	LOCAL AREA NETWORK
LTG	LIGHTING
m	METER
MM	MILLIMETER
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR	MANUFACTURER
MGB	MAIN GROUND BAR
MH	METAL HALIDE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
PNL	PANEL
PRI	PRIORITY
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
TEL	TELEPHONE
TUNG	TUNGSTEN
TYP	TYPICAL
UC	UNDERGROUND COMMUNICATION
UFC	UNIFIED FACILITIES CRITERIA
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UP	UNDERGROUND POWER
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UNDERGROUND SECURITY
V	VOLTS
VA	VOLT-AMPERES
VFC	VARIABLE FREQUENCY CONTROLLER
W	WATTS
WHE	WAREHOUSE
WP	WEATHER PROOF
XFMR	TRANSFORMER

**GENERAL NOTES**

- ALL WORK SHOWN IS DIAGRAMMATIC AND IS FOR CIRCUIT ALL LOCATION ONLY. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. COORDINATE ALL DEVICE LOCATIONS WITH ACTUAL DOOR SWINGS, CABINETS, COUNTERS, ETC., AS INDICATED IN ARCHITECTURAL DRAWINGS.
- REFER TO ALL CONTRACT DOCUMENTS FOR POSSIBLE INTERFERENCES. BEFORE BID IS MADE. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF HIS FAILURE TO HAVE MADE SUCH EXAMINATIONS OR OF ANY ERROR ON HIS PART.
- ALL DISCONNECTS SHALL HAVE A SEPARATE GROUND BAR AND A NEUTRAL BAR.
- ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING SIGNAGE) OF EQUIPMENT LOCATION, SPARE, OR SPACE. UPDATE DIRECTORIES FOR ALL ALTERED PANELS. LABEL AND IDENTIFY ALL JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER.
- SEPARATE NEUTRAL CONDUCTORS TO BE RUN WITH ALL BRANCH CIRCUITS.
- ALL CIRCUITS TO BE RUN WITH GREEN GROUNDING CONDUCTOR SIZED PER NEC 250.122.
- MOUNTING HEIGHTS OF ALL DEVICES ARE TO CENTER OF DEVICE, OUTLET, FIXTURE OR EQUIPMENT UNLESS OTHERWISE NOTED.
- CONSOLIDATION OF INDIVIDUAL CONDUIT HOME RUNS SHOWN ON THE DRAWINGS SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL. LIGHTING AND RECEPTACLE CIRCUITS ONLY MAY BE EXEMPTED, LIMITED TO NOT MORE THAN THREE CIRCUITS PER CONDUIT HOMERUN.
- PROVIDE GROUNDING TYPE EXPANSION FITTINGS OR OTHER APPROVED METHODS TO ALLOW FOR EXPANSION, CONTRACTIONS AND DEFLECTION WHERE CONDUITS CROSS EXPANSION JOINTS.
- ALL EMPTY CONDUITS SHALL BE FURNISHED WITH PULL-WIRE AND WILL BE STUBBED-UP A.F.F., OR ABOVE SUSPENDED CEILING AS THE CASE MAY BE, AND SHALL BE CAPPED AT BOTH ENDS.
- NUMBER OF BENDS IN A CONDUIT SECTION RUN SHALL NOT EXCEED FOUR 90-DEGREE BENDS, OR EQUIVALENT OF SWEEPS AND RADIUS BENDS.
- ALL LOW VOLTAGE COMMUNICATIONS WIRING SHALL BE ROUTED IN EMT CONDUITS, OR OTHER APPROVED CONDUITS, EXCEPT WHERE RUN IS CONCEALED IN ACCESSIBLE AREAS. ALL EXPOSED WIRING SHALL BE PLENUM RATED AND SUPPORTED AS REQUIRED BY CODE.
- WIRING FOR ALL LOW VOLTAGE COMMUNICATION SYSTEMS SHALL BE RUN IN DEDICATED RACEWAYS AND NOT SHARED WITH POWER WIRING OR OTHER SYSTEMS.
- VERIFY MECHANICAL EQUIPMENT SWITCH AND CONNECTION REQUIREMENTS, ITEM BY ITEM WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND WIRING OF EQUIPMENT. RESOLVE ALL DISCREPANCIES WITHOUT FURTHER COST TO THE OWNER.
- WHERE MOUNTING HEIGHTS ARE NOT DETAILED, INSTALL ELECTRICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE MAXIMUM HEADROOM POSSIBLE. INSTALL ELECTRICAL EQUIPMENT TO FACILITATE MAINTENANCE, REPAIR AND REPLACEMENT OF EQUIPMENT AND COMPONENTS AS MUCH AS PRACTICAL. CONNECT THE EQUIPMENT FOR EASE OF DISCONNECTING WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
- WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COSTS TO COTR. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE COTR.
- WHERE THE CONTRACTOR REQUESTS APPROVAL OF AN ITEM OF EQUIPMENT WHICH DEVIATES FROM THE REQUIREMENTS OF THE DRAWINGS AND WILL REQUIRE A REDESIGN OF STRUCTURE, PARTITIONS, FOUNDATIONS, PIPING, WIRING, OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL, OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN, AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE, SHALL BE PREPARED AND PAID FOR BY THIS CONTRACTOR AND SUBMITTED TO THE ARCHITECT FOR APPROVAL.
- PROVIDE ALL POWER WIRING FOR POWER, WIRING SHALL INCLUDE FEEDERS, BRANCH CIRCUITS, DISCONNECT SWITCHES, EQUIPMENT TERMINALS. DISCONNECTS SHALL BE PROVIDED IN ACCORDANCE WITH CODE REQUIREMENTS WHETHER OR NOT SPECIFICALLY INDICATED ON DRAWINGS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE, N.E.C. 70, AND ALL LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE BUILDING AND SAFETY CODES AND ORDINANCES, AND THE RULES AND REGULATIONS OF ANY LEGAL BODY HAVING JURISDICTION.
- ALL ELECTRICAL ITEMS, MATERIALS, DEVICES, APPLIANCES SHALL BE U.L. LABELED.
- ALL NECESSARY ADDITIONS AND ALTERATIONS TO EXISTING WORK SHALL BE INCLUDED IN THE CONTRACT AS REQUIRED TO PROVIDE AND MAINTAIN A COMPLETE AND PROPER ELECTRICAL INSTALLATION. THIS WORK SHALL INCLUDE:
  - RELOCATION OF PULL BOXES, RACEWAYS, ETC., TO PERMIT THE INSTALLATION OF NEW EQUIPMENT.
  - DISCONNECTION/RECONNECTIONS/REMOVAL/REINSTALLATION OF ELECTRICAL SUPPLY, CONTROL, AND UTILIZATION EQUIPMENT REQUIRED FOR CONTINUED OPERATION, INCLUDING TEMPORARY WORK AS REQUIRED.
  - PROVISIONS FOR THE RELOCATION OF ALL PIPING, DUCTWORK, ETC., AS REQUIRED FOR ELECTRICAL WORK, WHERE NOT SHOWN OR SPECIFIED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE A/E TEAM PRIOR TO BID SO THAT THE APPROPRIATE TRADE MAY BE ASSIGNED TO BID; OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL SUCH RELOCATIONS.
  - EQUIPMENT TO BE TURNED OVER TO OWNER, SHALL BE TURNED OVER IN CLEAN AND WORKING CONDITION.
  - DISCONNECT ELECTRICAL SERVICES TO EQUIPMENT TO BE REMOVED. REMOVE ALL UNUSED CONDUIT AND CONDUCTORS BACK TO POINT OF SERVICE, OR NEXT ACTIVE DEVICE, UNLESS THEY ARE TO BE REUSED UNDER NEW CONSTRUCTION.
  - UNUSED CONDUITS CAN BE ABANDONED WHERE CONCEALED IN FLOORS OR WALLS, BUT MUST BE REMOVED FROM CEILING SPACES, EXPOSED AREAS AND ACCESSIBLE LOCATIONS.
- WHERE WORK UNDER THIS CONTRACT REQUIRES EXTENSION, RELOCATION, RECONNECTIONS OR MODIFICATIONS TO EXISTING EQUIPMENT OR SYSTEMS, THE EXISTING EQUIPMENT OR SYSTEM SHALL BE RESTORED TO ITS ORIGINAL AND OPERATING CONDITION. EXTEND NEW HOMERUNS OR CIRCUIT EXTENSIONS, WHERE REQUIRED. DISCONNECT AND REMOVE ALL EQUIPMENT INDICATED TO BE DEMOLISHED, INCLUDING OUTLETS, DEVICES, RELAYS, AND CONDUCTORS.
- MAINTAIN ELECTRICAL WORKING SPACE CLEARANCE PER NEC 110.26

**HOMERUN SPECIFICATION**



**CASEY COMMUNITY CENTER INTERIOR RENOVATION**

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4TH FLOOR (F)301.770.3521  
ROCKVILLE, MD 20850 www.nika-ae.com

Professional Certification.  
I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 45772, Expiration date 07.28.2016

No.	Description	Date

Revisions

**ELECTRICAL NOTES AND SYMBOLS**

Phase  
 CONCEPT  30%  60%  90%  100%

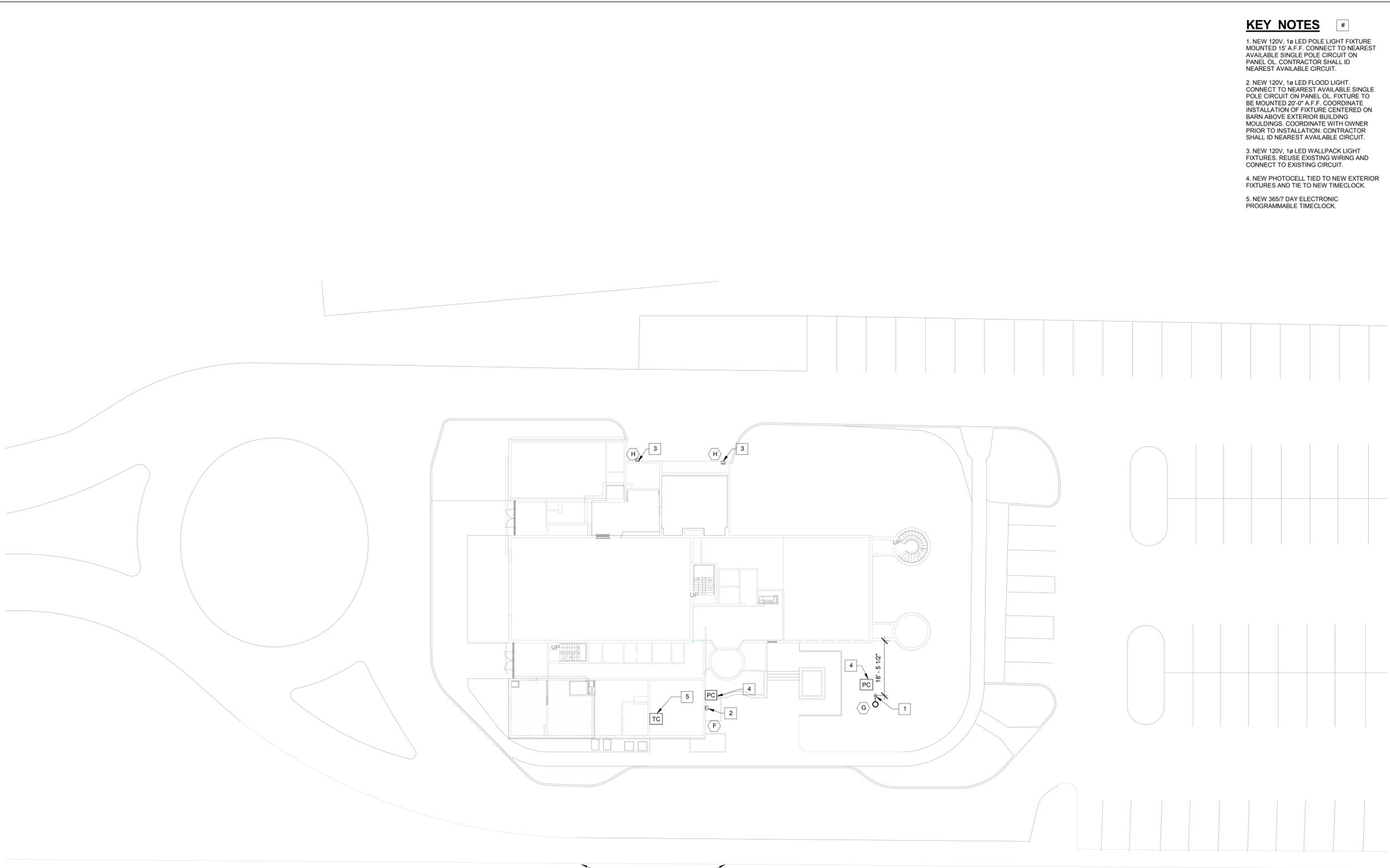
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Date 07-15-15	CADD Filename Revit Model
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Drawn By: JO  
Checked By: AM

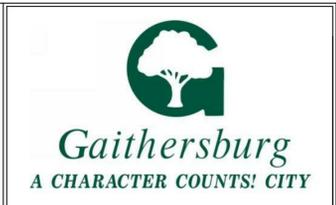
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**E001**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



- KEY NOTES** #
1. NEW 120V, 1ø LED POLE LIGHT FIXTURE MOUNTED 20' A.F.F. CONNECT TO NEAREST AVAILABLE SINGLE POLE CIRCUIT ON PANEL OL. CONTRACTOR SHALL ID NEAREST AVAILABLE CIRCUIT.
  2. NEW 120V, 1ø LED FLOOD LIGHT. CONNECT TO NEAREST AVAILABLE SINGLE POLE CIRCUIT ON PANEL OL. FIXTURE TO BE MOUNTED 20' A.F.F. COORDINATE INSTALLATION OF FIXTURE CENTERED ON BARN ABOVE EXTERIOR BUILDING MOULDINGS. COORDINATE WITH OWNER PRIOR TO INSTALLATION. CONTRACTOR SHALL ID NEAREST AVAILABLE CIRCUIT.
  3. NEW 120V, 1ø LED WALLPACK LIGHT FIXTURES. REUSE EXISTING WIRING AND CONNECT TO EXISTING CIRCUIT.
  4. NEW PHOTOCELL TIED TO NEW EXTERIOR FIXTURES AND TIE TO NEW TIMECLOCK.
  5. NEW 3657 DAY ELECTRONIC PROGRAMMABLE TIMECLOCK.



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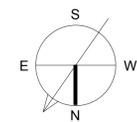
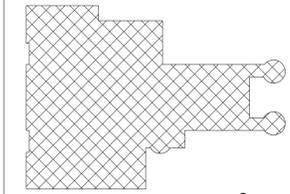


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**1 SITE PLAN - ELECTRICAL**  
E101 1/16" = 1'-0"

**SCOPE OF WORK**



No.	Description	Date

Revisions

**ELECTRICAL SITE PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

Drawn By Author  
Checked By Checker

Sheet Number  
**E101**





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License number 45772,  
Expiration date 07.28.2016

No.	Description	Date

Revisions

Drawing Title  
**ELECTRICAL FIRST FLOOR  
OVERALL PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

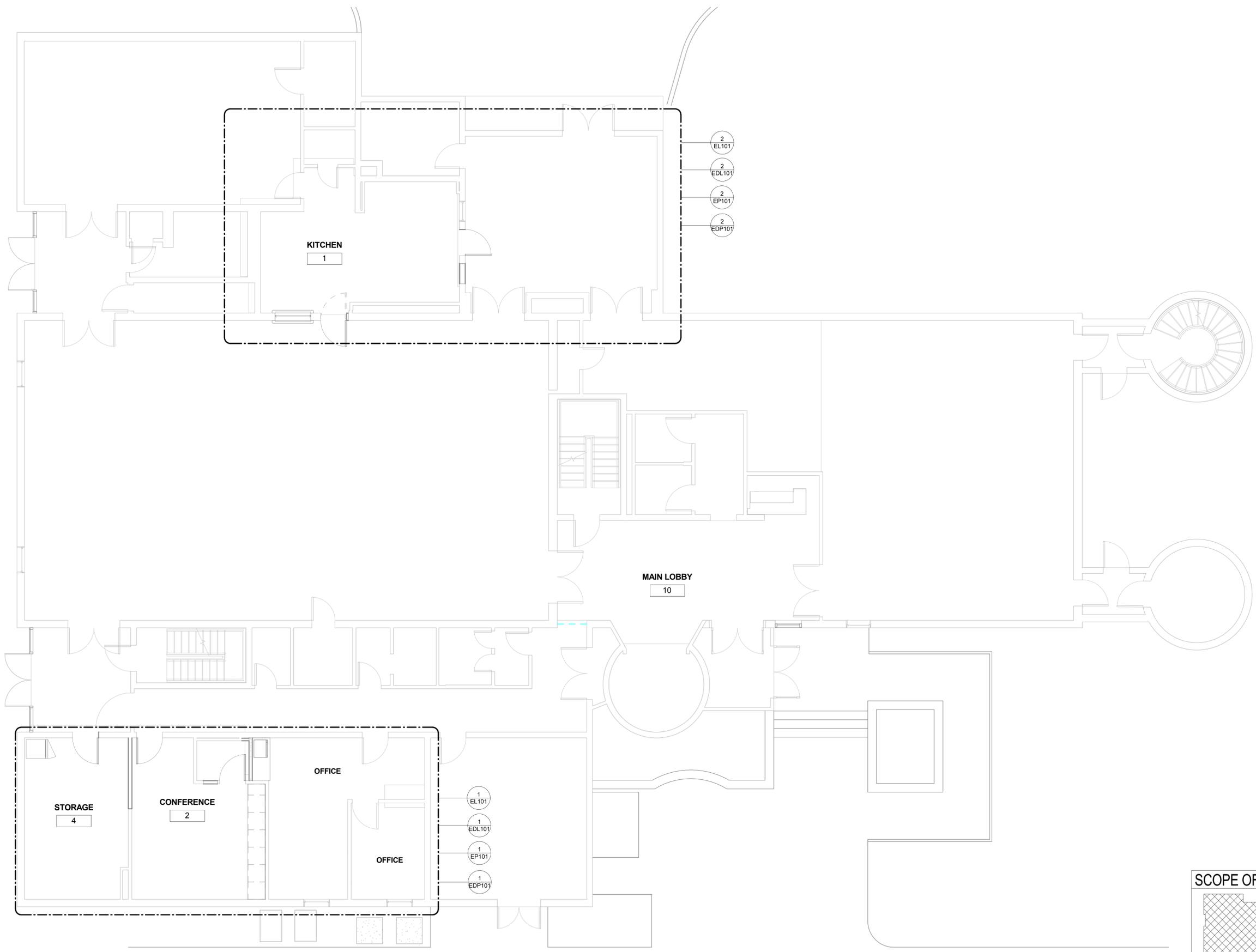
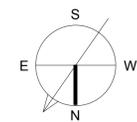
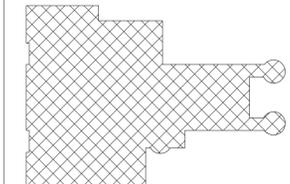
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Date 07-15-15	CADD Filename Revit Model
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Drawn By JO
Checked By AM

Sheet Number <b>E102</b>
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#### SCOPE OF WORK



**1 ELECTRICAL FIRST FLOOR OVERALL PLAN**  
E102 3/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 0.5' 1' 1.5' 2' 3' SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4' SCALE: 1/2" = 1'-0"

0 1' 2' 3' 4' 5' 6' 8' SCALE: 1/4" = 1'-0"

0 4' 8' 12' SCALE: 3/16" = 1'-0"

0 4' 8' 12' 16' 20' 24' 32' SCALE: 1/8" = 1'-0"

0 4' 8' 12' 16' 20' 24' 32' SCALE: 1/16" = 1'-0"



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License number 45772,  
Expiration date 07.28.2016

No.	Description	Date

Revisions

Drawing Title

**ELECTRICAL SECOND FLOOR  
OVERALL PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015 Drawing Scale: AS NOTED

Date  
07-15-15 CADD Filename  
Revit Model CADD Plot Scale  
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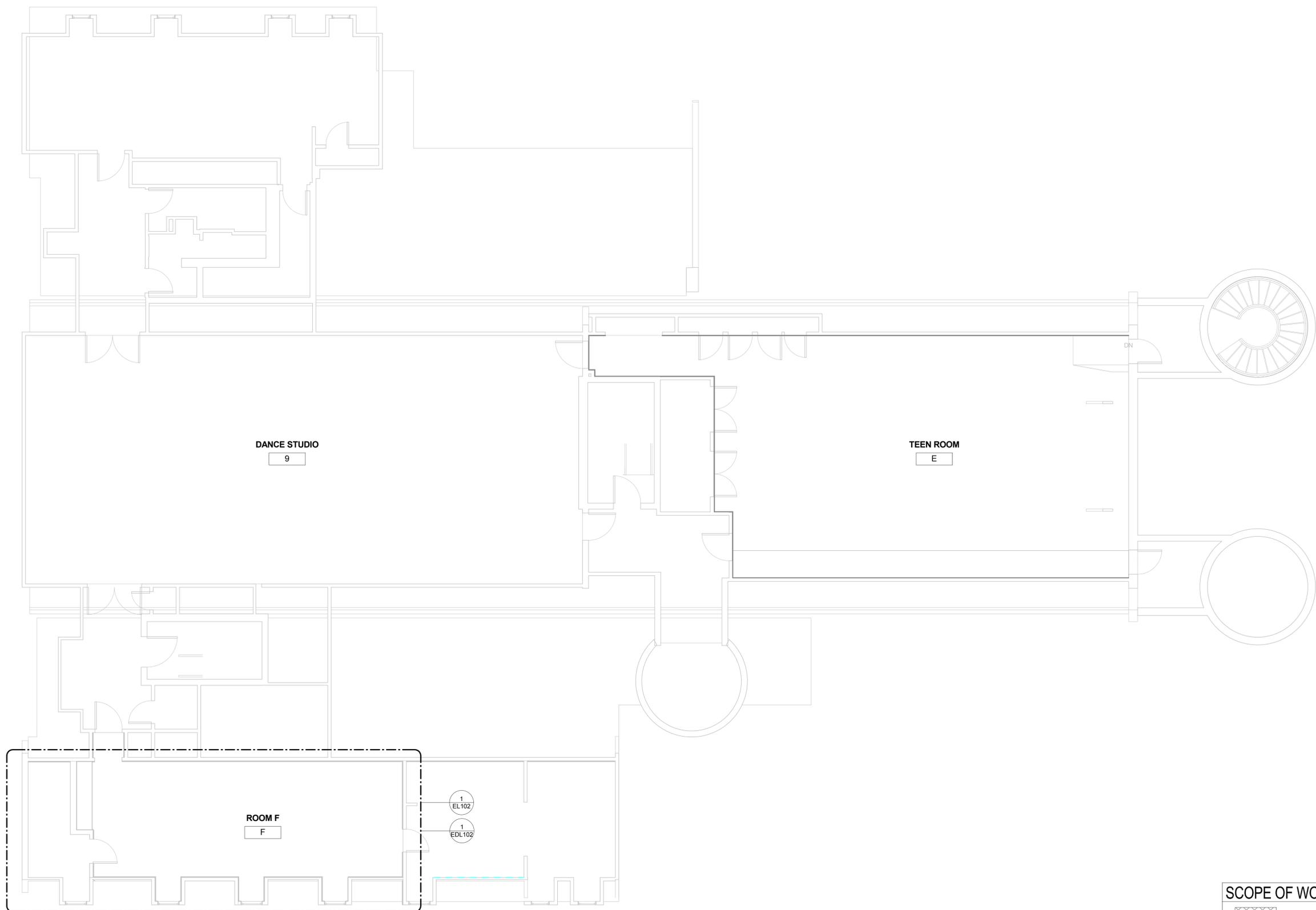
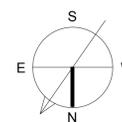
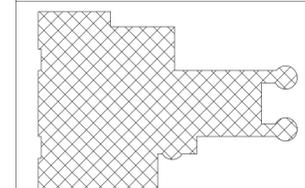
Drawn By  
JO

Checked By  
AM

Sheet Number

**E103**

**SCOPE OF WORK**



**1 ELECTRICAL SECOND FLOOR OVERALL PLAN**  
E103 3/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 1' 2' 3' SCALE: 3/4" = 1'-0"

