

Orange County Corrections Horizons AHU Hot Water Replacement

PERMIT DOCUMENTATION

JANUARY 13, 2017

Orange County Government

Capital Planning Division

400 East South Street, Suite 500
Orlando, FL 32801

GENERAL SCOPE OF WORK

1. A replacement of the heating hot water piping with type K, hard drawn copper tubing for pipe sizes 1 1/4" and smaller, and schedule 40 steel pipe with wrought-steel fitting for pipe size 1 1/2" and larger.
2. Replacement of heating hot water hydronic equipment including: air separator, chemical shot feeder, expansion tank and space heating pumps.
3. Removal, reinstallation or replacement of all existing architectural items that will be affected including: interior ceiling, interior CMU block walls, and roof surface pipe penetration locations.
4. All work shall be performed in a manner and schedule to reduce disruption to the Horizons building operation.
5. Alternate Bid 1 - Provide Schedule 80 Corzon CPVC plastic pipe and fittings for heating hot water piping for pipe size 1 1/2" and larger.

SHEET INDEX

ARCHITECTURAL SHEET INDEX

- A000 GENERAL INFORMATION
- AD101 LEVEL 1 FLOOR PLAN - DEMOLITION
- AD102 LEVEL 2, 4, & 6 FLOOR PLAN - DEMOLITION
- AD103 LEVEL 3, 5, & 7 FLOOR PLAN - DEMOLITION
- AD121 LEVEL 1 REFLECTED CEILING PLAN - DEMOLITION
- AD122 LEVEL 2, 4, & 6 REFLECTED CEILING PLAN - DEMOLITION
- AD123 LEVEL 3, 5, & 7 REFLECTED CEILING PLAN - DEMOLITION
- AD148 ROOF PLAN - DEMOLITION
- A101 LEVEL 1 FLOOR PLAN
- A102 LEVEL 2, 4, & 6 FLOOR PLAN
- A103 LEVEL 3, 5, & 7 FLOOR PLAN
- A121 LEVEL 1 REFLECTED CEILING PLAN
- A122 LEVEL 2, 4, & 6 REFLECTED CEILING PLAN
- A123 LEVEL 3, 5, & 7 REFLECTED CEILING PLAN

STRUCTURAL SHEET INDEX

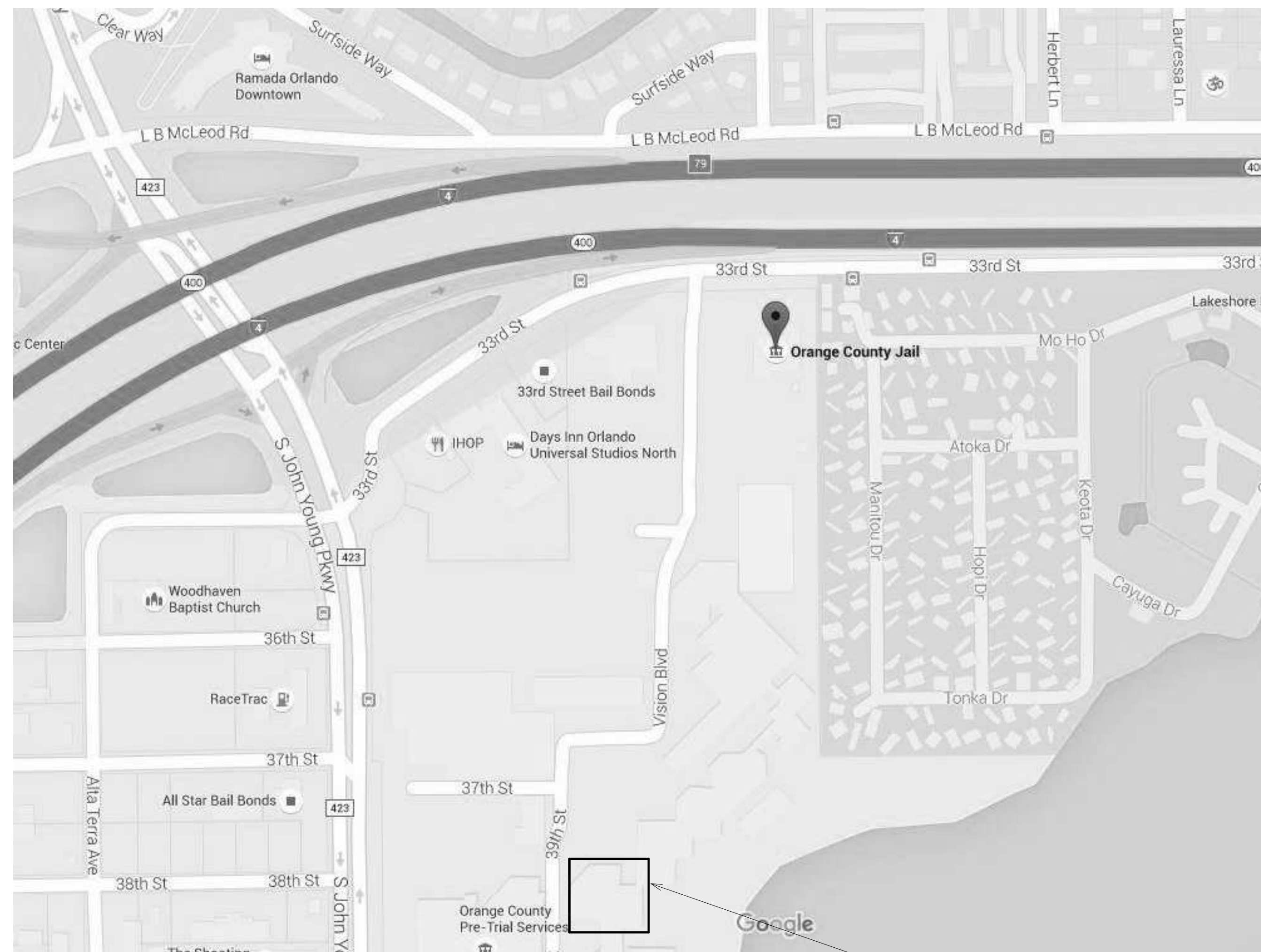
- S001 ABBREVIATIONS SYMBOLS AND SHEET INDEX
- S002 STRUCTURAL GENERAL NOTES
- S301 SECTIONS & DETAILS

MECHANICAL SHEET INDEX

- M001 MECHANICAL GENERAL INFORMATION
- M100 MECHANICAL PHASING PLAN
- MD101 MECHANICAL PIPING FIRST FLOOR DEMO PLAN
- MD102 MECHANICAL PIPING SECOND FLOOR DEMO PLAN
- MD103 MECHANICAL PIPING THIRD FLOOR DEMO PLAN
- MD104 MECHANICAL PIPING FOURTH FLOOR DEMO PLAN
- MD105 MECHANICAL PIPING FIFTH FLOOR DEMO PLAN
- MD106 MECHANICAL PIPING SIXTH FLOOR DEMO PLAN
- MD107 MECHANICAL PIPING SEVENTH FLOOR DEMO PLAN
- MD108 MECHANICAL PIPING ROOF DEMO PLAN
- MD109 MECHANICAL PIPING ELEV. MACH. ROOM DEMO PLAN
- MD201 MECHANICAL DEMOLITION ENLARGED PLAN
- MD202 ENLARGED BUILDING SECTION - CHASE WALL DEMOLITION
- M101 MECHANICAL PIPING FIRST FLOOR
- M102 MECHANICAL PIPING SECOND FLOOR
- M103 MECHANICAL PIPING THIRD FLOOR
- M104 MECHANICAL PIPING FOURTH FLOOR
- M105 MECHANICAL PIPING FIFTH FLOOR
- M106 MECHANICAL PIPING SIXTH FLOOR
- M107 MECHANICAL PIPING SEVENTH FLOOR
- M108 MECHANICAL PIPING ROOF PLAN
- M201 MECHANICAL ENLARGED PLANS
- M301 MECHANICAL SCHEDULES
- M302 MECHANICAL DETAILS
- M303 HEATING HOT WATER RISER DIAGRAM

ELECTRICAL SHEET INDEX

- E001 ELECTRICAL GENERAL INFORMATION
- ED101 ELECTRICAL FIRST FLOOR DEMO POWER PLAN
- E101 ELECTRICAL FIRST FLOOR NEW POWER PLAN
- E201 ELECTRICAL PANEL SCHEDULES



PROJECT LOCATION

BOARD OF COUNTY COMMISSIONERS

MAYOR - TERESA JACOBS

DISTRICT 1 COMMISSIONER - BETSY VANDERLEY

DISTRICT 2 COMMISSIONER - BRYAN NELSON

DISTRICT 3 COMMISSIONER - PETE CLARKE

DISTRICT 4 COMMISSIONER - JENNIFER THOMPSON

DISTRICT 5 COMMISSIONER - EMILY BONILLA

DISTRICT 6 COMMISSIONER - VICTORIA P. SIPLIN

PROJECT TEAM

structural	architectual	mechanical	electrical
BASE Consultants 1214 East Concord Street Orlando, FL 32803 ph. (407) 442-2697 contact: Laura Barbero-Buffa	rhodes + brito 605 E. ROBISON STREET, SUITE 750 ORLANDO, FL 32801 ph. (407) 648-7288 contact: Max Brito	RTM Engineering 952 S Semoran Blvd Suite 100 Winter Park, FL 32792 ph. (407) 678-2055 fax (407) 678-2088 contact: Mitesh Smart	RTM Engineering 952 S Semoran Blvd Suite 100 Winter Park, FL 32792 ph. (407) 678-2055 fax (407) 678-2088 contact: Mitesh Smart

PROFESSIONAL SEALS

Laura Barbero-Buffa, P.E. P.E. Lic. No 74027	Maximian Brito AR0015108	Dalrio A Lewis, P.E. P.E. Lic. No 77571	Maen Jauhary, P.E. P.E. Lic. No 76232
---	-----------------------------	--	--

Revisions:

#	Date	Description

Date:
01/13/17

Project Number:
15.OC.018

Drawn By: DC
Checked By: MB

LEVEL 1 FLOOR
PLAN -
DEMOLITION

Sheet No.:

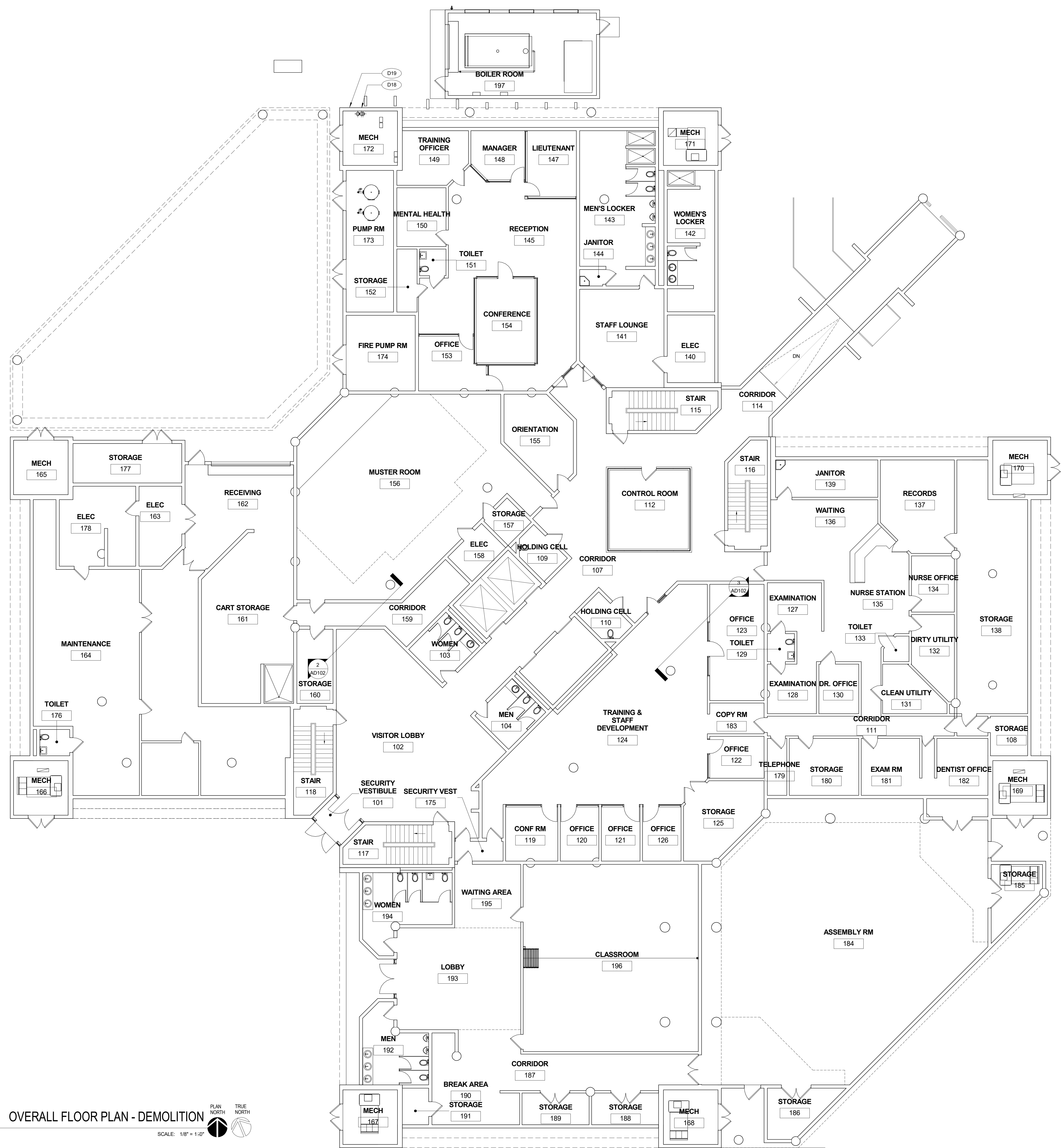
AD101

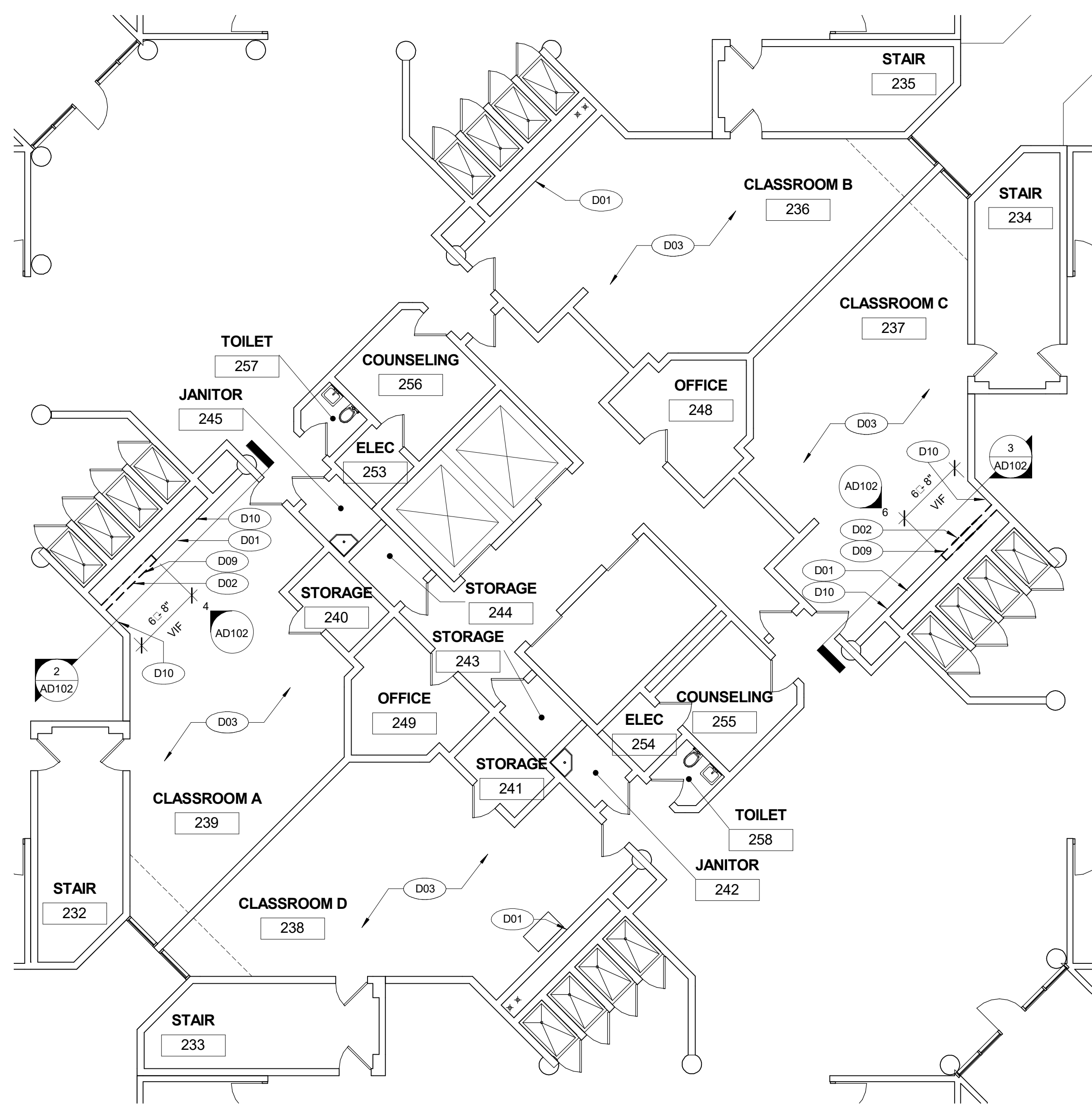
GENERAL NOTES - DEMOLITION

- A DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- B THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- C THIS SHEET INDICATES GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED, NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- D DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, FLOORS, SLABS, EQUIPMENT, UTILITIES, ETC. AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- E CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO RE-ROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- F PRIOR TO START OF DEMOLITION, THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVE(S) TO IDENTIFY EXISTING ITEMS TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGED OR OTHERWISE NOT IN "LIKE NEW" CONDITION. THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS THAT ARE DAMAGED WHICH ARE IDENTIFIED AS "EXISTING TO REMAIN", "TO BE SALVAGED", AND/OR "TO BE REMOVED AND REINSTALLED DURING NEW CONSTRUCTION" SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- G WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC. ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- H PARTITIONS TO BE REMOVED SHALL BE REMOVED ENTIRELY, INCLUDING STUD BRACING, ETC. TO THE BOTTOM OF STRUCTURE, UNO.
- I CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.

DEMOLITION KEYNOTE LEGEND

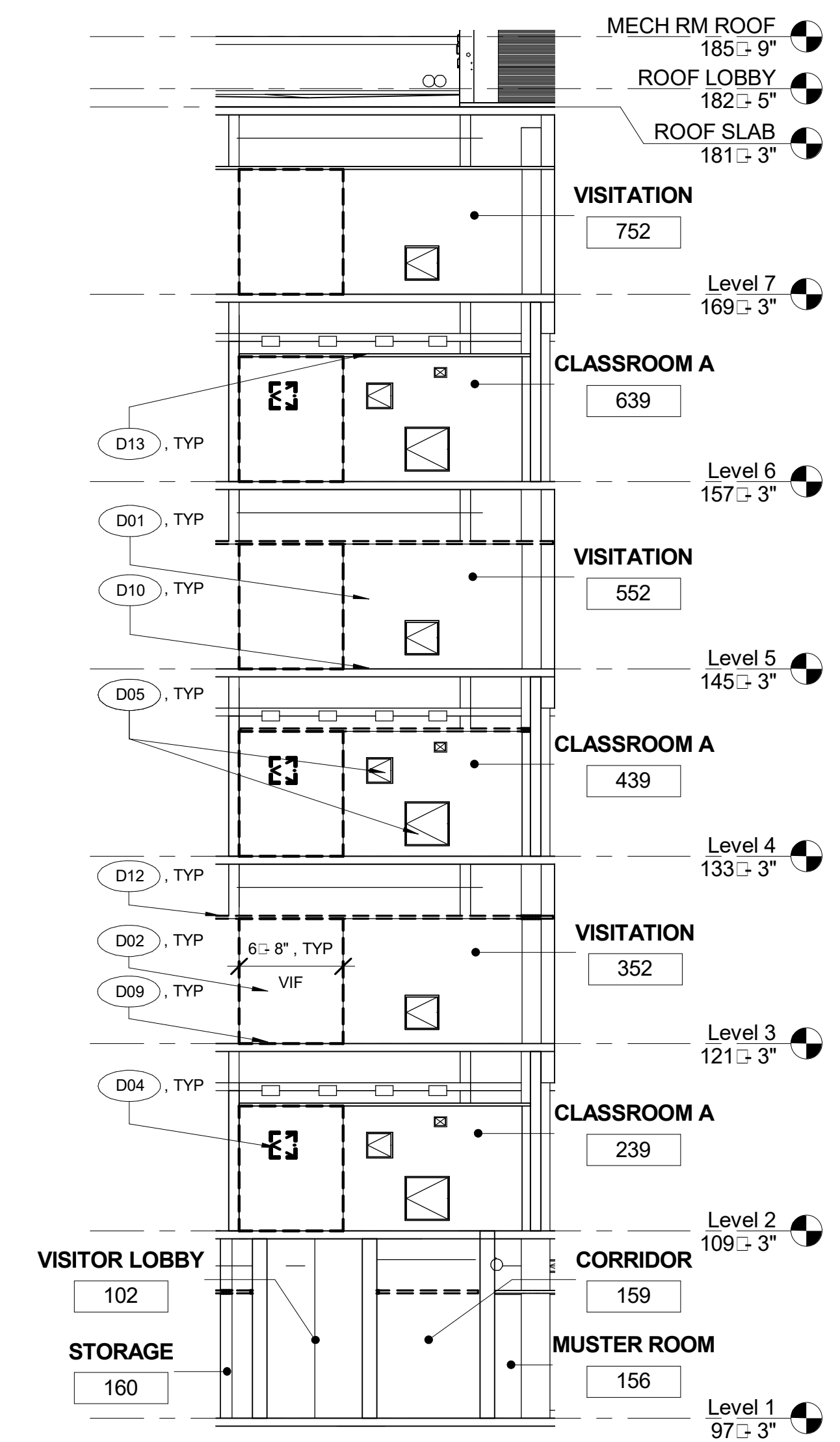
- D18 PIPE PENETRATIONS IN EXISTING WALL TO BE PATCHED & REPAIRED OR INFILLED AS NECESSARY IN PREPARATION FOR THE NEW CONSTRUCTION.
- D19 EXISTING WALL TO BE PREPARED FOR NEW PIPE PENETRATION. REF: MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.





1
AD102
LEVEL 2 FLOOR PLAN AREA OF WORK - DEMOLITION (TYP OF LEVEL 4 & 6)
SCALE: 1/8" = 1'-0"
PLAN NORTH TRUE NORTH

3
AD102
DEMOLITION BUILDING SECTION C
SCALE: 1/8" = 1'-0"



2
AD102
DEMOLITION BUILDING SECTION A
SCALE: 1/8" = 1'-0"



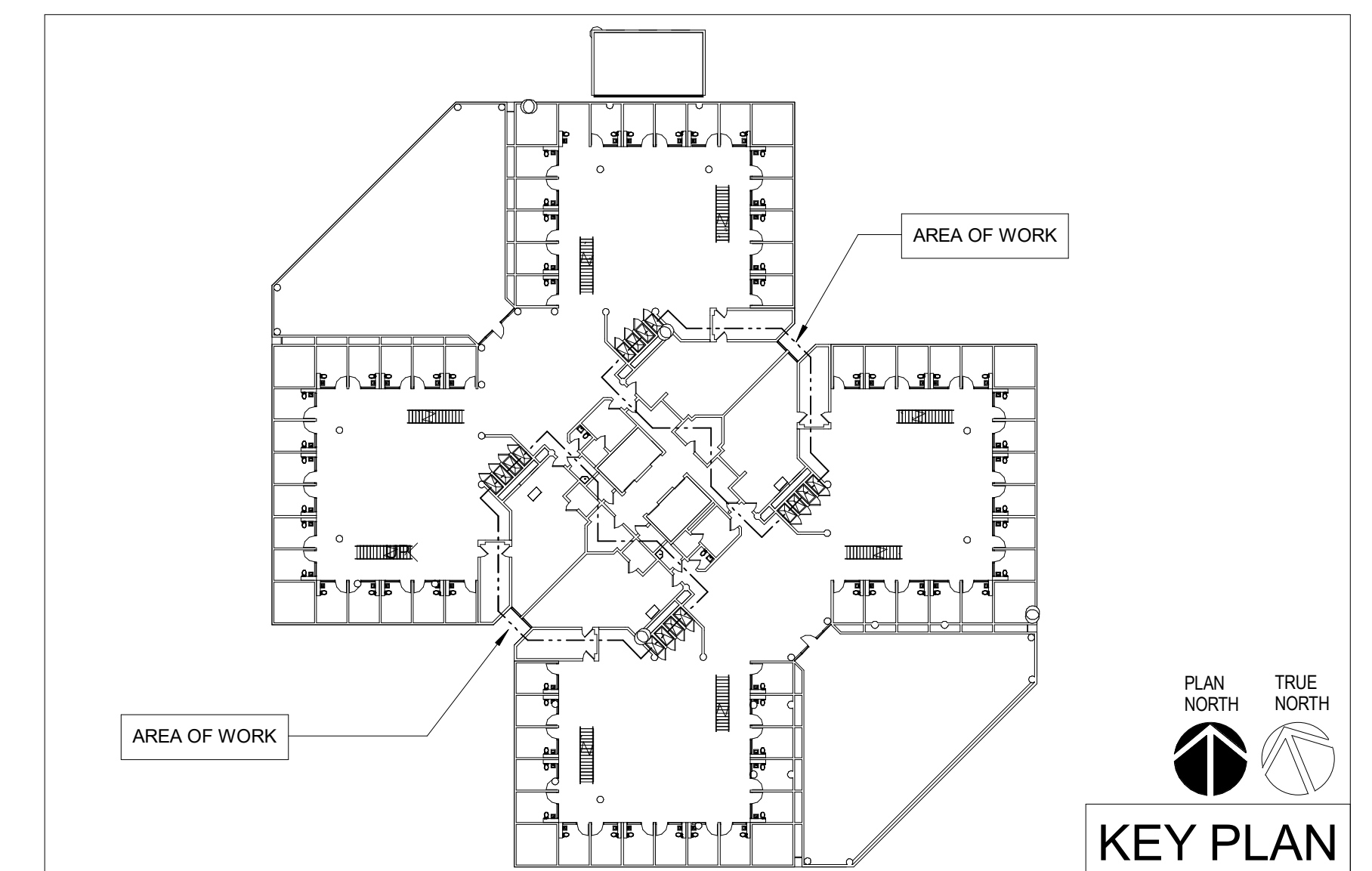
6
AD102
EXISTING PHOTO AT LEVEL 2 CLASSROOM "C" CHASE WALL
SCALE: 1/4" = 1'-0"



5
AD102
EXISTING PHOTO AT LEVEL 4 CLASSROOM "C" CHASE WALL (TYP OF LEVEL 6)
SCALE: 1/4" = 1'-0"



4
AD102
EXISTING PHOTO AT LEVEL 2 CLASSROOM "A" CHASE WALL (TYP OF LEVEL 4 & 6)
SCALE: 1/4" = 1'-0"



KEY PLAN

GENERAL NOTES - DEMOLITION

- A DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON ALL EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- B THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- C THIS SHEET INDICATES GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED, NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- D DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, FLOORS, SLABS, EQUIPMENT, UTILITIES, ETC. AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- E CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO RE-ROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- F PRIOR TO START OF DEMOLITION, THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVE(S) TO IDENTIFY EXISTING ITEMS TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGED OR OTHERWISE NOT IN "LIKE NEW" CONDITION. THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS THAT ARE DAMAGED WHICH ARE IDENTIFIED AS "EXISTING TO REMAIN", "TO BE SALVAGED", AND/OR "TO BE REMOVED AND REINSTALLED DURING NEW CONSTRUCTION" SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- G WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC. ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- H PARTITIONS TO BE REMOVED SHALL BE REMOVED ENTIRELY, INCLUDING STUD BRACING, ETC. TO THE BOTTOM OF STRUCTURE, UNO.
- I CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.