0 1' 2' 4' SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6' SCALE: 1/4" = 1'-0"

0 1' 2' 4' 6' 8' 12' SCALE: 3/16" = 1'-0"

0 1' 2' 4' 6' 8' 12' 16' 32' SCALE: 1/8" = 1'-0"

0 1' 2' 4' 6' 8' 12' 16' 32' SCALE: 1/16" = 1'-0"



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laws of the State of Maryland.  
License number 45772,  
Expiration date 07.28.2016

No.	Description	Date

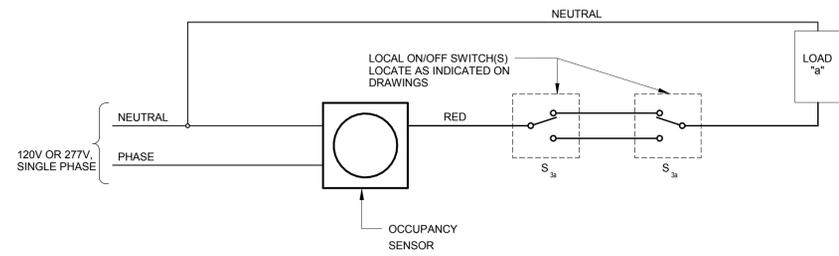
Revisions

Drawing Title  
**ELECTRICAL DETAILS**

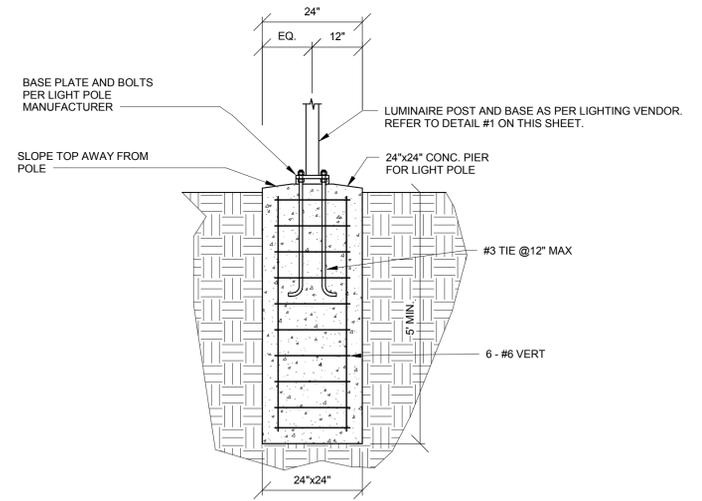
Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

Drawn By JO
Checked By AM
Sheet Number <b>E501</b>



**1**  
E501 NTS  
**LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM WITH THREE WAY SWITCHES.**



**2**  
E501 1:20  
**LUMINAIRE POST BASE DETAIL**

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 1' 2' 3' SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4' SCALE: 1/2" = 1'-0"

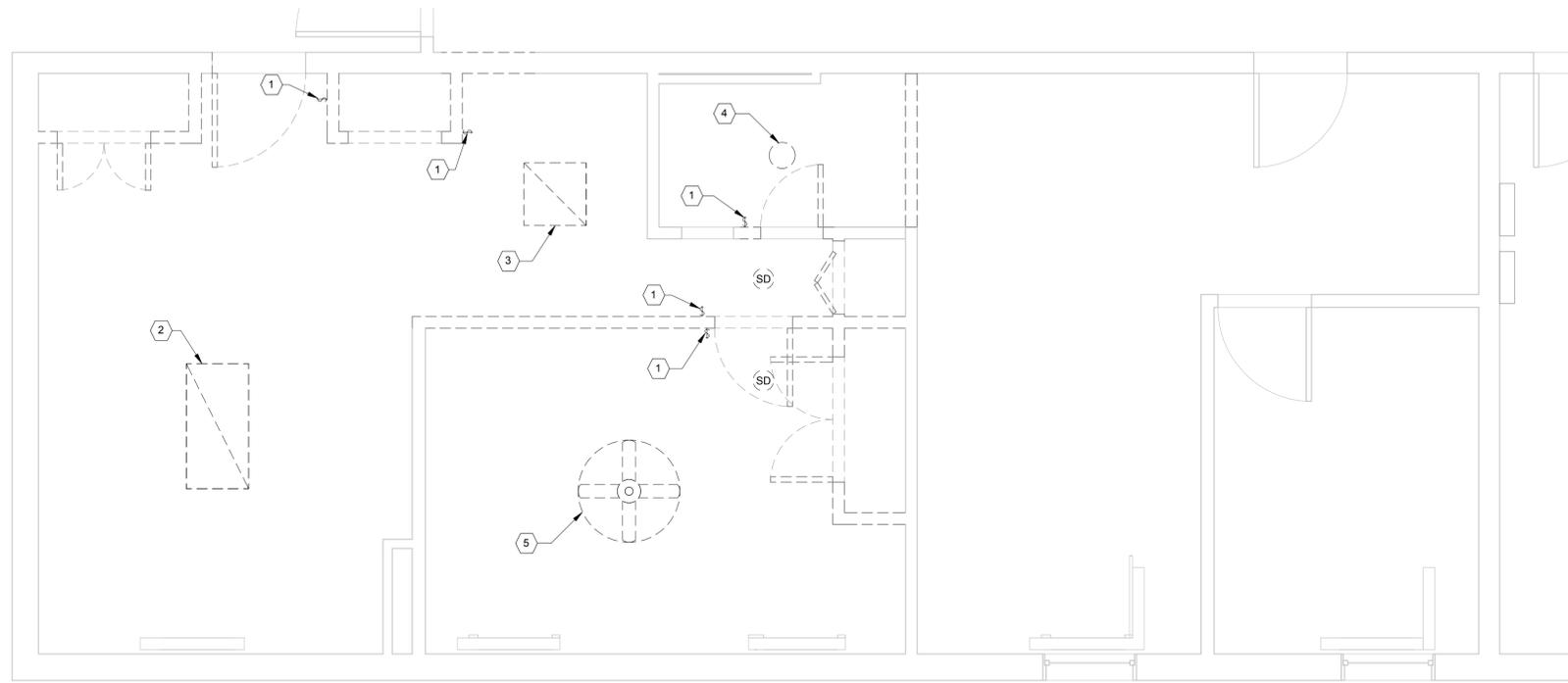
0 1' 2' 3' 4' 5' 6' SCALE: 1/4" = 1'-0"

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' SCALE: 3/16" = 1'-0"

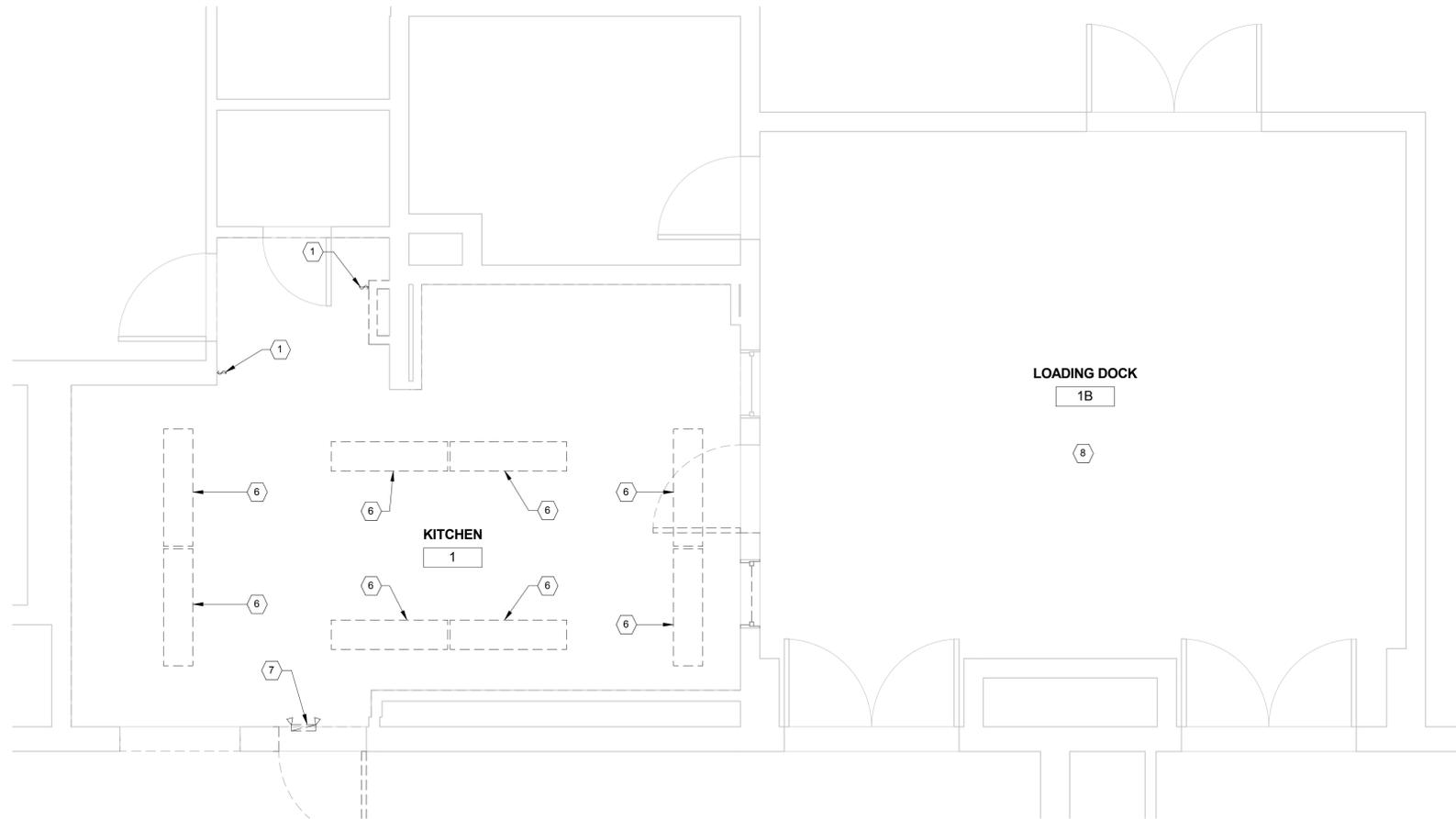
0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' SCALE: 1/8" = 1'-0"

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' SCALE: 1/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



**1**  
EDL101  
**APARTMENT AND BATHROOM ELECTRICAL REFLECTED CEILING PLAN - ENLARGED - DEMOLITION**  
3/8" = 1'-0"



**2**  
EDL101  
**ELECTRICAL FIRST FLOOR ENLARGED REFLECTED CEILING PLAN - DEMOLITION**  
3/8" = 1'-0"

**GENERAL SHEET NOTES**

1. REMOVE ALL EXISTING WIRING WITHIN WORK AREA BACK TO SOURCE. FEEDERS SERVING PANEL K AND A ARE TO BE REUSED.

**DEMOLITION KEY NOTES** #

1. EXISTING LIGHT SWITCH IS TO BE DEMOLISHED.
2. EXISTING 2x4' LIGHT FIXTURE IS TO BE DEMOLISHED.
3. EXISTING 2x2' LIGHT FIXTURE IS TO BE DEMOLISHED.
4. EXISTING ROUND SURFACE MOUNTED LIGHT FIXTURE IS TO BE REMOVED.
5. EXISTING CEILING FAN IS TO BE REMOVED.
6. EXISTING 1x4' SURFACE MOUNTED LIGHT FIXTURE IS TO BE REMOVED.
7. EXISTING EMERGENCY WALL PACK LIGHT FIXTURE IS TO BE REMOVED.
8. EXISTING LIGHT FIXTURES IN THE LOADING DOCK ARE TO BE REMOVED. RETAIN WIRING FOR REUSE.



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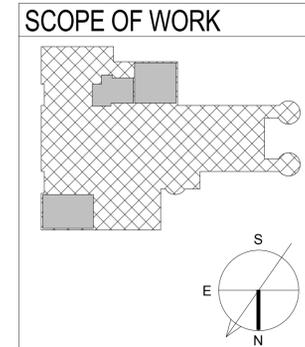
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**ELECTRICAL FIRST FLOOR ENLARGED REFLECTED CEILING PLAN - DEMOLITION**

Phase  
 CONCEPT  30%  60%  90%  100%

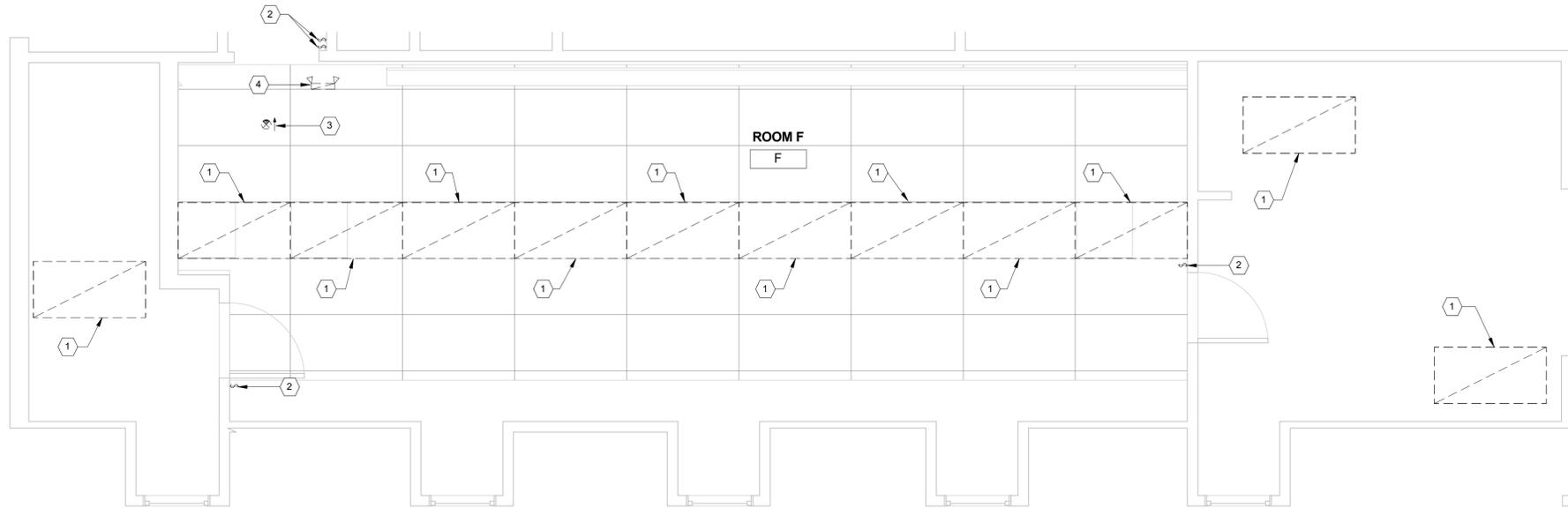
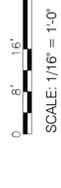
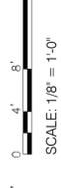
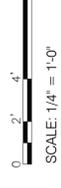
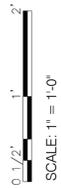
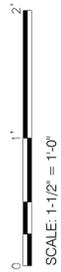
A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

Drawn By JO  
Checked By AM

Sheet Number  
**EDL101**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



**ELECTRICAL SECOND FLOOR ENLARGED REFLECTED CEILING PLAN - COMPUTER ROOM F -**

**1**  
EDL102 3/8" = 1'-0"

**GENERAL SHEET NOTES**

1. RETAIN ALL EXISTING WIRING FOR REUSE.

**DEMOLITION KEY NOTES** #

- 1. EXISTING 2x4 TROFFER LIGHT FIXTURE IS TO BE REMOVED.
- 2. EXISTING LIGHT SWITCH IS TO BE REMOVED.
- 3. EXISTING EXIT SIGN LIGHT FIXTURE IS TO BE REMOVED.
- 4. EXISTING EMERGENCY WALL PACK LIGHT FIXTURE IS TO BE REMOVED.



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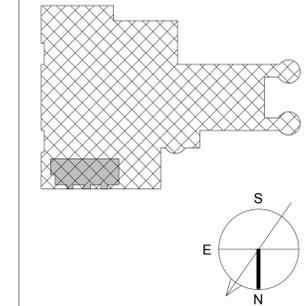
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No.	Description	Date

Revisions

**SCOPE OF WORK**



Drawing Title  
**ELECTRICAL SECOND FLOOR ENLARGED RCP - COMPUTER ROOM F - DEMOLITION**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015 Drawing Scale: AS NOTED

Date  
07-15-15 CADD Filename  
Revit Model CADD Plot Scale  
1:1

Drawn By  
JO

Checked By  
AM

Sheet Number  
**EDL102**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

2' 1' 0 0.5' 1' 1/2" = 1'-0"

2' 1' 0 0.5' 1' 1/2" = 1'-0"

3' 2' 1' 0 0.5' 1' 3/4" = 1'-0"

4' 2' 1' 0 0.5' 1' 1/2" = 1'-0"

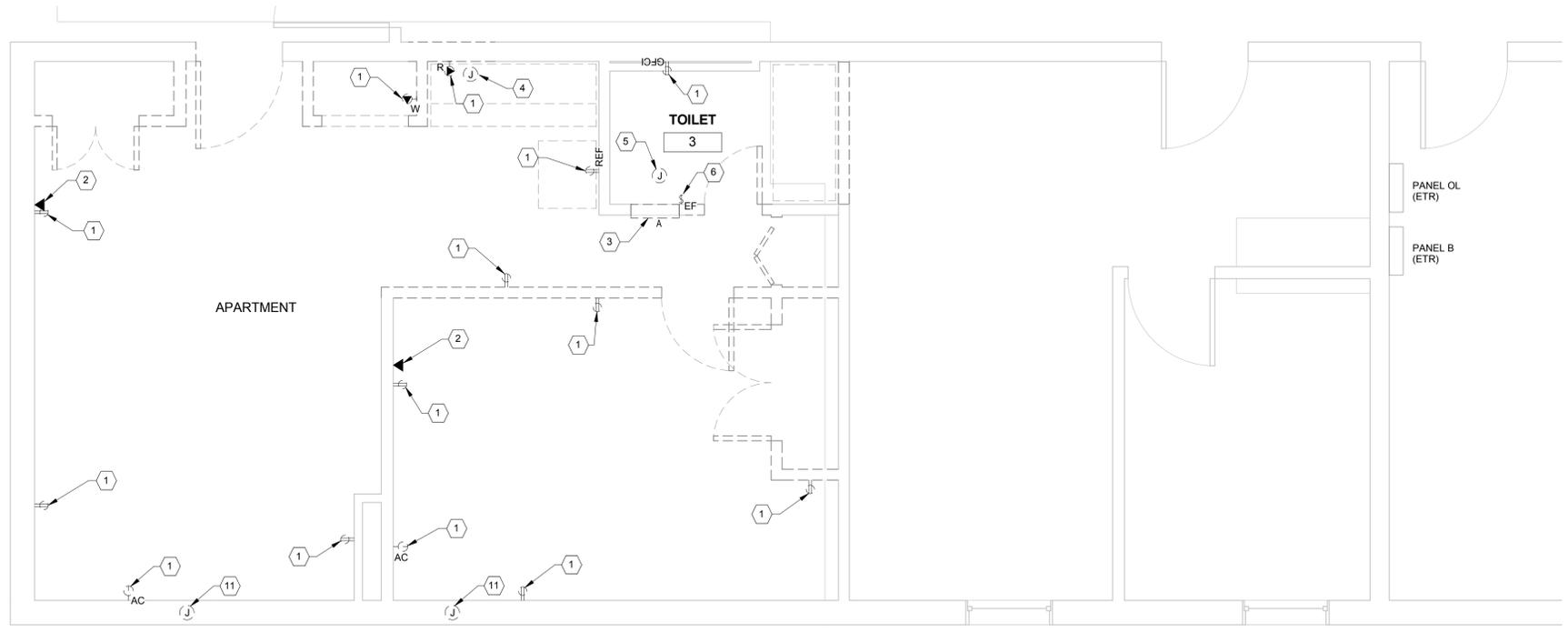
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8' 4' 2' 1' 0 0.5' 1' 1/4" = 1'-0"

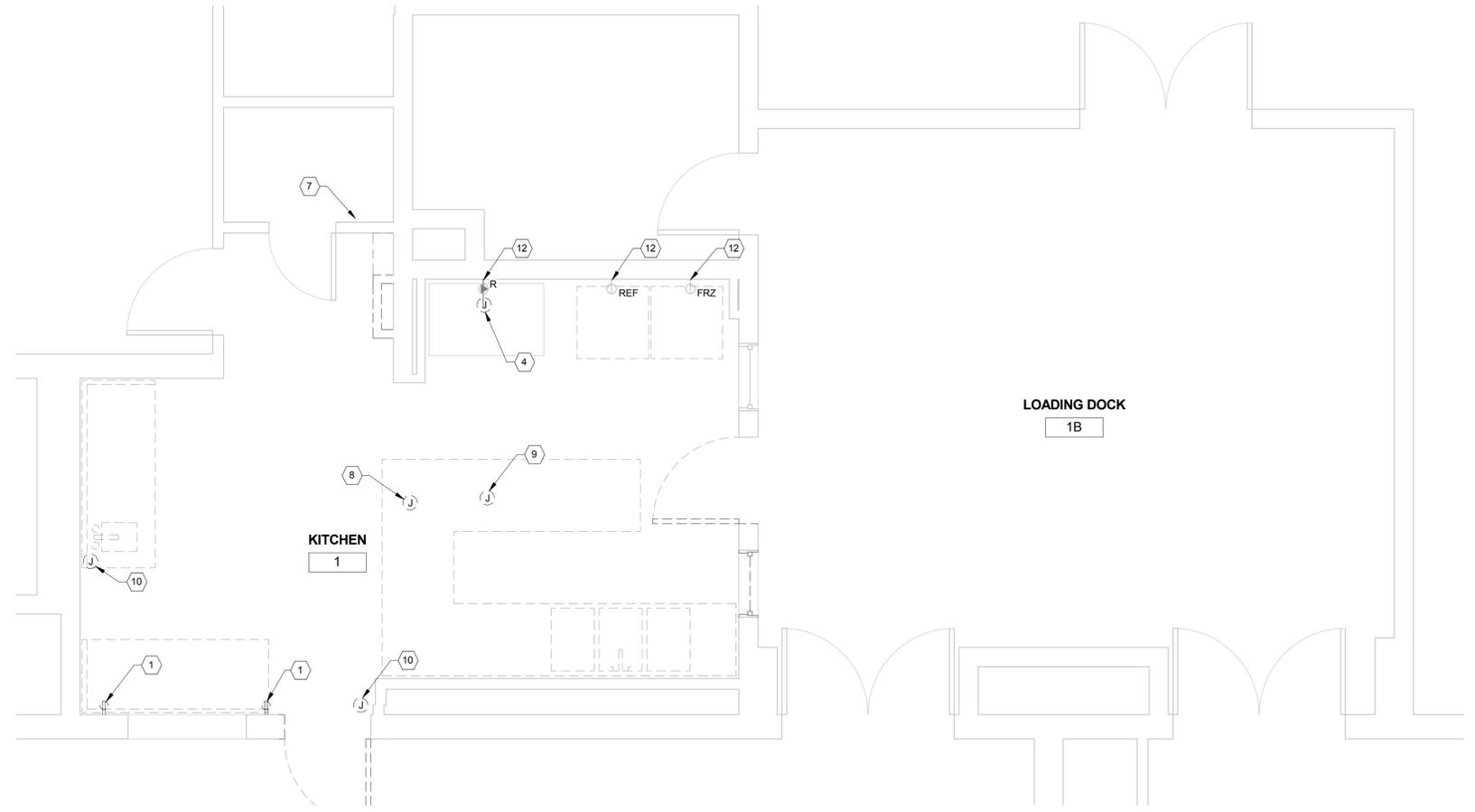
12' 8' 4' 2' 1' 0 0.5' 3/16" = 1'-0"

16' 8' 4' 2' 1' 0 0.5' 1/8" = 1'-0"

32' 16' 8' 4' 2' 1' 0 0.5' 1/16" = 1'-0"



**1 APARTMENT AND BATHROOM ELECTRICAL PLAN - ENLARGED - DEMOLITION**  
EDP101 3/8" = 1'-0"



**2 KITCHEN ELECTRICAL PLAN - ENLARGED - DEMOLITION**  
EDP101 3/8" = 1'-0"

**GENERAL SHEET NOTES**

1. EXISTING BRANCH WIRING FROM THE APARTMENT SHALL BE REMOVED BACK TO PANEL A.
2. RETAIN FEEDERS FOR PANELS A AND K.

**DEMOLITION KEY NOTES** #

1. EXISTING RECEPTACLES ARE TO BE REMOVED.
2. EXISTING TELEPHONE AND DATA OUTLETS ARE TO BE REMOVED.
3. EXISTING 120/208V, 3ø, 100A PANELBOARD A IS TO BE REMOVED.
4. EXISTING HOOD IS TO BE REMOVED.
5. EXISTING EXHAUST FAN IS TO BE REMOVED.
6. EXISTING SWITCH FOR EXHAUST FAN IS TO BE REMOVED.
7. EXISTING 120/208V, 3ø, 400A PANELBOARD K IS TO BE REMOVED.
8. EXISTING ICE MACHINE IS TO BE REMOVED.
9. EXISTING DISH WASHER IS TO BE REMOVED.
10. EXISTING JUNCTION BOX IS TO BE REMOVED. CONTRACTOR SHALL CONTACT OWNER PRIOR TO REMOVAL.
11. EXISTING WALL MOUNTED AC UNITS ARE TO BE REMOVED.
12. EXISTING RANGE, REFRIGERATOR, AND FREEZER RECEPTACLE ARE TO REMAIN.



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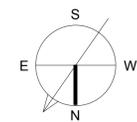
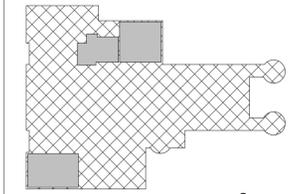
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Revisions

**SCOPE OF WORK**



**ELECTRICAL FIRST FLOOR ENLARGED PLANS - DEMOLITION**

Phase  CONCEPT  30%  60%  90%  100%

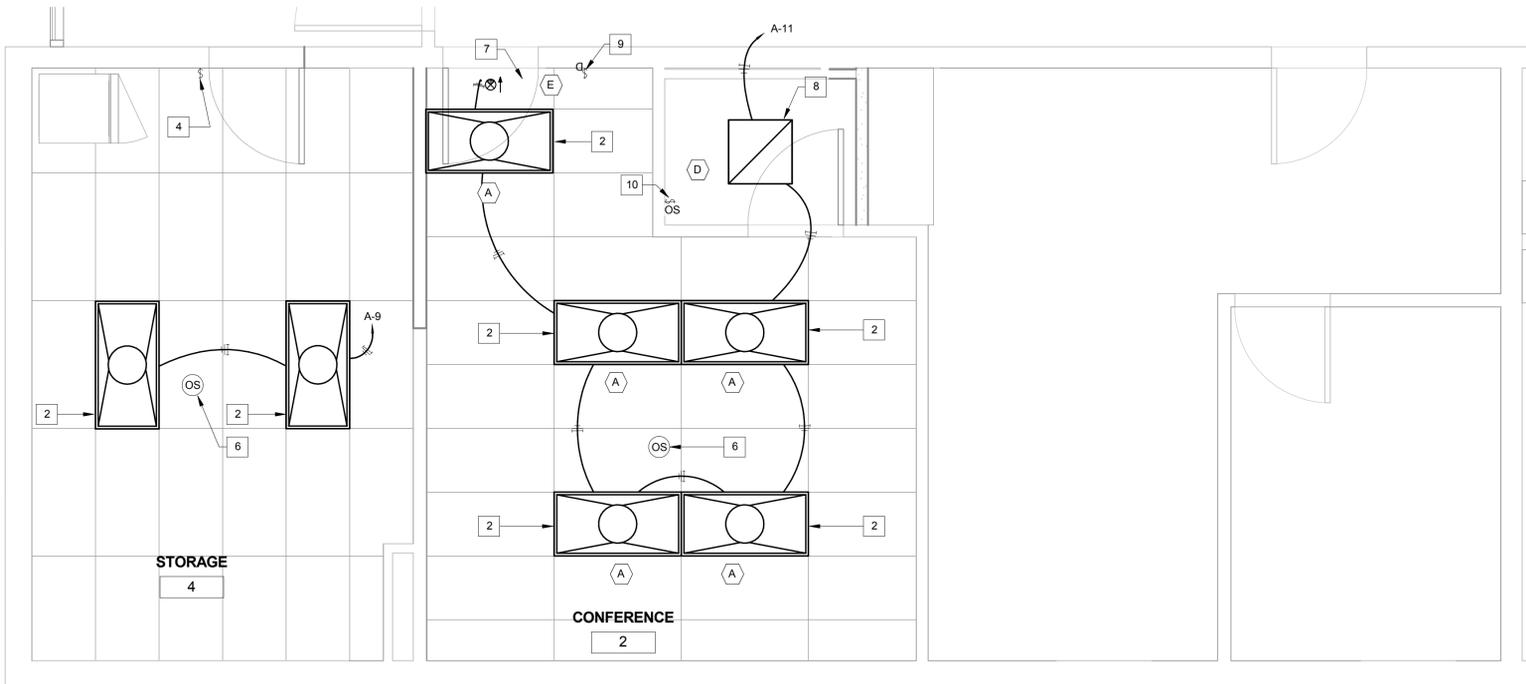
AE Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

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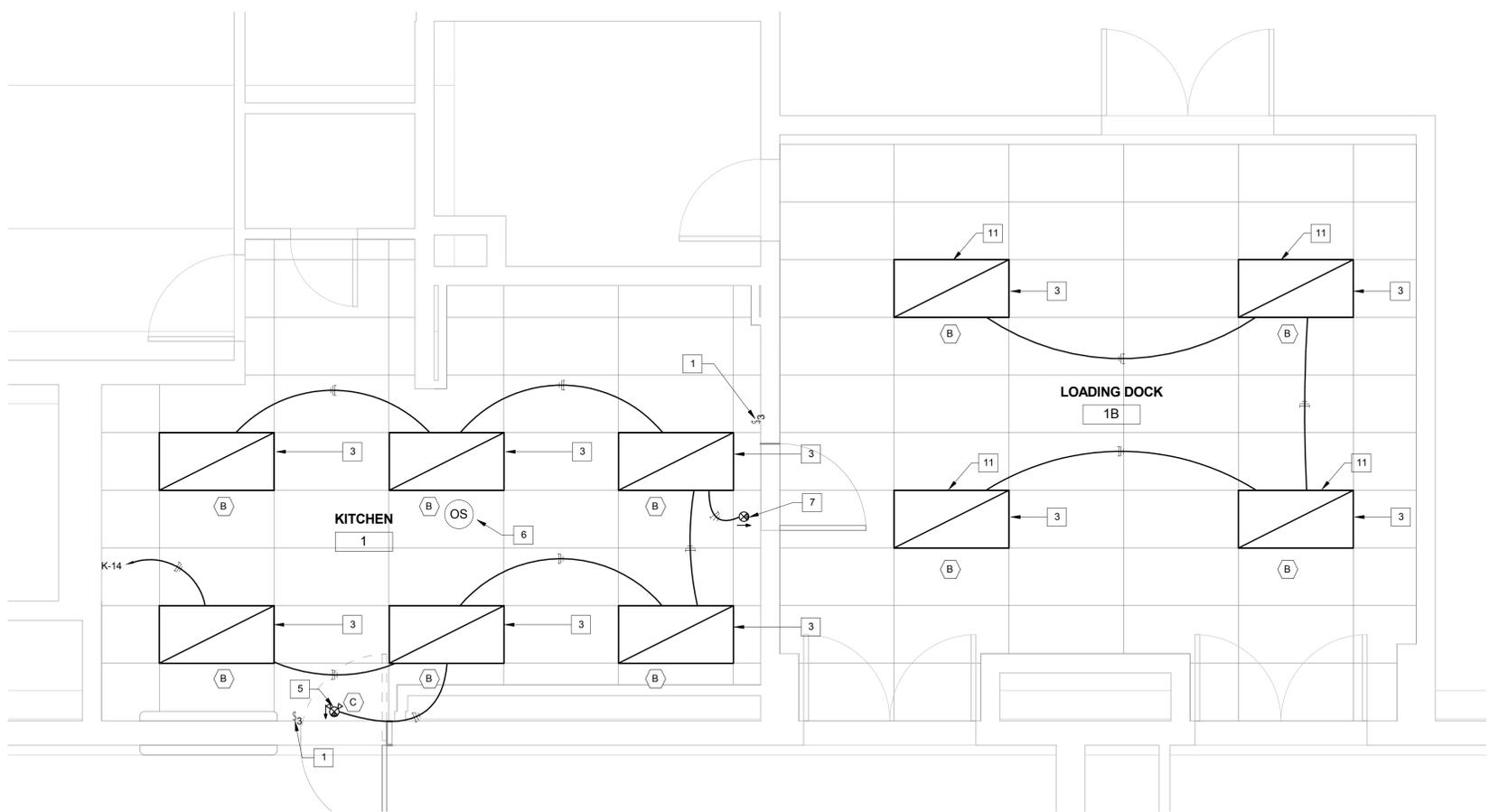
Sheet Number  
**EDP101**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



**1** APARTMENT ELECTRICAL REFLECTED CEILING PLAN - ENLARGED - PROPOSED  
EL101 3/8" = 1'-0"



**2** KITCHEN ELECTRICAL REFLECTED CEILING PLAN - ENLARGED - PROPOSED  
EL101 3/8" = 1'-0"

**NEW WORK KEY NOTES**

1. NEW 3 WAY LIGHT SWITCHES. TIE TO OCCUPANCY SENSOR.
2. NEW 2'x4' DIRECT/INDIRECT TROFFER LIGHT FIXTURE.
3. NEW LENSED 2'x4' LIGHT FIXTURE.
4. NEW SINGLE POLE LIGHT SWITCH. TIE TO OCCUPANCY SENSOR.
5. NEW EMERGENCY WALL PACK/SIGN COMBO LIGHT FIXTURE.
6. NEW CEILING MOUNTED OCCUPANCY SENSOR.
7. NEW CEILING MOUNTED LED EXIT SIGN.
8. NEW 2'x2' DIRECT/INDIRECT LIGHT FIXTURE.
9. NEW LIGHT SWITCH WITH DIMMER.
10. NEW SINGLE POLE LIGHT SWITCH WITH OCCUPANCY SENSOR.
11. TIE TO EXISTING LOADING DOCK LIGHT CIRCUIT.



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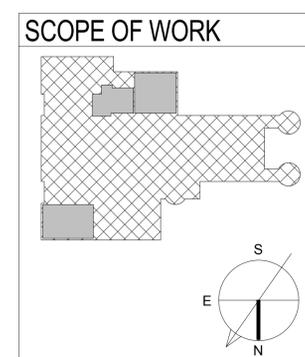
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No.	Description	Date



Revisions

Drawn: This  
**ELECTRICAL FIRST FLOOR ENLARGED REFLECTED CEILING PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1
	Drawn By JO
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	Sheet Number <b>EL101</b>

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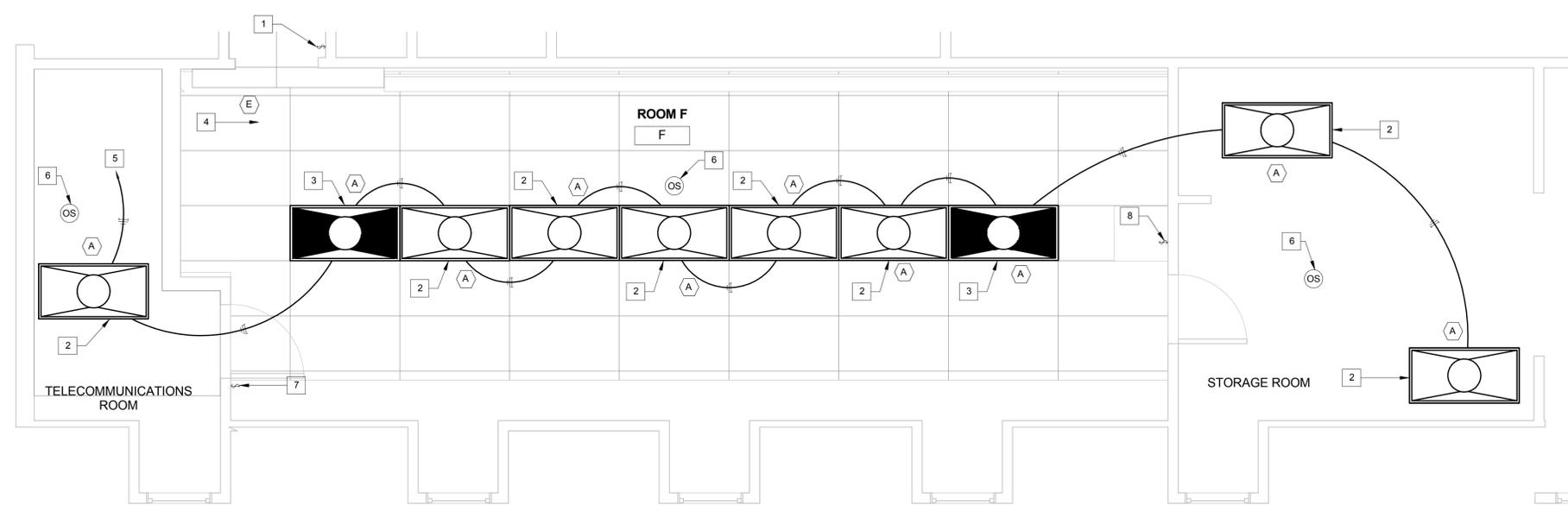


**GENERAL SHEET NOTES**

1. RETAIN ALL EXISTING WIRING FOR REUSE.

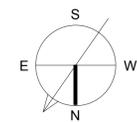
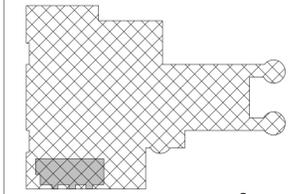
**NEW WORK KEY NOTES** #

- 1. NEW SINGLE POLE LIGHT SWITCH, TIE TO OCCUPANCY SENSOR.
- 2. NEW 2'x4' TROFFER LIGHT FIXTURE.
- 3. NEW 2'x4' TROFFER LIGHT FIXTURE WITH EMERGENCY BATTERY.
- 4. NEW EXIT SIGN LIGHT FIXTURE WITH EMERGENCY BATTERY.
- 5. REUSE EXISTING WIRING FOR CIRCUIT. WIRING SHOWN MAY NOT REFLECT ACTUAL WIRE CONFIGURATION.
- 6. NEW CEILING MOUNTED OCCUPANCY SENSOR.
- 7. NEW SINGLE POLE LIGHT SWITCH SERVING LIGHT IN THE TELECOMMUNICATIONS ROOM.
- 8. NEW SINGLE POLE LIGHT SWITCH SERVING LIGHT IN THE STORAGE ROOM.



**1** ELECTRICAL SECOND FLOOR ENLARGED REFLECTED CEILING PLAN - COMPUTER ROOM F  
 EL102 3/8" = 1'-0"

**SCOPE OF WORK**



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No.	Description	Date

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Drawing Title  
**ELECTRICAL SECOND FLOOR ENLARGED RCP - COMPUTER ROOM F**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1
Drawn By JO	Checked By AM
Sheet Number <b>EL102</b>	



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No.	Description	Date

Revisions

Drawing Title  
**ELECTRICAL LUMINARE  
SCHEDULE**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

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Checked By AM

Sheet Number  
**EL501**



**LUMINARIES SCHEDULE**

TYPE	FIXTURE TYPE	MOUNTING	MOUNTING HEIGHT (A.F.F.)	VOLTS	LAMP DATA						CATALOG NO.	NOTES
					NOMINAL WATTS	TOTAL WATTS	LAMPS	BULB TYPE	TYPE	MANUFACTURER		
A	2'x4' RECESSED TROFFER DIRECT/INDIRECT	CEILING RECESSED	8'-0"	120	28	56	2	T5	FLUOR	PHILIPS LIGHTING	2AVG228-PMW-120	FOR EMERGENCY FIXTURES, PROVIDE 90 MINUTE BATTERY BACKUP WITH EMERGENCY BALLAST.
B	2' x 4' LENSED ENCLOSED	CEILING RECESSED	8'-0"	120	28	56	2	T5	FLUOR	PHILIPS LIGHTING	2SPG228-FS01-120	
C	WALL MOUNTED COMBO EMERGENCY LIGHT	WALL MOUNT	7'-6"	120	2.8	2.8	2	LED	LED	PHILIPS LIGHTING	VCLANGW	
D	2'x2' RECESSED TROFFER DIRECT/INDIRECT	CEILING RECESSED	8'-0"	120	14	28	2	T5	FLUOR	PHILIPS LIGHTING	2SPG214R-FS-120	
E	CEILING EXIT LIGHT	CEILING MOUNT	8'-0"	120	4	4	1	LED	LED	PHILIPS LIGHTING	VEGWEM	
F	WALL MOUNTED FLOOD LIGHT	WALL MOUNT	20'-0"	120	52	52	32	LED	LED	PHILIPS LIGHTING	CSFS16L530NWG1SFSP120	
G	LED POLE LIGHT	FREE STANDING	15'	120	77	77	1	LED	LED	PHILIPS LIGHTING	ECF-1-5-75LA-4853-CW-UNV-BLP-PCB	
H	WALLPACK FIXTURE	WALL MOUNT	EXISTING	120	13.9	13.9	1	LED	LED	PHILIPS LIGHTING	TLW-10LED-4K-PCB-1	

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1/2' 1' 2' SCALE: 1" = 1'-0"

0 1/2' 1' 2' 3' SCALE: 3/4" = 1'-0"

0 1' 2' 3' 4' SCALE: 1/2" = 1'-0"

0 1' 2' 3' 4' 5' 6' 8' SCALE: 1/4" = 1'-0"

0 2' 4' 6' 8' 10' 12' SCALE: 3/16" = 1'-0"

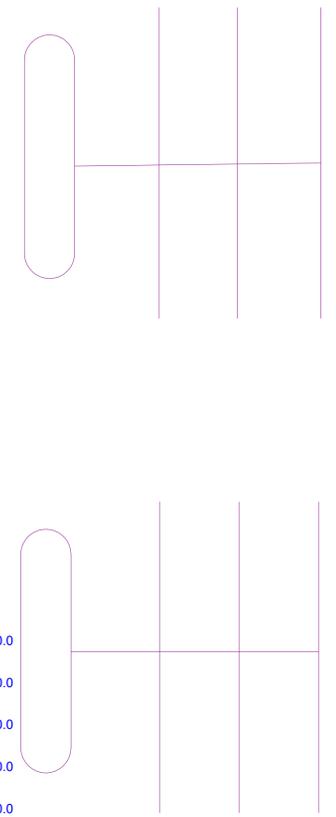
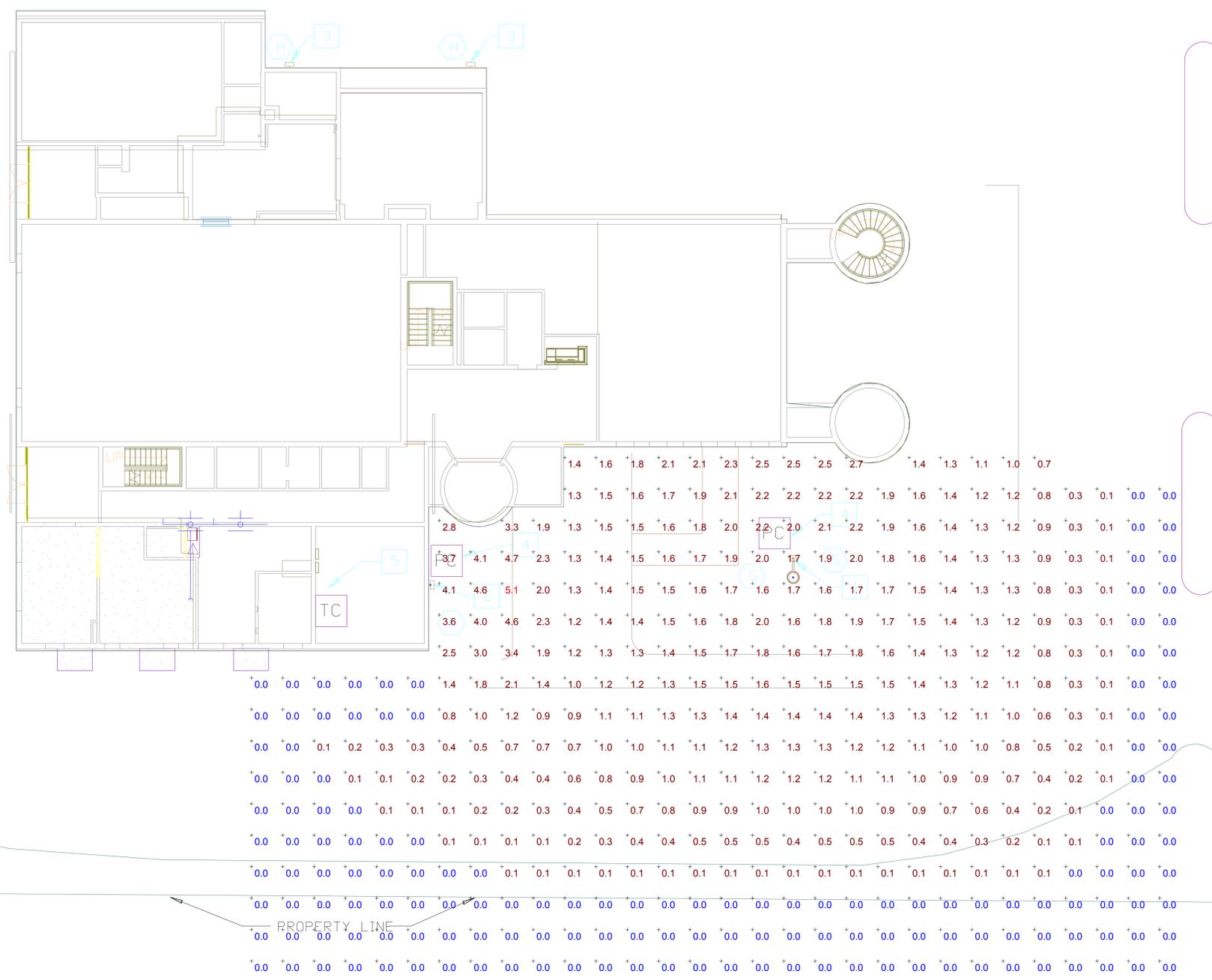
0 4' 8' 12' 16' 20' 24' 28' 32' SCALE: 1/8" = 1'-0"

0 8' 16' 24' 32' SCALE: 1/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Site Lighting Calc	+	0.8 fc	5.1 fc	0.0 fc	N/A	N/A



**1 ELECTRICAL LIGHTING CALCULATIONS - SITE**  
 EL601 1" = 10'-0"



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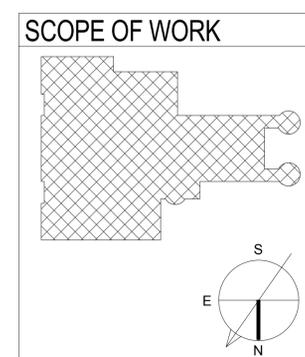
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Revisions