DEMOLITION KEYNOTE LEGEND

- D01 EXISTING PORTION OF RATED PARTITION TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D02 EXISTING PORTION OF RATED PARTITION TO BE REMOVED IN ITS ENTIRETY UP TO UNDERSIDE OF STRUCTURE ABOVE THE FINISHED FLOOR. IN NEW CONSTRUCTION, ALL WALL PENETRATIONS TO BE CALLED WITH COMPATIBLE FIRE-RESISTIVE MATERIAL THAT IS COMPARABLE TO THE EXISTING PARTITION'S FIRE RATING.
- D03 EXISTING FLOOR FINISH TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D04 EXISTING ACCESS PANEL TO BE REMOVED. REFER TO NEW CONSTRUCTION FOR SIZE AND LOCATION OF NEW ACCESS PANEL.
- D05 EXISTING ACCESS PANEL TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D06 EXISTING WALL GRILLE/LOUVER/DAMPER TO BE SALVAGED AND REINSTALLED IN SAME LOCATION IN NEW CONSTRUCTION. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D07 EXISTING WALL GRILLE/LOUVER/DAMPER TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D08 EXISTING ELECTRICAL OUTLET TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. VERIFY & CONFIRM IF ELECTRICAL CONDUIT/WIRING RUNS BEHIND WALL WITHIN AREA OF WORK BEFORE ANY DEMOLITION COMMENCES. REFER TO ENGINEERING DRAWINGS FOR ANY RE-ROUTING OF UTILITIES.
- D09 EXISTING PORTION OF WALL BASE TO BE REMOVED IN ITS ENTIRETY UP TO STRUCTURE ABOVE. PREPARE ADJACENT SURFACES FOR NEW CONSTRUCTION.
- D10 EXISTING WALL BASE TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. PREPARE ADJACENT SURFACES FOR NEW CONSTRUCTION.
- D11 EXISTING CEILING PANELS AND SUSPENSION GRID SYSTEM TO BE REMOVED. PREPARE ADJACENT SURFACES FOR NEW CONSTRUCTION.
- D12 EXISTING CEILING PANELS TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. TEMPORARILY DISMOUNT CEILING PANELS AND CEILING GRID AS NECESSARY TO FACILITATE NEW CONSTRUCTION.
- D15 EXISTING LIGHT FIXTURES, FIRE SPRINKLER HEADS, AUDIO SPEAKERS, SMOKE DETECTORS, HVAC SUPPLY & RETURN GRILLES, AND OTHER CEILING ITEMS TO REMAIN. ITEMS THAT CANNOT BE DISMOUNTED ARE TO BE SUPPORTED TEMPORARILY IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.

Revisions:

#	Date	Description

Client:



Consultants:

rhodes + brito
ARCHITECTS
AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648-7288
www.rbrchitects.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
AR0015108

Project:
OC CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
01/13/17

Project Number:
15.OC.018

Drawn By: DC
Checked By: MB

LEVEL 3, 5, & 7
FLOOR PLAN -
DEMOLITION

Sheet No.:

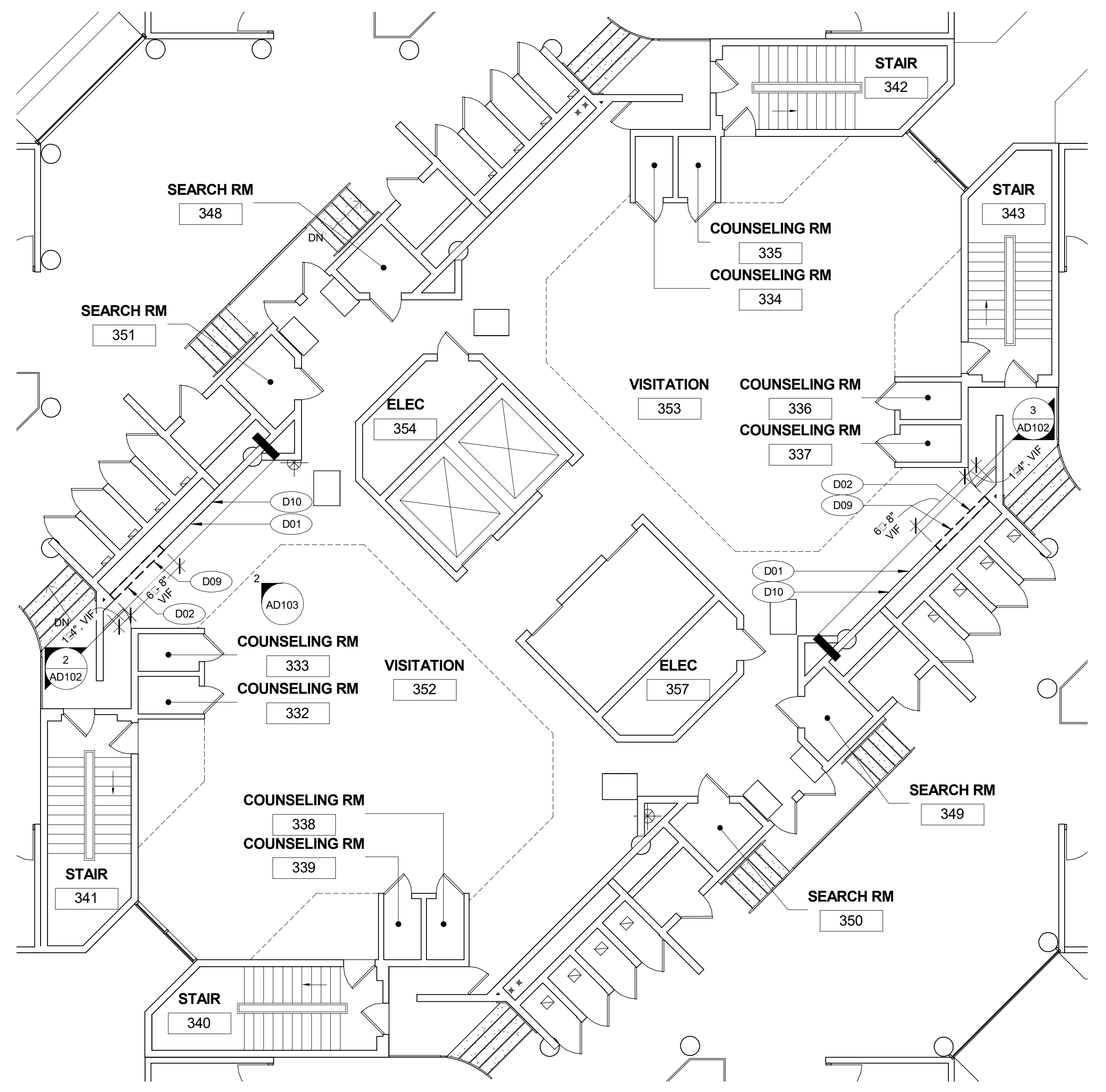
AD103

GENERAL NOTES - DEMOLITION

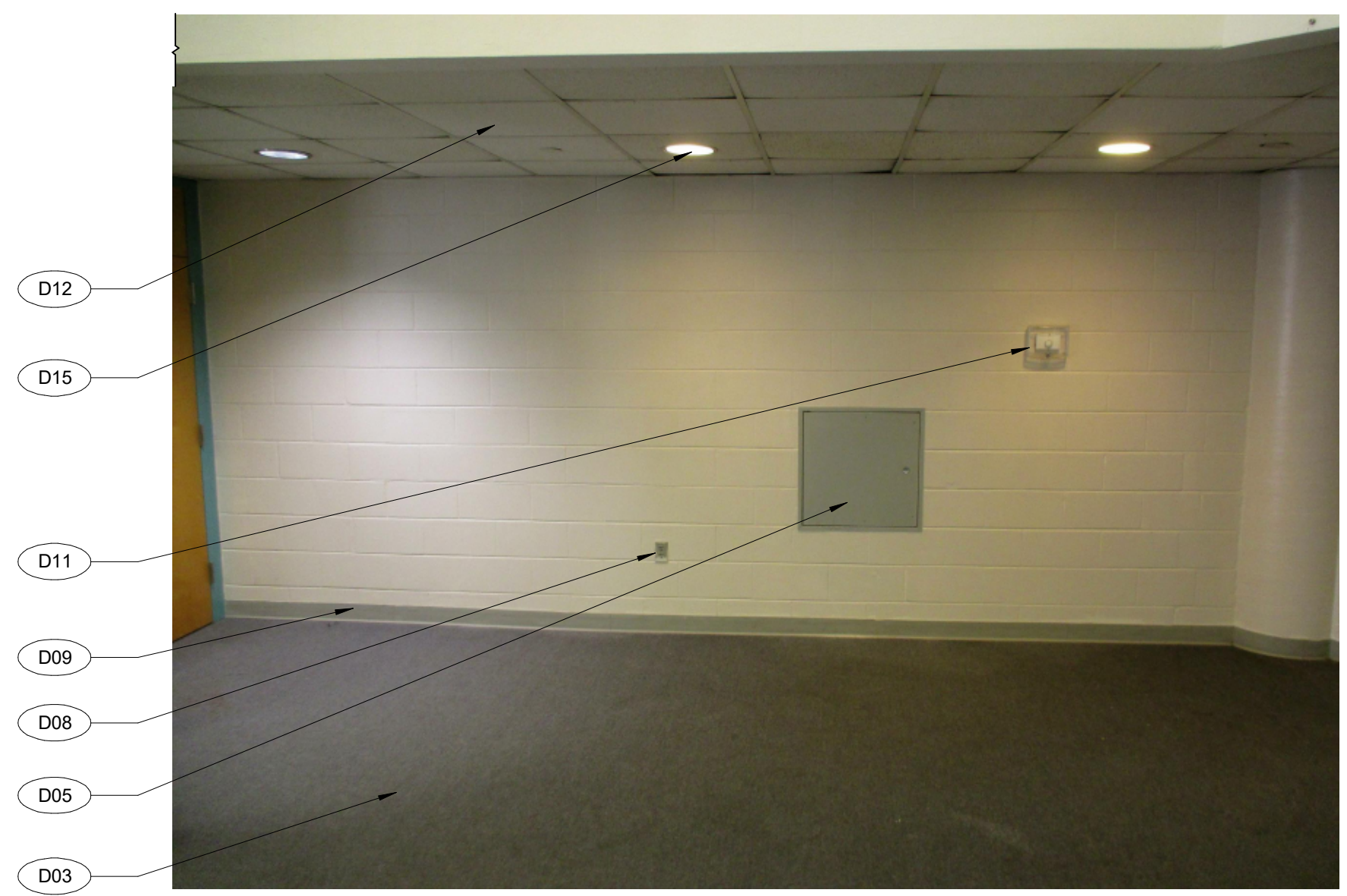
- A DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- B THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- C THIS SHEET INDICATES GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED, NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- D DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, FLOORS, SLABS, EQUIPMENT, UTILITIES, ETC. AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- E CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO RE-ROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- F PRIOR TO START OF DEMOLITION, THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVE(S) TO IDENTIFY EXISTING ITEMS TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGED OR OTHERWISE NOT IN "LIKE NEW" CONDITION. THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS THAT ARE DAMAGED WHICH ARE IDENTIFIED AS "EXISTING TO REMAIN", "TO BE SALVAGED", AND/OR "TO BE REMOVED AND REINSTALLED DURING NEW CONSTRUCTION" SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- G WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC. ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- H PARTITIONS TO BE REMOVED SHALL BE REMOVED ENTIRELY, INCLUDING STUD BRACING, ETC. TO THE BOTTOM OF STRUCTURE, UNO.
- I CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.

DEMOLITION KEYNOTE LEGEND

- D01 EXISTING PORTION OF RATED PARTITION TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D02 EXISTING PORTION OF RATED PARTITION TO BE REMOVED IN ITS ENTIRETY UP TO UNDERSIDE OF STRUCTURE ABOVE THE FINISHED FLOOR. IN NEW CONSTRUCTION, ALL WALL PENETRATIONS TO BE CALLED WITH COMPATIBLE FIRE-RESISTIVE MATERIAL THAT IS COMPARABLE TO THE EXISTING PARTITION'S FIRE RATING.
- D03 EXISTING FLOOR FINISH TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D05 EXISTING ACCESS PANEL TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D08 EXISTING ELECTRICAL OUTLET TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. VERIFY & CONFIRM IF ELECTRICAL CONDUIT/WIRING RUNS BEHIND WALL WITHIN AREA OF WORK BEFORE ANY DEMOLITION COMMENCES. REFER TO ENGINEERING DRAWINGS FOR ANY RE-ROUTING OF UTILITIES.
- D09 EXISTING PORTION OF WALL BASE TO BE REMOVED IN ITS ENTIRETY UP TO STRUCTURE ABOVE. PREPARE ADJACENT SURFACES FOR NEW CONSTRUCTION.
- D10 EXISTING WALL BASE TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D11 EXISTING THERMOSTAT TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- D12 EXISTING CEILING PANELS AND SUSPENSION GRID SYSTEM TO BE REMOVED. PREPARE ADJACENT SURFACES FOR NEW CONSTRUCTION.
- D15 EXISTING LIGHT FIXTURES, FIRE SPRINKLER HEADS, AUDIO SPEAKERS, SMOKE DETECTORS, HVAC SUPPLY & RETURN GRILLES, AND OTHER CEILING ITEMS TO REMAIN. ITEMS THAT CANNOT BE DISMOUNTED ARE TO BE SUPPORTED TEMPORARILY IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.



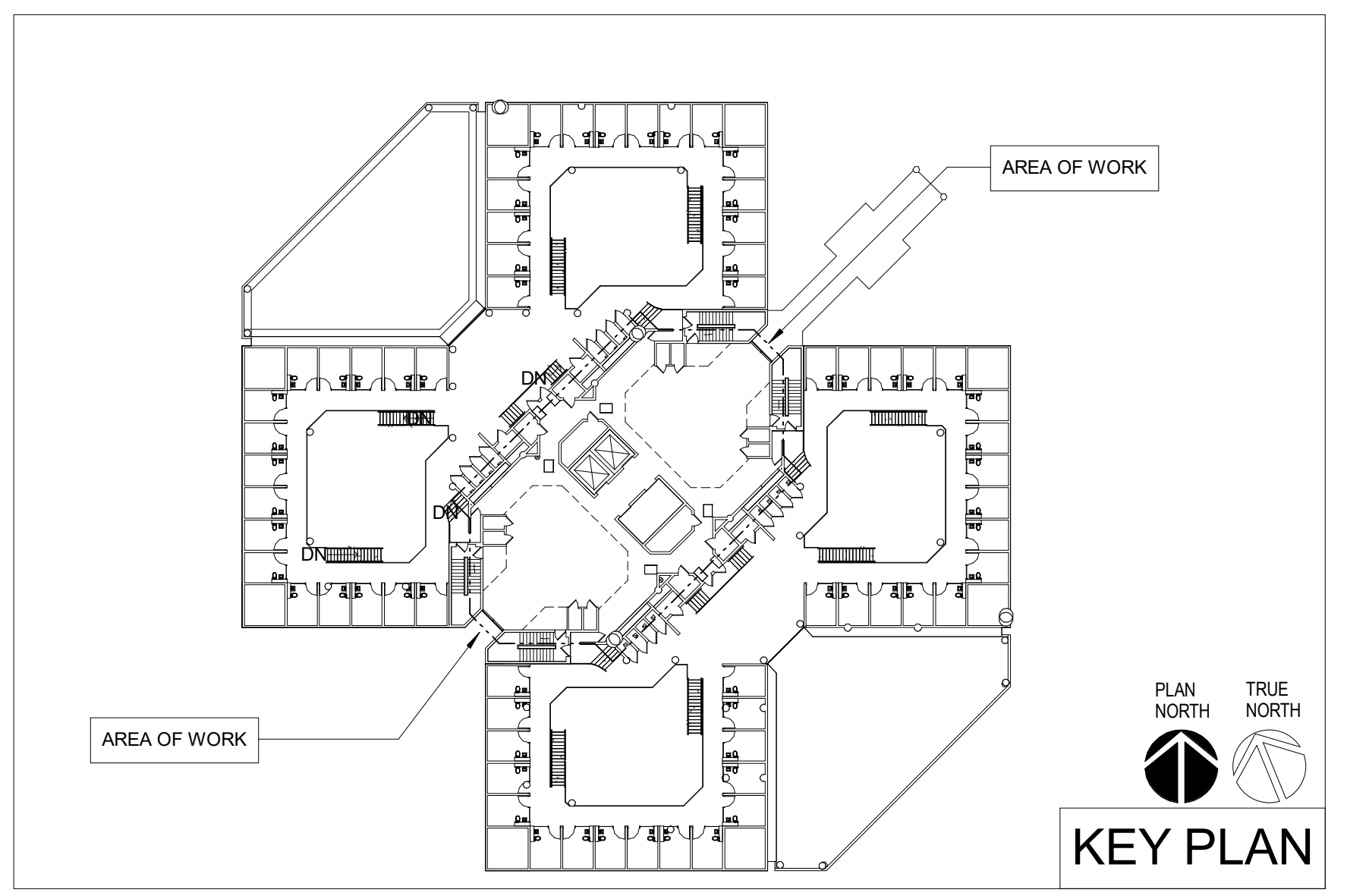
1
AD103
LEVEL 3 FLOOR PLAN AREA OF WORK -
DEMOLITION (TYP OF LEVEL 5 & 7)
SCALE: 1/8" = 1'-0"
PLAN NORTH TRUE NORTH



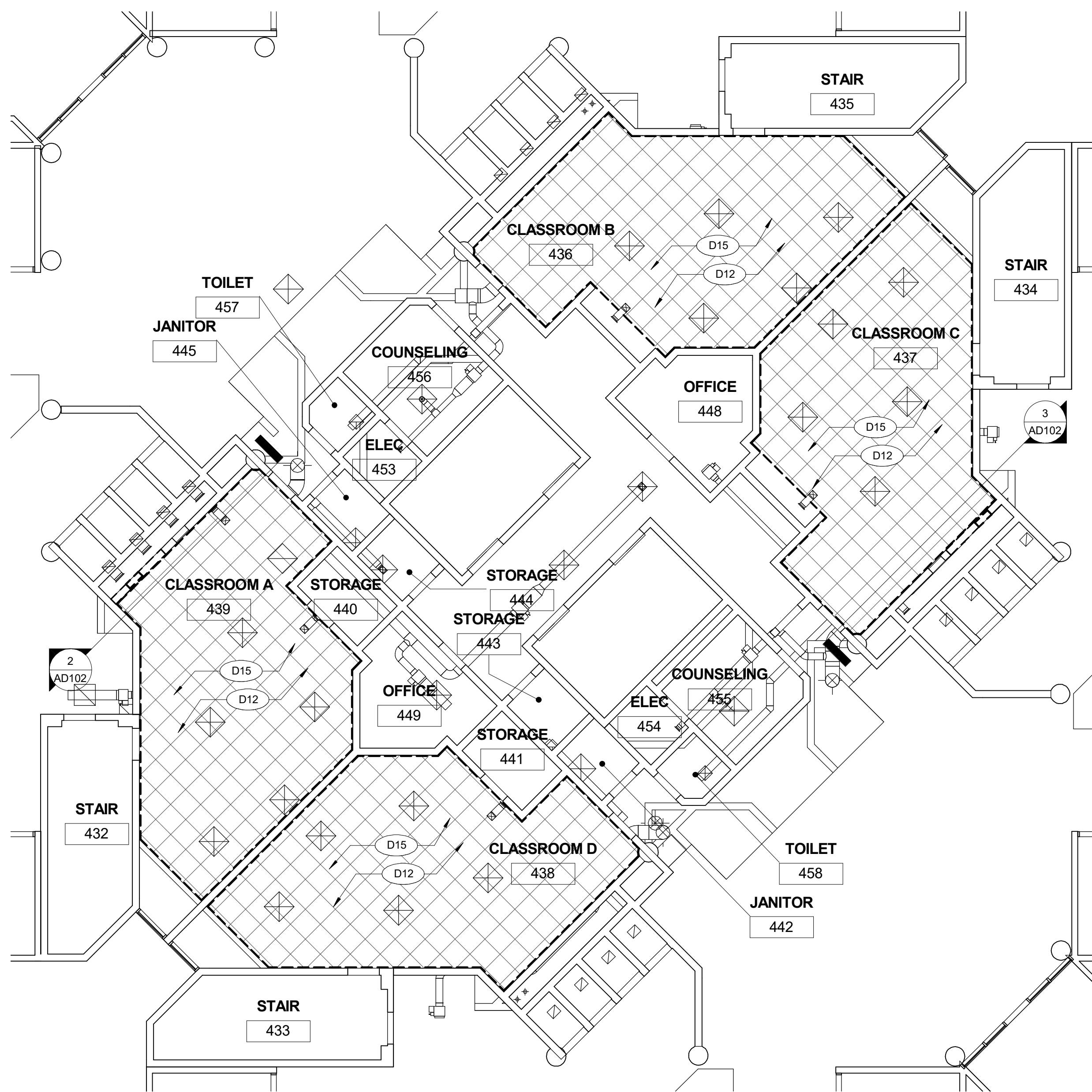
3
AD103
EXISTING PHOTO AT LEVEL 7 VISITATION
(753) CHASE WALL
SCALE: 1/4" = 1'-0"



2
AD103
EXISTING PHOTO AT LEVEL 3 VISITATION
(352) CHASE WALL
SCALE: 1/4" = 1'-0"



PLAN NORTH TRUE NORTH
KEY PLAN

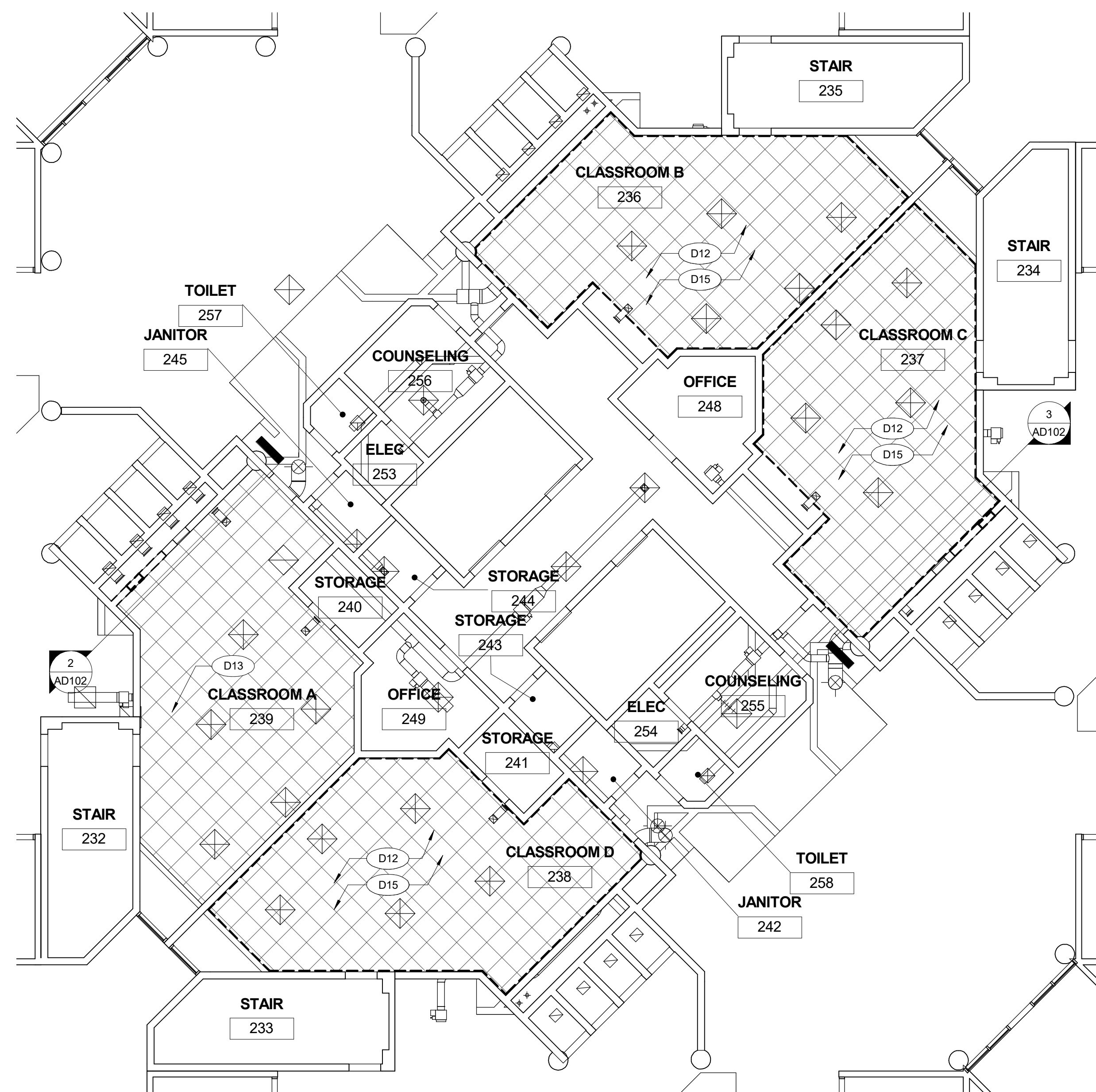


LEVEL 4 RCP AREA OF WORK - DEMOLITION
(TYP OF LEVEL 6)

PLAN NORTH TRUE NORTH

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

2
AD122

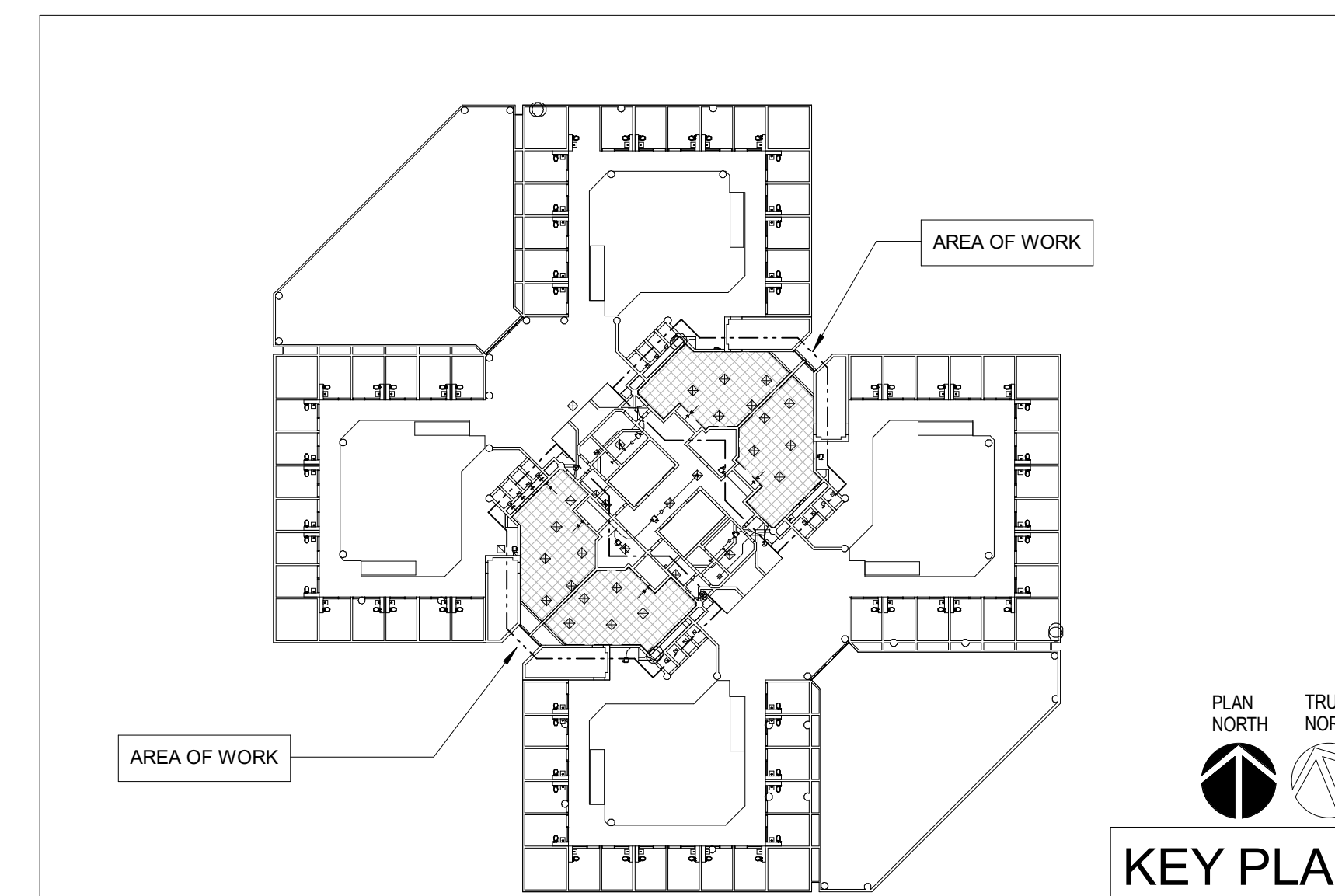


LEVEL 2 RCP AREA OF WORK - DEMOLITION

PLAN NORTH TRUE NORTH

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

1
AD122



GENERAL NOTES - DEMOLITION

- A DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- B THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- C THIS SHEET INDICATES GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED, NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- D DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, FLOORS, SLABS, EQUIPMENT, UTILITIES, ETC., AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- E CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO RE-ROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- F PRIOR TO START OF DEMOLITION, THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVE(S) TO IDENTIFY EXISTING ITEMS TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGED OR OTHERWISE NOT IN "LIKE NEW" CONDITION. THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS THAT ARE DAMAGED WHICH ARE IDENTIFIED AS "EXISTING TO REMAIN", "TO BE SALVAGED", AND/OR "TO BE REMOVED AND REINSTALLED DURING NEW CONSTRUCTION" SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- G WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC. ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- H PARTITIONS TO BE REMOVED SHALL BE REMOVED ENTIRELY, INCLUDING STUD BRACING, ETC., TO THE BOTTOM OF STRUCTURE, UNO.
- I CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.

DEMOLITION KEYNOTE LEGEND

- D12 EXISTING CEILING PANELS AND SUSPENSION GRID SYSTEM TO BE REMOVED. PREPARE ADJACENT SURFACES FOR NEW CONSTRUCTION.
- D13 EXISTING CEILING PANELS TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. TEMPORARILY DISMOUNT CEILING PANELS AND CEILING GRID AS NECESSARY TO FACILITATE NEW CONSTRUCTION.
- D15 EXISTING LIGHT FIXTURES, FIRE SPRINKLER HEADS, AUDIO SPEAKERS, SMOKE DETECTORS, HVAC SUPPLY & RETURN GRILLES, AND OTHER CEILING ITEMS TO REMAIN. ITEMS THAT CANNOT BE DISMOUNTED ARE TO BE SUPPORTED TEMPORARILY IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.



Client:



Consultants:



rhodes + brito
ARCHITECTS

AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648 - 7288
www.rbarchitects.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
AR0015108

Project:
OC CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:

01/13/17

Project Number:

15.OC.018

Drawn By:

DC

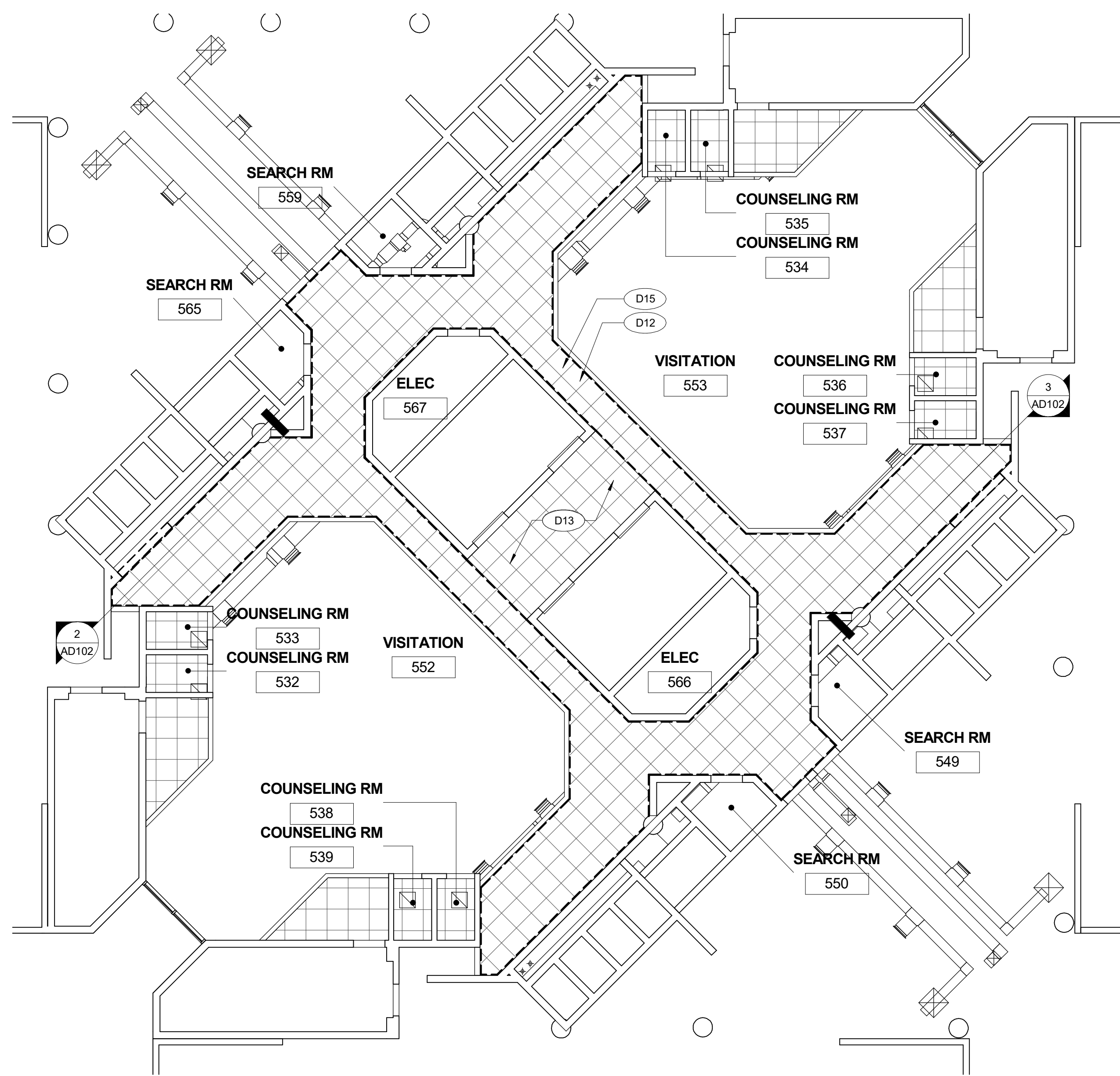
Checked By:

MB

**LEVEL 2, 4, & 6
REFLECTED
CEILING PLAN -
DEMOLITION**

Sheet No.:

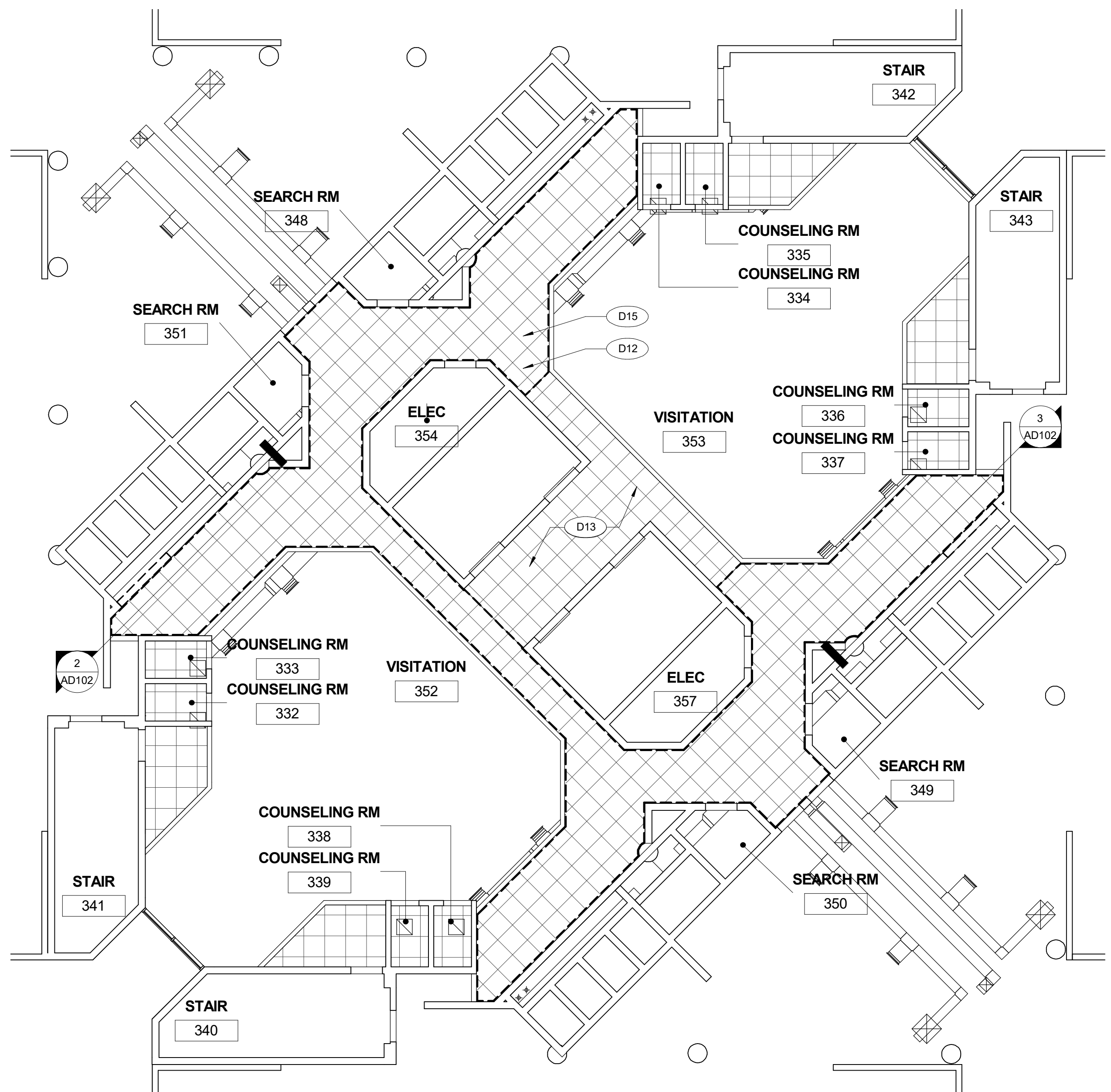
AD122



LEVEL 5 RCP AREA OF WORK - DEMOLITION
(TYP OF LEVEL 7)

PLAN NORTH TRUE NORTH

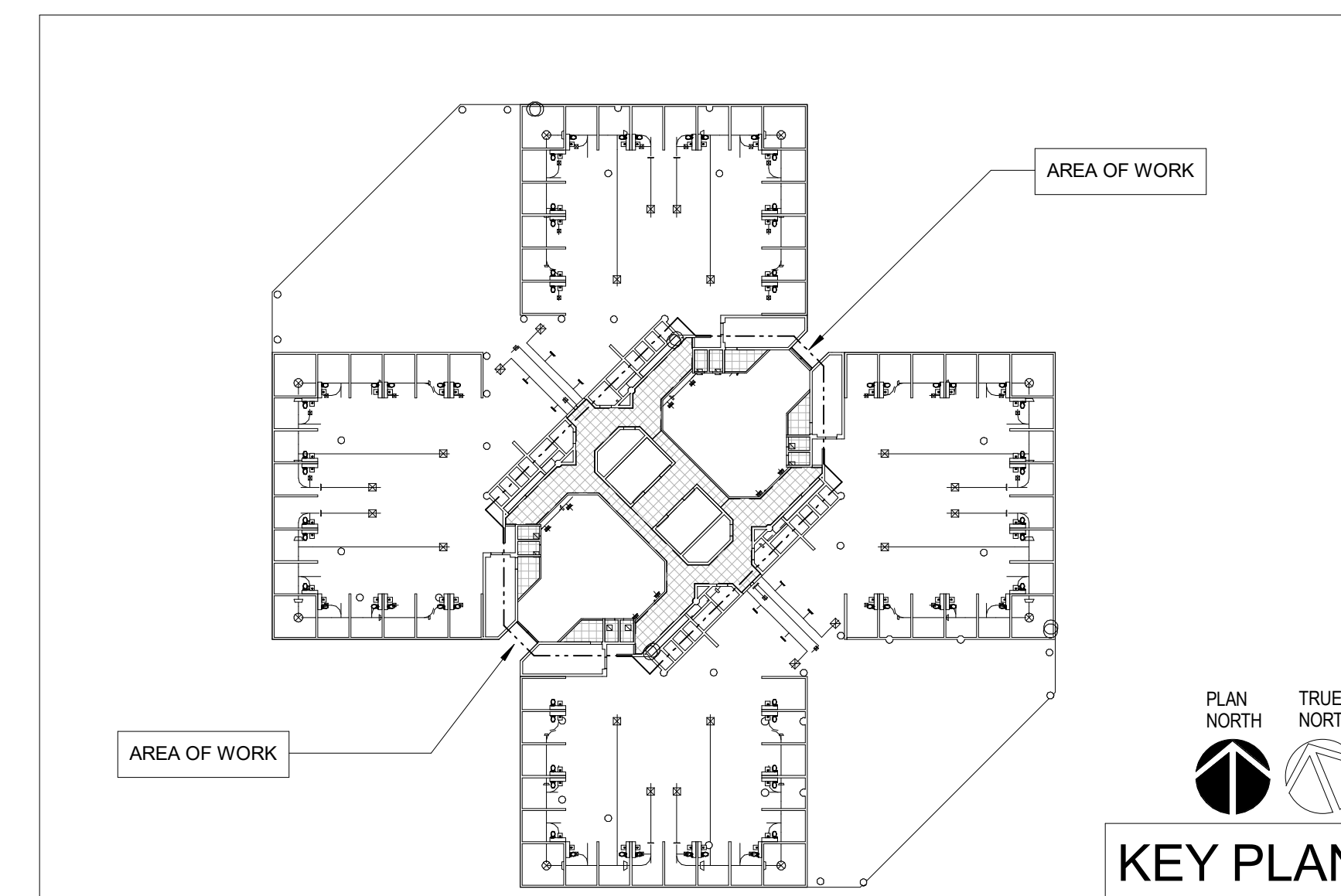
SCALE: 1/8" = 1'-0"



LEVEL 3 RCP AREA OF WORK - DEMOLITION

PLAN NORTH TRUE NORTH

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



GENERAL NOTES - DEMOLITION

- A DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- B THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- C THIS SHEET INDICATES GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED, NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- D DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, FLOORS, SLABS, EQUIPMENT, UTILITIES, ETC. AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- E CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO RE-ROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- F PRIOR TO START OF DEMOLITION, THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVE(S) TO IDENTIFY EXISTING ITEMS TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGED OR OTHERWISE NOT IN "LIKE NEW" CONDITION. THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS THAT ARE DAMAGED WHICH ARE IDENTIFIED AS "EXISTING TO REMAIN", "TO BE SALVAGED", AND/OR "TO BE REMOVED AND REINSTALLED DURING NEW CONSTRUCTION" SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- G WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- H PARTITIONS TO BE REMOVED SHALL BE REMOVED ENTIRELY, INCLUDING STUD BRACING, ETC. TO THE BOTTOM OF STRUCTURE, UNO.
- I CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.

DEMOLITION KEYNOTE LEGEND

- D12 EXISTING CEILING PANELS AND SUSPENSION GRID SYSTEM TO BE REMOVED. PREPARE ADJACENT SURFACES FOR NEW CONSTRUCTION.
- D13 EXISTING CEILING PANELS TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. TEMPORARILY DISMOUNT CEILING PANELS AND CEILING GRID AS NECESSARY TO FACILITATE NEW CONSTRUCTION.
- D15 EXISTING LIGHT FIXTURES, FIRE SPRINKLER HEADS, AUDIO SPEAKERS, SMOKE DETECTORS, HVAC SUPPLY & RETURN GRILLES, AND OTHER CEILING ITEMS TO REMAIN. ITEMS THAT CANNOT BE DISMOUNTED ARE TO BE SUPPORTED TEMPORARILY IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.



Client:



Consultants:



rhodes + brito
ARCHITECTS

AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648 - 7288
www.rhodesandbrito.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
AR0015108

Project:
OC CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:

01/13/17

Project Number:

15.OC.018

Drawn By:

DC

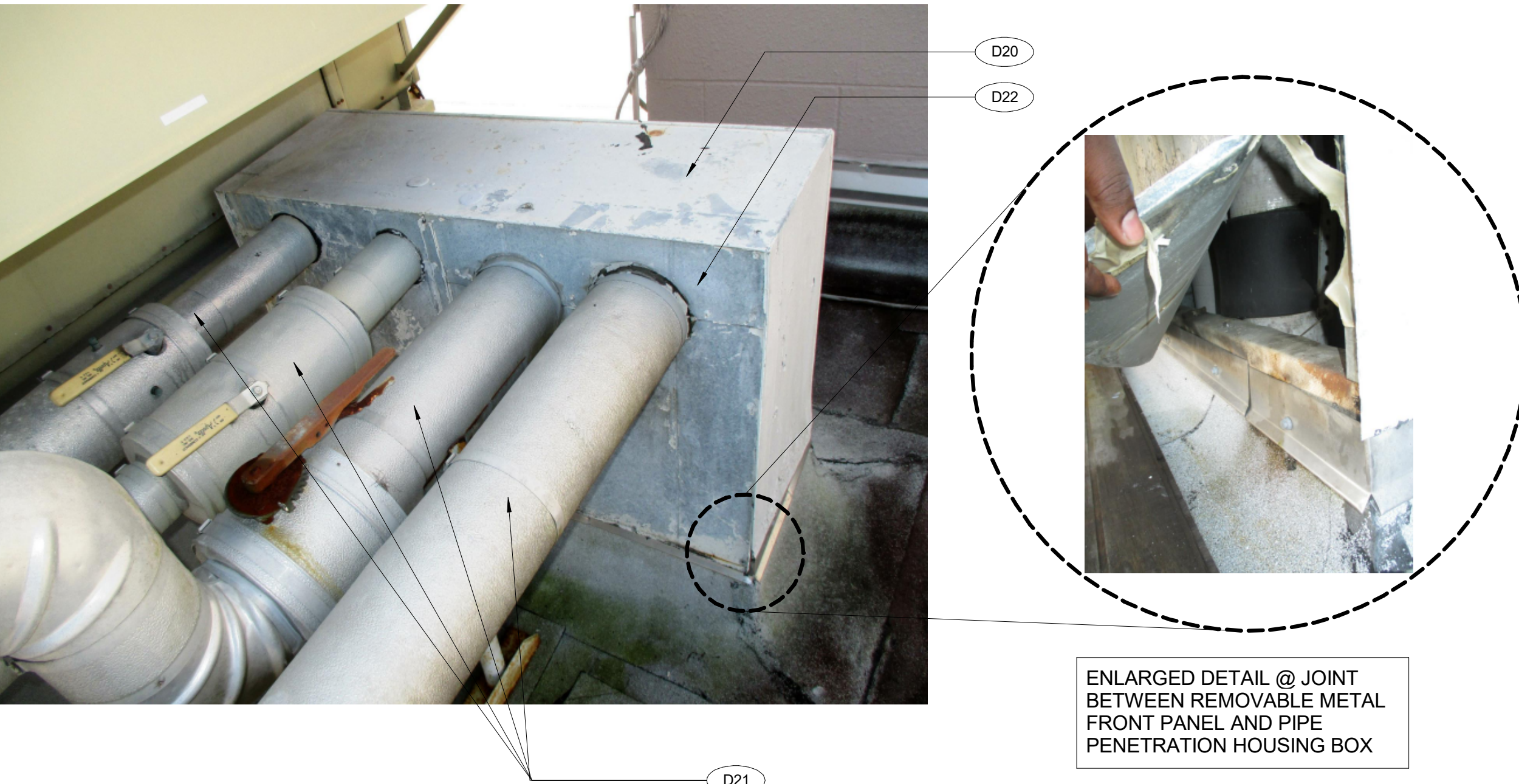
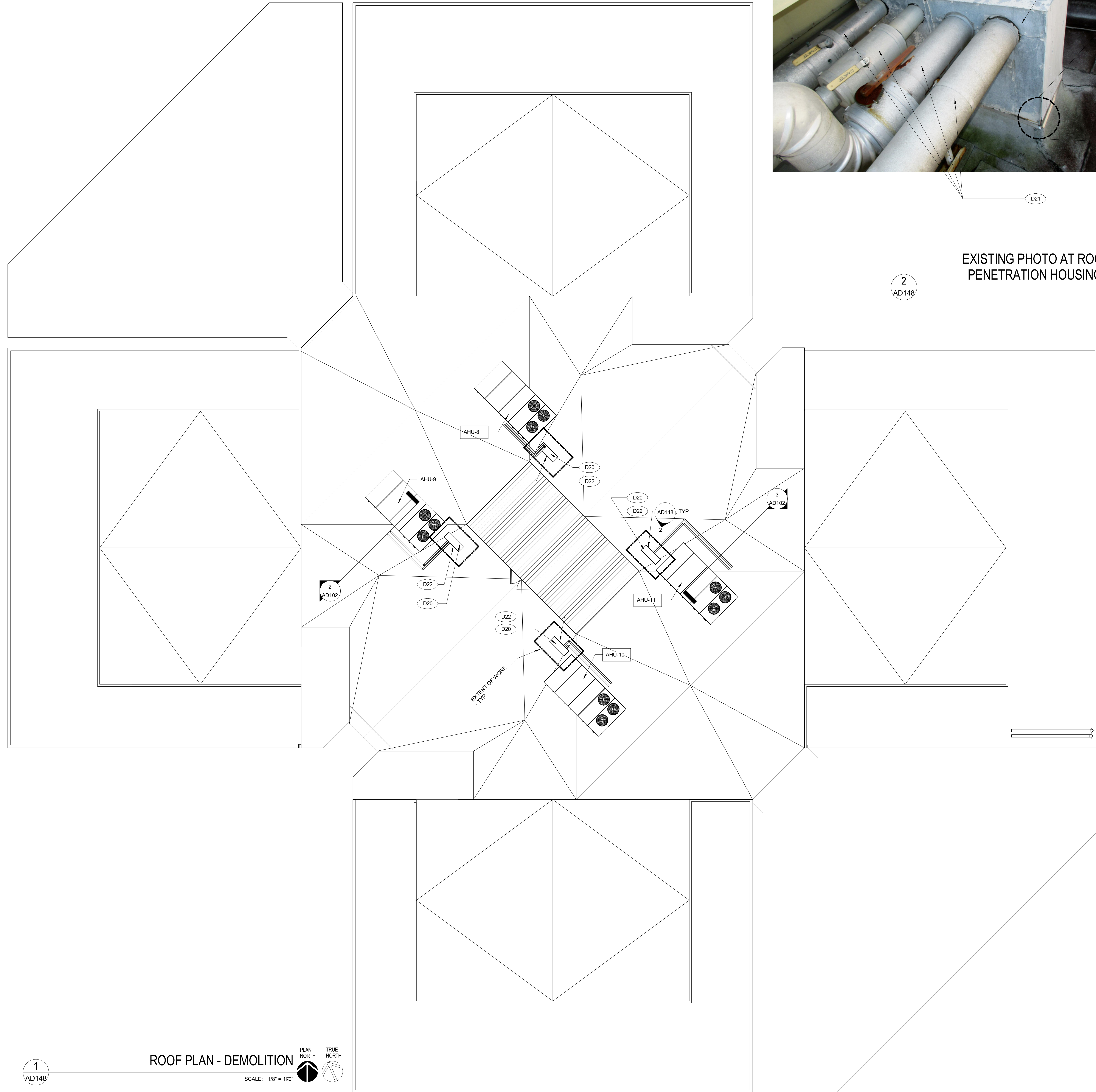
Checked By:

MB

LEVEL 3, 5, & 7
REFLECTED
CEILING PLAN -
DEMOLITION

Sheet No.:

AD123



ENLARGED DETAIL @ JOINT BETWEEN REMOVABLE METAL FRONT PANEL AND PIPE PENETRATION HOUSING BOX

EXISTING PHOTO AT ROOFTOP PIPE PENETRATION HOUSING BOX (TYP)
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES - DEMOLITION

- A DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- B THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- C THIS SHEET INDICATES GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED, NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- D DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, FLOORS, SLABS, EQUIPMENT, UTILITIES, ETC. AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- E CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO RE-ROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- F PRIOR TO START OF DEMOLITION, THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVE(S) TO IDENTIFY EXISTING ITEMS TO REMAIN. TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGED OR OTHERWISE NOT IN "LIKE NEW" CONDITION. THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS THAT ARE DAMAGED WHICH ARE IDENTIFIED AS "EXISTING TO REMAIN", "TO BE SALVAGED", AND/OR "TO BE REMOVED AND REINSTALLED DURING NEW CONSTRUCTION" SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- G WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- H PARTITIONS TO BE REMOVED SHALL BE REMOVED ENTIRELY, INCLUDING STUD BRACING, ETC. TO THE BOTTOM OF STRUCTURE, UNO.
- I CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS, AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.