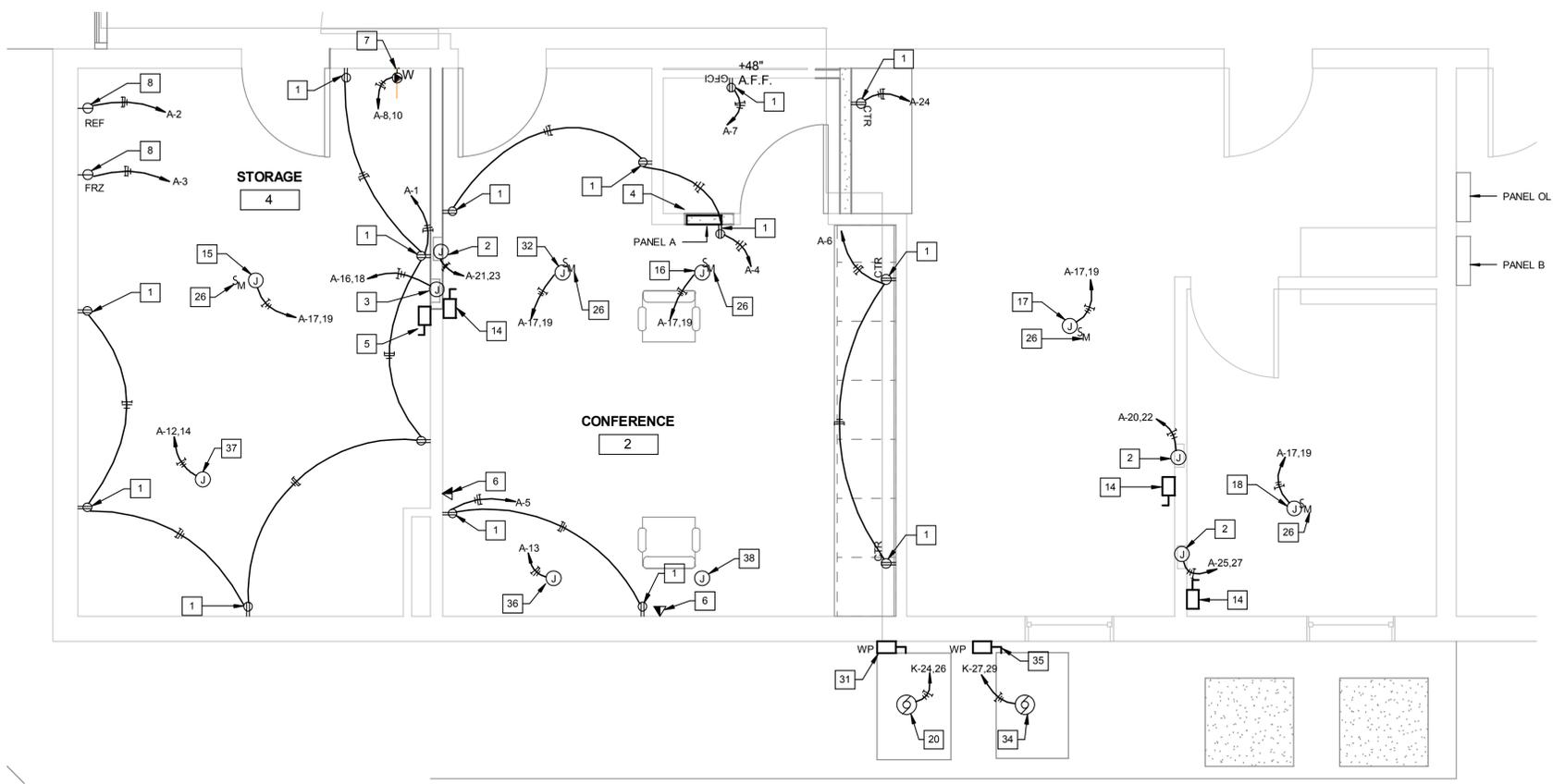
Drawing Title  
**ELECTRICAL LIGHTING CALCULATIONS - SITE**

Phase  
 CONCEPT  30%  60%  90%  100%

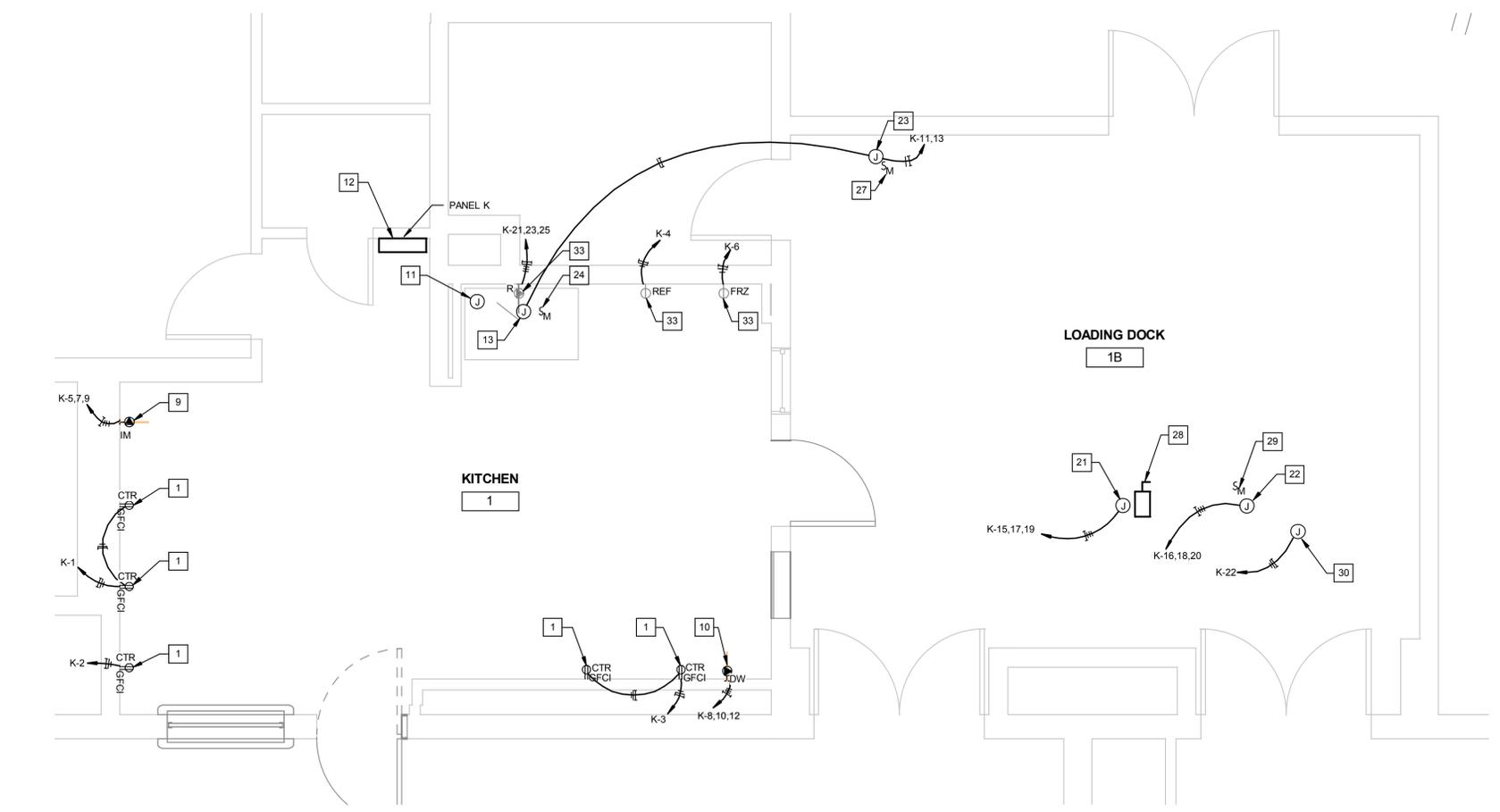
A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1
Drawn By JO	Checked By AM
Sheet Number <b>EL601</b>	

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

- 0 1' 2" = 1'-0" SCALE: 1 1/2" = 1'-0"
- 0 1' 2" = 1'-0" SCALE: 1" = 1'-0"
- 0 1' 2" = 1'-0" SCALE: 3/4" = 1'-0"
- 0 1' 2" = 1'-0" SCALE: 1/2" = 1'-0"
- 0 1' 2" = 1'-0" SCALE: 1/4" = 1'-0"
- 0 1' 2" = 1'-0" SCALE: 3/16" = 1'-0"
- 0 1' 2" = 1'-0" SCALE: 1/8" = 1'-0"
- 0 1' 2" = 1'-0" SCALE: 1/16" = 1'-0"



**1 APARTMENT ELECTRICAL PLAN - PROPOSED**  
EP101 3/8" = 1'-0"



**2 KITCHEN ELECTRICAL PLAN - PROPOSED**  
EP101 3/8" = 1'-0"

**NEW WORK KEY NOTES #**

1. NEW 125V WALL MOUNTED DUPLEX RECEPTACLES.
2. NEW 208V, 1ø, .75KW ELECTRIC HEATER CUH-2.
3. NEW 208V, 1ø, 1.5KW ELECTRIC HEATER CUH-1.
4. NEW 120/208V, 3ø, 150 MAINS 70A MCB LOAD CENTER PANELBOARD A.
5. NEW 240V, 1ø, 30A DISCONNECT SWITCH FOR ELECTRIC HEATER CUH-1 ABOVE CEILING.
6. NEW TELEPHONE AND DATA DUAL OUTLET.
7. NEW 220V RECEPTACLE FOR DRYER.
8. NEW SIMPLEX RECEPTACLE FOR REFRIGERATOR AND FREEZER, MTD 60" A.F.F.
9. NEW 220V RECEPTACLE FOR ICE MACHINE.
10. NEW 220V RECEPTACLE FOR DISH WASHER.
11. CONNECT FIRE SUPPRESSION SYSTEM TO FIRE ALARM PANEL.
12. NEW 120/208V, 3ø, 350A MCB PANELBOARD K.
13. NEW 1/2HP, 208V, 3ø, 60Hz EXHAUST FAN EF-1, OPERATION VIA HOOD CONTROLS. EXHAUST FAN IS TO BE LOCATED ON ROOF. PROVIDE INTERLOCK PER MECHANICAL SHEET M601.
14. NEW 240V, 1ø, 30A DISCONNECT SWITCH FOR ELECTRIC HEATER CUH-2 ABOVE CEILING. PROVIDE INTERLOCK PER MECHANICAL SHEET M601.
15. NEW 0.28FLA, 208V, 1ø, 60Hz SPLIT SYSTEM HVAC UNIT FCU-1.
16. NEW 0.23FLA, 208V, 1ø, 60Hz SPLIT SYSTEM HVAC UNIT FCU-2.
17. NEW 0.23FLA, 208V, 1ø, 60Hz SPLIT SYSTEM HVAC UNIT FCU-4.
18. NEW 0.23FLA, 208V, 1ø, 60Hz SPLIT SYSTEM HVAC UNIT FCU-5.
19. NOT USED.
20. NEW 30MCA, 208V, 1ø, 60Hz OUTDOOR CONDENSING UNIT CU-1.
21. NEW 20KW, 208V, 3ø, 60Hz ELECTRIC DUCT HEATER EDH-1.
22. NEW 1.5HP, 208V, 3ø, 60Hz SUPPLY FAN SF-1. PROVIDE INTERLOCK PER MECHANICAL SHEET M601.
23. NEW 1/6HP, 208V, 1ø, 60Hz EXHAUST FAN EF-2, OPERATION VIA DISHWASHER CONTROLS. PROVIDE INTERLOCK PER MECHANICAL SHEET M601.
24. NEW MOTOR SWITCH FOR EXHAUST FAN EF-1 TO BE PROVIDED WITH EQUIPMENT.
25. NOT USED.
26. NEW MOTOR RATED SWITCH FOR THE FAN COIL UNITS.
27. NEW MOTOR RATED SWITCH FOR DISHWASHER EXHAUST FAN EF-2.
28. NEW 240V, 3ø, 100A NON-FUSED DISCONNECT SWITCH FOR ELECTRIC DUCT HEATER EDH-1.
29. NEW MOTOR RATED SWITCH FOR SUPPLY FAN SF-1.
30. NEW MOTORIZED DAMPER
31. NEW 240V, 3ø, 60A FRAME, 40A FUSED DISCONNECT SWITCH FOR CONDENSING UNIT CU-1.
32. NEW 0.23FLA, 208V, 1ø, 60Hz SPLIT SYSTEM HVAC UNIT FCU-3.
33. CONNECT EXISTING RANGE, REFRIGERATOR, AND FREEZER RECEPTACLES TO NEW PANELBOARD K.
34. NEW 29MCA, 208V, 1ø, 60Hz OUTDOOR CONDENSING UNIT CU-2.
35. NEW 240V, 3ø, 60A FRAME, 40A FUSED DISCONNECT SWITCH FOR CONDENSING UNIT CU-2.
36. NEW 120V, 1ø, 60Hz, 0.7KW OPEN COIL DUCT HEATER. PROVIDE INTERLOCK PER MECHANICAL SHEET M601.
37. NEW 208V, 1ø, 60Hz, 1.35A ENERGY RECOVERY UNIT. PROVIDE INTERLOCK PER MECHANICAL SHEET M601.
38. NEW JUNCTION BOX WITH 3/4" CONDUIT TO PANEL "A" ABOVE CEILING FOR FUTURE TV PROJECTOR. PROVIDE PULL STRING IN CONDUIT.



**CASEY COMMUNITY CENTER INTERIOR RENOVATION**

810 S FREDERICK AVE,  
GAITHERSBURG, MD 20877

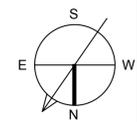
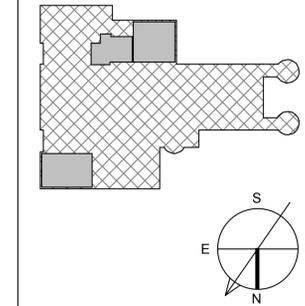


NIKA A+E  
451 HUNGERFORD DRIVE (P)301.770.3520  
4TH FLOOR (F)301.770.3521  
ROCKVILLE, MD 20850 www.nika-ae.com

**Professional Certification.**  
I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 45772, Expiration date 07.28.2016

No.	Description	Date

**SCOPE OF WORK**



Revisions

Drawing Title  
**ELECTRICAL FIRST FLOOR ENLARGED PLANS**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015

Date  
07-15-15

Drawing Scale: AS NOTED

CADD Filename  
Revit Model

CADD Plot Scale  
1:1

Drawn By  
JO

Checked By  
AM

Sheet Number  
**EP101**



**Gaithersburg**  
A CHARACTER COUNTS! CITY

### CASEY COMMUNITY CENTER INTERIOR RENOVATION

810 S FREDERICK AVE,  
GAITHERSBURG, MD 20877

**NIKA** ARCHITECTS  
+ ENGINEERS

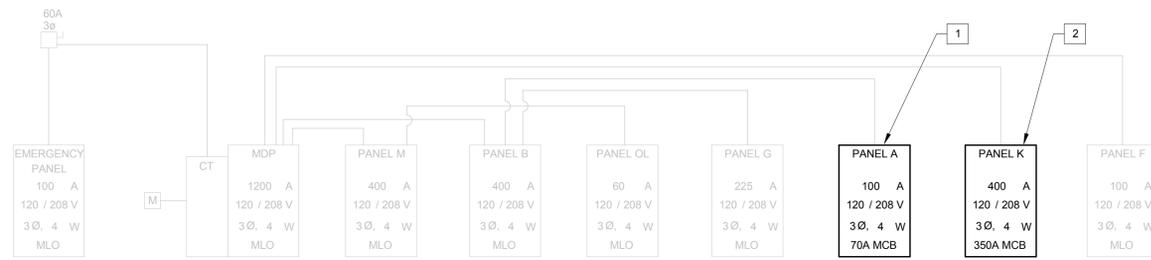
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ROCKVILLE, MD 20850 www.nika-ae.com

#### GENERAL SHEET NOTES

- CONNECT EXISTING 3#3AWG + #8G FEEDERS TO PANEL A.
- CONNECT EXISTING 2 SETS 4#3/0AWG + #3G FEEDERS TO PANEL K.

#### NEW WORK KEY NOTES #

- NEW 120/208V, 100A MAINS, 70A MCB, PANELBOARD A. CONNECT EXISTING #3AWG FEEDERS TO PANEL A. COORDINATE WALL DIMENSION WITH THE NEW PANEL PRIOR TO ORDERING.
- NEW 120/208V, 400A PANELBOARD K. CONNECT EXISTING 2 SETS OF #3/0 FEEDERS TO PANEL K. COORDINATE WALL DIMENSIONS WITH THE NEW PANEL PRIOR TO PURCHASING.



**1 ELECTRICAL RISER DIAGRAM**  
EP501 1/8" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 1' 2' 3' SCALE: 3/4" = 1'-0"

0 1' 2' 4' SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6' SCALE: 1/4" = 1'-0"

0 1' 2' 4' 6' 8' 12' SCALE: 3/16" = 1'-0"

0 1' 2' 4' 6' 8' 12' 16' SCALE: 1/8" = 1'-0"

0 1' 2' 4' 6' 8' 12' 16' 32' SCALE: 1/16" = 1'-0"

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I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 45772, Expiration date 07.28.2016

No.	Description	Date

Revisions

Drawing Title  
**ELECTRICAL RISER DIAGRAM**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015		Drawing Scale: AS NOTED	
Date 07-15-15	CADD Filename Revit Model	CADD Plot Scale 1:1	

Drawn By: JO  
Checked By: AM  
Sheet Number

**EP501**





# CASEY COMMUNITY CENTER INTERIOR RENOVATION

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**NIKA** ARCHITECTS  
+ ENGINEERS

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451 HUNGERFORD DRIVE (P)301.770.3520  
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No.	Description	Date

Revisions

## ELECTRICAL PANEL SCHEDULES

Phase  
 CONCEPT  30%  60%  100%

A/E Project Number: 12-0009.015  
Date: 07-15-15  
Drawing Scale: AS NOTED  
CADD Filename: Revit Model  
CADD Plot Scale: 1:1

Drawn By: JO  
Checked By: AM

Sheet Number: **EP601**



### Branch Panel: K

Location: KITCHEN  
Supply From: MDP  
Mounting: Recessed  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 10kA  
Mains Type: MLO  
Mains Rating: 150 A  
MCB: 70 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	RECEPTACLE - KITCHEN	20 A	1	1500 VA	1500 VA				20 A RECEPTACLE - KITCHEN	2	
3	RECEPTACLE - KITCHEN	20 A	1		1500 VA	656 VA			20 A REFRIGERATOR	4	
5	ICE MACHINE	20 A	3			1165 VA	1265 VA		20 A FREEZER	6	
7				1165 VA	5404 VA				50 A DISH WASHER	8	
9					1165 VA	5404 VA				10	
11	HOOD EF-1 & DISHWASHER EF-2	20 A	2			1014 VA	5404 VA			12	
13				1014 VA	964 VA				15 A Lighting - KITCHEN	14	
15	ELECTRIC Duct Heater - EDH-1	70 A	3		6667 VA	990 VA			20 A SUPPLY FAN - SF-1	16	
17					6667 VA	990 VA				18	
19				6667 VA	990 VA					20	
21	RANGE	70 A	3		8406 VA	500 VA			20 A MOTORIZED DAMPER	22	
23						8406 VA	3900 VA			24	
25				8406 VA	3900 VA					26	
27	OUTDOOR CONDENSING UNIT - CU-2	40 A	2			3770 VA				28	
29							3770 VA			30	
31										32	
33										34	
35										36	
37										38	
39										40	
41										42	
				<b>Total Load:</b>	31509 VA	29057 VA	32580 VA				
				<b>Total Amps:</b>	266 A	242 A	275 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	5100 VA	100.00%	5100 VA	
Motor	232 VA	100.00%	232 VA	
Largest Motor	58 VA	125.00%	73 VA	
				<b>Total Conn. Load:</b> 15995 VA
				<b>Total Est. Demand:</b> 16009 VA
				<b>Total Conn. Current:</b> 44 A
				<b>Total Est. Demand Current:</b> 44 A

Notes:

### WIRE SCHEDULE

BREAKER SIZE	WIRE SIZE	RATING	SETS	GROUND SIZE	RACEWAY SIZE	REMARKS
20	12AWG	25	1	12AWG	3/4" C	
30	10AWG	35	1	10AWG	3/4" C	
40	8AWG	50	1	10AWG	3/4" C	
50	8AWG	50	1	10AWG	1" C	
70	4AWG	85	1	8AWG	1" C	
100	3AWG	100	1	8AWG	1-1/2" C	

\*ALL WIRES SHALL BE THWN, 75C, COPPER

### Branch Panel: A

Location: Mechanical Room  
Supply From: Panel B  
Mounting: Recessed  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 10kA  
Mains Type: MCB  
Mains Rating: 150 A  
MCB: 70 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	RECEPTACLE - MULTIPURPOSE ROOM	15 A	1	1080 VA	656 VA				20 A REFRIGERATOR - MULTIPURPOSE ROOM	2	
3	REFRIGERATOR - MULTIPURPOSE ROOM	20 A	1		1265 VA	540 VA			15 A RECEPTACLE - CONFERENCE ROOM	4	
5	RECEPTACLE - CONFERENCE ROOM	15 A	1			540 VA	360 VA		15 A RECEPTACLE - CONFERENCE ROOM	6	
7	GFCI RECEPTACLE - BATHROOM	20 A	1	180 VA	2080 VA				30 A WASHING MACHINE	8	
9	LIGHTING - MULTIPURPOSE ROOM	15 A	1		160 VA	2080 VA				10	
11	LIGHTING - CONFERENCE ROOM	15 A	1			464 VA	325 VA		15 A ENERGY RECOVERY UNIT - ERU-1	12	
13	OPEN COIL DUCT HEATER - PH-1	20 A	1	700 VA	325 VA					14	
15						750 VA			2 15 A ELECTRIC HEATER - CUH-1	16	
17	FCU-1, 2, 3, 4, 5	20 A	2			145 VA	750 VA			18	
19				145 VA	375 VA				2 15 A ELECTRIC HEATER - CUH-2	20	
21	ELECTRIC HEATER - CUH-2	15 A	2		375 VA	375 VA				22	
23						375 VA	1200 VA		1 15 A MICROWAVE - RECEPTACLE	24	
25	ELECTRIC HEATER - CUH-2	15 A	2	375 VA						26	
27					375 VA					28	
29										30	
31										32	
33										34	
35										36	
37										38	
39										40	
41										42	
				<b>Total Load:</b>	5916 VA	5920 VA	4159 VA				
				<b>Total Amps:</b>	52 A	52 A	35 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	5100 VA	100.00%	5100 VA	
Motor	232 VA	100.00%	232 VA	
Largest Motor	58 VA	125.00%	73 VA	
				<b>Total Conn. Load:</b> 15995 VA
				<b>Total Est. Demand:</b> 16009 VA
				<b>Total Conn. Current:</b> 44 A
				<b>Total Est. Demand Current:</b> 44 A

Notes:

### Branch Panel: B

Location: ELETRIC ROOM  
Supply From: MDP  
Mounting: Surface  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 10kA  
Mains Type: MLO  
Mains Rating: 400 A  
MCB Rating:

Notes:  
2#3/0AWG

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Space			0 VA						2	
3	HVAC MECH ROOM 2	20 A	3		360 VA					4	
5						360 VA				6	
7				360 VA						8	
9	STAIRWELL STORAGE HEATER	60 A	3		3600 VA	0 VA			Space	10	
11						3600 VA	2400 VA	3	20 A HVAC MECH ROOM 1	12	
13				3600 VA	2400 VA					14	
15	OUTSIDE UNIT HVAC	60 A	3		3600 VA	2400 VA				16	
17						3600 VA	1080 VA	1	20 A RECPT SNACK/ RECPT ROOM A	18	
19				3600 VA	1080 VA				20 A LOAD	20	
21	ELEVATOR ROOM FAN	20 A	1		500 VA	1200 VA			20 A LIGHTS LOBBY	22	
23	ELEVATOR ROOM LIGHTS	20 A	1			500 VA	1080 VA	1	20 A RECPT	24	
25	AUTO DOOR OPENERS	20 A	1	500 VA	1080 VA				20 A RECPT	26	
27	ELEVATOR CAB LIGHTS	20 A	1		500 VA	750 VA			20 A ELEVATOR ROOM HEATER	28	
29	AIR CURTAIN	50 A	3			3000 VA	750 VA			30	
31				3000 VA	667 VA				20 A OUTSIDE HVAC UNIT	32	
33					3000 VA	667 VA				34	
35	SCREEN PROJECTORS	20 A	1			500 VA	667 VA			36	
37	*PANEL A	70 A	3	6125 VA	2592 VA				100 A PANEL G	38	
39					6125 VA	2592 VA				40	
41					6125 VA	2592 VA				42	
43	PANEL D	200 A	3	12000...	5712 VA				175 A ELEVATOR	44	
45					12000 VA	5712 VA				46	
47						12000 VA	5712 VA			48	
49										50	
				<b>Total Load:</b>	42716 VA	43006 VA	43966 VA				
				<b>Total Amps:</b>	356 A	359 A	367 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Power	129687 VA	100.00%	129687 VA	
Motor	0 VA	0.00%	0 VA	
				<b>Total Conn. Load:</b> 129687 VA
				<b>Total Est. Demand:</b> 129687 VA
				<b>Total Conn. Current:</b> 360 A
				<b>Total Est. Demand Current:</b> 360 A