DEMOLITION KEYNOTE LEGEND

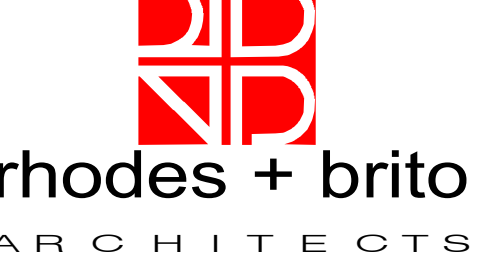
D20	EXISTING PIPE PENETRATION HOUSING BOX TO REMAIN. PATCH & REPAIR AND APPLY NEW SEALANT AS NECESSARY.
D21	EXISTING PIPING; REFER TO MECHANICAL DRAWINGS FOR DEMOLITION INFORMATION.
D22	EXISTING FRONT PANEL TO EXISTING PIPE PENETRATION BOX HOUSING TO BE REMOVED TO INSTALL PIPING IN NEW CONSTRUCTION. FRONT PANEL TO BE REPLACED WITH NEW METAL FABRICATED PANEL IN NEW CONSTRUCTION IF EXISTING HOLES IN PANEL CANNOT BE REUSED. NEW SEALANT APPLIED TO ALL PERIMETER EDGES OF FRONT PANEL AND AROUND JOINT BETWEEN NEW PIPE & HOUSING BOX FRONT PANEL IN NEW CONSTRUCTION.



Client:



Consultants:



AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648 - 7288
www.rbarchitects.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
AR0015108

Project:
OC CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
01/13/17

Project Number:
15.OC.018

Drawn By: DC Checked By: MB

ROOF PLAN - DEMOLITION

Sheet No.:

AD148

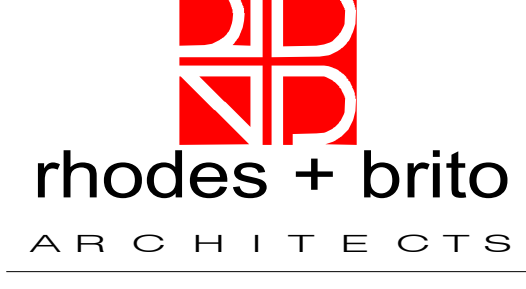
GENERAL NOTES - FLOOR PLAN

- A THESE DRAWINGS HAVE BEEN DEVELOPED FROM OBSERVED FIELD CONDITIONS AND MAY NOT REFLECT ALL HIDDEN CONDITIONS. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND SHALL VERIFY THESE DRAWINGS WITH THE EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS.
- B IT IS THE INTENT OF THIS FACILITY TO REMAIN OPERATIONAL FOR THE DURATION OF THIS PROJECT. ENSURE SAFETY OF ALL OCCUPANTS. DEMOLITION OF ITEMS WHICH MAY CREATE DUST, NOISE, OR CIRCULATION PROBLEMS SHOULD BE COORDINATED WITH OWNER PRIOR TO START OF WORK.
- C CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE DURING DEMOLITION AND SHALL BEAR ALL COSTS OF REPAIRING, REFINISHING, REPLACING, ETC. OF EXISTING ITEMS DAMAGED TO THEIR ORIGINAL STATE.
- D CONFORM TO ALL APPLICABLE CODES FOR DEMOLITION AND NEW WORK. FOR ADDITIONAL GENERAL NOTES, LEGENDS, AND SCHEDULES REFER TO SHEET 0001.
- E CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS AND FL PRODUCT APPROVALS FOR REVIEW BY THE DESIGN TEAM PRIOR TO FABRICATION OF ALL ASSEMBLIES.
- F COORDINATE ALL SHUT-DOWNS IN UTILITY SERVICE WITH OWNER PRIOR TO PERFORMING SHUT-DOWNS IN UTILITY SERVICE.
- G CONTRACTOR SHALL PATCH, INFILL, AND SEAL WALLS WHERE AIR DUCTS AND UTILITIES THAT PENETRATE WALLS WAS REMOVED. ALL INFILL AND SEALANTS SHALL CONFORM WITH THE EXISTING FIRE WALL AND SMOKE RATING REQUIREMENTS.
- H CONTRACTOR SHALL COORDINATE WITH THE CLIENT'S PROJECT MANAGER CONCERNING THE PROPER REMOVAL OF ALL DEBRIS ASSOCIATED WITH THE WORK.
- I MAINTAIN THE CONTINUITY OF CONSTRUCTION OF ALL FIRE-RATED ASSEMBLIES (I.E. DOORS, GYPSUM ENCLOSURES, SPRAYED FIRE PROOFING, ETC.) AT ALL EXISTING AND NEW LOCATIONS INCLUDING BUT NOT LIMITED TO STRUCTURAL COLUMNS, BEAMS, AND FLOOR SLABS.
- J ALL CORE DRILL LOCATIONS TO BE VERIFIED BY GC PRIOR TO DRILLING GC TO COORDINATE ALL FINAL CORE DRILL LOCATION WITH FURNITURE VENDOR.
- K CONTRACTOR TO FIELD VERIFY EXISTING PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM OWNER/ARCHITECT IF DISCREPANCIES BETWEEN EXISTING AND DRAWINGS.
- L IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB AND IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIAL SHALL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.
- M IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB AND IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIAL SHALL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

Client:



Consultants:



AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648 - 7288
www.rhodesbrito.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
AR0015108

Project:
OC CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
01/13/17

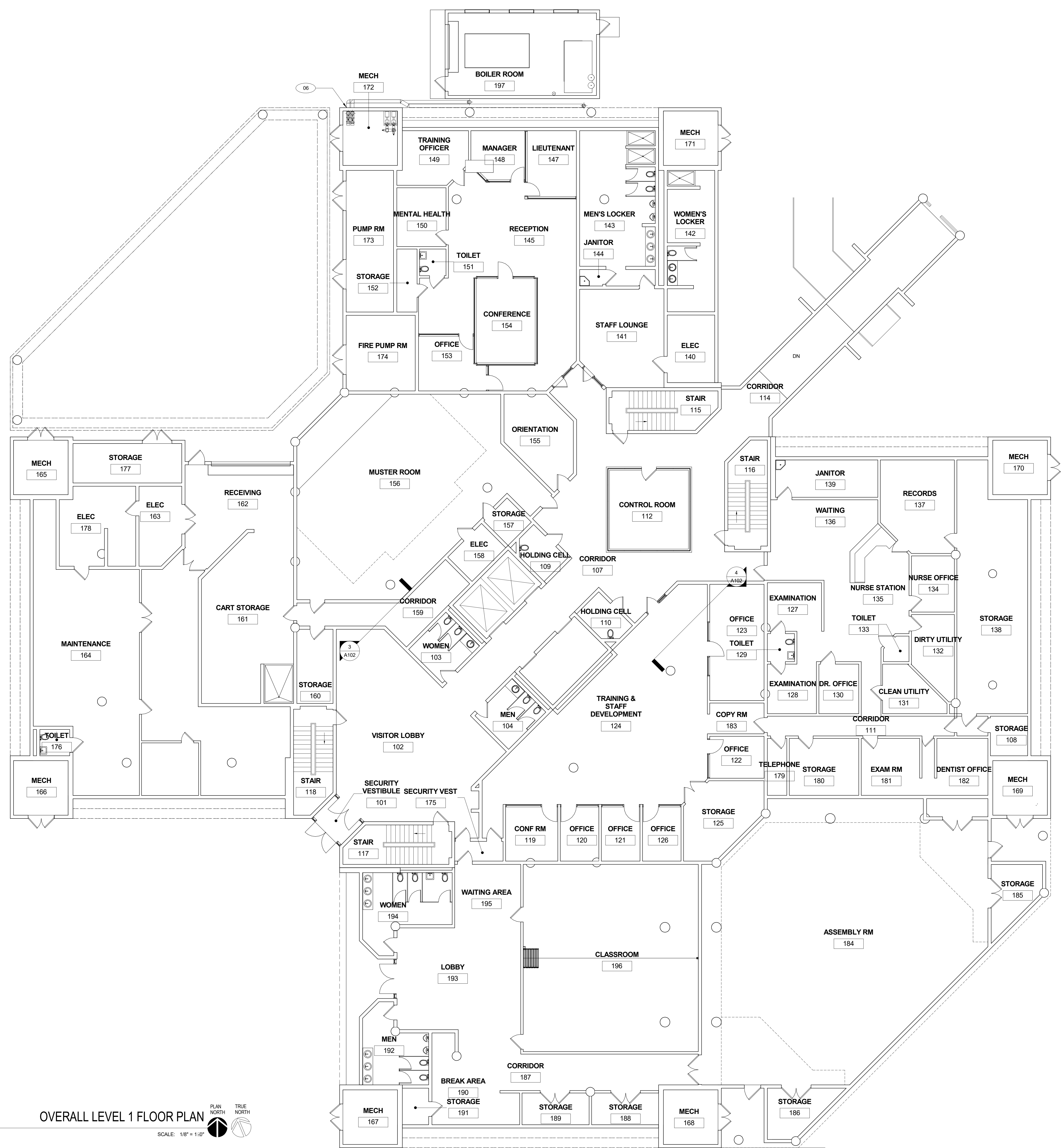
Project Number:
15.OC.018

Drawn By: DC
Checked By: MB

LEVEL 1 FLOOR PLAN

Sheet No.:

A101



1
A101
OVERALL LEVEL 1 FLOOR PLAN
SCALE: 1/8" = 1'-0"
PLAN NORTH TRUE NORTH

Revisions:

#	Date	Description

Date:
01/13/17

Project Number:
15.OC.018

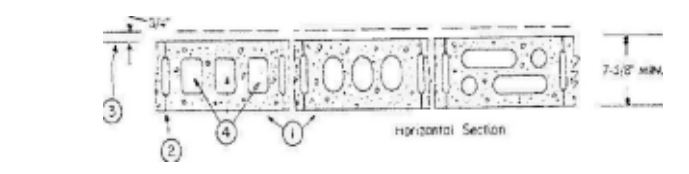
Drawn By: DC
Checked By: MB

LEVEL 2, 4, & 6
FLOOR PLAN

Sheet No.:

A102

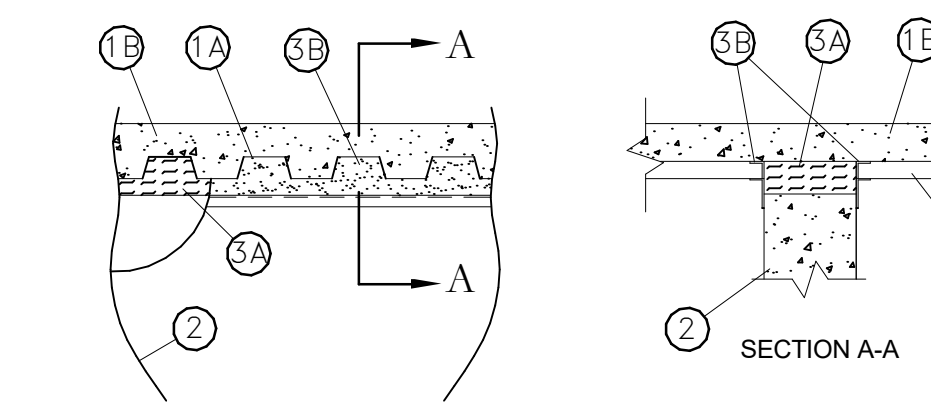
**BEARING WALL
RATING - 2 HR
NONBEARING WALL
RATING - 2 HR
DESIGN NO. U905**



- Concrete Blocks* - Various Designs, Classification D-2 (2 Hr). See Concrete Blocks Category For List Of Eligible Manufacturers.
- Mortar - Blocks Laid In Full Bed Of Mortar, Nom. 3/8 In. Thick, Of Not Less Than 2-1/4 And Not More Than 3-1/2 Parts Of Clean Sharp Sand To 1 Part Portland Cement (proportioned By Volume) And Not More Than 50 Percent Hydrated Lime (by Cement Volume). Vertical Joints Staggered.
- Portland Cement Stucco Or Gypsum Plaster - Add 1/2 Hr To Classification If Used. Where Combustible Members Are Framed In Wall, Plaster Or Stucco Must Be Applied On The Face Opposite Framing To Achieve A Max. Classification Of 1-1/2 Hr. Attached To Concrete Blocks (Item 1).
- Loose Masonry Fill - If All Core Spaces Are Filled With Loose Dry Expanded Slag, Expanded Clay Or Shale (rotary Kiln Process), Water Repellent Vermiculite Masonry Fill Insulation, Or Silicone Treated Perlite Loose Fill Insulation Add 2 Hr To Classification.
- Foamed Plastic* (optional-not shown) - 1-1/2 In. Thick Max. 4 Ft Wide Sheathing Attached To Concrete Blocks (Item 1). THE Dow Chemical Co.-Type Thermax

*Bearing the UL Classification Mark

SYSTEM NO. HW-D-0022
April 15, 2009
Assembly Rating 2 Hr
L Rating at Ambient Less than 1 CFM/Lin Ft.
L Rating at 400 F Less than 1 CFM/Lin Ft.
Nominal Joint Width 1 in.
Class II Movement Capabilities 19%
Compression or Extension.



- Floor Assembly - The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the material and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Steel Floor And Form Units* - Max 3 in. (76 mm) deep galv steel floor deck.
 - A1. Spray Applied Fire Resistive Material* (Optional, not shown) - Prior to the installation of the Forming Material and Fill, Void or Cavity Materials (Items 2A, 2B), the steel floor units may be sprayed with a min 5/16 in. (8 mm) thickness to max 11/16 in. (17 mm) thickness of fire resistive material.

- Concrete - Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

- Roof Assembly - (Not Shown) - As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
 - A. Steel Roof Deck - Max 3 in. (76 mm) deep galv steel fluted roof deck.
 - B. Roof Insulation - (P 900 Series) - Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.
 - C. Roof Insulation - Mineral and Fiber Board* - (P 700 Series) - Min 3/4 in. (19 mm) thick boards applied in one or more layers directly over steel or over gypsum board sheathing laid atop steel roof deck.
 - D. Spray Applied Fire Resistive Material* - (P700 Series, not shown) - Prior to the installation of the Deflective Channel, Forming Material and Fill, Void or Cavity Material (Items 2A, 2B, 2C), the steel floor units may be sprayed with a min 5/16 in. thickness to max 11/16 in. thickness of fire resistive material.

- Wall Assembly - Min 6-1/8 in. (156 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

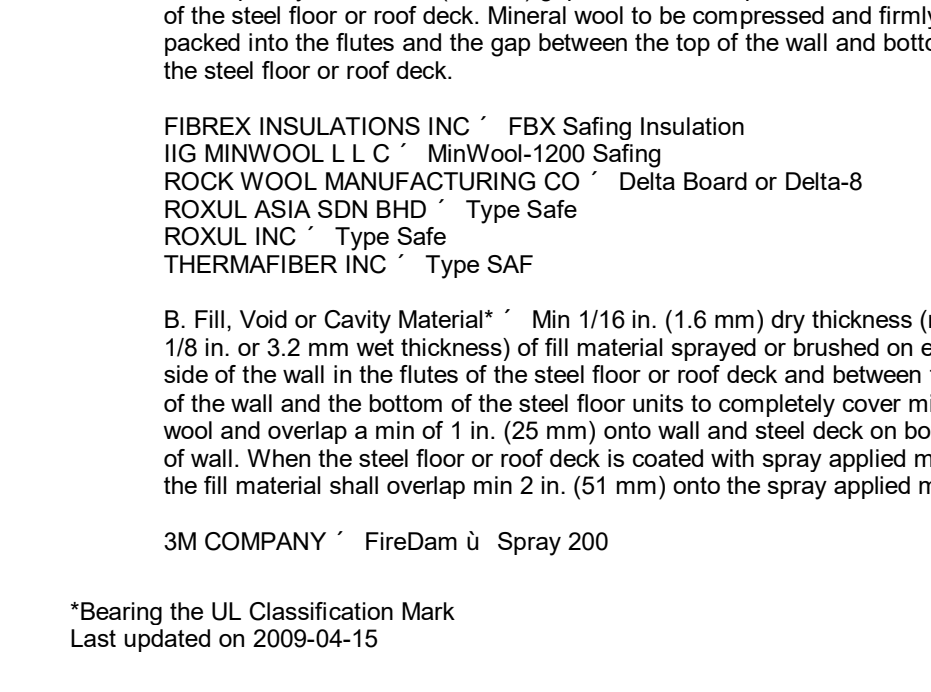
- Joint System - Max separation between bottom of floor and top of wall is 1 in. (25 mm). The joint system is designed to accommodate a max 19 percent compression or extension from its installed width. The joint system consists of a forming material and a fill material, as follows:
 - A. Forming Material* - Min 6-1/2 in. (165 mm) thickness of min 4 pcf (64 kg/m3) density mineral wool batt insulation cut to the shape of the fluted deck, approx 20 percent larger than the area of the flutes with additional min 6-1/2 in. (165 mm) thick by 1-3/8 in. (35 mm) high sections at the bottom of the shapes to completely fill the 1 in. (25 mm) gap between the top of the wall and bottom of the steel floor or roof deck. Mineral wool to be compressed and firmly packed into the flutes and the gap between the top of the wall and bottom of the steel floor or roof deck.

- FIBREX INSULATIONS INC - FBX Safing Insulation
IG MINWOOL L.L.C - MinWool-1200 Safing
ROCK WOOL MANUFACTURING CO - Delta Board or Delta-8
ROXUL ASIA SDN BHD - Type Safe
ROXUL INC - Type Safe
THERMABER INC - Type SAF

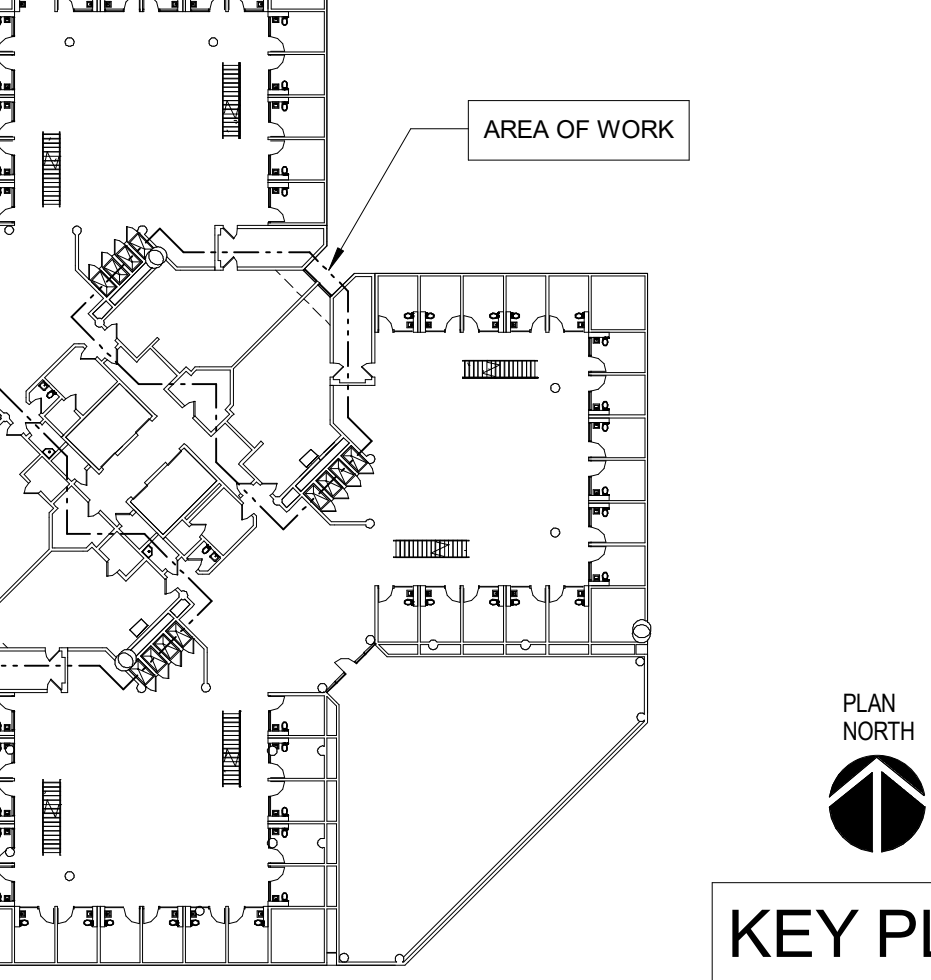
- Fill, Void or Cavity Material* - Min 1/8 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or brushed on each side of the wall in the flutes of the steel floor or roof deck and between the top of the wall and the bottom of the steel floor units to completely cover mineral wool and overlap a min of 1 in. (25 mm) onto wall and steel deck on both sides of wall. When the steel floor or roof deck is coated with spray applied material, the fill material shall overlap min 2 in. (51 mm) onto the spray applied material.

- 3M COMPANY - FireDam II Spray 200

*Bearing the UL Classification Mark
Last updated on 2009-04-15



PLAN NORTH
TRUE NORTH

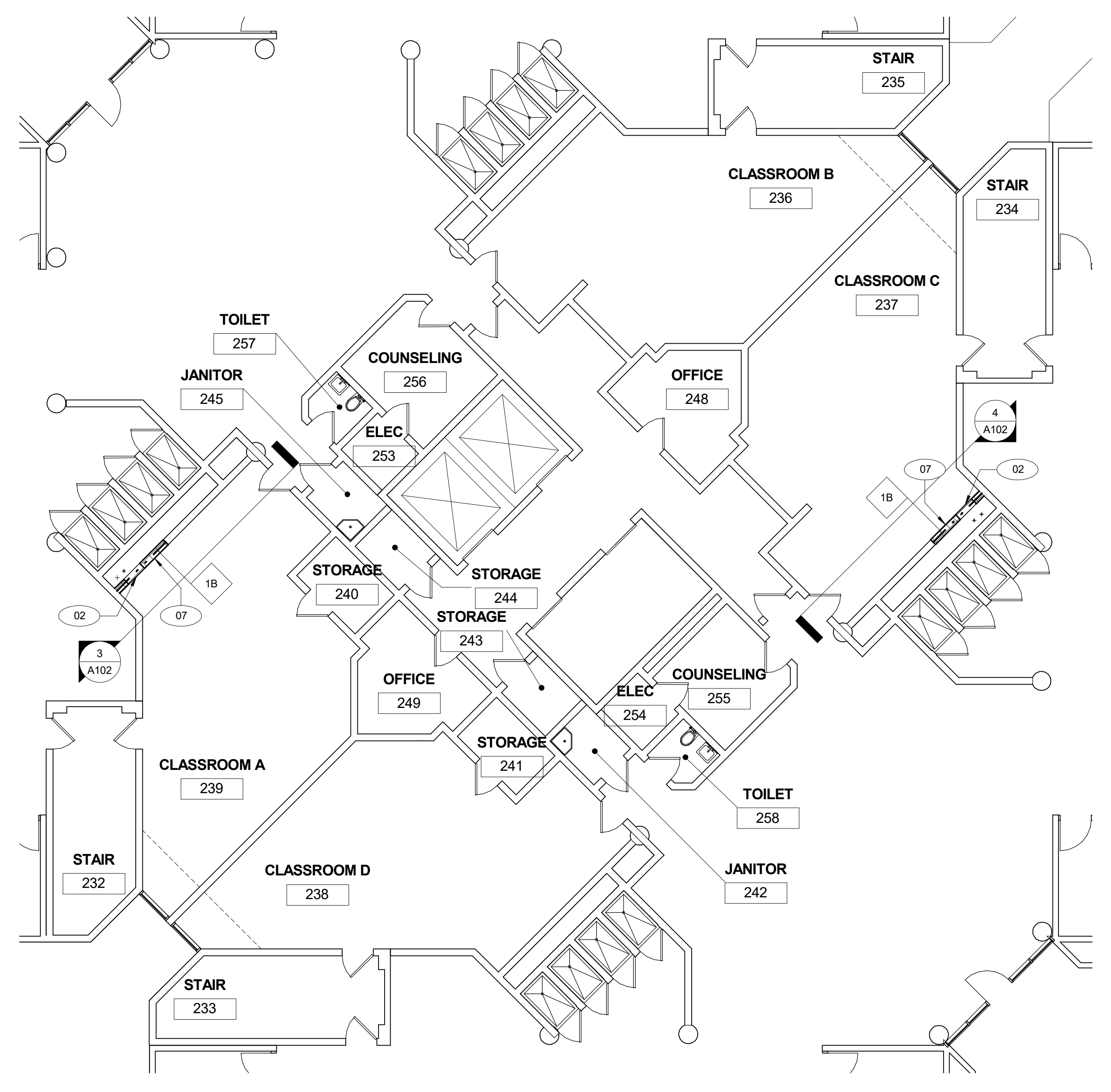


BUILDING SECTION A

BUILDING SECTION C

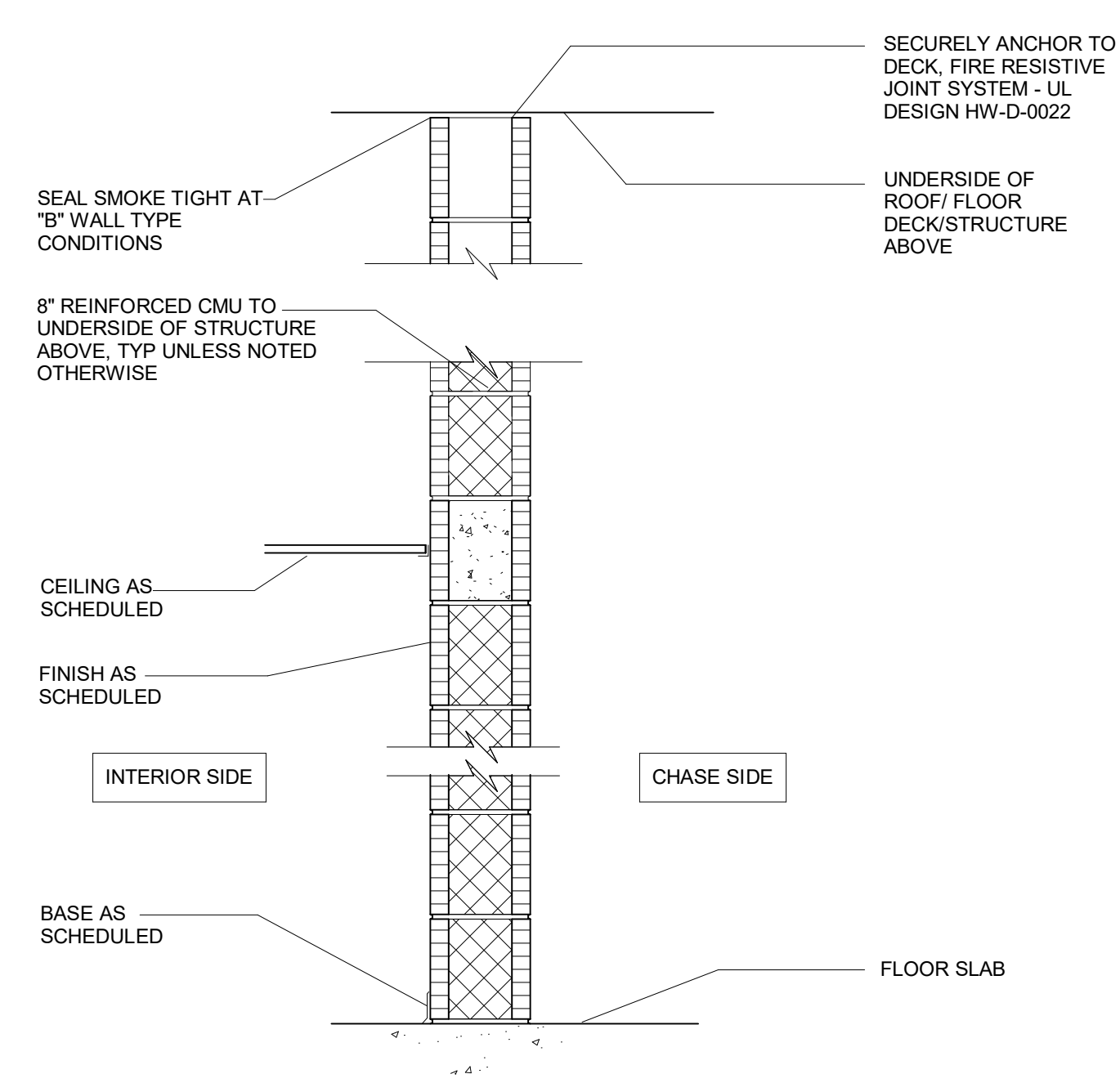
SCALE: 1/8" = 1'-0"