Notes:  
CIRCUIT DESCRIPTION WITH \* \* \* NEXT TO DESCRIPTION HAVE A REVISED LOAD

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1-1/2" = 1'-0"

2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1" = 1'-0"

3' 2' 1' 0 0.1/2' 1' 1'-0" SCALE: 3/4" = 1'-0"

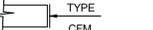
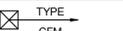
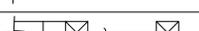
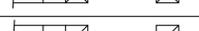
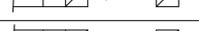
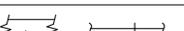
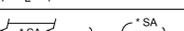
4' 2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1/2" = 1'-0"

4' 2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1/4" = 1'-0"

6' 4' 2' 1' 0 0.1/2' 1' 1'-0" SCALE: 3/16" = 1'-0"

8' 4' 2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1/8" = 1'-0"

16' 8' 4' 2' 1' 0 0.1/2' 1' 1'-0" SCALE: 1/16" = 1'-0"

MECHANICAL SYMBOLS AND ABBREVIATIONS		
ABBR.	SYMBOL	REMARKS
	 TYPE CFM	HORIZONTALLY MOUNTED EXHAUST/RETURN AIR REGISTER/GRILLE
	 TYPE CFM	VERTICALLY MOUNTED EXHAUST/RETURN AIR REGISTER/GRILLE
	 TYPE CFM	HORIZONTALLY MOUNTED SUPPLY AIR DIFFUSER/REGISTER/GRILLE
	 TYPE CFM	VERTICALLY MOUNTED SUPPLY AIR DIFFUSER/REGISTER/GRILLE
		RECTANGULAR DUCTWORK SUPPLY/OUTSIDE AIR ELBOW UP
		RECTANGULAR DUCTWORK SUPPLY/OUTSIDE AIR ELBOW DOWN
		RECTANGULAR DUCTWORK EXHAUST/RETURN/RELIEF AIR ELBOW UP
		RECTANGULAR DUCTWORK EXHAUST/RETURN/RELIEF AIR ELBOW DOWN
VD		VOLUME DAMPER
SA	 * SA	SUPPLY AIR ( * DUCT SIZE )
RA	 * RA	RETURN AIR ( * DUCT SIZE )
EA	 * EA	EXHAUST AIR ( * DUCT SIZE )
OA	 * OA	OUTSIDE AIR ( * DUCT SIZE )
		DEMOLITION
	24"Ø	ROUND DUCT SIZE
	24X12	RECTANGULAR DUCT SIZE, FIRST NUMBER INDICATES SIZE FOR SIDE SHOWN

MECHANICAL ABBREVIATIONS	
ABBR.	REMARKS
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CUH	CABINET UNIT HEATER
CU	CONDENSING UNIT
DIA	DIAMETER
DN	DOWN
FCU	FAN COIL UNIT
EA	EXHAUST AIR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ERU	ENERGY RECOVERY UNIT
(E)	EXISTING
F	DEGREE FAHRENHEIT
FLA	FULL LOAD AMPS
FN	FURNACE
HP	HORSEPOWER
HZ	HERTZ
IN	INCH
IU	INDOOR UNIT
KW	KILOWATT
LBS	POUNDS
MCA	MINIMUM CURRENT AMPACITY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NOISE CRITERION
OA	OUTSIDE AIR
PH	PHASE/ PENTHOUSE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RA	RETURN AIR
RAD	RETURN AIR DUCT
RPM	REVOLUTION PER MINUTE
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
SD	SUPPLY DIFFUSER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
TG	TRANSFER GRILLE
(TYP)	TYPICAL
V	VOLT
W	WIDTH

MECHANICAL SYMBOLS AND ABBREVIATIONS		
ABBR.	SYMBOL	REMARKS
		DISCONNECT FROM EXISTING
		CONNECTION TO EXISTING

## GENERAL NOTES

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL EXISTING COMPONENTS. COORDINATE INSTALLATION OF NEW EQUIPMENT AND ACCESSORIES WITH EXISTING CONDITIONS. MINOR MODIFICATIONS TO EXISTING COMPONENTS, AT NO ADDITIONAL COST TO THE GOVERNMENT, MAY BE REQUIRED AS TO PROVIDE A COMPLETE AND CODE COMPLIANT SYSTEM.
- THE GENERAL CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL EXISTING TO REMAIN AND NEW EQUIPMENT, DUCTWORK, HVAC PIPING, PLUMBING PIPING, SPRINKLER PIPING, ELECTRICAL CONDUITS, CABLE TRAYS ETC WITH RESPECTIVE TRADES PRIOR TO DEVELOPING COORDINATION DRAWINGS AND SUBMITTING THEM FOR GOVERNMENT REVIEW AND APPROVAL. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BEGIN FABRICATION AND/OR INSTALLATION OF ANY EQUIPMENT/ DUCTWORK/ PIPING/ ELECTRICAL/ SPRINKLER/ CABLE TRAYS PRIOR TO RECEIVING APPROVED COORDINATION DRAWINGS FROM GOVERNMENT.
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
- PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO, AND WITHIN 50 FT. OF ISOLATED EQUIPMENT THROUGHOUT THE MECHANICAL ROOMS.
- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER DRAWINGS.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
- LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULT MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
- LOCATIONS AND SIZES OF ALL FLOOR, AND WALL OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC SHALL BE FIRE STOPPED/BLOCKED WITH AN APPROVED PRODUCT.
- PROVIDE LAMINATED SHEET IN BINDERS FOR EACH EQUIPMENT SYSTEM CONTROL DIAGRAM AND SEQUENCE OF OPERATION FOR USE BY FACILITY MAINTENANCE STAFF.
- MOUNT ALL OVERHEAD UTILITIES AND OTHER FIXTURES WEIGHING 31 POUNDS OR MORE (EXCLUDING DISTRIBUTED SYSTEMS SUCH AS PIPING NETWORKS THAT COLLECTIVELY EXCEED THAT WEIGHT) TO MINIMIZE THE LIKELIHOOD THAT THEY WILL FALL AND INJURE BUILDING OCCUPANTS. DESIGN ALL EQUIPMENT MOUNTINGS TO RESIST FORCES OF 0.5 TIMES THE EQUIPMENT WEIGHT IN ANY HORIZONTAL DIRECTION AND 1.5 TIMES THE EQUIPMENT WEIGHT IN THE DOWNWARD DIRECTION. THIS STANDARD DOES NOT PRECLUDE THE NEED TO DESIGN EQUIPMENT MOUNTINGS FOR FORCES REQUIRED BY OTHER CRITERIA SUCH AS SEISMIC STANDARDS.
- REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING AND EQUIPMENT INSTALLATION.
- LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING.
- REPLACE INSULATION ON ALL EXISTING TO REMAIN HVAC PIPING
- ADDITIONAL CONTROLS TO BE PROVIDED AS AN EXTENSION OF THE EXISTING CONTROLS SCHEME AND ARE TO BE INSTALLED BY CONTRACTOR PER MANUFACTURER'S RECOMMENDATION. DDC CONTROLS ARE TO BE CONNECTED TO THE CAMPUS CENTRAL WORK STATION AS SHOWN ON CONTROL DIAGRAMS.
- ANY WORK TO EQUIPMENT, ITS ACCESSORIES OR SUPPORTING COMPONENTS UNDER WARRANTY SHALL BE PROVIDED ONLY BY A CONTRACTOR OR VENDOR THAT WILL MAINTAIN THE VALIDITY OF THE WARRANTY.
- SIZES AND LOCATIONS OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, CONTROLS, SUPPORTS, ELECTRICAL AND APPURTENANCES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND START OF WORK. CONTRACTOR SHALL COORDINATE ALL RELATED EFFORTS WITH THE OWNER.
- PROVIDE DRAINS AT ALL LOW POINTS AND AIR VENTS AT ALL HIGH POINTS FOR HYDRONIC SYSTEMS.
- REPAIR/REAPPLY EXISTING INSULATION THAT BECOMES DAMAGED OR REMOVED DURING CONSTRUCTION.
- ALL DUCTWORK, AIR TERMINAL BOXES, DIFFUSERS, GRILLES, PIPING, VALVES, ETC OUTSIDE OF THE LIMIT OF WORK AREA REPRESENT EXISTING TO REMAIN ITEMS THAT ARE NOT PART OF THIS CONTRACT. ITEMS ARE INDICATED FOR REFERENCE ONLY UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COORDINATE PHASING OF UTILITIES TO MINIMIZE IMPACT ON SERVICES / FACILITIES TO REMAIN IN OPERATION DURING CONSTRUCTION.
- USE OF MERCURY THERMOMETERS IS PROHIBITED.
- ALL NEW DUCT AND HYDRONIC SYSTEMS SHALL BE LEAK TESTED.
- ALL EXISTING TO REMAIN HOT WATER S & R PIPING, STEAM & CONDENSATE PIPING, DRAIN PIPING SHALL BE PROVIDED WITH NEW INSULATION & ALL-SERVICE JACKET.



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4TH FLOOR (F)301.770.3521  
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No.	Description	Date

Revisions

Drawing Title

**MECHANICAL NOTES AND SYMBOLS**

Phase  
 CONCEPT  30%  60%  90%  100%

AE Project Number  
12-0009.015

Drawing Scale: AS NOTED

Date  
07-15-15

CADD Filename  
Revit Model

CADD Plot Scale  
1:1

Drawn By  
UP/FF

Checked By  
AK

Sheet Number  
**M001**





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No.	Description	Date

Revisions

Drawing Title  
**MECHANICAL FIRST FLOOR OVERALL PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

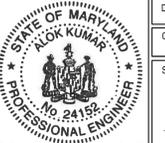
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12-0009.015 Drawing Scale: AS NOTED

Date  
07-15-15 CADD Filename  
Revit Model CADD Plot Scale  
1:1

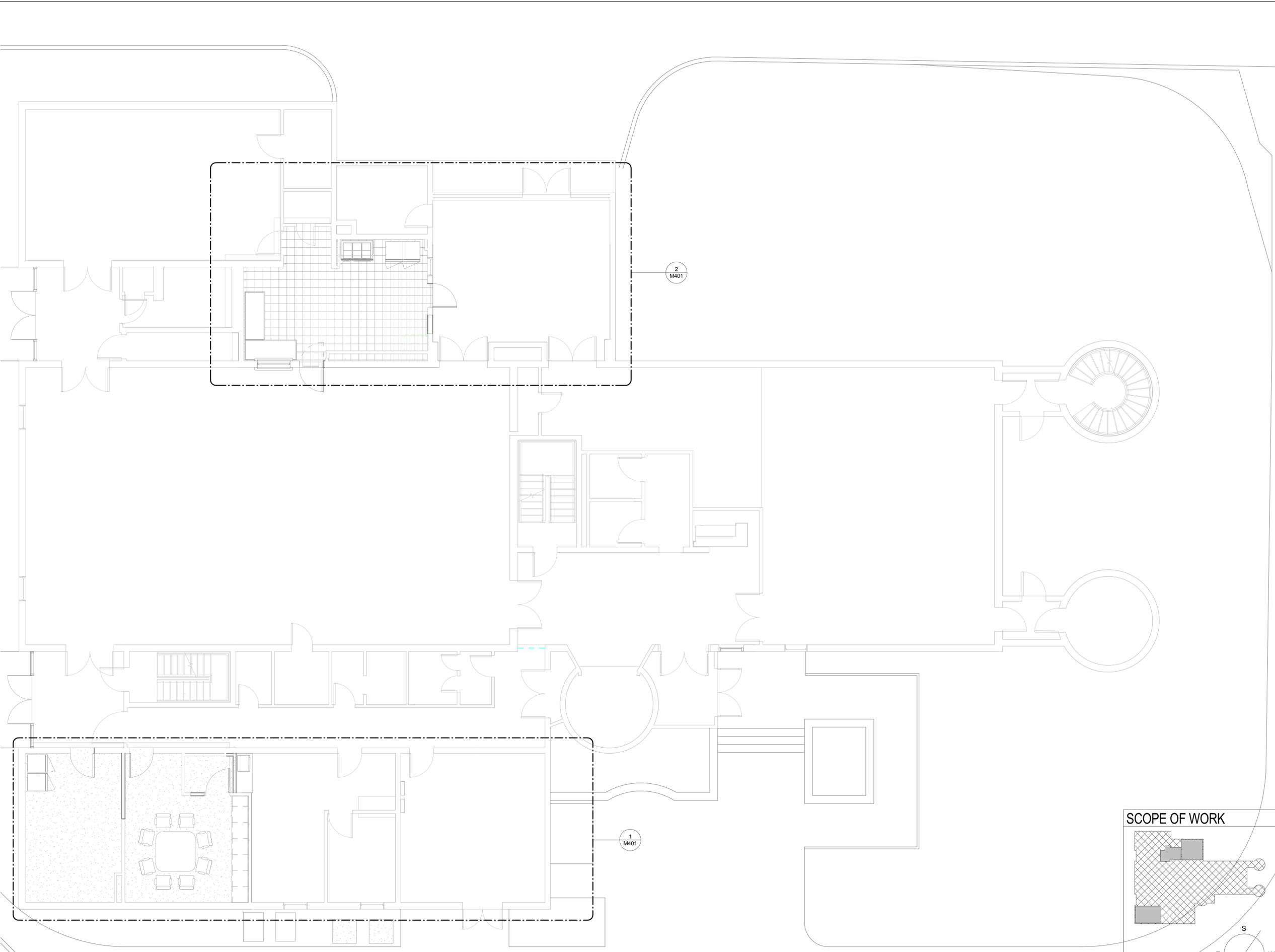
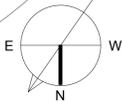
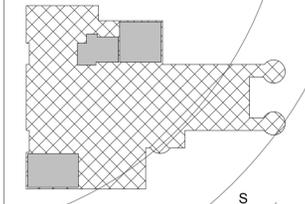
Drawn By  
FF

Checked By  
AK

Sheet Number  
**M100**



**SCOPE OF WORK**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 1' 2' 3' SCALE: 3/4" = 1'-0"

0 1' 2' SCALE: 1/2" = 1'-0"

0 1' 2' 4' SCALE: 1/4" = 1'-0"

0 2' 4' SCALE: 1/4" = 1'-0"

0 4' 8' SCALE: 3/16" = 1'-0"

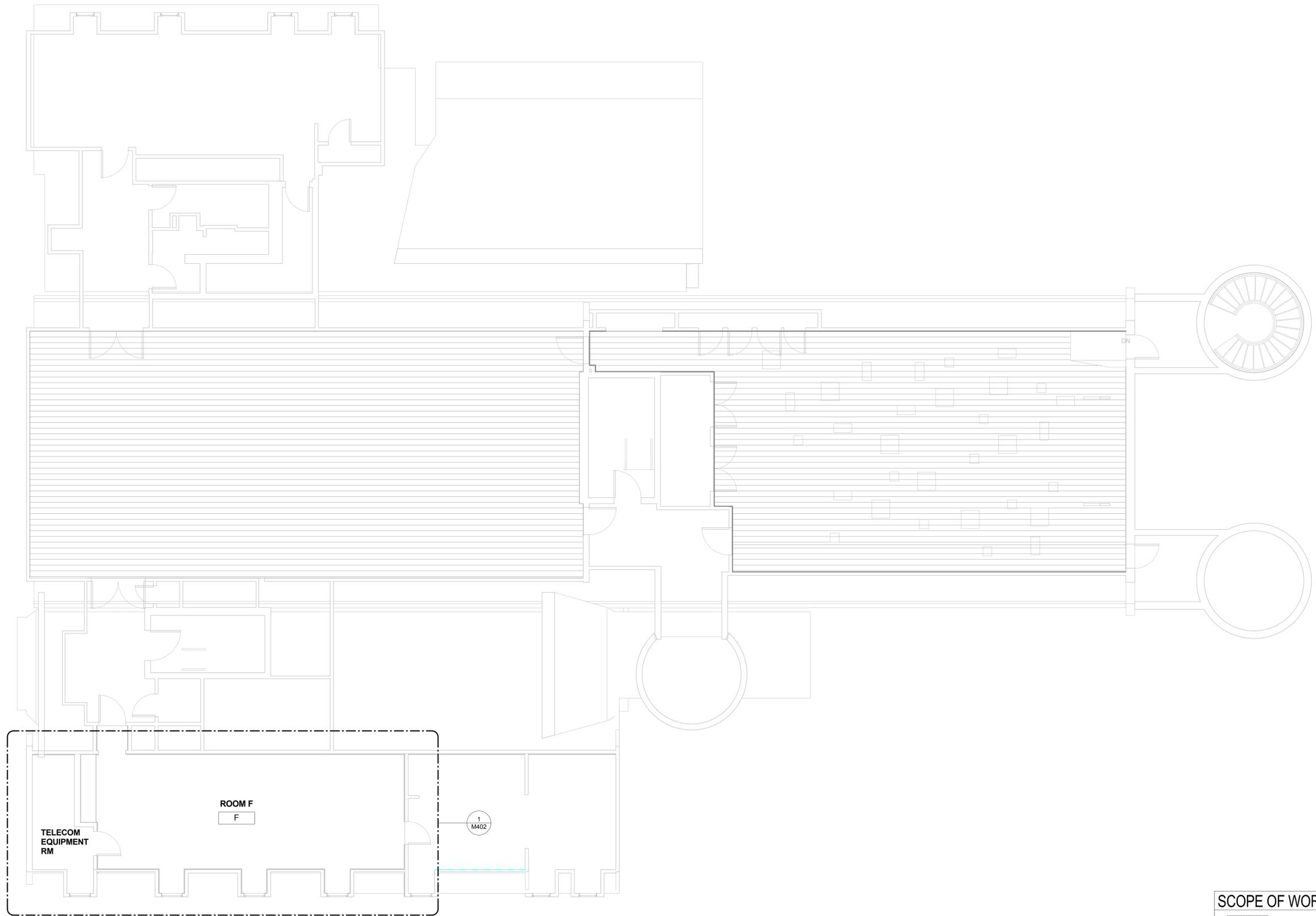
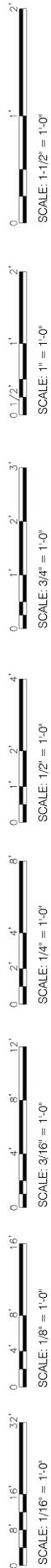
0 4' 8' SCALE: 1/8" = 1'-0"

0 8' 16' SCALE: 1/16" = 1'-0"

0 8' 16' SCALE: 3/16" = 1'-0"

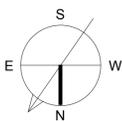
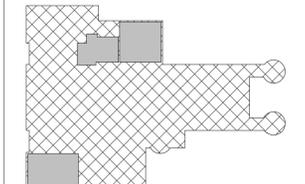
**M100** MECHANICAL FIRST FLOOR OVERALL PLAN  
3/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



**1** MECHANICAL SECOND FLOOR OVERALL PLAN  
M101 3/16" = 1'-0"

**SCOPE OF WORK**



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No.	Description	Date

Revisions  
Drawing Title  
**MECHANICAL SECOND FLOOR OVERALL PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

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Sheet Number  
**M101**



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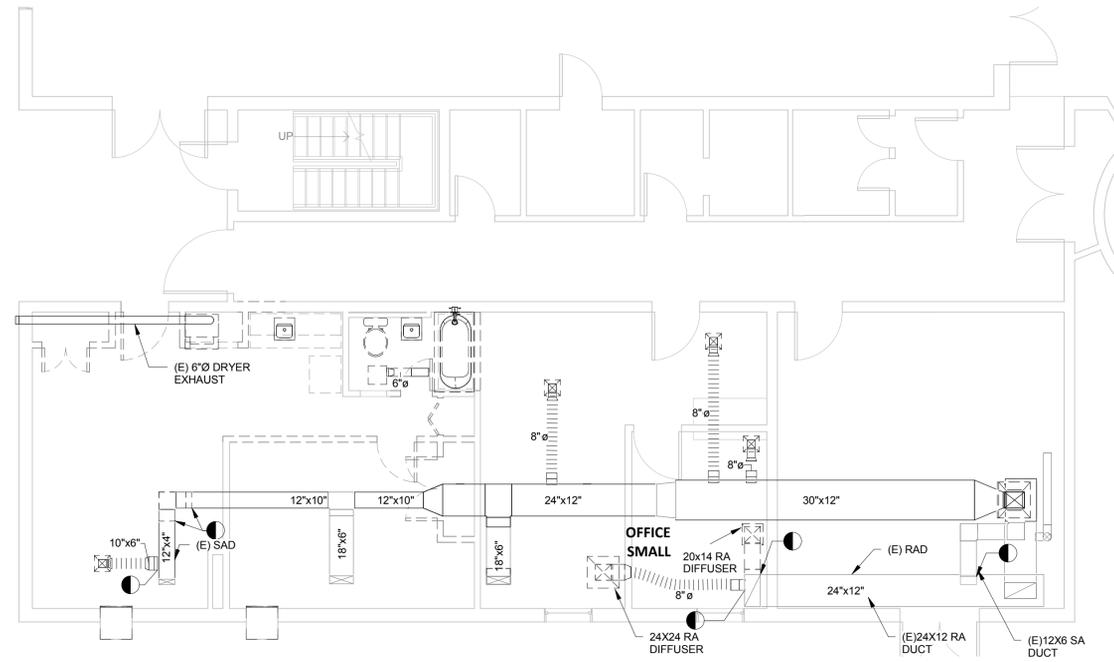
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### GENERAL NOTES

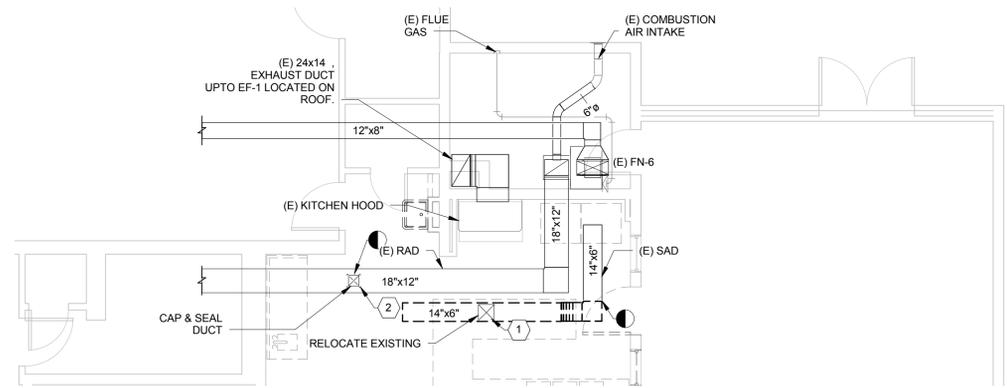
- FOR ABBREVIATIONS, SYMBOLS AND GENERAL NOTES REFER TO DRAWING M001.
- PROVIDE PRE-DEMOLITION TAB TO DETERMINE EXISTING SUPPLY AIR, RETURN, OUTSIDE AND AIR SETTINGS

### DEMOLITION KEY NOTES #

- REMOVE SUPPLY AIR DIFFUSER. PROVIDE PRE-CONSTRUCTION TAB MEASUREMENT FOR THE EXISTING SUPPLY DIFFUSER TO ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION.
- REMOVE EXISTING RETURN AIR GRILLE. REBALANCE THE RETURN GRILLE AS INDICATED ON THE NEW WORK DRAWING. PROVIDE PRE-CONSTRUCTION TAB MEASUREMENT FOR THE EXISTING RETURN DIFFUSER TO ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION.

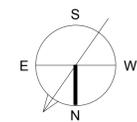
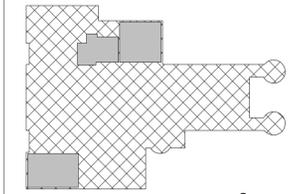


**1 MECHANICAL FIRST FLOOR APARTMENT- DEMOLITION**  
M400 3/16" = 1'-0"



**2 MECHANICAL FIRST FLOOR KITCHEN - DEMOLITION**  
M400 3/16" = 1'-0"

### SCOPE OF WORK



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No.	Description	Date

Revisions

MECHANICAL FIRST FLOOR  
ENLARGED PLANS -  
DEMOLITION

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

Drawn By UP/FF
Checked By AK

Sheet Number  
**M400**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

2' SCALE: 1-1/2" = 1'-0"

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

0.5' SCALE: 3/4" = 1'-0"

0.25' SCALE: 1/2" = 1'-0"

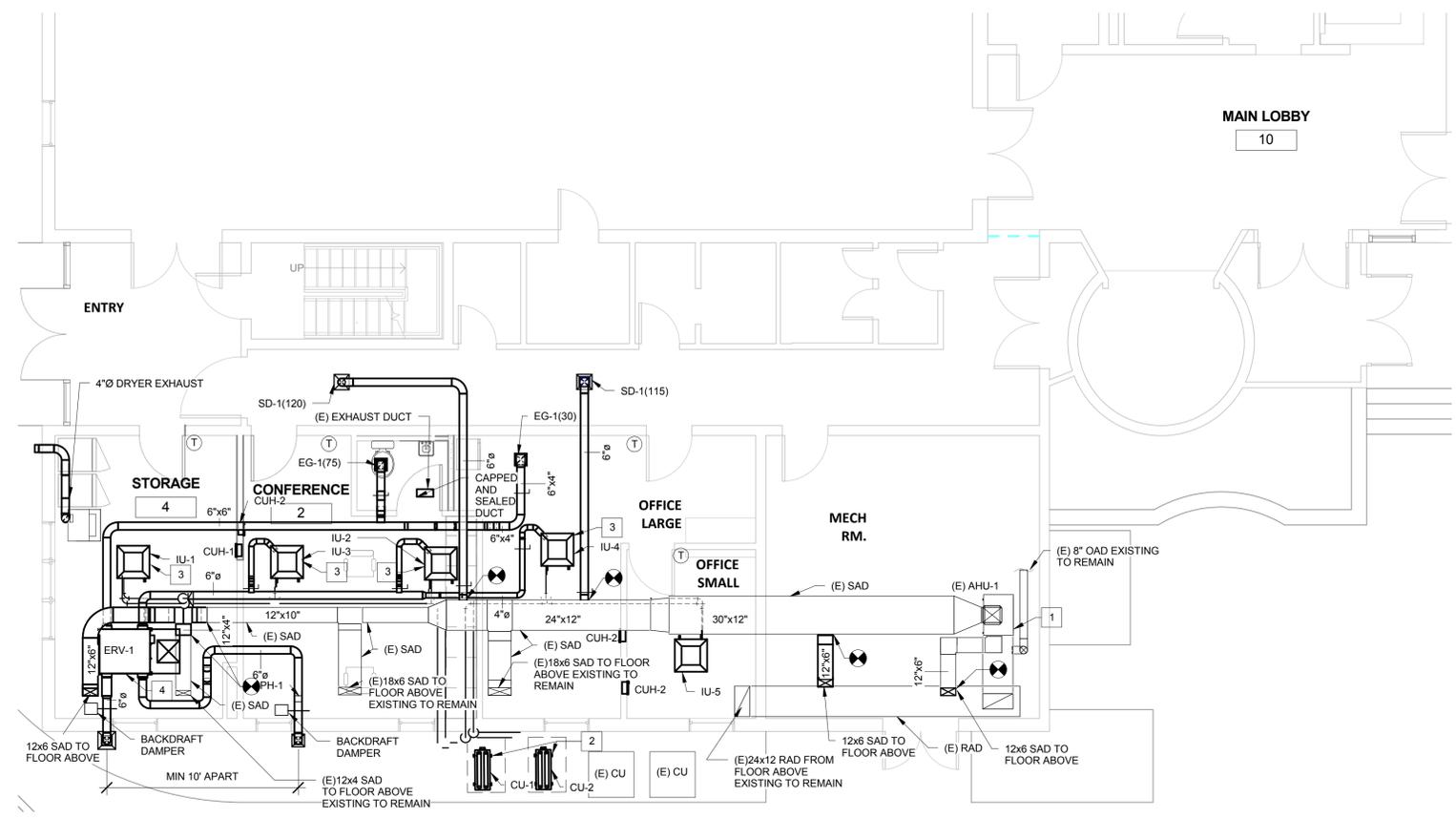
0.125' SCALE: 1/4" = 1'-0"

0.0625' SCALE: 3/16" = 1'-0"

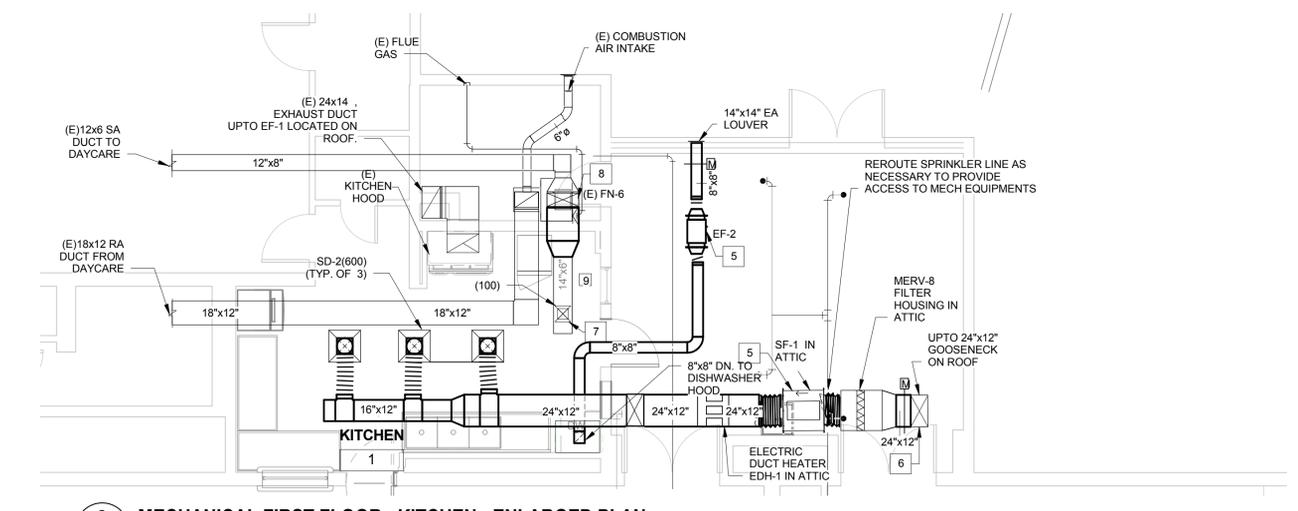
0.03125' SCALE: 1/8" = 1'-0"

0.015625' SCALE: 1/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



**1 MECHANICAL FIRST FLOOR - APARTMENT AND BATHROOM - ENLARGED PLAN**  
M401 3/16" = 1'-0"



**2 MECHANICAL FIRST FLOOR - KITCHEN - ENLARGED PLAN**  
M401 3/16" = 1'-0"

**GENERAL NOTES**

- FOR ABBREVIATIONS, SYMBOLS AND GENERAL NOTES REFER TO DRAWING M001.
- RELOCATE SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED TO ACCOMMODATE THE ERU-1. SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTWORK AND ASSOCIATED ACCESSORIES. THE RELOCATED SPRINKLER PIPING AND SPRINKLER HEADS TO COMPLY WITH NFPA 13. PROVIDE SPRINKLER HEADS TO MATCH EXISTING SPRINKLER HEADS.
- COORDINATE THE NEW EQUIPMENT, DUCTWORK, ACCESSORIES, ETC. WITH EXISTING STRUCTURE AND EXISTING EQUIPMENT, DUCTWORK, LIGHTS, PIPES, ETC..
- CONNECT THE EXISTING HOOD SYSTEM TO THE EXISTING FIRE SUPPRESSION SYSTEM.

**NEW WORK KEY NOTES #**

- EXISTING AHU-1 SUPPLY FAN TO BE BALANCED TO 1750 CFM BY ADJUSTING BELTS, SHEAVES, PULLEYS, ETC. AS REQUIRED. PROVIDE NEW BELTS, SHEAVES, PULLEYS, ETC. AS REQUIRED. BALANCE THE RETURN AND OUTDOOR AIR TO 1515 CFM AND 235 CFM RESPECTIVELY.
- PROVIDE PVC/RUBBER MOUNTING PAD FOR MOUNTING CONDENSING UNIT. REFER TO DETAIL ON DWG. 501 FOR MORE DETAILS.
- PROVIDE SUPPORTS FOR MOUNTING CASSETTE UNIT AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE SERVICE CLEARANCE AS REQUIRED.
- PROVIDE SUPPORTS FOR MOUNTING ERU-1 AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE SERVICE CLEARANCE AS REQUIRED.
- PROVIDE SUPPORTS FOR MOUNTING EXHAUST FAN AS PER MANUFACTURER'S RECOMMENDATION. PROVIDE SERVICE CLEARANCE AS REQUIRED.
- SEAL AND PATCH DUCT PENETRATION UP TO GOOSENECK. PROVIDE ROOF CURB FOR GOOSENECK TO MATCH EXISTING ROOF PITCH. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- REBALANCE EXISTING SUPPLY AIR DIFFUSER TO THE CFM INDICATED ON THE DRAWING.
- EXISTING FURNACE FN-6 TO BE REBALANCED TO THE ORIGINAL SUPPLY, RETURN AND OUTDOOR AIR. EQUALLY DISTRIBUTE THE CFM OF REMOVED KITCHEN RETURN GRILLE TO ALL RETURN GRILLES ASSOCIATED WITH EXISTING FURNACE FN-6.
- CONTRACTOR TO FIELD VERIFY THAT THE FIRE SUPPRESSION SYSTEM IS CONNECTED TO FIRE ALARM.



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No.	Description	Date

Revisions

Drawing Title  
**MECHANICAL FIRST FLOOR ENLARGED PLAN**

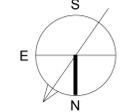
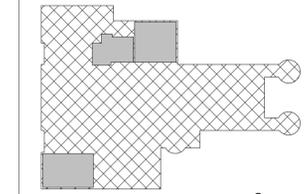
Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

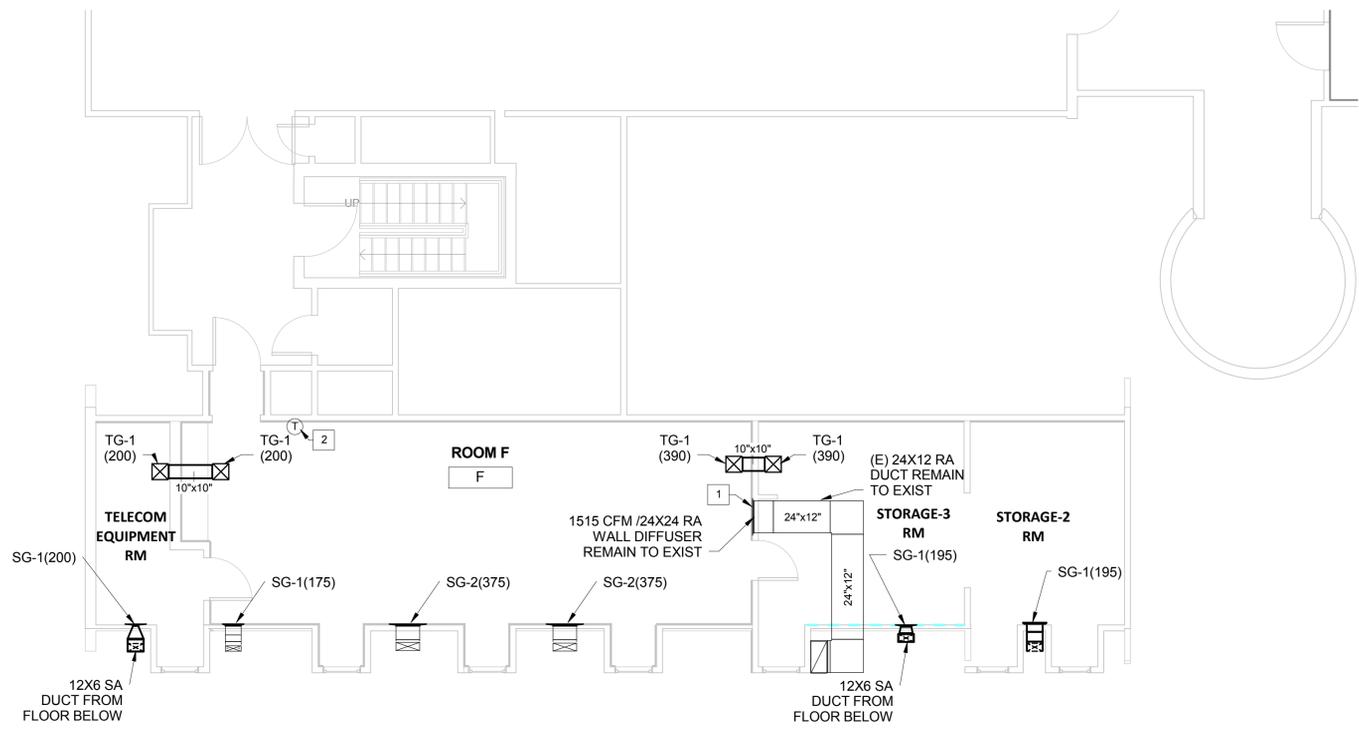
Drawn By UP/FF
Checked By AK
Sheet Number <b>M401</b>



**SCOPE OF WORK**



IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



**1 MECHANICAL SECOND FLOOR - GENERAL PURPOSE - ENLARGED PLAN**  
M402 3/16" = 1'-0"

**GENERAL NOTES**

1. FOR ABBREVIATIONS, SYMBOLS AND GENERAL NOTES REFER TO DRAWING M001.
2. COORDINATE THE NEW EQUIPMENT, DUCTWORK, ACCESSORIES, ETC. WITH EXISTING STRUCTURE AND EXISTING EQUIPMENT, DUCTWORK, LIGHTS, PIPES, ETC..

**NEW WORK KEY NOTES #**

1. REBALANCE WALL MOUNTED RETURN AIR GRILLE TO CFM INDICATED ON THE DRAWING.
2. RELOCATED THERMOSTAT WITH ALL ASSOCIATED WIRING AND CONTROLS.



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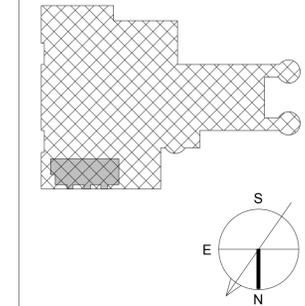


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No.	Description	Date

**SCOPE OF WORK**



Drawing Title  
**MECHANICAL SECOND FLOOR ENLARGED PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1

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Sheet Number  
**M402**





INDOOR DESIGN CONDITIONS		
SUMMER (°F)	WINTER (°F)	RELATIVE HUMIDITY (%)
75	70	30 - 65

OUTDOOR DESIGN CONDITIONS		
COOLING DB (°F)	COOLING WB (°F)	HEATING DB (°F)
94.3	75.1	16.3

DUCT HEATER SCHEDULE										
MARK	LOCATION	SYSTEM	TYPE	AIR FLOW (CFM)	VOLT	PH	HZ	HEATING CAPACITY (KW)	MANUFACTURER	MODEL
EDH-1	1ST FLOOR	ELECTRIC	FINNED TUBE DUCT HEATER	1800	208	3	60	20	MARLEY	1.2,3,5
PH-1	1ST FLOOR	ELECTRIC	OPEN COIL DUCT HEATER	105	120	1	60	0.7	MARLEY	1.2,4,6

**NOTES:**

1. PROVIDE SUPPORTS TO MOUNT THE ELECTRIC DUCT HEATER AS PER MANUFACTURER'S RECOMMENDATION.
2. BALANCE TO AIRFLOW INDICATED ON FLOORS PLANS.
3. PROVIDE SCR CONTROLLER. SET THE DUCT MOUNTED THERMOSTAT TO 60 F (ADJUSTABLE).
4. PROVIDE TWO STAGE HEATER WITH DUCT MOUNTED CONTROLLER.
5. INTERLOCK DUCT HEATER UH-1 WITH EXHAUST FAN SF-1.
6. INTERLOCK DUCT HEATER PH-1 WITH ERV-1. SET THE DUCT MOUNTED THERMOSTAT TO 20 F (ADJUSTABLE).
7. PROVIDE DUCT MOUNTED THERMOSTAT.

ENERGY RECOVERY VENTILATOR SCHEDULE																									
MARK	SERVICE	LOCATION	SIZE (IN)	SUPPLY VOLUME (CFM)	EXHAUST VOLUME (CFM)	OUTSIDE AIR				SUPPLY AIR				ROOM AIR				EFFICIENCY			SA/EA MOTOR DATA		ELECTRICAL V / PH / HZ	BASIS OF DESIGN	NOTES
						WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	TEMPERATURE RECOVERY	ENTHALPY COOLING	ENTHALPY HEATING	INPUT WATT	ESP							
ERV-1	CONFERENCE ROOM LARGE OFFICE	CEILING	35"LX40"WX13"H	105	105	14°F	10% RH	95°F	50% RH	58°F	40% RH	79°F	62% RH	70°F	40% RH	75°F	50% RH	81/79%	63/61%	79/77%	67/82	0.06/0.08	208/1/60	MITSUBISHI LOSSNAY	1,2,3,4,5,6,7

**NOTES:**

1. PROVIDE SUPPORTS AND INSTALL THE ENERGY RECOVERY UNIT ABOVE CEILING AS PER MANUFACTURER'S RECOMMENDATION.
2. INSTALL ENERGY RECOVERY UNIT IN THE CEILING WITH ACCESSIBLE SERVICE CLEARANCE AS PER MANUFACTURER'S RECOMMENDATION.
3. ERV-1 SHALL BE OPERATIONAL DURING USER DEFINED OCCUPIED HOURS.
4. ERV-1 SHALL BE CONTROLLED BY CONTACT CLOSURE FROM AN EXTERNAL TIMER.
5. PROVIDE BACKDRAFT DAMPER ON THE OUTDOOR AIR INTAKE AND EXHAUST AIR OUTLET.
6. ENERGY RECOVERY UNIT SUPPLY AND EXHAUST FANS SHALL BE BALANCED TO THE CFM INDICATED ABOVE IN THE SCHEDULE.
7. PROVIDE 1 YEAR MANUFACTURER'S PARTS, DEFECTS, & LABOR WARRANTY; FOR ENERGY TRANSFER CORE, PROVIDE 10 YEAR WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP.

CASSETTE SPLIT SYSTEM HEAT PUMP SCHEDULE (EVAPORATOR UNIT)																	
TAG	SPACE SERVED	TYPE	SUPPLY FAN					DX COOLING COIL							BASIS OF DESIGN: MANUFACTURER / MODEL	NOTES	
			AIR VOLUME (CFM)	OUTSIDE AIR (CFM)	SELECTED SPEED	FAN MOTOR			TOTAL COOLING CAPACITY (BTUH)	TOTAL HEATING CAPACITY (BTUH)	ENT. AIR		LVG. AIR				
						V / PH / HZ	MCA	FLA			DB (°F)	WB (°F)	DB (°F)	WB (°F)			
CU-1	IU-1	STORAGE - OFFICE	CEILING MOUNTED	350	30	MEDIUM	208 / 1 / 60	1.0	0.28	11,650	10,440	80	67	55	54	MITSUBISHI SLZ-KA12NA	1,2,3,4,5,6,7
	IU-2	CONFERENCE RM	CEILING MOUNTED	320	40	MEDIUM	208 / 1 / 60	1.0	0.23	8,822	8,365	80	67	55	54	MITSUBISHI SLZ-KA09NA	1,2,3,4,5,6,7
	IU-3	CONFERENCE RM	CEILING MOUNTED	320	35	MEDIUM	208 / 1 / 60	1.0	0.23	8,822	8,365	80	67	55	54	MITSUBISHI SLZ-KA09NA	1,2,3,4,5,6,7
CU-2	IU-4	LARGE OFFICE	CEILING MOUNTED	320	30	MEDIUM	208 / 1 / 60	1.0	0.23	8,822	8,365	80	67	55	54	MITSUBISHI SLZ-KA09NA	1,2,3,4,5,6,7
	IU-5	SMALL OFFICE	CEILING MOUNTED	320	15	MEDIUM	208 / 1 / 60	1.0	0.23	8,822	8,365	80	67	55	54	MITSUBISHI SLZ-KA09NA	1,2,3,4,5,6,7

**NOTES:**

1. REFRIGERANT R-410A.
2. EVAPORATOR UNIT FAN SHALL HAVE LOW, MEDIUM, AND HIGH SETTINGS WITH ON/OFF CAPABILITY.
3. PROVIDE UNIT DISCONNECT SWITCH.
4. PROVIDE CONDENSATE HIGH LEVEL SAFETY SWITCH TO TURN OFF THE CASSETTE UNIT.
5. PROVIDE UNIT WITH MERV 8 AIR FILTER.
6. PROVIDE 7 DAY PROGRAMMABLE WALL MOUNTED THERMOSTAT.
7. PROVIDE SUPPORTS WITH VIBRATION ISOLATORS AND INSTALL WITH SERVICE ACCESS THE CASSETTE UNITS ABOVE CEILING AS PER MANUFACTURER'S RECOMMENDATION.

WALL MOUNTED ELECTRIC HEATER SCHEDULE										
MARK	LOCATION	SYSTEM	TYPE	AIR FLOW (CFM)	VOLT	PH	HZ	HEATING CAPACITY (KW)	MANUFACTURER	MODEL
CUH-1	1ST FLOOR	ELECTRIC	RECESSED	65	208	1	60	1.5	MARLEY	1,2,3,4
CUH-2	1ST FLOOR	ELECTRIC	RECESSED	65	208	1	60	0.75	MARLEY	1,2,3,4

**NOTES:**

1. PROVIDE UNIT MOUNTED THERMOSTAT.
2. PROVIDE THERMAL OVERHEAT PROTECTION.
3. PROVIDE DISCONNECT SWITCH.
4. COLOR OF THE GRILLE TO BE APPROVED BY THE ARCHITECT.

AIR DEVICE SCHEDULE									
TAG	TYPE	SERVICE	AIRFLOW (CFM)	NECK SIZE (IN)	SIZE	MAX NC	AIRFLOW PATTERN	BASIS OF DESIGN	NOTES
SD-1	4 WAY DIFFUSER	SUPPLY	0-120	6Ø	12x12	30	4-WAY	TITUS TMS	1,2,3,4,5
SD-2	4 WAY DIFFUSER	SUPPLY	121-600	12Ø	24x24	30	4-WAY	TITUS PAS	1,2,3,4,5,6
SG-1	SUPPLY GRILLE	SUPPLY	0-200	8x6	10x8	30	SINGLE DEFLECTION	TITUS 301FS	1,2,3,4,5
SG-2	SUPPLY GRILLE	SUPPLY	201-400	10x10	12x12	30	SINGLE DEFLECTION	TITUS 301FS	1,2,3,4,5
TG-1	TRANSFER GRILLE	TRANSFER	0-390	10x10	12x12	30	-	TITUS PAR	1,2,3,4,5
EG-1	EXHAUST GRILLE	EXHAUST	0-100	6x4	12x12	30	-	TITUS PAR	1,2,3,4,5

**NOTES:**

1. PROVIDE FRAME AND / OR ACCESSORIES AS REQUIRED TO MATCH CEILING / WALL TYPE.
2. BALANCE TO AIRFLOW INDICATED ON FLOORS PLANS.
3. UNLESS OTHERWISE INDICATED ON THE FLOOR PLANS, DUCT RUNOUTS SHALL MATCH AIR DEVICE NECK.
4. PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED.
5. ALUMINUM CONSTRUCTION.
6. DIFFUSER TO BE IN CONFORMANCE TO NSF.