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



LEVEL 2 FLOOR PLAN AREA OF WORK - (TYP OF LEVEL 4 & 6)

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

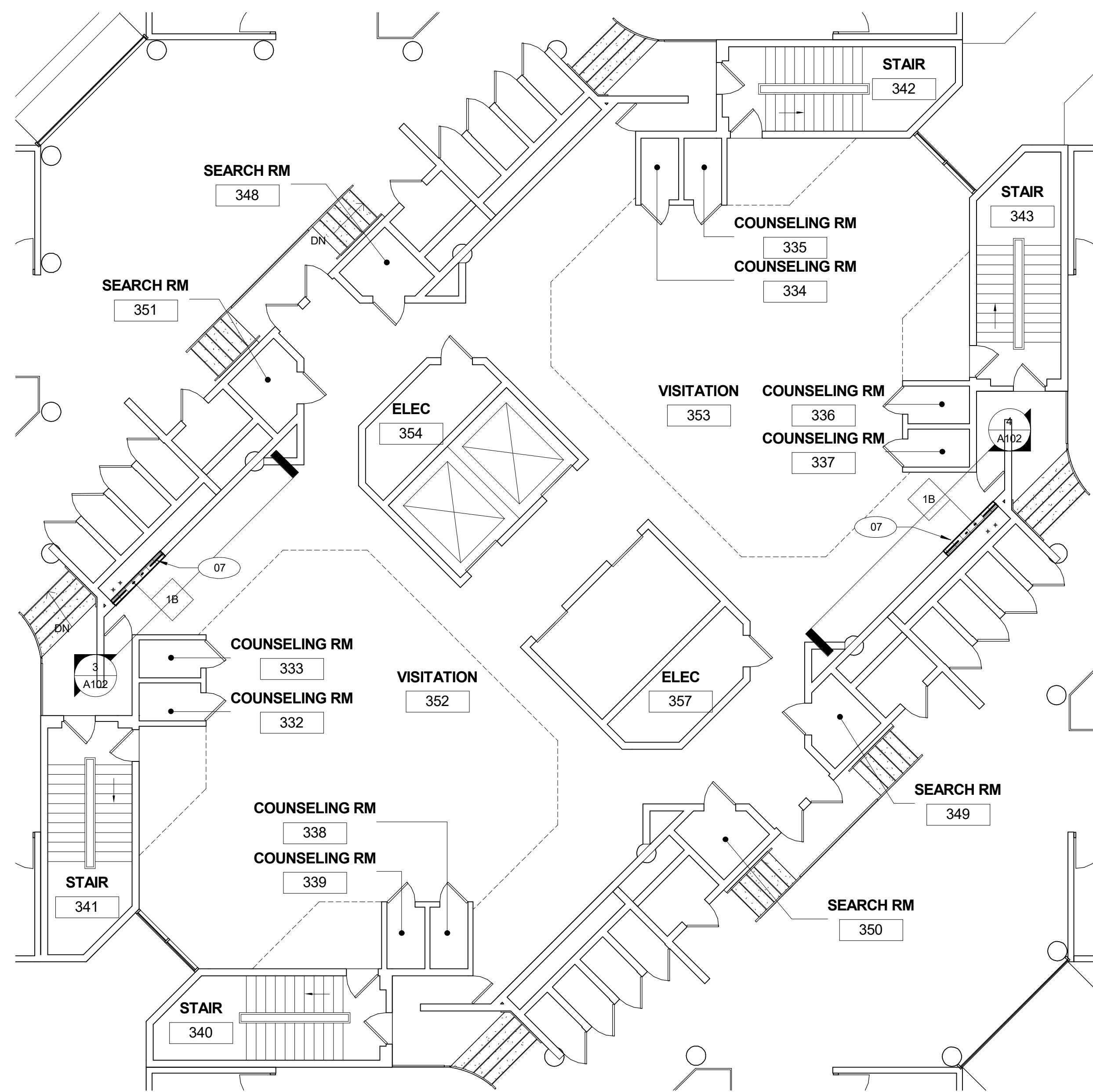


TYPE

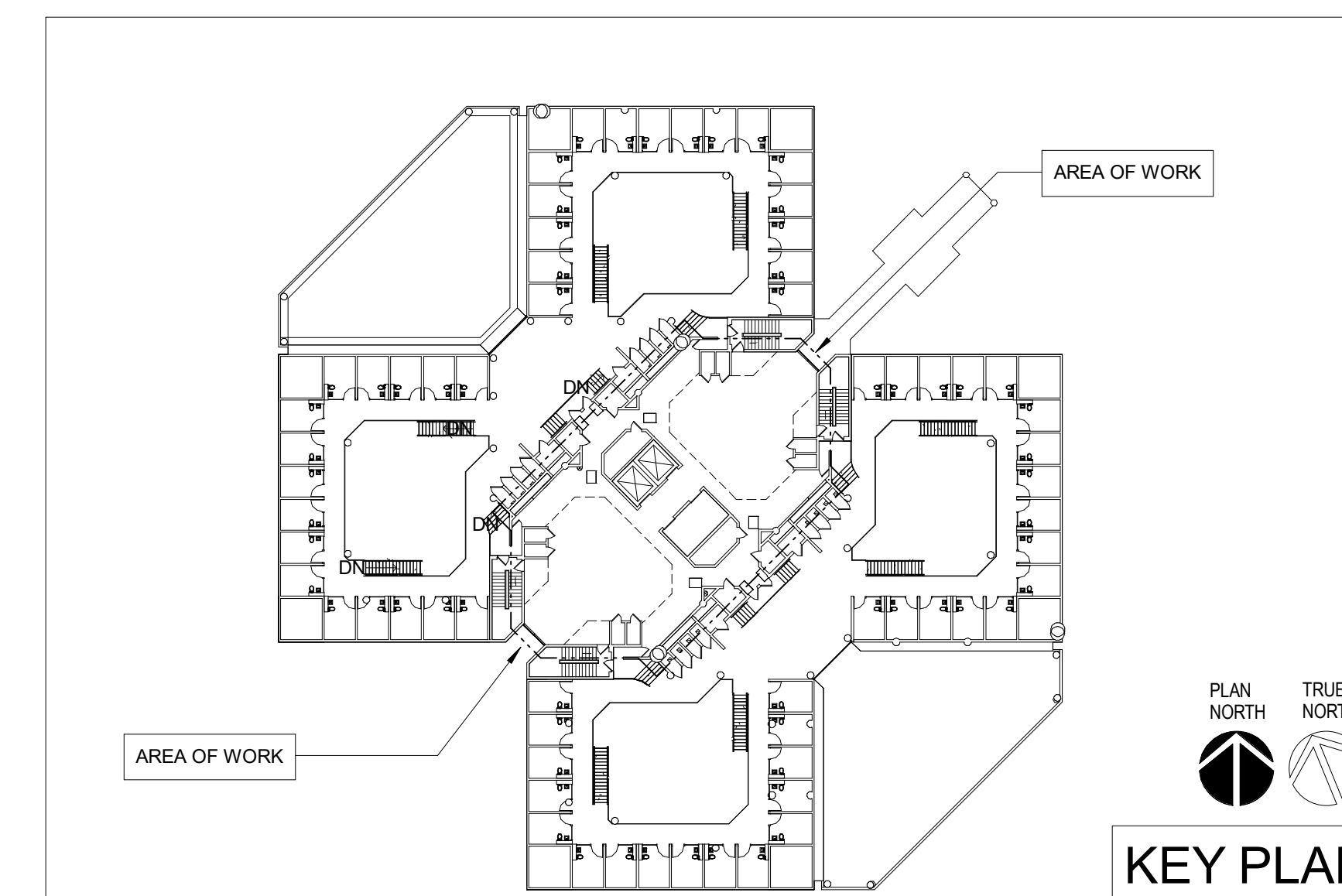
TYPE	DESCRIPTION	WIDTH	REF DESIGN	STC
A	8" CMU, NOT RATED	7 5/8"	UL #905	45
B	2HR RATED SMOKE BARRIER, 8"CMU	7 5/8"	UL #905	45

PARTITION TYPE

SCALE: 1" = 1'-0"



LEVEL 3 AREA OF WORK - (TYP OF LEVEL 5 & 7)
 PLAN NORTH TRUE NORTH
 SCALE: 1/8" = 1'-0"



GENERAL NOTES - FLOOR PLAN

- A THESE DRAWINGS HAVE BEEN DEVELOPED FROM OBSERVED FIELD CONDITIONS AND MAY NOT REFLECT ALL HIDDEN CONDITIONS. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND SHALL VERIFY THESE DRAWINGS WITH THE EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS.
- B IT IS THE INTENT OF THIS FACILITY TO REMAIN OPERATIONAL FOR THE DURATION OF THIS PROJECT. ENSURE SAFETY OF ALL OCCUPANTS. DEMOLITION OF ITEMS WHICH MAY CREATE DUST, NOISE, OR CIRCULATION PROBLEMS SHOULD BE COORDINATED WITH OWNER PRIOR TO START OF WORK.
- C CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE DURING DEMOLITION AND SHALL BEAR ALL COSTS OF REPAIRING, REFINISHING, REPLACING, ETC. OF EXISTING ITEMS DAMAGED TO THEIR ORIGINAL STATE.
- D CONFORM TO ALL APPLICABLE CODES FOR DEMOLITION AND NEW WORK. FOR ADDITIONAL GENERAL NOTES, LEGENDS, AND SCHEDULES REFER TO SHEET 0001.
- E CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS AND FL PRODUCT APPROVALS FOR REVIEW BY THE DESIGN TEAM PRIOR TO FABRICATION OF ALL ASSEMBLIES.
- F COORDINATE ALL SHUT-DOWNS IN UTILITY SERVICE WITH OWNER PRIOR TO PERFORMING SHUT-DOWNS IN UTILITY SERVICE.
- G CONTRACTOR SHALL PATCH, INFILL, AND SEAL WALLS WHERE AIR DUCTS AND UTILITIES THAT PENETRATE WALLS WAS REMOVED. ALL INFILL AND SEALANTS SHALL CONFORM WITH THE EXISTING FIRE WALL AND SMOKE RATINGS REQUIREMENTS.
- H CONTRACTOR SHALL COORDINATE WITH THE CLIENT'S PROJECT MANAGER CONCERNING THE PROPER REMOVAL OF ALL DEBRIS ASSOCIATED WITH THE WORK.
- I MAINTAIN THE CONTINUITY OF CONSTRUCTION OF ALL FIRE-RATED ASSEMBLIES (I.E. DOORS, GYPSUM ENCLOSURES, SPRAYED FIRE PROOFING, ETC.) AT ALL EXISTING AND NEW LOCATIONS INCLUDING BUT NOT LIMITED TO STRUCTURAL COLUMNS, BEAMS, AND FLOOR SLABS.
- J ALL CORE DRILL LOCATIONS TO BE VERIFIED BY GC PRIOR TO DRILLING GC TO COORDINATE ALL FINAL CORE DRILL LOCATION WITH FURNITURE VENDOR.
- K CONTRACTOR TO FIELD VERIFY EXISTING PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM OWNER/ARCHITECT IF DISCREPANCIES BETWEEN EXISTING AND DRAWINGS.
- L IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB AND IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIAL SHALL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.
- M IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB AND IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIAL SHALL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

KEYNOTE LEGEND

- 07 NEW PORTION OF RATED PARTITION - SEE SHEET A102 FOR PARTITION TYPE INFORMATION.



Client:



Consultants:



rhodes + brito
ARCHITECTS

AA0002809
 605 E. ROBINSON STREET, SUITE 750
 ORLANDO, FL 32801
 PH (407) 648 - 7288
 www.rbarchitects.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
 AR0015108

Project:
 OC CORRECTIONS
 HORIZONS AHU HOT
 WATER REPLACEMENT

Location:
 3723 VISION BLVD,
 ORLANDO FL 32839

Issuance:
 PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
 01/13/17

Project Number:
 15.OC.018

Drawn By: DC Checked By: MB

**LEVEL 3, 5, & 7
 FLOOR PLAN**

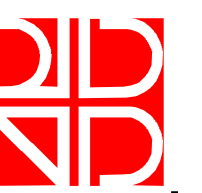
Sheet No.:

A103

Client:



Consultants:



rhodes + brito
ARCHITECTS

AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648 - 7288
www.rhodesbrito.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
AR0015108

Project:
OC CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
01/13/17

Project Number:
15.OC.018

Drawn By: DC
Checked By: MB

LEVEL 1
REFLECTED
CEILING PLAN

Sheet No.:

A121

GENERAL NOTES - CEILING PLAN

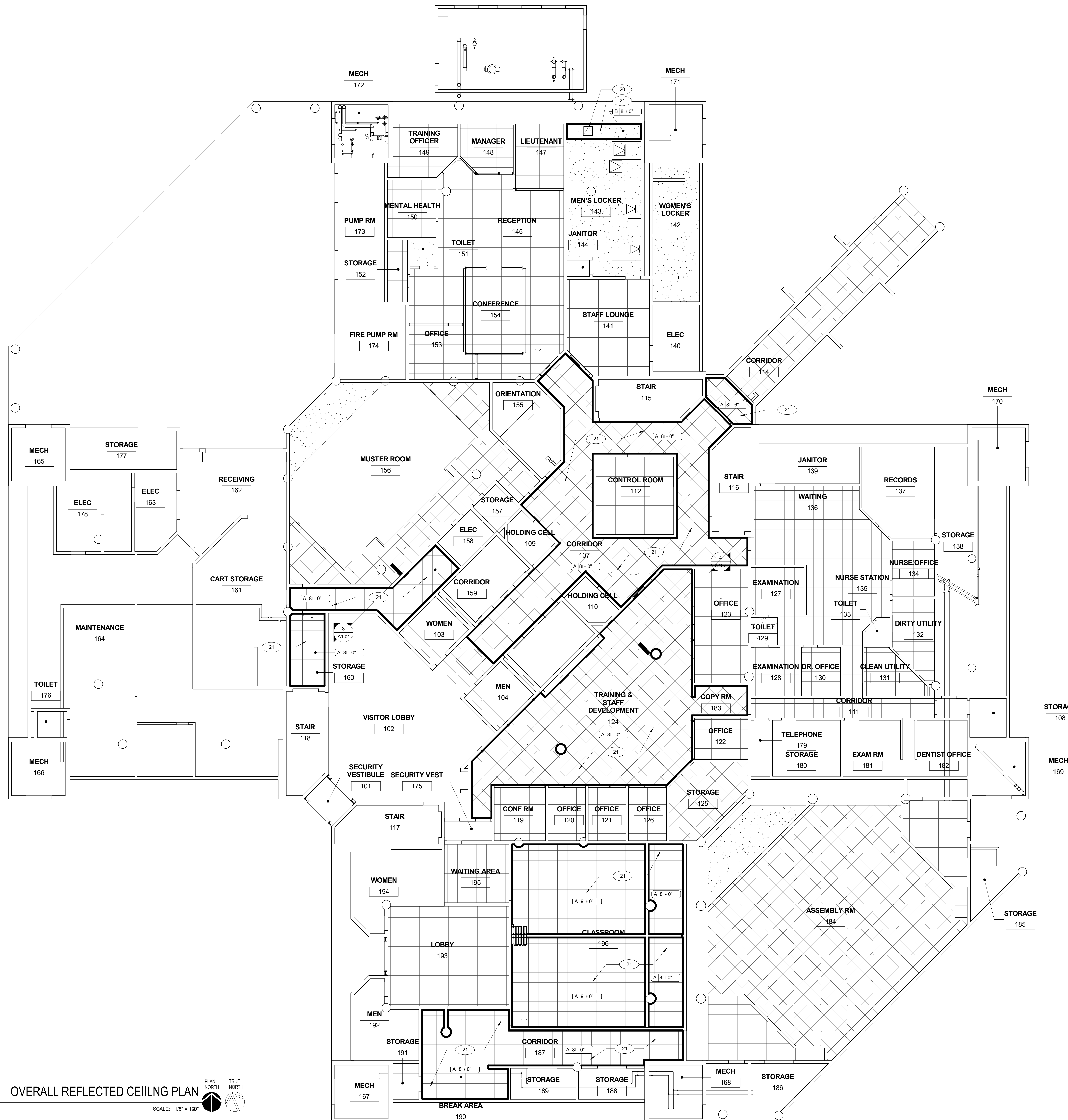
- A CONTRACTOR TO PROTECT EXISTING MECHANICAL UNITS AND DUCTWORK TO REMAIN DURING EXTENT OF CONSTRUCTION. COORDINATE WITH ENGINEER DRAWINGS & SPECIFICATION MANUAL.
- B FOR EXISTING CEILING TO REMAIN, GC TO REPLACE TILES OF CEILING THAT IS DAMAGED DURING CONSTRUCTION. MATCH EXISTING TILE.
- C CONTRACTOR TO COORDINATE THE ALIGNMENT OF THE CEILING GRID AND PARTITIONS.
- D ACCESS PANELS SHALL BE IDENTIFIED TO ARCHITECT PRIOR TO THE INSTALLATION IF REQUIRED.
- E CEILING HEIGHTS TO BE COORDINATED WITH MECHANICAL UNITS, FIRE SPRINKLERS, STRUCTURAL BEAMS, AND LIGHT FIXTURES AGAINST EXISTING CONDITIONS. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.
- F ALL CEILINGS TO MATCH HEIGHTS OF EXISTING, UNO.

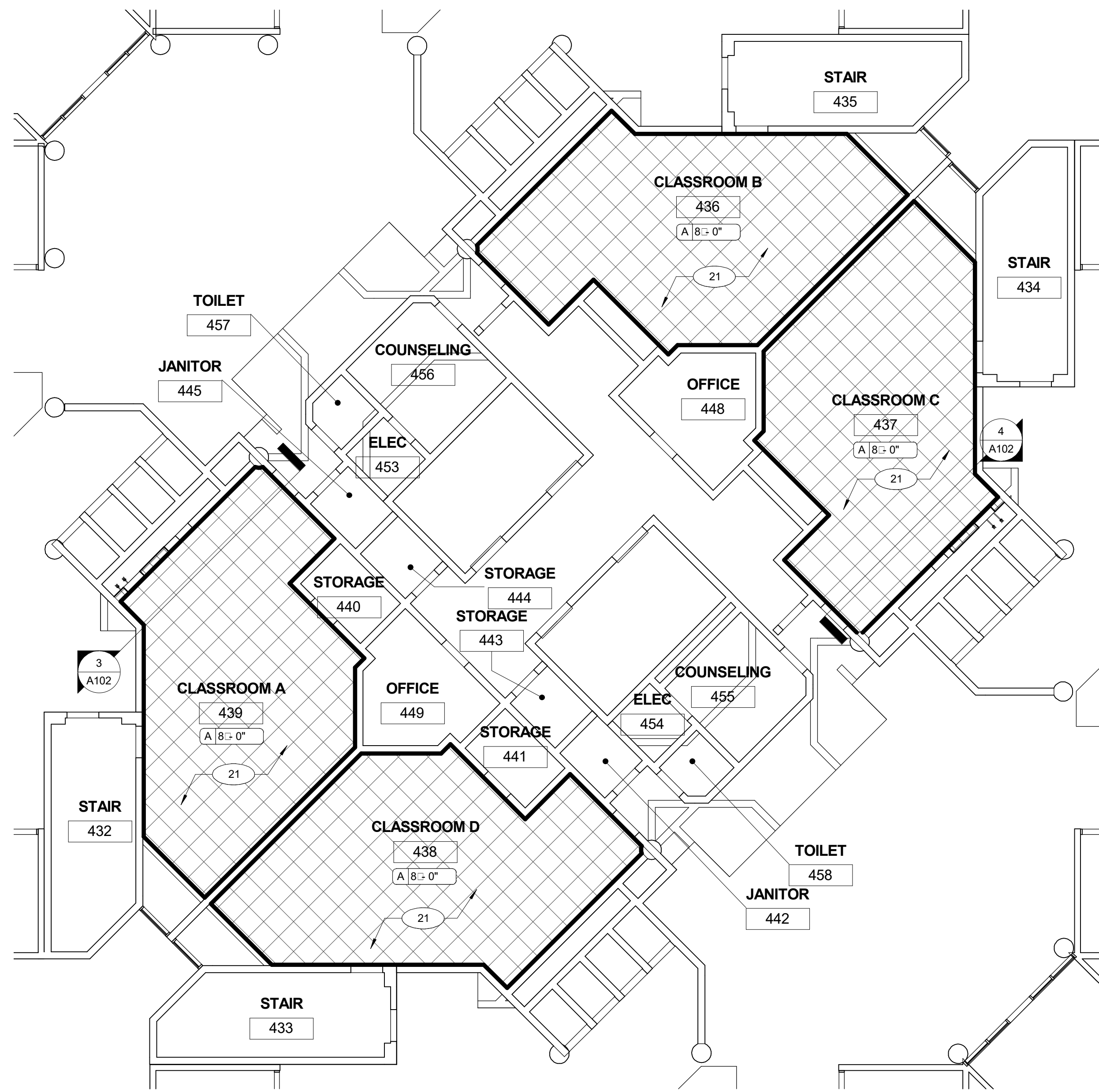
KEYNOTE LEGEND

- 20 NEW SECURITY ACCESS DOOR, AP1, 24" X 24". FINAL LOCATION TO BE COORDINATED WITH MECHANICAL VALVE(S), ETC... BY CONTRACTOR.
- 21 NEW CEILING OR CEILING PANELS & EXPOSED GRID SUSPENSION SYSTEMS - SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REFLECTED CEILING LEGEND