SPLIT SYSTEM HEAT PUMP SCHEDULE (CONDENSING UNIT)										
TAG	TOTAL COOLING CAPACITY RANGE (BTUH)	TOTAL HEATING CAPACITY RANGE (BTUH)	MIN SEER	UNIT ELECTRICAL DATA			COMPRESSOR	CONDENSER FAN MOTOR (FLA)	BASIS OF DESIGN: MANUFACTURER / MODEL	NOTES
				V/PH/HZ	MCA	MOCP				
CU-1	28,400	28,600	18	208/1/60	30	40	1	1.9	MITSUBISHI MXZ-3C30NAHZ	1,2,3,4,5,6
CU-2	18,000	22,000	17	208/1/60	29	40	1	1.9	MITSUBISHI MXZ-2C20NAHZ	1,2,3,4,5,6

**NOTES:**

1. REFRIGERANT R-410A.
2. PROVIDE UNIT DISCONNECT SWITCH.
3. PROVIDE REFRIGERANT LINE SETS BETWEEN OUTDOOR AND INDOOR UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. HEAT PUMP.
5. PROVIDE LOW AMBIENT KIT.
6. PROVIDE MOUNTING PAD AS PER MANUFACTURER'S RECOMMENDATION.

FAN SCHEDULE																
TAG	TYPE	SERVICE	LOCATION	AIRFLOW (CFM)	TOTAL SP (IN. WG.)	DRIVE	RPM	MOTOR					WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
								HP	RPM	VOLT	PH	HZ				
EF-1	UPBLAST	COOKING HOOD	ROOF	1800	0.7	BELT	1595	1/2	1725	208	1	60	65	GREENHECK	CUBE-131-5	2,3,6
EF-2	INLINE	DISHWASHER	1ST FLOOR	300	0.4	DIRECT	1468	1/6	1725	208	1	60	41	GREENHECK	SQ-85-VG	1,2,4
SF-1	INLINE	KITCHEN	1ST FLOOR	1800	1.9	BELT	2270	1 1/2	1725	208	3	60	95	GREENHECK	BSQ-120-15	1,2,5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**NOTES:**

1. PROVIDE SUPPORTS WITH VIBRATION ISOLATORS TO MOUNT THE FANS AS PER MANUFACTURER'S RECOMMENDATION.
2. PROVIDE UNIT DISCONNECT SWITCH.
3. EXHAUST FAN EF-1 TO BE INTERLOCKED WITH EXISTING KITCHEN HOOD. PROVIDE MANUAL ON-OFF HOOD SWITCH. PROVIDE ADEQUATE QUANTITY OF RELAYS TO ENERGIZE THE EXHAUST FAN EF-1 WHEN KITCHEN HOOD IS ON AND VICE VERSA.
4. EXHAUST FAN EF-2 TO BE INTERLOCKED WITH DISHWASHER HOOD. PROVIDE MANUAL ON-OFF HOOD SWITCH. PROVIDE ADEQUATE QUANTITY OF RELAYS TO ENERGIZE THE EXHAUST FAN EF-2 WHEN DISHWASHER HOOD IS ON AND VICE VERSA.
5. KITCHEN MAKE UP AIR FAN SF-1 TO BE INTERLOCKED WITH EXHAUST FAN EF-1. KITCHEN MAKE UP AIR FAN SF-1 SHALL ENERGIZE AFTER EXHAUST FAN EF-1 IS ENERGIZED.
6. EXHAUST FAN EF-1 TO BE INSTALLED ON EXISTING ROOF CURB. CONTRACTOR TO VERIFY THE SIZE AND OPERING OF THE EXISTING ROOF CURB BEFORE ORDERING THE EXHAUST FAN.



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No.	Description	Date

Revisions  
Drawing Title  
**MECHANICAL SCHEDULES**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number: 12-0009.015  
Date: 07-15-15  
Drawing Scale: AS NOTED  
CADD Filename: Revit Model  
CADD Plot Scale: 1:1

Drawn By: UP/FF  
Checked By: AK  
Sheet Number: **M601**



**PIPING SYMBOLS**

	NEW DOMESTIC COLD WATER (CW)
	NEW DOMESTIC HOT WATER (HW)
	NEW DOMESTIC HOT WATER RETURN (HWR)
	NEW SANITARY PIPE (SAN)
	NEW VENT PIPE (V)
	NEW NATURAL GAS PIPE
	PROPANE GAS PIPE
	FUEL OIL PIPE
	TRAP PRIMER PIPE
	NEW SHUT-OFF VALVE
	DEMOLITION WORK
	EXISTING DOMESTIC COLD WATER (CW)
	EXISTING DOMESTIC HOT WATER (HW)
	EXISTING DOMESTIC HOT WATER RETURN (HWR)
	EXISTING SANITARY PIPE (SAN)
	EXISTING VENT PIPE (V)
	EXISTING SHUT-OFF VALVE

**ABBREVIATIONS**

AP	ACCESS PANEL
ABV	ABOVE
AFF	ABOVE FINISH FLOOR
BEL	BELOW
BFPR	BACKFLOW PREVENTER
BV	BALANCING VALVE
CLG	CEILING
CO	CLEANOUT
(E)	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
DHWT	DOMESTIC HOT WATER TANK
HB	HOSE BIBB
OHB	OPEN HUB DRAIN
SP	SOIL PIPE
SS	SOIL STACK
TP	TRAP PRIMER
V	VENT
VP	VENT PIPE
VS	VENT STACK
VTR	VENT THRU ROOF
NG	NATURAL GAS PIPE
LP	LIQUID PROPANE PIPE

**GENERAL SYMBOLS**

	CONNECT NEW TO EXISTING
	POINT OF DISCONNECT
	ELBOW DOWN
	ELBOW UP
	TOP CONNECTION, 45° OR 90°
	SHUT OFF VALVE
	GAS SHUT OFF VALVE
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	RISE OR DROP IN PIPE
	UNION
	CHECK VALVE
	BALANCING VALVE
	HOSE BIBB
	WALL HYDRANT
	BACKFLOW PREVENTER
	TRAP PRIMER
	SHOCK ARRESTOR

**PLUMBING GENERAL NOTES:**

- CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY EXISTING MINOR INTERFERENCE'S, INCLUDING CONDUIT, HANGERS, ETC., AT NO ADDITIONAL COST.
- CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT AND MATERIALS PERTAINING TO HIS CONTRACT AS SPECIFIED OR AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY LOCAL CODES.
- CITY OF GAITHERSBURG WILL REIMBURSE ALL PERMITTING FEES TO THE CONTRACTOR.
- SUBMIT ASSEMBLED PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS.
- SUBMIT COORDINATED SHOP DRAWINGS FOR REVIEW. THE SHOP DRAWINGS SHALL INDICATE WORK OF OTHER TRADES AND MUST BE SUBMITTED PRIOR TO FABRICATION AND INSTALLATION.
- SUBMIT EQUIPMENT SPECIFICATIONS FOR REVIEW BEFORE PURCHASE.
- CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER COMPLETION AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.
- PROVIDE COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF THE INSTALLED EQUIPMENT.
- PROVIDE ACCESS PANELS FOR ALL VALVES OR ANY PIECE OF EQUIPMENT WHEN NECESSARY TO LOCATE ABOVE NON-ACCESSIBLE CEILINGS. SUBJECT TO THE APPROVAL OF THE ARCHITECT. NO EQUIPMENT SHALL BE LOCATED DIRECTLY ABOVE WALLS.
- PROVIDE ALL HOLES, SLEEVES AND CAULKING FOR INSTALLATION OF THIS WORK. CAULKING TO CONFORM TO FIRE RATING OF WALLS.
- PIPING SHALL BE ABOVE CEILING AND CLEAR ANY EXISTING PIPING, LIGHTING FIXTURES, DUCTS, ETC.
- RUN NEW WASTE PIPES AS CLOSE AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB AND VENT PIPING AS CLOSE AS POSSIBLE TO SLAB ABOVE.
- CONTRACTOR SHALL SUBMIT SKETCH TO THE STRUCTURAL ENGINEER FOR APPROVAL, PRIOR TO MAKING REQUIRED BEAM PENETRATIONS.
- DISRUPTION OF ANY EXISTING SERVICE SHALL BE COORDINATED WITH THE OWNER AND SHALL BE PERFORMED AT A TIME AND MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.
- FOR EXACT LOCATION OF PLUMBING FIXTURES, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS.
- SIZES AND ROUTING OF EXISTING PIPING ARE BASED ON AS-BUILT DRAWINGS PROVIDED BY CITY OF GAITHERSBURG. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND SHALL REPORT CONSISTENCY TO AE PRIOR TO START OF WORK.
- CONTRACTOR SHALL LOCATE NEW SANITARY (2% SLOPE) AND VENT PIPING TO GREASE INTERCEPTOR TO ENSURE THAT THE INVERT OF EXISTING PIPING (THAT NEED TO BE CONNECTED) ARE MAINTAINED.

**EXAMINATION OF EXISTING CONDITIONS:**

- PRIOR TO BID VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE PRESENT BUILDING AFFECTED BY THIS WORK SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK BEFORE SUBMITTING PROPOSALS.
- SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE DIFFICULTIES ENCOUNTERED, WHICH COULD, HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION HAD BEEN MADE, WILL NOT BE RECOGNIZED.

**CONNECTION TO EXISTING WORK:**

- PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES.
- SUBMIT TO THE OWNER FOR APPROVAL, DATE SCHEDULE OF NECESSARY TEMPORARY SHUT-DOWN OF EXISTING SERVICES. ALL SHUT-DOWNS SHALL BE MADE AT SUCH TIMES AS WILL NOT INTERFERE WITH REGULAR OPERATING OF EXISTING FACILITIES AND ONLY AFTER WRITTEN APPROVAL OF OWNER.
- TO INSURE CONTINUOUS OPERATION, MAKE NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK.
- CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED TO ORIGINAL CONDITION.



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GAITHERSBURG, MD 20877



NIKA A+E  
451 HUNGERFORD DRIVE (P)301.770.3520  
4TH FLOOR (F)301.770.3521  
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No.	Description	Date

**PLUMBING GENERAL NOTES, ABBREVIATIONS AND SYMBOLS**

Phase  CONCEPT  30%  60%  90%  100%

AE Project Number: 12-0009.015 Drawing Scale: AS NOTED

Date: 07-15-15 CADD Filename: Revit Model CADD Plot Scale: 1:1

Drawn By: RP Checked By: AK

Sheet Number: **P001**



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Revisions

Drawing Title

#### PLUMBING FIRST FLOOR OVERALL PLAN - DEMOLITION

Phase  
 CONCEPT  30%  60%  90%  100%

Project Number  
12-0009.015

Drawing Scale: AS NOTED

Title  
07-15-15

CADD Filename  
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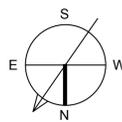
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Drawn By  
RP

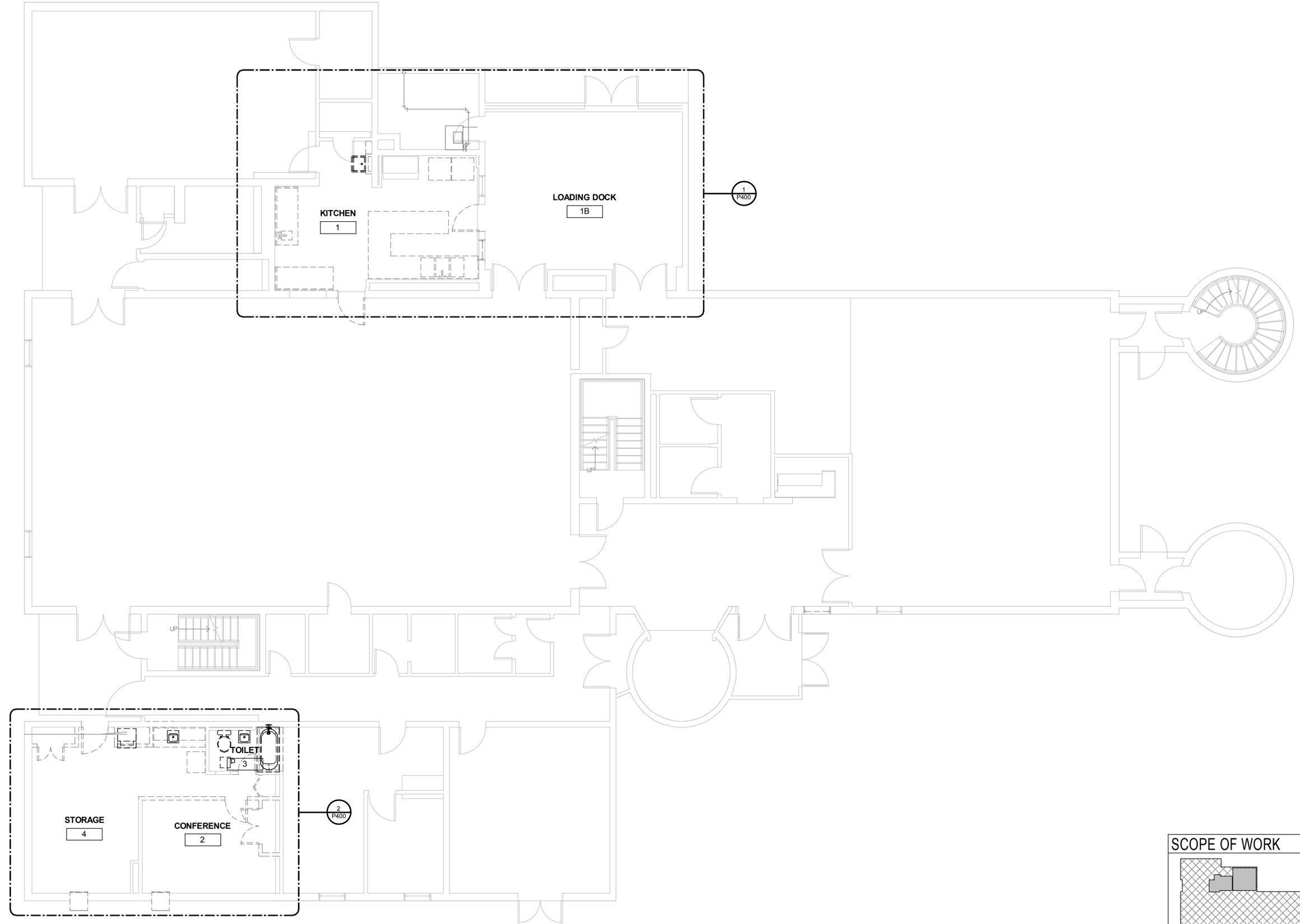
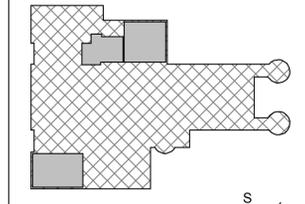
Checked By  
AK

Sheet Number

**P100**



#### SCOPE OF WORK



**1** FIRST FLOOR OVERALL PLAN-PLUMBING DEMOLITION  
P100 3/16" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED





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No.	Description	Date

Revisions

Drawing Title

**PLUMBING FIRST FLOOR  
OVERALL PLAN**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number  
12-0009.015

Drawing Scale: AS NOTED

Date  
07-15-15

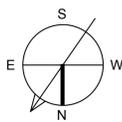
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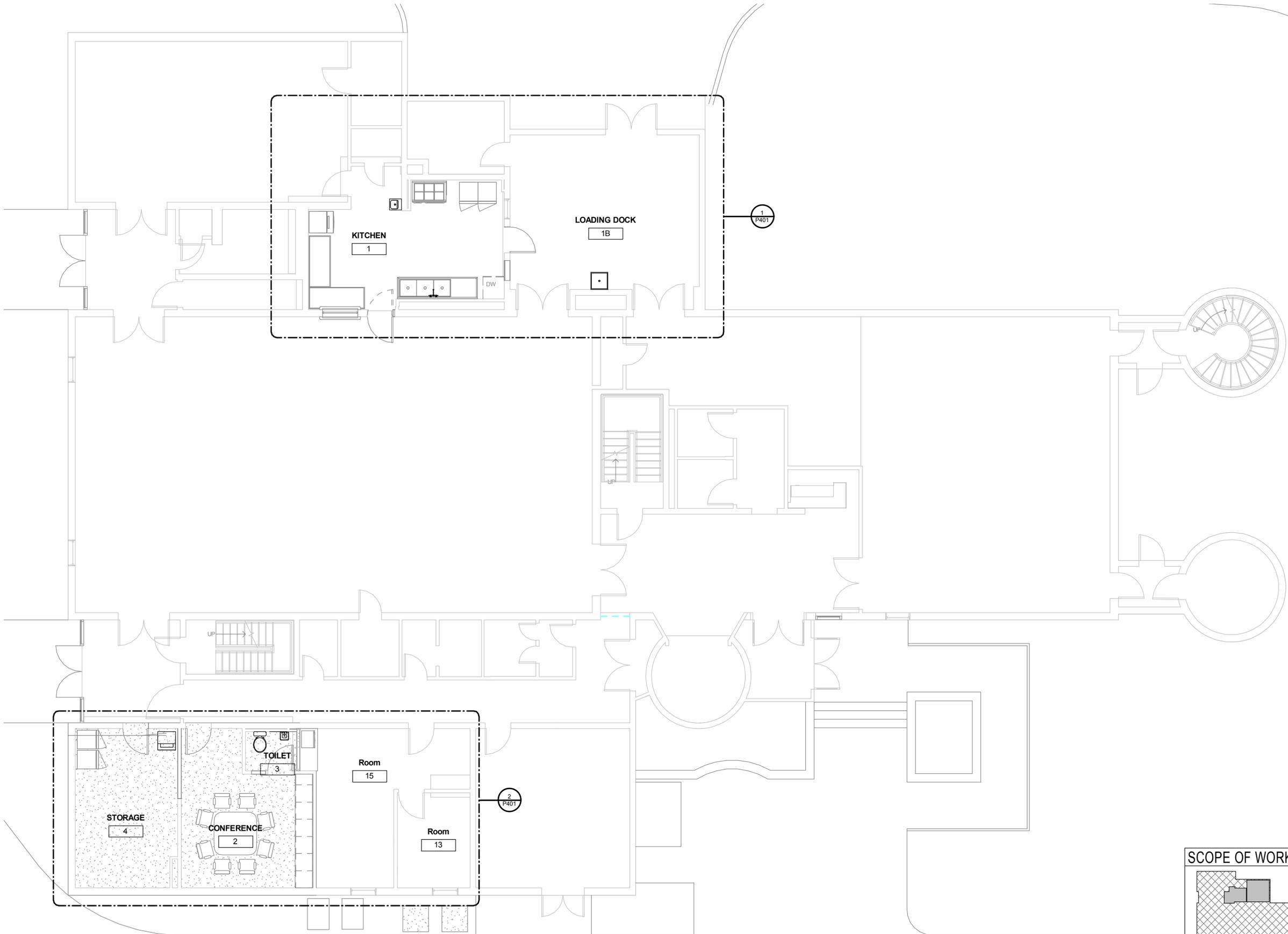
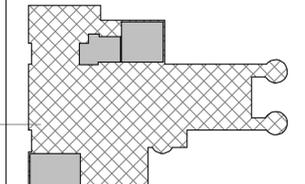
Drawn By  
RP

Checked By  
AK

Sheet Number  
**P101**



#### SCOPE OF WORK



**1 FIRST FLOOR OVERALL PLAN-PLUMBING**  
P101 3/16" = 1'-0"

- IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED
- 0 1' 2' SCALE: 1-1/2" = 1'-0"
- 0 1' 2' SCALE: 1" = 1'-0"
- 0 1' 2' 3' SCALE: 3/4" = 1'-0"
- 0 1' 2' 4' SCALE: 1/2" = 1'-0"
- 0 1' 2' 4' 6' 8' SCALE: 1/4" = 1'-0"
- 0 1' 2' 4' 6' 8' 12' SCALE: 3/16" = 1'-0"
- 0 1' 2' 4' 6' 8' 12' 16' SCALE: 1/8" = 1'-0"
- 0 1' 2' 4' 6' 8' 12' 16' 32' SCALE: 1/16" = 1'-0"



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No.	Description	Date

Revisions

Drawing Title  
**PLUMBING FIRST FLOOR ENLARGED PLANS - DEMOLITION**

Phase  
 CONCEPT  30%  60%  90%  100%

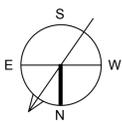
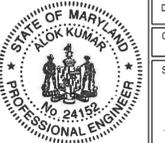
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Date  
07-15-15

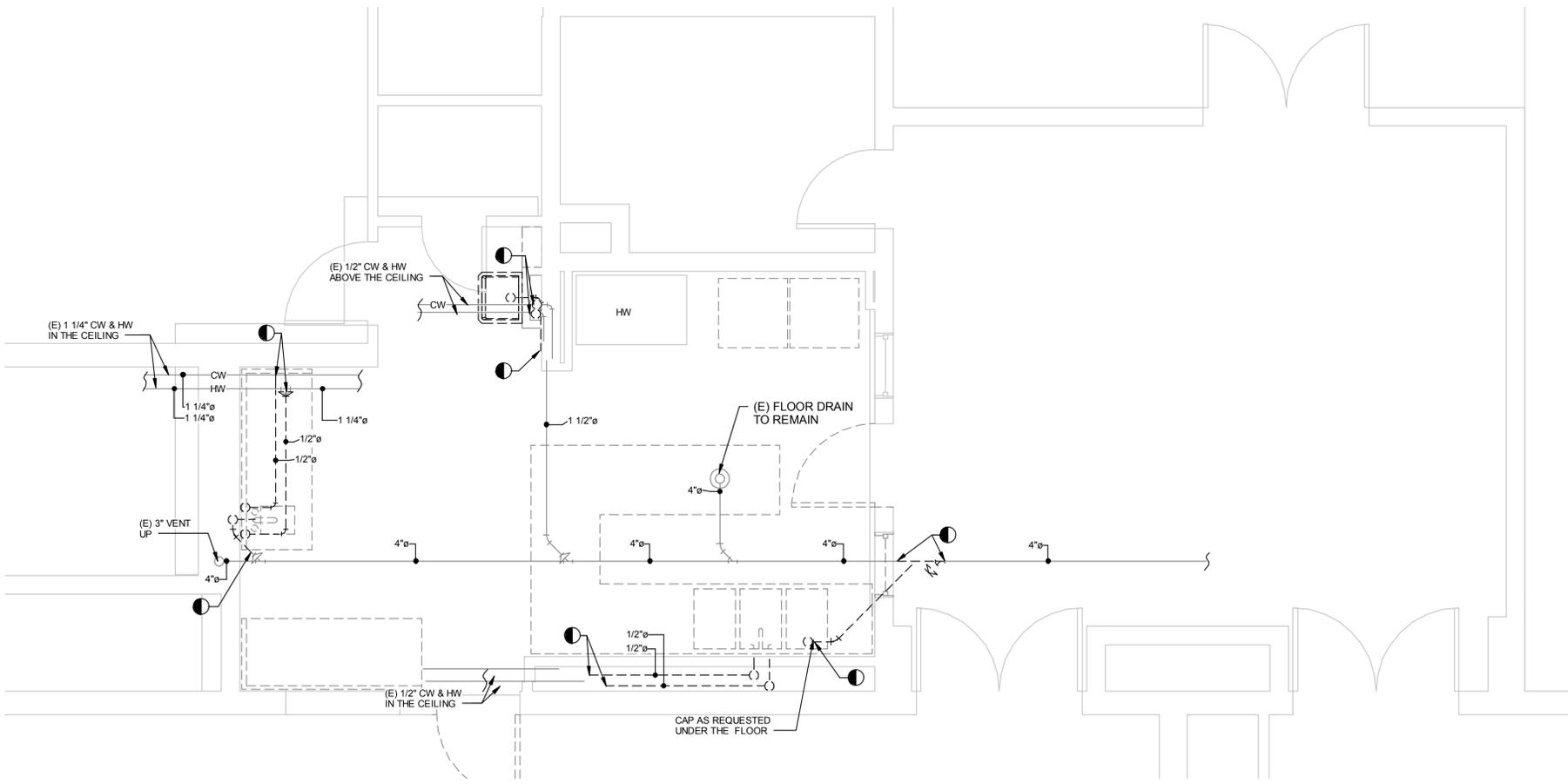
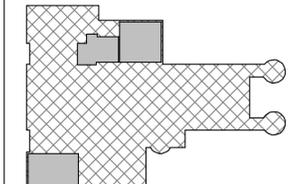
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Checked By: AK