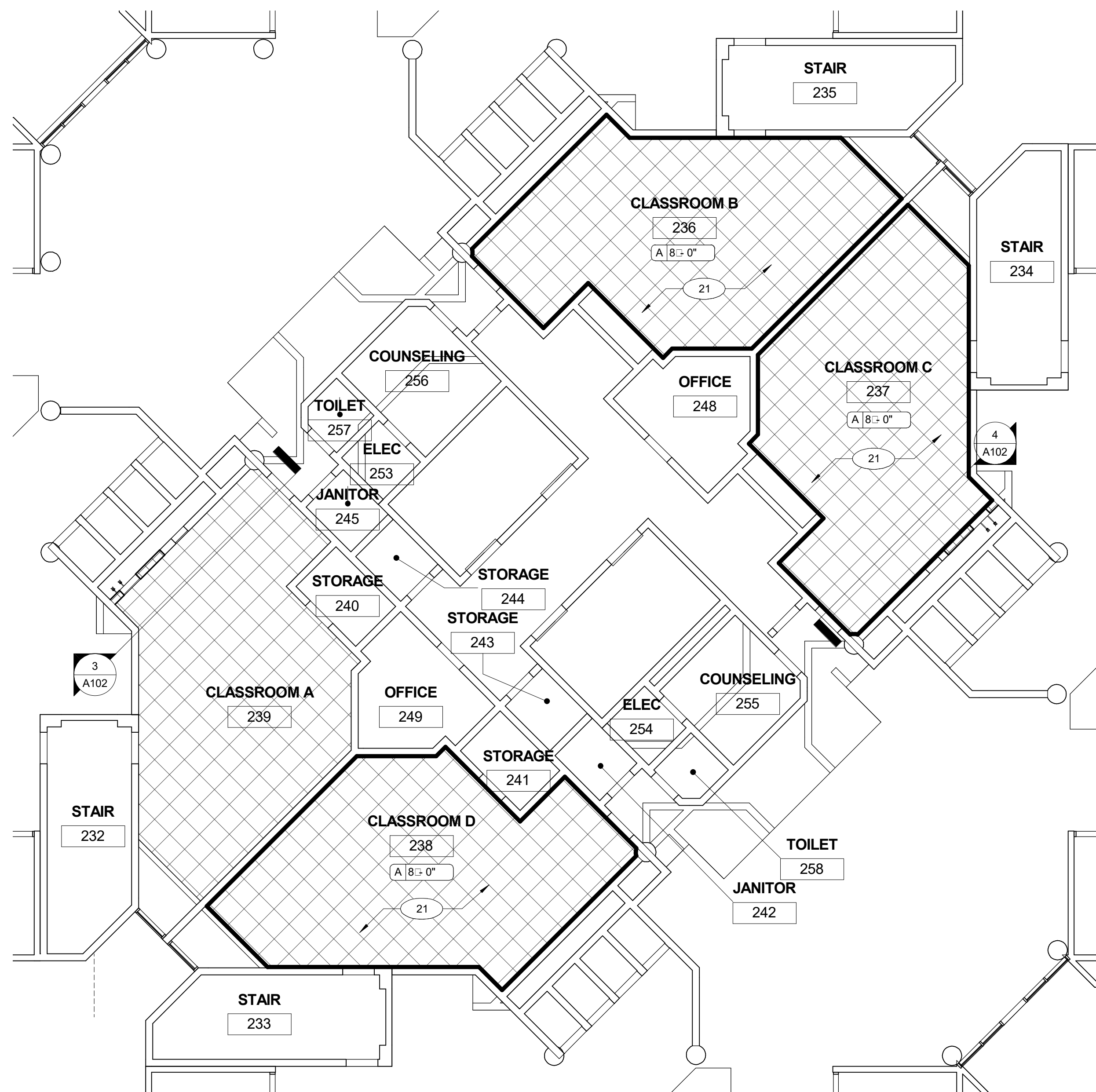
- 2x2 RECESSED DIRECT / INDIRECT LED TROFFER
- 4' SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 8' SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 4' RECESSED LINEAR LED DIRECT WALL WASH FIXTURE
- 12" APERTURE DECORATIVE ALUMINUM PENDANT
- 3.0' DIRECT / INDIRECT SWEEPING CURVE LED LINEAR PENDANT
- 4' FLUORESCENT INDUSTRIAL STRIP LIGHT FIXTURE
- 6" DOWNLIGHT CEILING FIXTURE
- SECURITY CAMERA
- WIRELESS ACCESS POINT
- WALL MOUNTED EXIT SIGN LIGHT FIXTURE
- CEILING MOUNTED EXIT SIGN LIGHT
- WALL MOUNTED STROBE LIGHT
- WALL MOUNTED HORN STROBE LIGHT
- EXHAUST FAN
- HVAC DIFFUSER
- HVAC RETURN AIR
- ACCESS PANEL
- 2x2 CEILING GRID
- GYP. BD CEILING





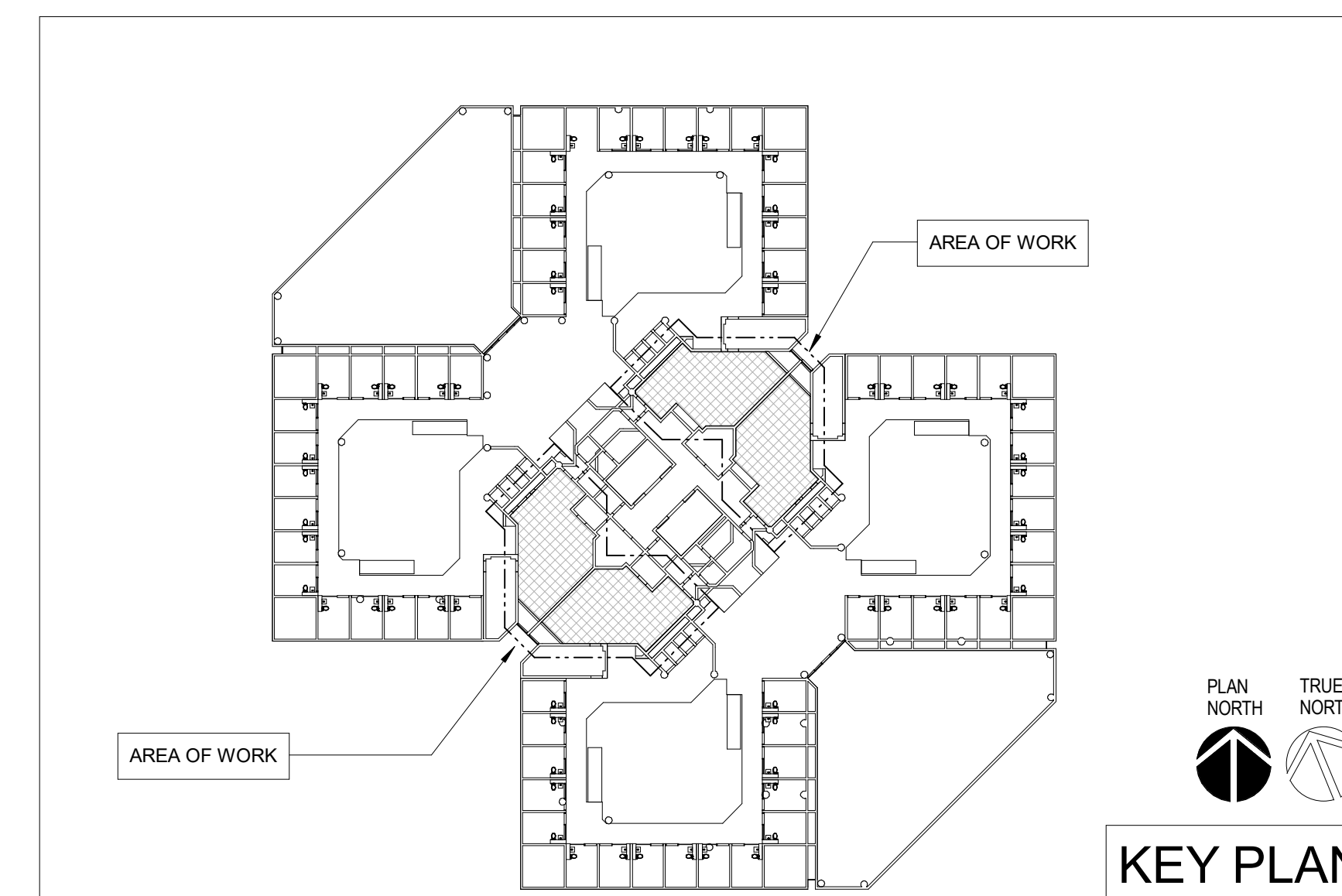
LEVEL 4 RCP AREA OF WORK - (TYP OF LEVEL 6)
 PLAN NORTH TRUE NORTH
 SCALE: 1/8" = 1'-0"

2
A122



LEVEL 2 RCP AREA OF WORK
 PLAN NORTH TRUE NORTH
 SCALE: 1/8" = 1'-0"

1
A122



GENERAL NOTES - CEILING PLAN

- A CONTRACTOR TO PROTECT EXISTING MECHANICAL UNITS AND DUCTWORK TO REMAIN DURING EXTENT OF CONSTRUCTION. COORDINATE WITH ENGINEER DRAWINGS & SPECIFICATION MANUAL.
- B FOR EXISTING CEILING TO REMAIN, GC TO REPLACE TILES OF CEILING THAT IS DAMAGED DURING CONSTRUCTION. MATCH EXISTING TILE.
- C CONTRACTOR TO COORDINATE THE ALIGNMENT OF THE CEILING GRID AND PARTITIONS.
- D ACCESS PANELS SHALL BE IDENTIFIED TO ARCHITECT PRIOR TO THE INSTALLATION IF REQUIRED.
- E CEILING HEIGHTS TO BE COORDINATED WITH MECHANICAL UNITS, FIRE SPRINKLERS, STRUCTURAL BEAMS, AND LIGHT FIXTURES AGAINST EXISTING CONDITIONS. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.
- F ALL CEILINGS TO MATCH HEIGHTS OF EXISTING, UNO.



Client:



Consultants:



rhodes + brito
ARCHITECTS

AA0002809
 605 E. ROBINSON STREET, SUITE 750
 ORLANDO, FL 32801
 PH (407) 648 - 7288
 www.rbarchitects.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
 ARO015108

Project:
 OC CORRECTIONS
 HORIZONS AHU HOT
 WATER REPLACEMENT

Location:
 3723 VISION BLVD,
 ORLANDO FL 32839

Issuance:
 PERMIT DOCUMENTS

KEYNOTE LEGEND

- 21 NEW CEILING OR CEILING PANELS & EXPOSED GRID SUSPENSION SYSTEMS - SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REFLECTED CEILING LEGEND

- 2x2 RECESSED DIRECT / INDIRECT LED TROFFER
- 4 SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 8 SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 4 RECESSED LINEAR LED DIRECT WALL WASH FIXTURE
- 12" APERTURE DECORATIVE ALUMINUM PENDANT
- 3.25" DIRECT/INDIRECT SWEEPING CURVE LED LINEAR PENDANT
- 4 FLUORESCENT INDUSTRIAL STRIP LIGHT FIXTURE
- 6" DOWNLIGHT CEILING FIXTURE
- SECURITY CAMERA
- WIRELESS ACCESS POINT
- WALL MOUNTED EXIT SIGN LIGHT FIXTURE
- CEILING MOUNTED EXIT SIGN LIGHT
- WALL MOUNTED STROBE LIGHT
- WALL MOUNTED HORN STROBE LIGHT
- EXHAUST FAN
- HVAC DIFFUSER
- HVAC RETURN AIR
- ACCESS PANEL
- 2x2 CEILING GRID
- GYP. BD CEILING

Revisions:

#	Date	Description

Date:
 01/13/17

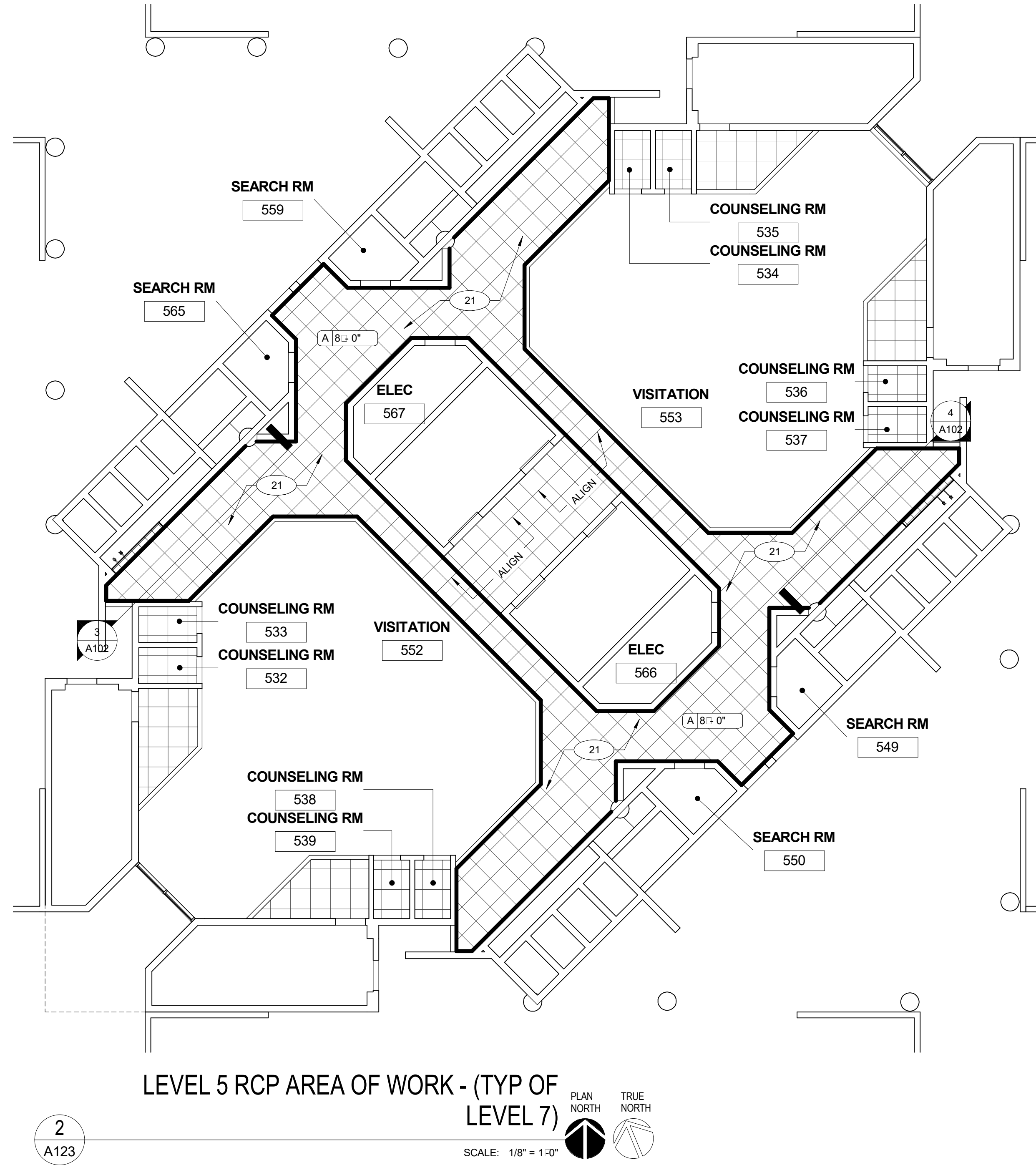
Project Number:
 15.OC.018

Drawn By: DC
 Checked By: MB

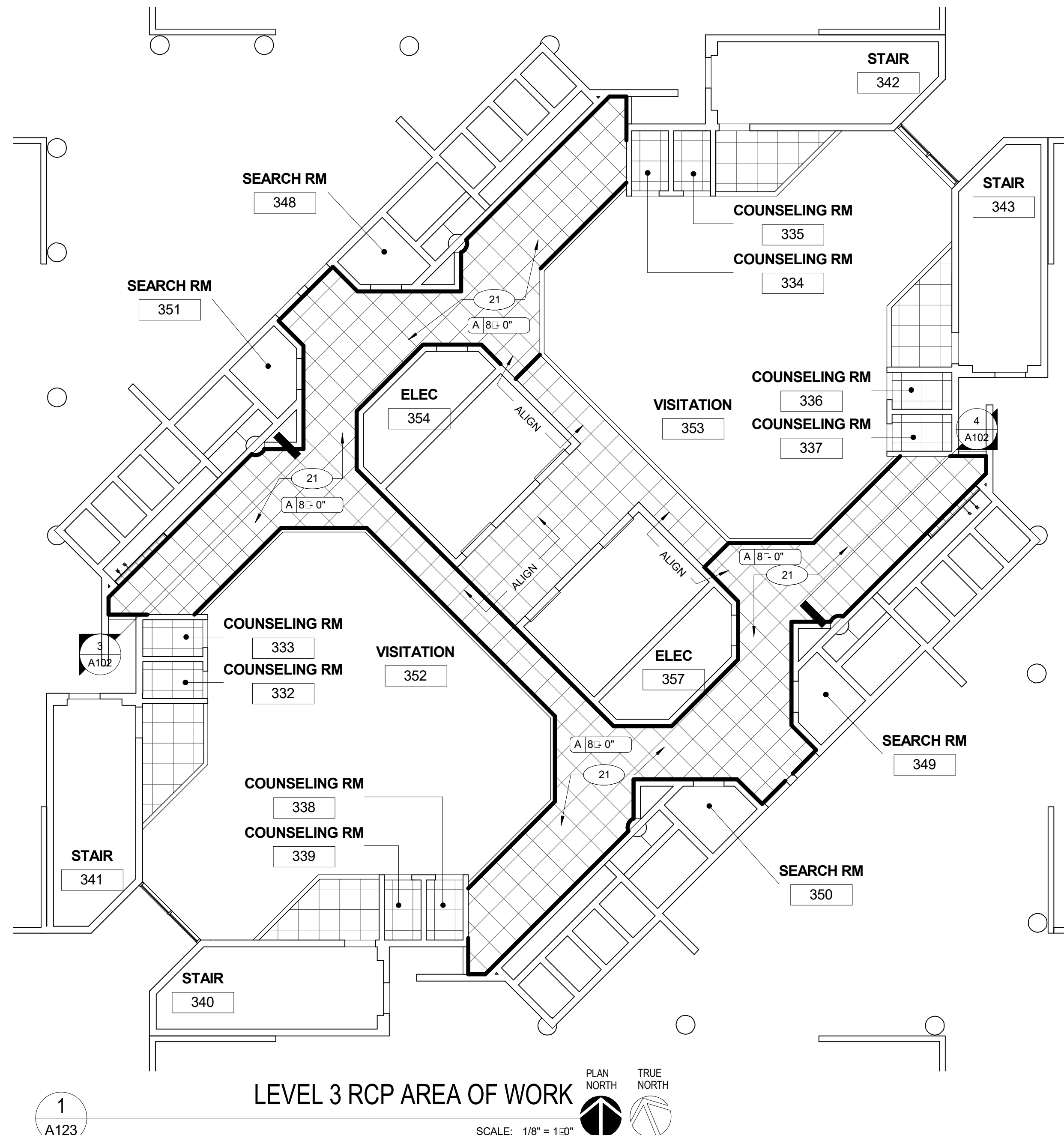
**LEVEL 2, 4, & 6
 REFLECTED
 CEILING PLAN**

Sheet No.:

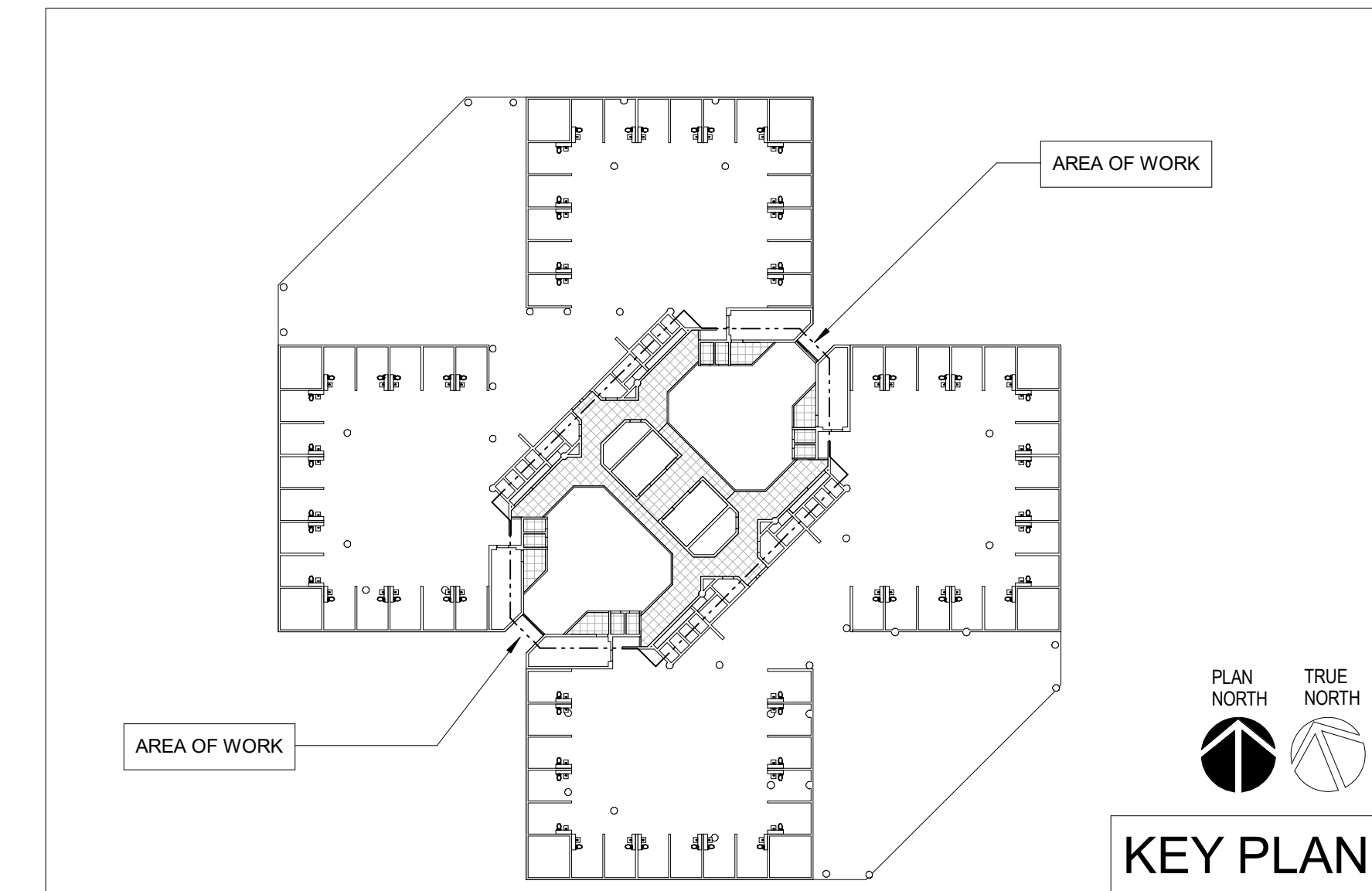
A122



2
A123
LEVEL 5 RCP AREA OF WORK - (TYP OF LEVEL 7)
SCALE: 1/8" = 1'-0"
PLAN NORTH TRUE NORTH



1
A123
LEVEL 3 RCP AREA OF WORK
SCALE: 1/8" = 1'-0"
PLAN NORTH TRUE NORTH



GENERAL NOTES - CEILING PLAN

- A CONTRACTOR TO PROTECT EXISTING MECHANICAL UNITS AND DUCTWORK TO REMAIN DURING EXTENT OF CONSTRUCTION. COORDINATE WITH ENGINEER DRAWINGS & SPECIFICATION MANUAL.
- B FOR EXISTING CEILING TO REMAIN, GC TO REPLACE TILES OF CEILING THAT IS DAMAGED DURING CONSTRUCTION. MATCH EXISTING TILE.
- C CONTRACTOR TO COORDINATE THE ALIGNMENT OF THE CEILING GRID AND PARTITIONS.
- D ACCESS PANELS SHALL BE IDENTIFIED TO ARCHITECT PRIOR TO THE INSTALLATION IF REQUIRED.
- E CEILING HEIGHTS TO BE COORDINATED WITH MECHANICAL UNITS, FIRE SPRINKLERS, STRUCTURAL BEAMS, AND LIGHT FIXTURES AGAINST EXISTING CONDITIONS. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.
- F ALL CEILINGS TO MATCH HEIGHTS OF EXISTING, UNO.

KEYNOTE LEGEND

- 21 NEW CEILING OR CEILING PANELS & EXPOSED GRID SUSPENSION SYSTEMS - SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REFLECTED CEILING LEGEND

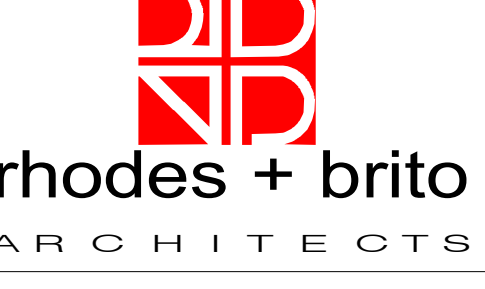
- 2x2 RECESSED DIRECT / INDIRECT LED TROFFER
- 4 SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 8 SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 4 RECESSED LINEAR LED DIRECT WALL WASH FIXTURE
- 12' APERTURE DECORATIVE ALUMINUM PENDANT
- 3.25' DIRECT/INDIRECT SWEEPING CURVE LED LINEAR PENDANT
- 4 FLUORESCENT INDUSTRIAL STRIP LIGHT FIXTURE
- 6" DOWNLIGHT CEILING FIXTURE
- SECURITY CAMERA
- WIRELESS ACCESS POINT
- WALL MOUNTED EXIT SIGN LIGHT FIXTURE
- CEILING MOUNTED EXIT SIGN LIGHT
- WALL MOUNTED STROBE LIGHT
- WALL MOUNTED HORN STROBE LIGHT
- EXHAUST FAN
- HVAC DIFFUSER
- HVAC RETURN AIR
- ACCESS PANEL
- 2x2 CEILING GRID
- GYP. BD CEILING



Client:



Consultants:



AA0002809
605 E. ROBINSON STREET, SUITE 750
ORLANDO, FL 32801
PH (407) 648 - 7288
www.rhodesandbrito.com

AOR Stamp: 01/13/17

MAXIMIANO BRITO
ARO015108

Project:
OC CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
01/13/17

Project Number:
15.OC.018

Drawn By: DC
Checked By: MB

**LEVEL 3, 5, & 7
REFLECTED
CEILING PLAN**

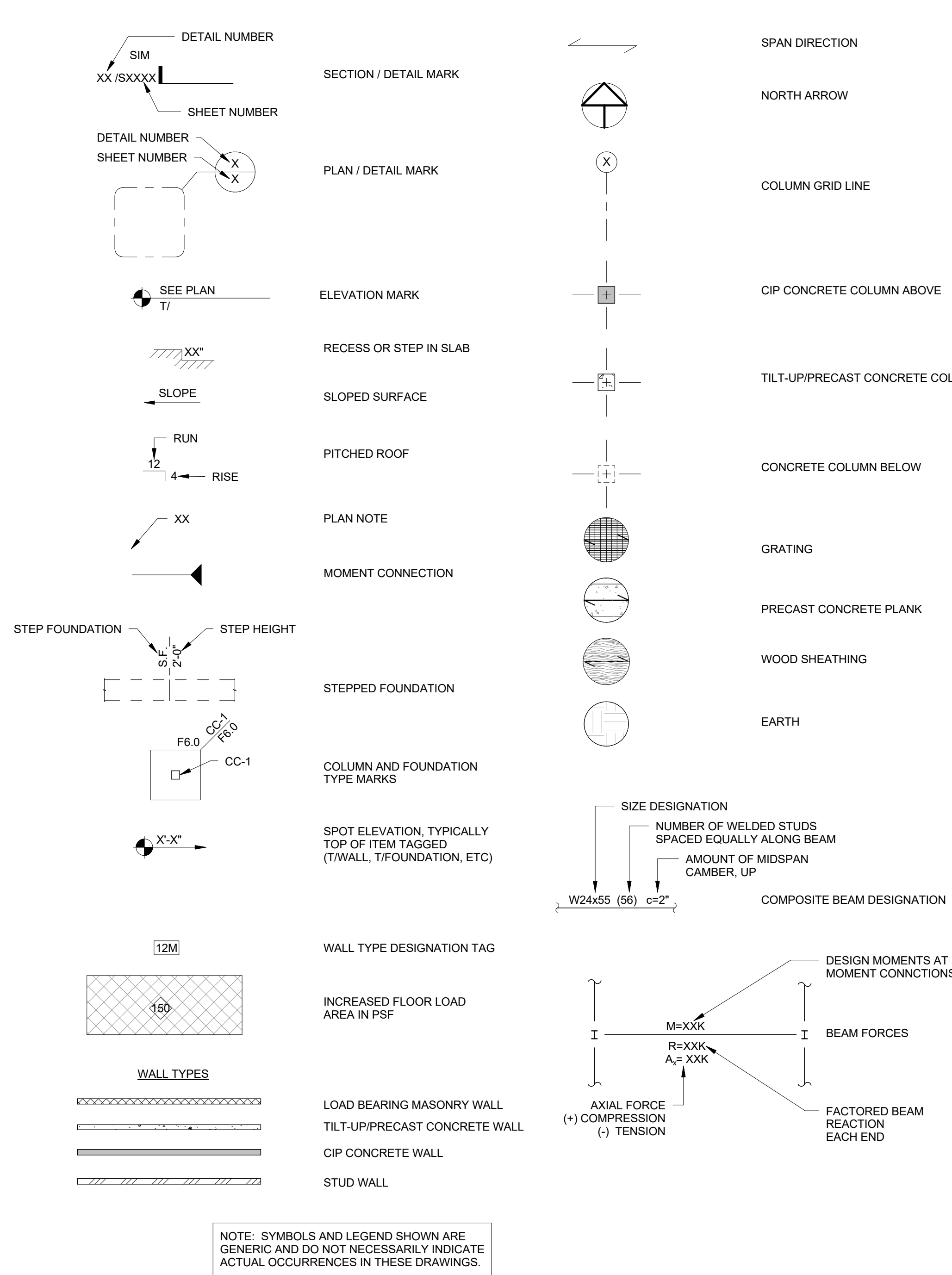
Sheet No.:

A123

STRUCTURAL ABBREVIATIONS

ABBREV	ABBREVIATION	LB	POUND
ACI	AMERICAN CONCRETE INSTITUTE	LGTH	LENGTH
ADD	ADDITIVE	LL	LIVE LOAD
ADJL	ADDITIONAL	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISHED FLOOR	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LSH	LONG SIDE HORIZONTAL
ASIS	AMERICAN IRON AND STEEL INSTITUTE	LSV	LONG SIDE VERTICAL
ALT	ALTERNATE/ALTERNATIVE	LONG	LONGITUDINAL
ALUM	ALUMINUM	LSM	LAMINATED STRAND LUMBER
ARCH	ARCHITECTURE/ARCHITECTURAL	LWT	LIGHT WEIGHT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	LVL	LAMINATED VENEER LUMBER
AWIS	AMERICAN WELDING SOCIETY		
B.O.	BOTTOM OF	MATL	MATERIAL
BLDG	BUILDING	MAX	MAXIMUM
BLK	BLOCK	ME	MASONRY BEAM
BM	MECH	MECH	MECHANICAL
BOT	BEAM	MET	METAL
BP	BASE PLATE/BEARING PLATE	MFR	MANUFACTURE/MANUFACTURER
BRG	BEARING	MID	MIDDLE
BTWN	BETWEEN	MIN	MINIMUM
		MISC	MISCELLANEOUS
C	CHANNEL	MO	MASONRY OPENING
CB	CONCRETE BEAM	MPH	MILES PER HOUR
CC	CONCRETE COLUMN	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CF	CUBIC FEET (FOOT)	NIC	NOT IN CONTRACT
CJ	CAST IN PLACE	NUM	NUMBER
CL	CONTRACTION JOINT	NS	NEAR SIDE
CL	CENTERLINE	NTS	NOT TO SCALE
CM	CLEARANCE	OC	ON CENTERS
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
CO	COMPANY	O.F.	OUTSIDE FACE
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS	OSB	ORIENTED STRAND BOARD
CONN	CONNECTION	P/C	PRECAST CONCRETE/PILE CAP
COORD	COORDINATE	PT	POST TENSIONED
CSJ	CONSTRUCTION JOINT	PCB	PRECAST CONCRETE BEAM
CTR	CENTER	PCC	PRECAST CONCRETE COLUMN
CTRD	CENTERED	PCF	POUNDS PER CUBIC FOOT
CY	CUBIC YARD	PEB	PRE-ENGINEERED METAL BUILDING
		PEN	PENETRATION
DEPT	DEPARTMENT	P.J.	PANEL JOINT CENTERLINE
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PLF	POUNDS PER LINEAR FOOT
DIAG	DIAGONAL	PLWG	PLUMBING
DIM	DIMENSION	PLY	PLYWOOD
DIST	DISTANCE	PREFAB	PREFABRICATED
DL	DEAD LOAD	PSF	POUNDS PER SQUARE FOOT
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PSL	PARALLEL STRAND LUMBER
		PT	PRESSURE TREATED
EA	EACH	RD	ROOF DRAIN
EHPA	EACH FACE	REF	REFERENCE
	EMERGENCY HURRICANE PROTECTION AREA	REIN	REINFORCING
ELEC	ELECTRIC/ELECTRICAL	REQD	REQUIRED
EL ELEV	ELEVATION	REV	REVISION
ENGR	ENGINEER	RTU	ROOF TOP UNIT
EOD	EDGE OF DECK	SB	SOFFIT BEAM
EOS	ENGINEER OF RECORD	SCHED	SCHEDULE
EQ SP	EDGE OF SLAB	S.F.	SQUARE FEET
ES	EQUAL SPACED	SF	STRIP FOUNDATION
EW	EACH WAY	SM	SIMILAR
EXIST	EXISTING	SPC	SPACE/SPACES
EXP	EXPANSION	SPCS	SPECIFICATIONS
EXT	EXTERIOR	SQ	SQUARE
F	FOUNDATION	SS	STAINLESS STEEL
FD	FLOOR DRAIN	STD	STANDARD
FDN	FLOOR FINISH	STIFF	STIFFENER
FF	FINISHED FLOOR	STL	STEEL
FIN	FINISH	STRUCT	STRUCTURAL
FIN GR	FINISH GRADE	SYM	SYMMETRICAL
FLR	FLOOR	T.O.	TOP OF
FS	FAR SIDE	TB	TIE BEAM
FT	FEET/FOOT	T&B	TOP AND BOTTOM
FTG	FOOTING	TDS	THICKENED EDGE
		TE	TEMPERATURE
GA	GAGE/GALGIE	TENS	TENSION
GALV	GALVANIZED	THD	THREAD/THREADED
GB	GRADE BEAM	THK	THICK
GC	GENERAL CONTRACTOR	TOL	TOLERANCE
GEN	GENERAL	TRANS	TRANSVERSE
GL	GRID LINE	TS	TUBE STEEL
GS	GALVANIZED STEEL	T.S.	THICKENED SLAB
		TWF	THICKENED WALL FOUNDATION
HD	HOT DIPPED	TYP	TYPICAL
HDG	HOT DIPPED GALVANIZED	UNO	UNLESS NOTED OTHERWISE
HORIZ	HORIZONTAL	VERT	VERTICAL
HSA	HEADED STUD ANCHOR	VOL	VOLUME
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT	W	WIDE FLANGE SECTION
		WI	WITH
I	MOMENT OF INERTIA	W/O	WITHOUT
ID	INSIDE DIAMETER	WD	WOOD
I.F.	INSIDE FACE	WF	WALL FOOTING
IN	INCH	WP	WATERPROOF
INT	INTERIOR	WP	WORKING POINT
JT	JOIST	WS	WELDED STUD
JT	JOINT	WT	WELDED STRUCTURAL TEE SECTION
K	KIP (1000 LB)	WWR	WELDED WIRE REINFORCEMENT
KLF	KIPS PER LINEAL FOOT		
KSI	KIPS PER SQUARE INCH	@	AT DESIGNATION
KWY	KEYWAY	#	POUNDS / REBAR SIZE NUMBER
		+/-	PLUS OR MINUS
		L	ANGLE
		C.L.	CENTERLINE
		&	AND
		Sx	SECTION MODULUS
		Ix	MOMENT OF INERTIA

STRUCTURAL SYMBOLS AND LEGEND



STRUCTURAL SHEET INDEX					
SHEET #	SHEET TITLE	CURRENT REVISION			
		100% DD SUBMITTAL	100% CD SUBMITTAL	REVISION NUMBER	DATE
S001	ABBREVIATIONS SYMBOLS AND SHEET INDEX				
S002	STRUCTURAL GENERAL NOTES				
S301	SECTIONS & DETAILS				

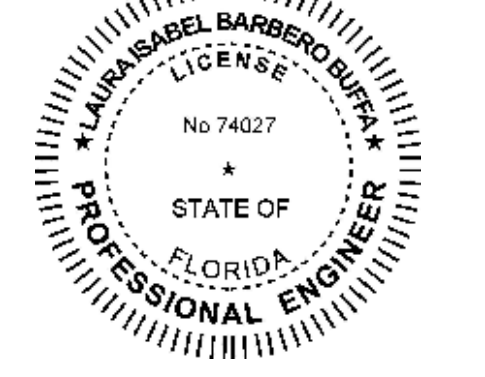


Client:

Consultants:



EOR Stamp:



Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
**PERMIT
DOCUMENTS**

Revisions:

#	Date	Description

Date:
01/13/17

Project Number:
15.O.C.018

Drawn By: MR
Checked By: LBB

**ABBREVIATIONS
SYMBOLS AND
SHEET INDEX**

Sheet No.:

S001

TO THE BEST OF THE ENGINEERS KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.

GENERAL NOTES

I. GENERAL

- A. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO THOSE FOR OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE OTHER DISCIPLINES. THE GENERAL CONTRACTOR SHALL COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN DISCIPLINES AND WITHIN A GIVEN DISCIPLINE TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- B. ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER CONDITIONS OF ANY EXISTING STRUCTURES OR OTHER FEATURES SHALL BE VERIFIED BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES WITH THE CONTRACT DRAWINGS REPORTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN.
- C. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
- D. IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, OR THE SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
- E. UNLESS OTHERWISE NOTED, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS. DETAILS LABELED TYPICAL DETAILS ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE SIMILAR OR SAME TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REFERENCED AT EACH LOCATION.
- F. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS AND FOR SAFETY PRECAUTIONS AND PROGRAMS. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN.
- G. BASE CONSULTANTS, INC., SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSION OF THE CONTRACTOR OR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- H. PERIODIC SITE OBSERVATION BY BASE CONSULTANTS, INC. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
- I. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND TO INSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE SUCH ITEMS SUCH AS BUT NOT LIMITED TO PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
- J. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE APPROVED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED.
 - 1. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
 - 2. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.
 SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED. BASE CONSULTANTS RETAINS THE RIGHT TO REJECT ANY SUBSTITUTION REQUEST.
- K. CONTRACTOR TO ISSUE REQUEST FOR INFORMATION (RFI) FOR ANY INFORMATION NOT CLEAR/NOT SHOWN IN THE DRAWINGS.
- L. DO NOT SCALE DRAWINGS
- M. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN/WINDOW WALL SYSTEMS, COLD FORMED METAL FRAMING OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
- N. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY ENGINEER OF RECORD FOR THE REVIEW.

II. DESIGN CRITERIA

- A. THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.
- B. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT WEIGHTS, LOCATIONS AND ASSOCIATED OPENINGS WITH THE MECHANICAL CONTRACTOR AND SUBMIT SUCH INFORMATION PRIOR TO FABRICATION OF THE SUPPORTING STRUCTURE. PROMPTLY NOTIFY THE ENGINEER IF THE ACTUAL WEIGHT EXCEEDS THE WEIGHT SHOWN ON THE STRUCTURAL DRAWINGS.
- C. PROVISIONS SHALL BE MADE IN THE DETAILING, FABRICATION, AND ERECTION OF ALL CLADDING, PARTITIONS, WALLS, ETC. TO ACCOUNT FOR FLOOR TO FLOOR DEFLECTIONS AND LATERAL FRAME DEFLECTION.
- D. DESIGN LOAD FOR RESTROOM ACCESSORIES
GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL BE DESIGNED TO RESIST A CONCENTRATED LOAD OF 250 LBF AT ANY LOCATION AND IN ANY DIRECTION.

III. POST-INSTALLED ANCHORS

- A. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.
- B. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
- C. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE. CONTACT MANUFACTURER PRIOR TO ANCHOR INSTALLATION, IF TRAINING IS REQUIRED.
- D. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD.
- E. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE FOR REVIEW AND APPROVAL. BASE CONSULTANT'S RETAINS THE RIGHT TO REJECT ANY SUBSTITUTION REQUEST.
- F. ACCEPTABLE PRODUCTS ARE:
 - 1. "CRACKED CONCRETE" MECHANICAL ANCHORS:
 - a. "HILTI KB-TZ" BY HILTI.
 - 2. "CRACKED CONCRETE" ADHESIVE ANCHORS:
 - a. "HIT RES90-SID" BY HILTI.
 - b. "SET-XP" STRUCTURAL EPOXY-TIE ANCHORING ADHESIVE" BY SIMPSON STRONG-TIE.
 - 3. ADHESIVE ANCHORS:
 - a. "HIT HY-200 MAX" BY HILTI
 - b. "HIT RE 500" BY HILTI
 - c. "ACRYLIC-TIE" OR "SET EPOXY-TIE" WITH INSERT (RFB BOLTS OR REBAR)
 - 4. SCREW ANCHORS:
 - a. "TITEN HD" BY SIMPSON STRONG-TIE.
 - b. "TRUSH" BY HILTI.

IV. STRUCTURAL STEEL

- A. ALL HOT ROLLED STEEL PLATES, SHAPES, SHEET PILING, AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION A6-99A.
- B. STRUCTURAL STEEL SHALL BE AS FOLLOWS, U.N.O.:
 - 1. ALL OTHER STRUCTURAL STEEL ASTM A36 F_y = 36 KSI
 - 2. CONNECTION MATERIALS:
 - a. ALL OTHER CONNECTION MATERIAL, U.N.O., ASTM A36 UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY STRENGTH AND PROVIDED THE RESULTING SIZES ARE COMPATIBLE WITH THE CONNECTED MEMBERS.
- C. STRUCTURAL STEEL SHALL MEET THE LATEST AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- D. ALL STRUCTURAL STEEL SHALL BE SHIPPED WITH ONE COAT OF SHOP PRIMER EXCEPT THOSE MEMBERS THAT ARE GALVANIZED OR IN AREAS SCHEDULED TO RECEIVE FIRE PROOFING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AREAS TO BE FIRE PROOFED.

V. MASONRY

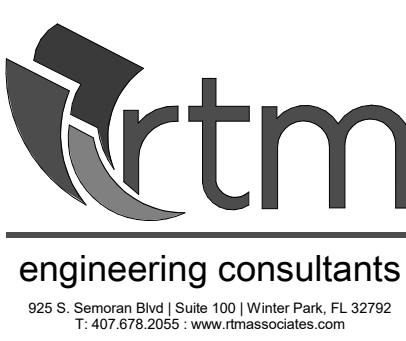
- A. HOLLOW CONCRETE BLOCK (MASONRY) UNITS SHALL BE NORMAL WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET AREA AND 1000 PSI ON THE GROSS AREA (F_m = 1500PSI) AND SHALL CONFORM TO ASTM C-90.
- B. ALL MORTAR FOR USE IN MASONRY SHALL CONFORM TO ASTM C-270, TYPE M OR S. ALL GROUT FOR USE IN MASONRY SHALL CONFORM TO ASTM C-476, MIN. 3000 PSI.
- C. ALL CMU TO BE LAID IN RUNNING BOND PATTERN.
- D. GROUT
 - 1. MIX DESIGNS
 - a. FOR FILLING SPACES 4" OR LARGER IN BOTH HORIZONTAL DIRECTIONS, USE "COARSE GROUT" WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. THE GROUT SHALL BE TESTED IN ACCORDANCE WITH ASTM C1019. FOR FILLING SPACES LESS THAN 4" IN ONE OR BOTH HORIZONTAL DIRECTIONS, USE "FINE GROUT" PROPORTIONED PER ASTM C476.
 - b. USE 3000 PSI NORMAL-WEIGHT CONCRETE FOR FILLING SPACES 10" AND LARGER IN BOTH DIRECTIONS. THE GROUT SHALL BE TESTED IN ACCORDANCE WITH ASTM C1019.
 - c. ALL GROUT MIX DESIGN SUBMITTALS SHALL INCLUDE THE RESULTS OF THE TESTS PERFORMED IN ACCORDANCE WITH ASTM C1019.
 - d. SLUMP RANGE AT POINT OF FINAL DISCHARGE: # TO 11".
 - e. THE USE OF ADMIXTURES IS NOT ALLOWED.
 - 2. LOW-LIFT GROUTING PROCEDURES SHALL BE USED FOR ALL FILLED-CELL MASONRY CONSTRUCTION.
 - 3. IF HIGH-LIFT GROUTING PROCEDURES ARE FOLLOWED, PROVIDE CLEANOUTS AT EACH LOCATION.
 - a. GROUT POURS SHALL NOT EXCEED 5 FEET PER LIFT, UNLESS CLEANOUTS ARE PROVIDED IN THE BOTTOM COURSE OF EACH 5 FOOT LIFT.
 - b. MECHANICALLY VIBRATE ALL LIFTS IN EXCESS OF 1 FOOT. SHALL NOT BE STOPPED WITHIN 1-1/2" OF BED JOINT. TOTAL GROUT POUR SHALL NOT EXCEED 24 FEET WHEN GROUTING THE CELLS OF HOLLOW MASONRY.
 - 4. PROVIDE CLEAN-OUTS FOR ALL GROUT POURS EXCEEDING 5 FEET.
 - 5. GROUT FILL ALL CELLS AND ALL WALLS BELOW GRADE. SLUSH JOINT BETWEEN WYTHES.
- E. REINFORCEMENT
 - 1. REINFORCING BARS TO MEET ASTM A-615, GRADE 60.
 - 2. VERTICAL AND HORIZONTAL REINFORCING SHALL BE CONTINUOUS AND LAPPED A MINIMUM OF 40 BAR DIAMETERS.
 - 3. HOLD VERTICAL BARS STRAIGHT AND TRUE AND ACCURATELY LOCATED IN WALL AS DETAILED. INSTALL REBAR POSITIONERS @ 4'-0"OC MAXIMUM THAT ARE DESIGNED TO HOLD REBAR IN PROPER LOCATION WITHIN THE GROUTED CELL.
 - 4. PROVIDE #6 TRUSS TYPE JOINT REINFORCEMENT AT 16"OC FOR TYPICAL HORIZONTAL REINFORCING.
 - 5. MINIMUM LAP OF ALL REINFORCEMENT SHALL BE 48 BAR DIAMETERS (EX.: 30" FOR #5 BARS AND 42" FOR #7 BARS). LONGER LAP LENGTHS MAY BE SHOWN IN DETAILS/SCHEDULES. DO NOT LAP VERTICAL REINFORCEMENT AT INTERSECTING BOND BEAMS. REINFORCEMENT SHALL BE CONTINUOUS THROUGH INTERSECTING BOND BEAMS.
 - 6. PROVIDE HORIZONTAL REINFORCEMENT IN BED JOINTS EVERY OTHER COURSE (MAX. 16" SPACING). REINFORCEMENT SHALL BE TRUSS-TYPE WITH 9 GAGE SIDE RAILS FABRICATED FROM HIGH-STRENGTH, COLD-DRAWN WIRE CONFORMING TO ASTM A62. TRUSSES SHALL BE GALVANIZED AFTER FABRICATION. ALSO PLACE THREE ROWS OF REINFORCEMENT @ 8" O.C. IMMEDIATELY ABOVE ALL WALL OPENINGS, AND AT THE TOPS OF WALLS. SIDE LAP RAILS A MINIMUM OF 6".
- F. CONTROL JOINTS
 - 1. CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. SPECIFIC CONTROL JOINT DETAILS ARE AS SHOWN IN THE ARCHITECTURAL DRAWINGS. IN ADDITION, PLACE JOINTS IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:
 - a. MAXIMUM SPACING: 25 FEET
 - b. MAXIMUM LENGTH/HEIGHT RATIO: 2.0 TO 1
 - 2. PLACEMENT GUIDELINES
 - a. AT ALL CHANGES IN WALL HEIGHT
 - b. AT ALL CHANGES IN WALL THICKNESS
 - c. AT ALL CHASES, RECESSES, AND PENETRATIONS
 - d. AT SIDES OF WALL OPENINGS
 - (1) OPENINGS SIX FEET OR LESS - ONE SIDE, AT THE END OF THE LINTEL
 - (2) OPENINGS OVER 6 FEET - BOTH SIDES, AT THE ENDS OF THE LINTEL
 - 3. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS.
 - 4. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.
- G. NOTES
 - 1. PROVIDE SOLID GROUTED U-BLOCKS OR KNOCK-OUT BLOCK BOND BEAMS UNDER ALL WINDOW SILLS.

VI. SPECIALTY ENGINEERING REQUIREMENTS

THE FLORIDA STATE OF PROFESSIONAL ENGINEERS HAS ISSUED STATEMENTS ON RESPONSIBILITIES OF PROFESSIONAL ENGINEERS, IN ACCORDANCE WITH RULE 21H-19.00(3), CERTAIN COMPONENTS OF THE STRUCTURE REQUIRE THE WORK OF A SPECIALTY ENGINEER FOR THE DESIGN OF THOSE COMPONENTS.

VII. SUBMITTALS

- A. THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE ENGINEER'S REVIEW:
 - 1. MISCELLANEOUS STEEL
 - 2. STRUCTURAL STEEL, SHOP AND ERECTION DRAWINGS
 - 3. EMBEDDED ITEMS (PLATES, ANGLES, POST-INSTALLED ANCHORS, BOLTS, ETC.) PRODUCT DATA
 - 4. REINFORCING STEEL



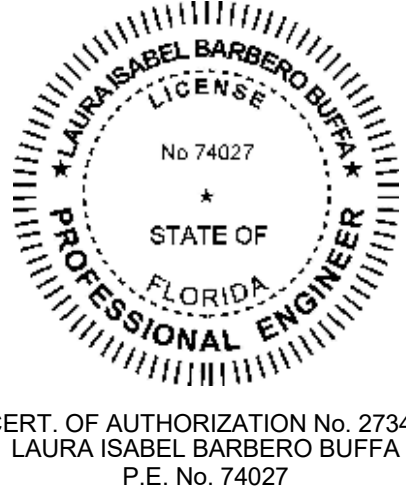
105 S. Orange Blvd., Suite 101, Winter Park, FL 32789
407.973.2000, www.rtmconsultants.com

Client:

Consultants:



EOB Stamp:



Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD,
ORLANDO FL 32839

Issuance:
**PERMIT
DOCUMENTS**

Revisions:

#	Date	Description

Date:
01/13/17

Project Number:
15.OC.018

Drawn By: MR	Checked By: LBB
-----------------	--------------------

**STRUCTURAL
GENERAL
NOTES**

Sheet No.:

S002

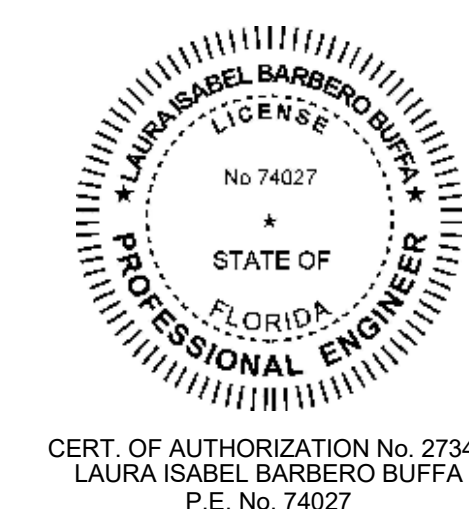
TO THE BEST OF THE ENGINEERS KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.