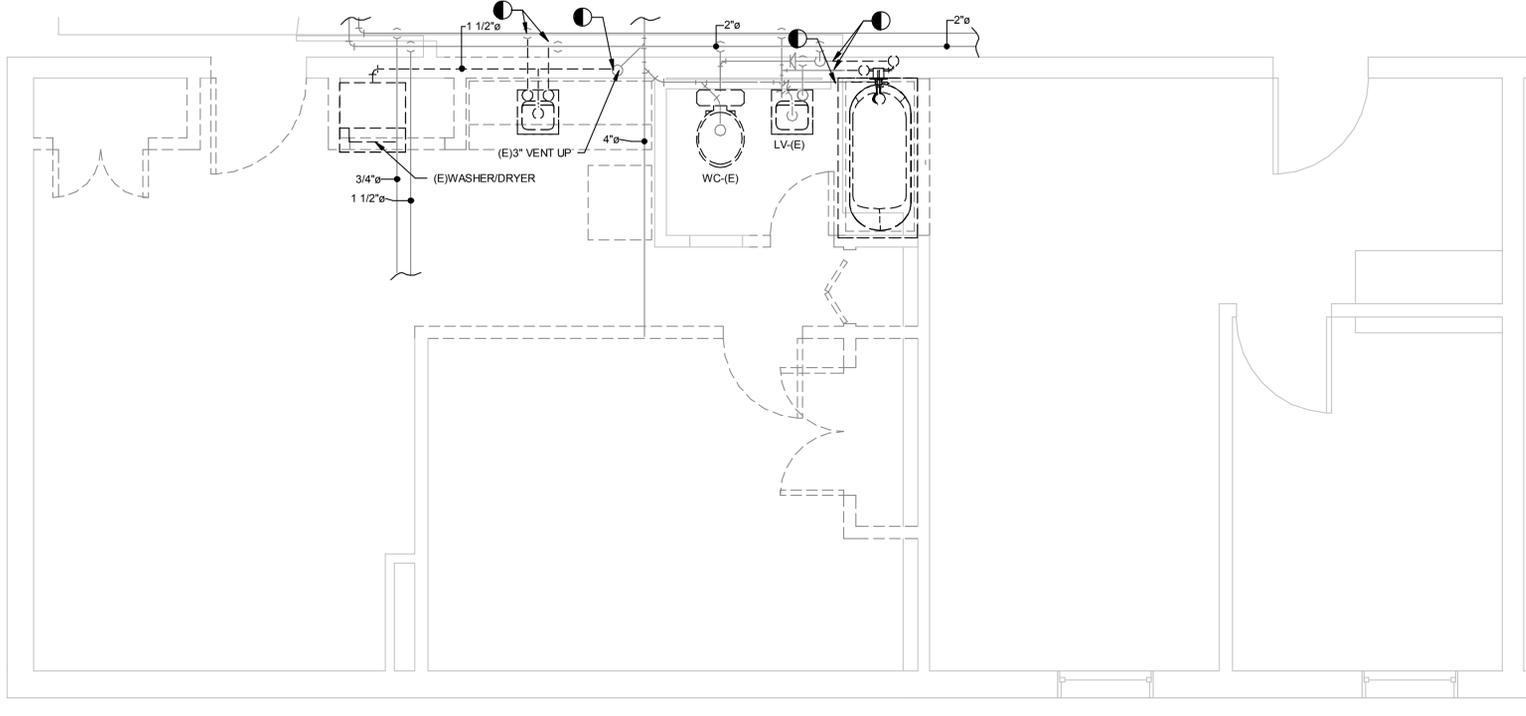
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**P400**



#### SCOPE OF WORK



**1 KITCHEN ENLARGED PLAN-PLUMBING DEMOLITION**  
P400 3/8" = 1'-0"



**2 APARTMENT AND BATHROOM ENLARGED PLAN-PLUMBING DEMOLITION**  
P400 3/8" = 1'-0"

IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED

0 1' 2' SCALE: 1-1/2" = 1'-0"

0 1' 2' SCALE: 1" = 1'-0"

0 1' 2' 3' SCALE: 3/4" = 1'-0"

0 1' 2' 4' SCALE: 1/2" = 1'-0"

0 1' 2' 4' 6' SCALE: 1/4" = 1'-0"

0 1' 2' 4' 6' 8' SCALE: 3/16" = 1'-0"

0 1' 2' 4' 6' 8' 12' SCALE: 1/8" = 1'-0"

0 1' 2' 4' 6' 8' 12' 16' SCALE: 1/16" = 1'-0"



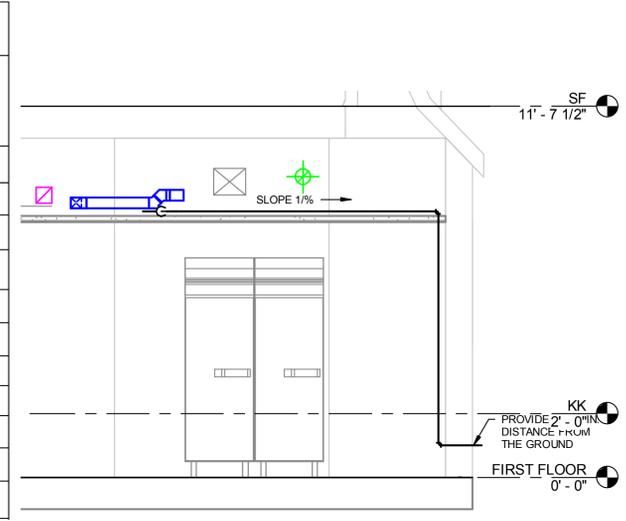
IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



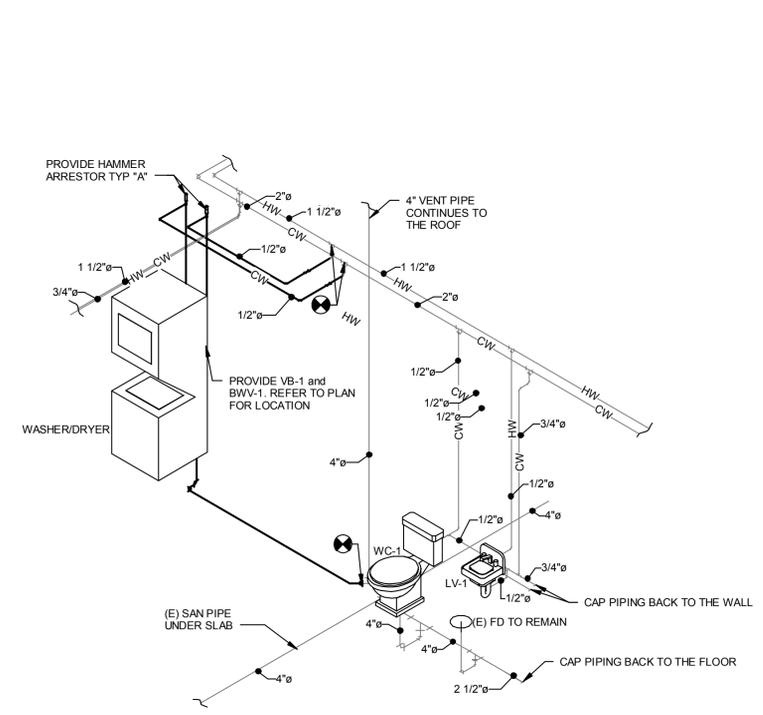
GREASE INTERCEPTOR CALCULATIONS					
KITCHEN SINK					
BOWL SIZE (INCH)			# OF BOWL	70% OF VOLUME (CU INCH)	VOLUME (GPM)
WIDTH	LENGTH	HEIGHT			
18	18	14	2	6,350	28
PLUMBING FIXTURE	QUANTITY	DRAINAGE FIXTURE UNITS (DFU) PER UPC TABLE 7-3		TOTAL	
MOP SINK	1	3		3 DFU	
3" FLOOR DRAIN	2	6		12 DFU	
COMMERCIAL SINK WITH GRINDER	1	3		3 DFU	
TOTAL GPM PER UPC TABLE 10-2				18 GPM	
BASED ON THE SPECIFIED DISHWASHER CAPACITY				3 GPM	
GREASE INTERCEPTOR CAPACITY PER IPC TABLE 1003.3.4.1, GREASE RETENTION CAPACITY				49 GPM	
				100 LB	

PLUMBING FIXTURES SCHEDULE						
FIXTURE TAG	FIXTURE TYPE	SERVICE SIZE (INCHES)				REMARKS
		WASTE	VENT	CW	HW	
WC-1	WATER CLOSET	4	2	1	-	AMERICAN STANDARD FLOOR MOUNTED ADA COMPLIANT
LV-1	LAVATORY	1 1/2	1 1/2	1/2	1/2	AMERICAN STANDARD MALL MOUNTED
KS-1	KITCHEN SINK	2	1 1/2	1/2	1/2	SS WITH THREE BOWLS AND LEFT DRAINBOARD. AERO MODEL F3L SERIES WITH T&S BRASS WALL MOUNTED FAUCET MODEL # B-0230 OR EQUAL
SS-1	SERVICE SINK	2	1 1/2	1/2	1/2	LIGHT COMMERCIAL WALL MOUNTED WITH WALL MOUNTED AMERICAN STANDARD FAUCET PROVIDED WITH VACUUM BREAKER, HOSE THREADS, AND BUCKET HOOK SPOUT.
HS-1	HAND SINK	1 1/2	1 1/2	1/2	1/2	SMALL SIZE BOWL WITH FAUCET. ADVANCE TACO MODEL 7-PS-67 OR SMALLER
FS-1	FLOOR SINK	2	1 1/2	-	-	LIGHT COMMERCIAL MODEL # 2370 WITH DOME STRAINER, FULL GATE AND SEDIMENT BUCKET OR EQUAL
FD-1	FLOOR DRAIN	3	2	-	-	URN MODEL # 2742 WITH BALL FLOAT TYPE BACKWATER VALVE AND INTERNAL CLEANOUTS OR EQUAL
GI-1	GREASE INTERCEPTOR	3	2	-	-	JAY R SMITH 8200 SERIES WITH EXTENSION, PC/FG # 8250 OR EQUAL
VB-1	VALVE BOX	2	1 1/2	1/2	1/2	RECESSED INTO THE WALL, OATEY MODEL WITH TWO PORTS DESIGNED TO ACCOMMODATE ADDITIONAL DRAIN LINES. OR EQUAL
BWV-1	BACK WATER VALVE	2	-	-	-	CAST IRON BODY WITH PVC FLAPPER, MIA MODEL B 1000 OR EQUAL
DW-1	DISHWASHER	2	1 1/2	-	3/4	HIGH TEMPERATURE SINGLE RACK, CMA-180CB (CORNER LOCATION), ENERGY STAR QUALIFIED. WITH BOOSTER HEATER. ELECTRIC RATING: 3 PHASE, 208 VOLTS AND 45 AMPS OR EQUAL.

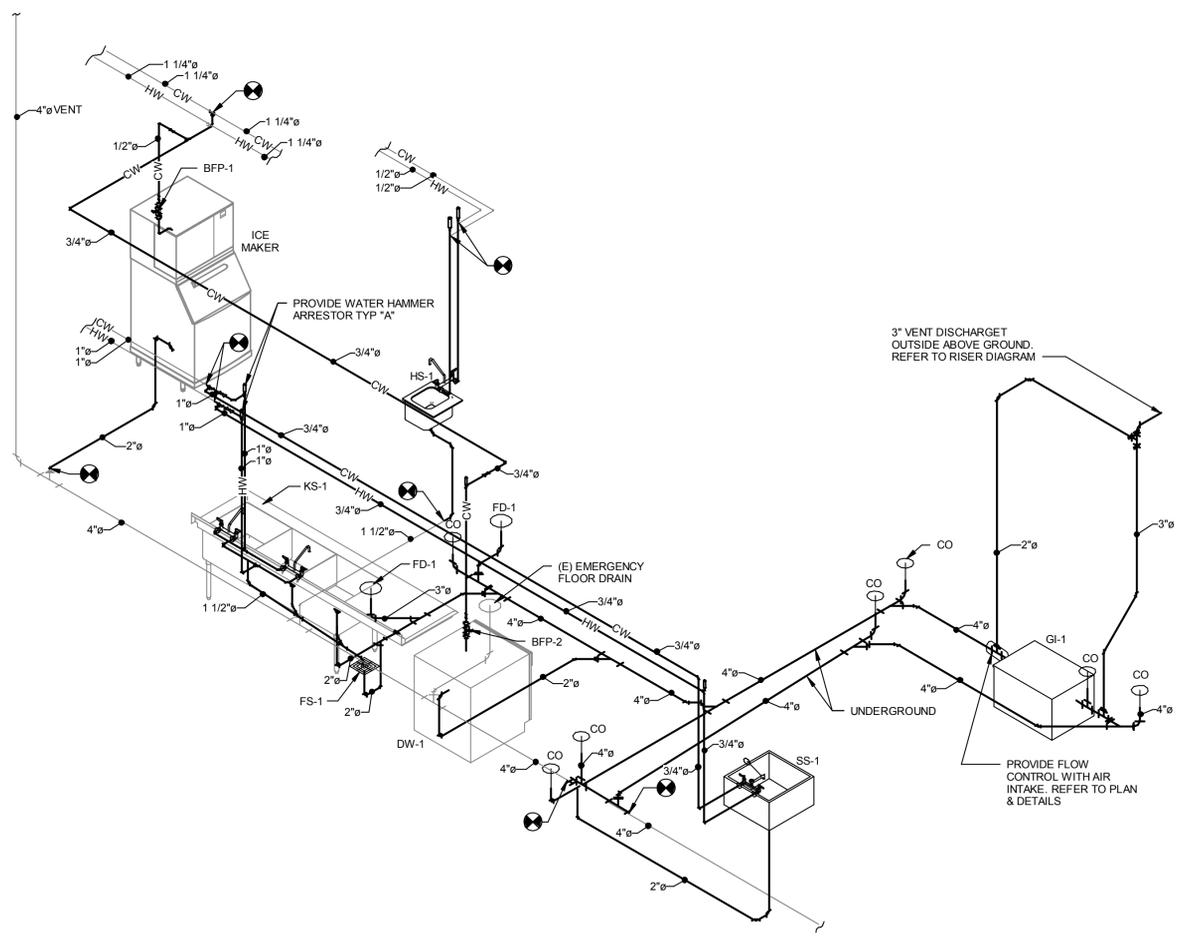
BLACKFLOW PREVENTER SCHEDULE				
TAG	DESCRIPTION	SIZE	CAPACITY	BASIS OF DESIGN MANUFACTURER AND MODEL
BFP-1	BACKFLOW PREVENTER	1/2"	5 PM @ 11PSI	REDUCED PRESSURE ZONE ASSEMBLY MODEL WATTS SERIES 009 OR EQUAL.
BFP-2	BACKFLOW PREVENTER	3/4"	13 PM @ 12PSI	REDUCED PRESSURE ZONE ASSEMBLY MODEL WATTS SERIES 009 OR EQUAL.



**3 CONDENSATE PIPE DISCHARGE**  
P501 3/8" = 1'-0"



**1 PLUMBING RISER DIAGRAM-APARTMENT NEW WORK**  
P501



**2 PLUMBING RISER DIAGRAM-KITCHEN NEW WORK**  
P501



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I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 24152, Expiration date 03.19.2017

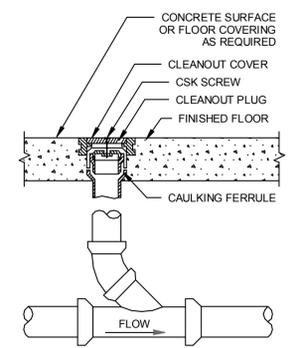
No.	Description	Date

**PLUMBING RISER DIAGRAMS AND SCHEDULE**

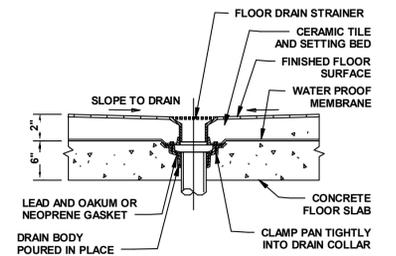
Phase:  CONCEPT  30%  60%  90%  100%

A/E Project Number 12-0009.015	Drawing Scale: AS NOTED
Date 07-15-15	CADD Filename Revit Model
	CADD Plot Scale 1:1
Drawn By RP	Checked By AK
Sheet Number <b>P501</b>	

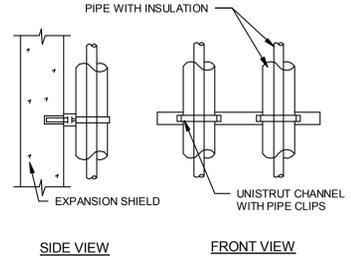
IF THIS DRAWING IS A REPRODUCTION, GRAPHIC SCALE MUST BE USED



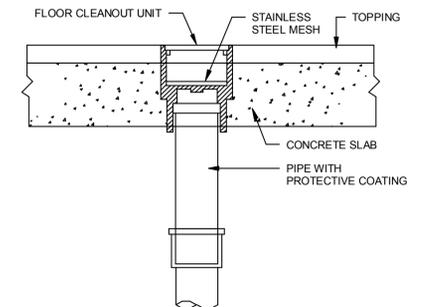
**1 FLOOR CLEAN OUT DETAIL**  
P601 NTS



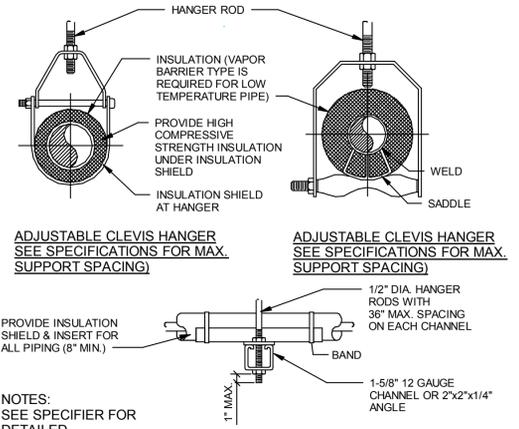
**2 FLOOR DRAIN DETAIL**  
P601 NTS



**3 WALL SUPPORT PIPING DETAIL**  
P601 NTS



**4 DEEP FLOOR PENETRATION CLEAN OUT DETAIL**  
P601 NTS



**ADJUSTABLE CLEVIS HANGER**  
SEE SPECIFICATIONS FOR MAX. SUPPORT SPACING

**ADJUSTABLE CLEVIS HANGER**  
SEE SPECIFICATIONS FOR MAX. SUPPORT SPACING

PROVIDE INSULATION SHIELD & INSERT FOR ALL PIPING (8" MIN.)

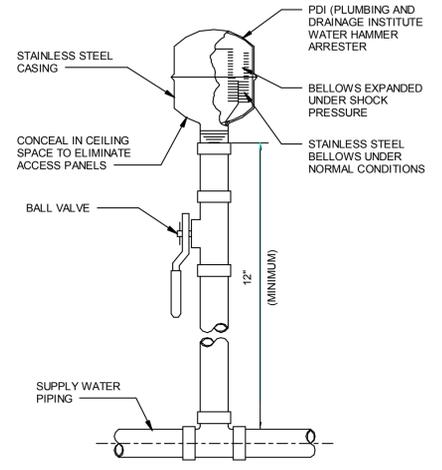
NOTES:  
SEE SPECIFIER FOR DETAILED HANGER REQUIREMENTS

**SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD**

MAXIMUM PIPE/TUBING SUPPORT BRACING											
NOM. SIZE IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
PIPE FT.	7	7	7	9	10	11	12	14	16	17	19
TUBING FT.	5	6	7	8	8	9	10	12	13	14	16

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

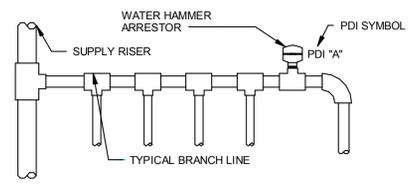
**5 PIPEING HANGER DETAIL**  
P601 NTS



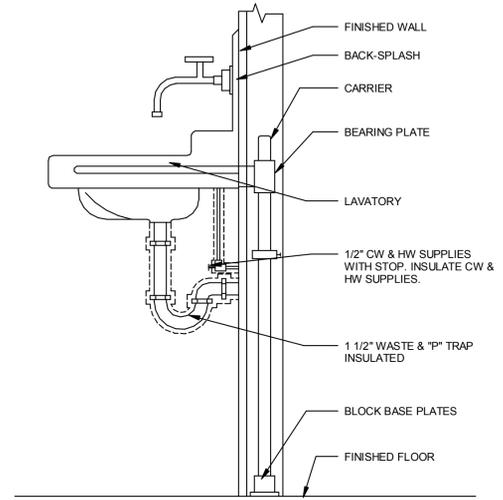
**6 WATER HAMMER ARRESTOR DETAIL**  
P601 NTS

**WATER HAMMER ARRESTOR SCHEDULE**

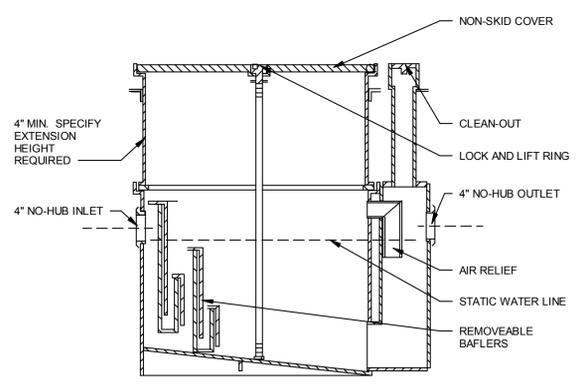
PDI SYMBOL	A	B	C	D	E	F
FIXTURE UNIT RATING	1-11	12-32	33-60	61-113	114-154	155-330



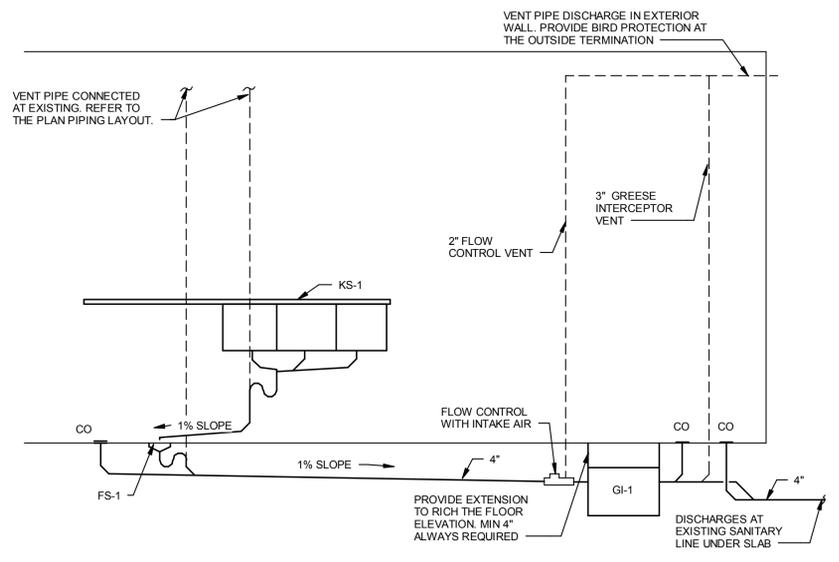
NOTES:  
1. INSTALLATION OF WATER HAMMER ARRESTORS SHALL BE AT THE END OF BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.  
2. ONE WATER HAMMER ARRESTOR PER 20' LINE, AND ANOTHER FOR BRANCHES OVER 20' IN LENGTH.  
3. THE SUM OF FIXTURE UNIT RATING OF UNITS OVER 20' IN LENGTH SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.



**7 TYPICAL LAVATORY (HS-1) CARRIER DETAIL**  
P601 NTS



**8 GREASE INTERCEPTOR DETAIL**  
P601 NTS



**9 KITCHEN SINK (KS-1) DRAIN PIPE CONNECTIONS DIAGRAM**  
P601 NTS

**CASEY COMMUNITY CENTER INTERIOR RENOVATION**

810 S FREDERICK AVE,  
GAITHERSBURG, MD 20877

**NIKA ARCHITECTS + ENGINEERS**

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No.	Description	Date

Revisions

**PLUMBING DETAILS**

Phase  
 CONCEPT  30%  60%  90%  100%

A/E Project Number: 12-0009.015  
Date: 07-15-15  
Drawing Scale: AS NOTED  
CADD Filename: Revit Model  
CADD Plot Scale: 1:1

Drawn By: RP  
Checked By: AK

Sheet Number  
**P601**