Client:

Consultants:



EOR Stamp:



Project:
 ORANGE COUNTY
 CORRECTIONS
 HORIZONS AHU HOT
 WATER REPLACEMENT

Location:
 3723 VISION BLVD,
 ORLANDO FL 32839

Issuance:
**PERMIT
 DOCUMENTS**

Revisions:

#	Date	Description

Date:
 01/13/17

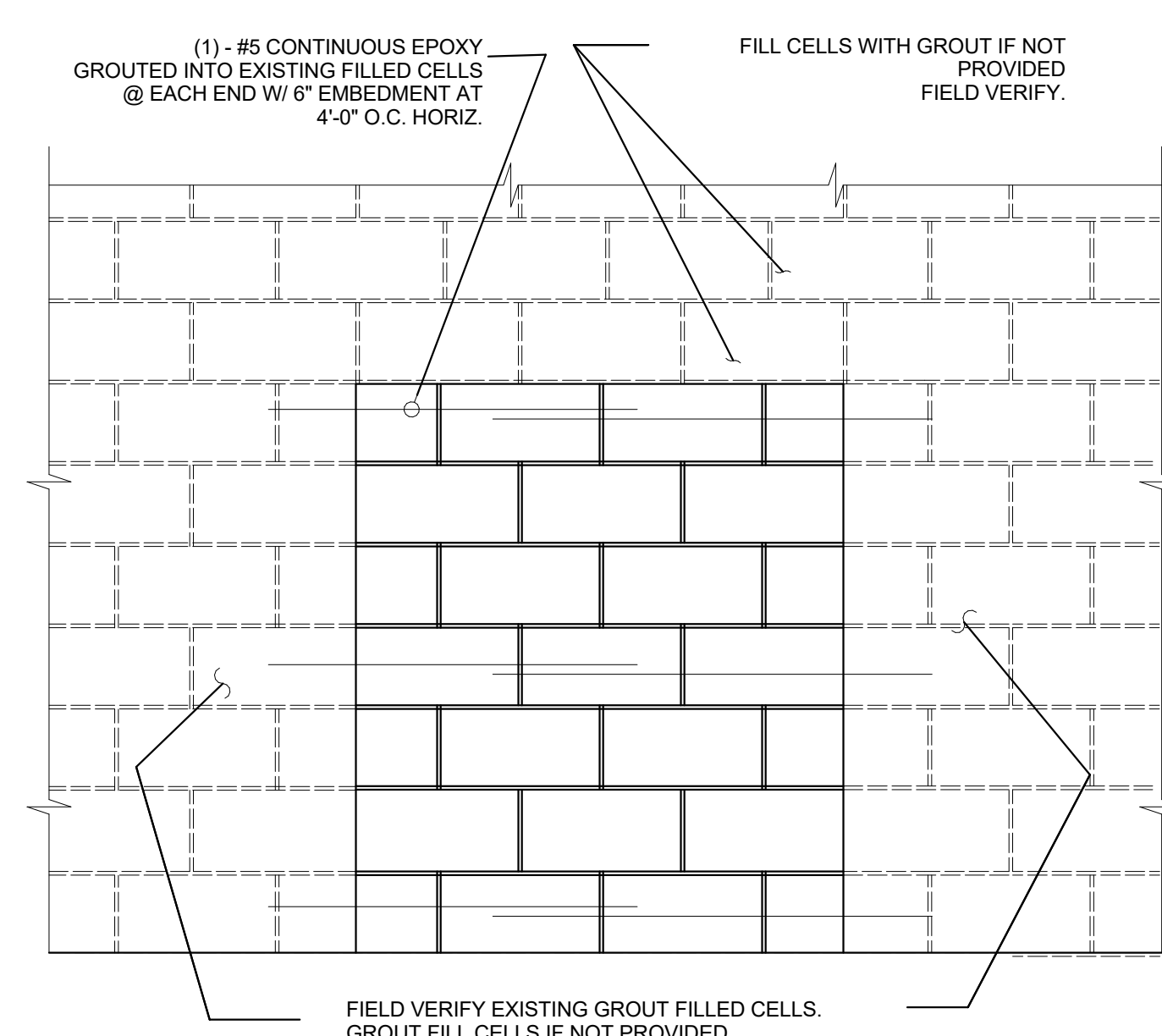
Project Number:
 15.OC.018

Drawn By: MR
 Checked By: LBB

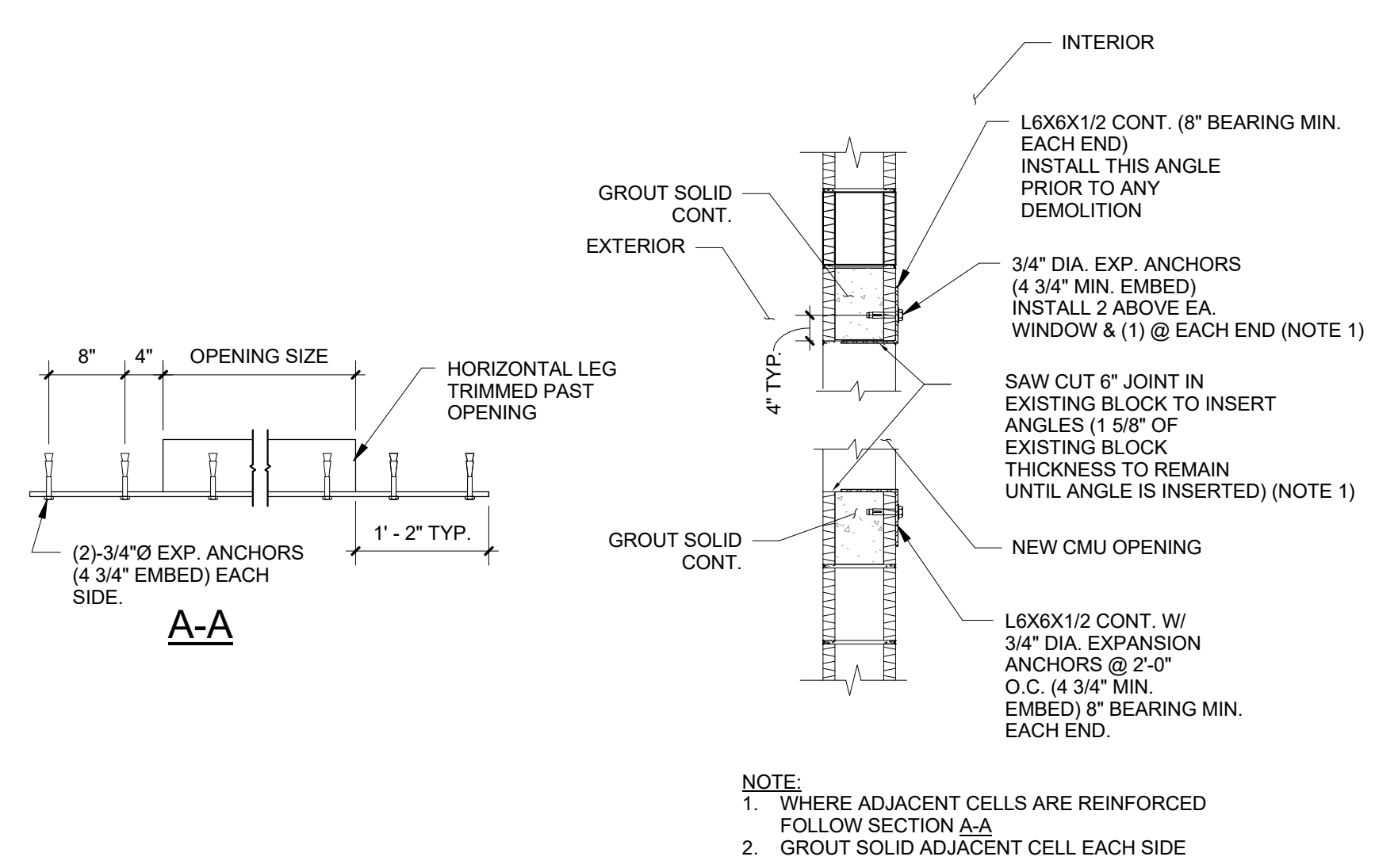
**SECTIONS &
 DETAILS**

Sheet No.:

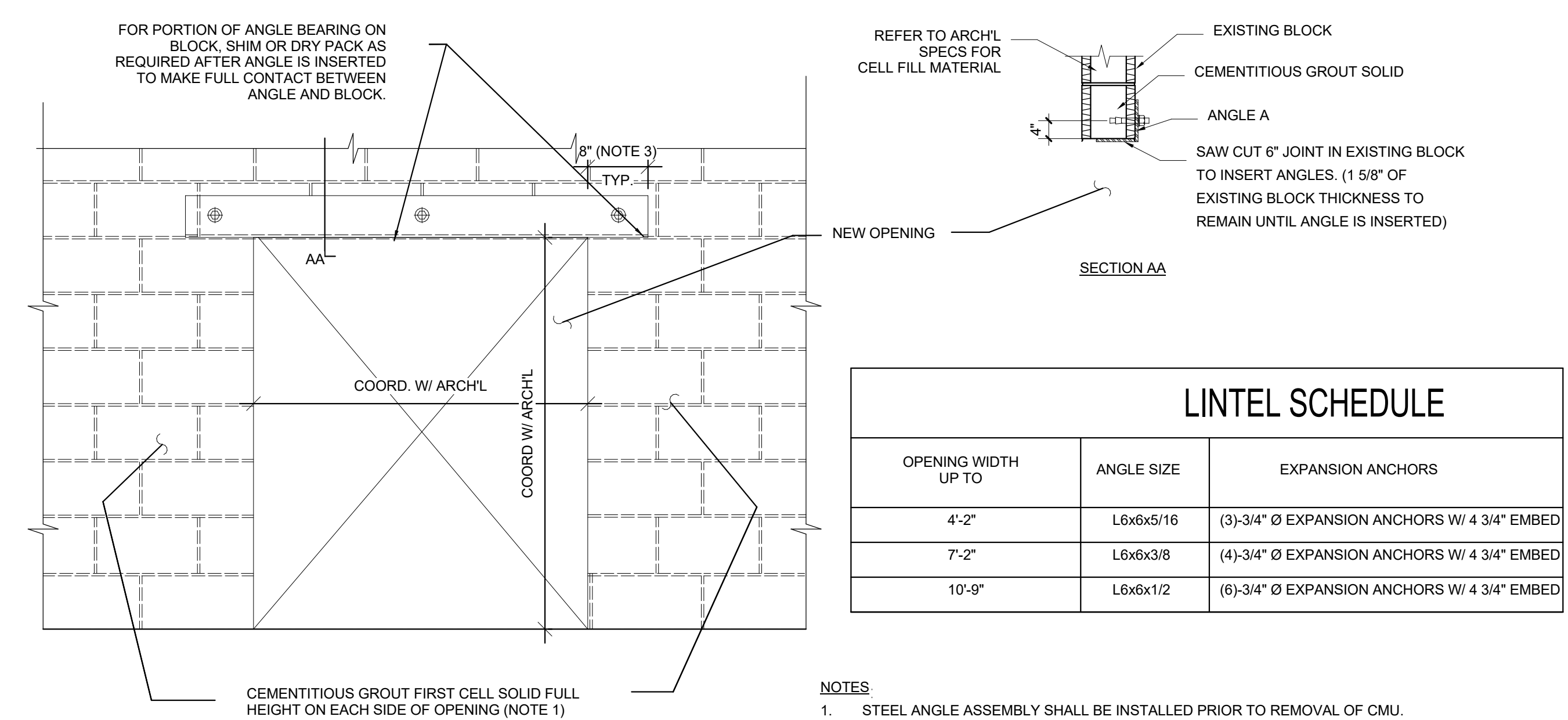
S301



4 MASONRY INFILL
 S301 3/4" = 1'-0"



2 STEEL ANGLE @ NEW CMU OPENING
 S301 3/4" = 1'-0"



OPENING WIDTH UP TO	ANGLE SIZE	EXPANSION ANCHORS
4'-2"	L6x6x5/16	(3)-3/4" Ø EXPANSION ANCHORS W/ 4 3/4" EMBED
7'-2"	L6x6x3/8	(4)-3/4" Ø EXPANSION ANCHORS W/ 4 3/4" EMBED
10'-9"	L6x6x1/2	(6)-3/4" Ø EXPANSION ANCHORS W/ 4 3/4" EMBED

1 NEW OPENING IN CMU
 S301 3/4" = 1'-0"

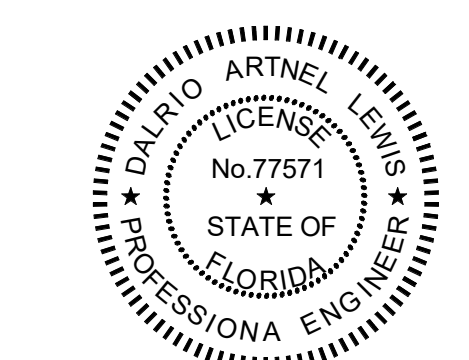
TO THE BEST OF THE ENGINEERS KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 WITH 2016 SUPPLEMENT.

Client:



Consultants:

EOR Stamp:



01/13/2017
Dario A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML
Checked By: DL

MECHANICAL
GENERAL
INFORMATION

Sheet No.:

M001


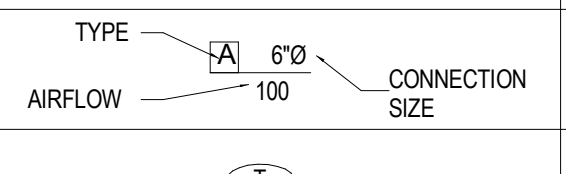
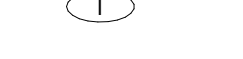



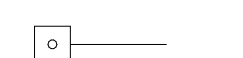





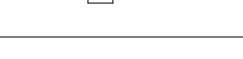
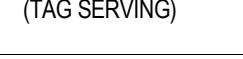


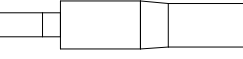
MECHANICAL GENERAL NOTES

- APPLICABLE CODES: FLORIDA BUILDING CODE FIFTH EDITION INCLUDING MECHANICAL, PLUMBING, FUEL GAS, NEC 2011, SMACNA, ASHRAE, NFPA
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS. THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY, AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA, ASHRAE, NFPA 90A, 90B, 91, AND ANSI B-9.1 MECHANICAL REFRIGERATION.
- THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WITH ALL OTHER TRADES.
- THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS. IF FIELD CHANGES ARE MADE, CONTRACTOR NEEDING DRAWINGS CHANGES FOR INSPECTION, SHALL SUBMIT CHANGES WITH SUFFICIENT TIME TO MAKE DRAWINGS CHANGES. THE CONTRACTOR WILL BE BILLED HOURLY FOR CADD CHANGES IF THE CHANGES WERE NOT PRE-APPROVED BY THE ENGINEER AND OWNER.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT. CONTRACTOR SHALL ALSO SUBMIT OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. CONTRACTOR SHALL ALSO SUBMIT WITH MANUFACTURER SUBMITTALS A NOTICE TO OWNER FOR TRAINING. TRAINING SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EQUIPMENT AND CONTROLS WITH NECESSARY TIME TO ENSURE THE OWNER HAS UNDERSTOOD SYSTEM. MINIMUM TRAINING HOURS SHALL BE SCHEDULED AT 4-HOURS. ALL COSTS AND TIME OF TRAINING SHALL BE INCLUDED IN THE BID.
- ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.
- PROVIDE "CONSTRUCTION" AIR FILTERS IN ALL AIR MOVING EQUIPMENT AND ROUGHED IN AIR DEVICE BOOTS. FOR ALL ROUGHED IN FLEX RUN-OUTS: PULL AND TWIST THE END SECTION OF THE OUTER FOIL FACE ONLY. SPIN SO THE FOIL CLOSURES. SECURE WEATHER TIGHT WITH ZIP TIE TO PREVENT MOISTURE INTRUSION. PROVIDE NEW FILTERS FOR ALL AIR MOVING EQUIPMENT PRIOR TO START-UP. REPLACE ALL FILTERS PRIOR TO FINAL ACCEPTANCE BY OWNER. SUBMIT A NOTICE TO THE OWNER OF FILTER QUANTITIES, SIZES AND LOCATIONS OF ALL FILTERS CHANGED.
- ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
- PROVIDE MINIMUM OF 3' CLEARANCE IN FRONT OF ALL 120-240 VOLT PANELS AND 4' CLEARANCE IN FRONT OF ANY 480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC.
- MECHANICAL PLANS IN GENERAL ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATING OR INSTALLATION OF MATERIALS OR EQUIPMENT.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH FLORIDA BUILDING CODE FIFTH EDITION, NFPA, ASHRAE, AND SMACNA DUCT CONSTRUCTION STANDARDS.
- ROUTE ALL DUCTWORK, PIPING AND ACCESSORIES IN A MANNER TO AVOID BUILDING COMPONENTS STRUCTURE, AND LIGHTING. COORDINATE TRANSITIONS MADE TO MAXIMUM PRESSURE DROPS PER FAN AND PUMP MANUFACTURERS CURVES.
- ALL DEBRIS SHALL BE PROPERLY DISPOSED OFF SITE. CLEAN UP SITE DAILY AFTER WORK IS COMPLETE. IF CLEAN UP PERFORMED BY OWNER'S REPRESENTATIVE AS A RESULT OF SUBCONTRACTOR NOT PERFORMING CLEAN UP OPERATIONS, OWNER WILL HAVE THE RIGHT TO CHARGE SUBCONTRACTOR FOR CLEAN UP LABOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY SUPPORTING DEVICES FOR ALL ACCESSORIES INCLUDED WITHIN THIS CONTRACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPANSION JOINTS AND EXPANSION LOOPS REQUIRED FOR HEATING HOT WATER PIPING SYSTEM. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS FOR THE QUANTITIES AND LOCATIONS OF ALL EXPANSION JOINTS AND LOOPS REQUIRED.

OC HORIZONS AHU HEATING HOT WATER REPLACEMENT MECHANICAL SHEET INDEX

Sheet Number	Sheet Name	90%
M001	MECHANICAL GENERAL INFORMATION	X
M100	MECHANICAL PHASING PLAN	X
MD101	MECHANICAL PIPING FIRST FLOOR DEMO PLAN	X
MD102	MECHANICAL PIPING SECOND FLOOR DEMO PLAN	X
MD103	MECHANICAL PIPING THIRD FLOOR DEMO PLAN	X
MD104	MECHANICAL PIPING FOURTH FLOOR DEMO PLAN	X
MD105	MECHANICAL PIPING FIFTH FLOOR DEMO PLAN	X
MD106	MECHANICAL PIPING SIXTH FLOOR DEMO PLAN	X
MD107	MECHANICAL PIPING SEVENTH FLOOR DEMO PLAN	X
MD108	MECHANICAL PIPING ROOF DEMO PLAN	X
MD109	MECHANICAL PIPING ELEV. MACH. ROOM DEMO PLAN	X
MD201	MECHANICAL DEMOLITION ENLARGED PLAN	X
MD202	ENLARGED BUILDING SECTION - CHASE WALL DEMOLITION	X
M101	MECHANICAL PIPING FIRST FLOOR	X
M102	MECHANICAL PIPING SECOND FLOOR	X
M103	MECHANICAL PIPING THIRD FLOOR	X
M104	MECHANICAL PIPING FOURTH FLOOR	X
M105	MECHANICAL PIPING FIFTH FLOOR	X
M106	MECHANICAL PIPING SIXTH FLOOR	X
M107	MECHANICAL PIPING SEVENTH FLOOR	X
M108	MECHANICAL PIPING ROOF PLAN	X
M201	MECHANICAL ENLARGED PLANS	X
M301	MECHANICAL SCHEDULES	X
M302	MECHANICAL DETAILS	X
M303	HEATING HOT WATER RISER DIAGRAM	X

LEGEND

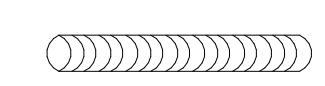
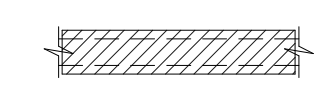
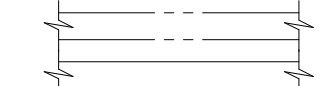

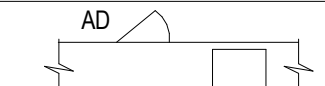


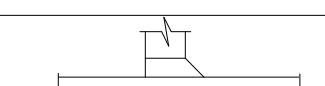
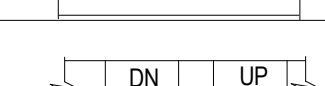
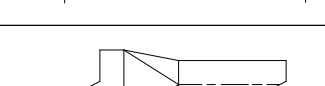


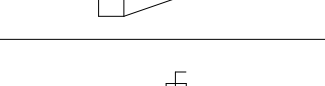
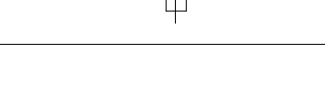
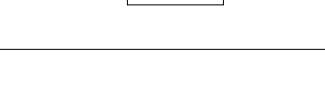
SYMBOL	DESCRIPTION
	INDICATES DIRECTION OF AIRFLOW
	USE TO IDENTIFY SUPPLY, RETURN OR EXHAUST GRILLE VALVES AND TYPE
	THERMOSTAT
	SMOKE DETECTOR
	TEMPERATURE SENSOR X= ZONE CONTROLLED
	HUMIDISTAT (DIGITAL)
	GREENHECK STATIC FIRE DAMPER WITH ACCESS DOOR SEE ARCHITECTURAL LIFE SAFETY PLANS FOR FIRE RATED WALL LOCATIONS
	GREENHECK FIRE-SMOKE DAMPER WITH ACCESS DOOR (24V ACTUATOR) SEE ARCHITECTURAL LIFE SAFETY PLANS FOR FIRE RATED WALL LOCATIONS
	CEILING SUPPLY DIFFUSER
	RETURN GRILLE OR DUCT DOWNUP
	EXHAUST GRILLE OR DUCT DOWNUP
	CONDENSATE PUMP WITH SAFETY FLOAT SWITCH TO DE-ENERGIZE MAIN AC IN CASE OF OVERFLOW. MODEL: LITTLE GIANT VDMA-15 OR EQUAL
	REMOTE SMOKE ALARM INDICATION STATION WITH LIGHT
	IN-LINE DRYER BOOSTER FAN (FANTECH DBF-110)
	SIDEWALL SUPPLY DIFFUSER
	TERMINAL UNIT VARIABLE/CONSTANT AIR VOLUME
	TERMINAL UNIT VARIABLE/CONSTANT AIR VOLUME WITH HOT WATER HEAT
THIS IS A GENERAL LIST OF SYMBOLS. ALL SYMBOLS MAY NOT BE USED ON A SPECIFIC PROJECT	

ABBREVIATIONS

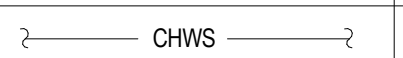
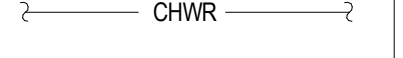

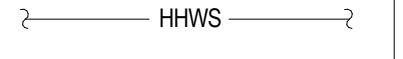
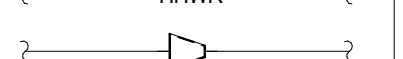
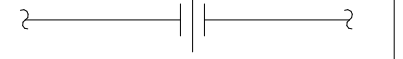


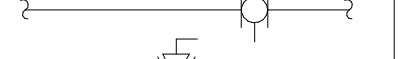

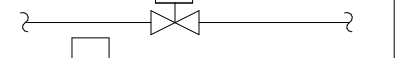

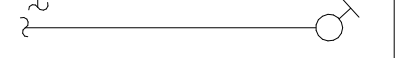
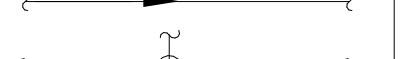
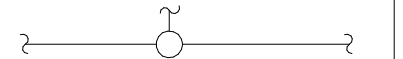
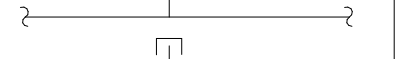

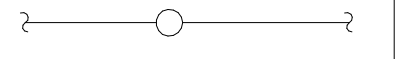

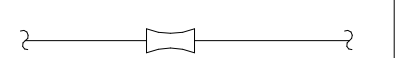


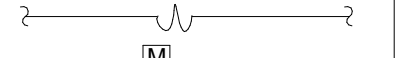










AC	AIR CONDITIONING	F	FAHRENHEIT	PRESS	PRESSURE
ACH	AIR CHANGES PER HOUR	FA	FILTER ACCESS	PVC	POLYVINYLCHLORIDE
AD	ACCESS DOOR	FACP	FIRE ALARM CONTROL PANEL	RA	RETURN AIR
AFF	ABOVE FINISHED FLOOR	FCD	FLOW CONTROL DAMPER	RD	ROOF DRAIN
AG	ABOVE GRADE	FCU	FAN COIL UNIT	REF	REFRIGERANT
AHU	AIR HANDLING UNIT	FD	FIRE DAMPER	RG	RETURN GRILLE
A	ANALOG INPUT	FSD	FIRE SMOKE DAMPER	RL	RAIN LEADER
AO	ANALOG OUTPUT	FL	FLOOR	RLA	RUNNING LOAD AMPS
AP	ACCESS PANEL	FLA	FULL LOAD AMPACITY	RPM	REVOLUTIONS PER MINUTE
APPROX	APPROXIMATELY	FPF	FINS PER FOOT	RS	REFRIGERANT SENSOR
BAS	BUILDING AUTOMATION SYSTEM	FPI	FINS PER INCH	RTU	ROOF TOP A/C UNIT
BDO	BACK DRAFT DAMPER	FFM	FEET PER MINUTE	RTU	ROOF TOP UNIT
BFF	BELOW FINISHED FLOOR	FFM	FINS PER MINUTE	SA	SUPPLY AIR
BHP	BRAKE HORSE POWER	FSD	FIRE/SMOKE DAMPER	SD	SUPPLY DIFFUSER
BOD	BOTTOM OF DUCT	GPM	GALLONS PER HOUR	SD	FIRE STAT
BOT	BOTTOM	GPM	GALLONS PER MINUTE	SD	SMOKE DETECTOR
BTU	BRITISH THERMAL UNIT	H	HUMIDITY	SEN	SENSIBLE
CAP	CAPACITY	HC	HEATING COIL	SG	SUPPLY GRILLE
CC	COOLING COIL	HP	HORSEPOWER	SP	STATIC PRESSURE
CD	CONDENSATE DRAIN	HHWR	HEATING HOT WATER RETURN	STRUCT	STRUCTURAL
CFM	CUBIC FEET PER MINUTE	HHWS	HEATING HOT WATER SUPPLY	SYS	SYSTEM
CHWR	CHILLED WATER RETURN	HZ	HERTZ	T	TEMPERATURE
CHWS	CHILLED WATER SUPPLY	IN-H2O	INCHES OF WATER	TSP	TOTAL STATIC PRESSURE
CLS	CEILING	KW	KILOWATT	TYP	TYPICAL
CMU	CONCRETE MASONRY UNIT	LAT	LEAVING AIR TEMPERATURE	UC	UNDERCUT
CONN	CONNECTION	LAT	LATENT	UG	UNDERGROUND
CT	COOLING TOWER	LD	LOUVERED DOOR	UL	UNDERWRITERS LABORATORY
CU	CONDENSING UNIT	LPC	LOW PRESSURE CONDENSATE	UN	UNLESS OTHERWISE NOTED
DB	DRY BULB	LPS	LOW PRESSURE STEAM	UV	UNIT VENTILATOR
DDC	DIRECT DIGITAL CONTROL	LRA	LOCKED ROTOR AMPS	VAV	VARIABLE AIR VOLUME
DG	DOOR GRILLE	LVG	LEAVING	VD	VOLUME DAMPER
DI	DIGITAL INPUT	LWT	LEAVING WATER TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE
DN	DOWN	MAX	MAXIMUM	WB	WET BULB
DO	DIGITAL OUTPUT	MBH	1000BTU		
DP	DEW POINT	MCA	MINIMUM CIRCUIT AMPACITY		
DX	DIRECT EXPANSION	MEZZ	MEZZANINE		
EA	EXHAUST AIR	MIN	MINIMUM		
EAT	ENTERING AIR TEMPERATURE	MISC	MISCELLANEOUS		
EA	EXHAUST AIR	NC	NORMALLY CLOSED		
EER	ENERGY EFFICIENCY RATIO	NIC	NOT IN CONTRACT		
EF	EXHAUST FAN	NO	NORMALLY OPEN		
EG	EXHAUST GRILLE	NTS	NOT TO SCALE		
EL	ELEVATION	OA	OUTSIDE AIR		
ELEC	ELECTRICAL	OAI	OUTSIDE AIR INTAKE		
ENT	ENTERING	OAL	OUTSIDE AIR LOUVER		
EQUIP	EQUIPMENT	OC	ON CENTER		
ESP	EXTERNAL STATIC PRESSURE	PD	PRESSURE DROP		
ET	EXPANSION TANK	PKU	PACKAGE UNIT		
EXH	EXHAUST	PH	PHASE		
EXIST	EXISTING	POC	POINT OF CONNECTION		

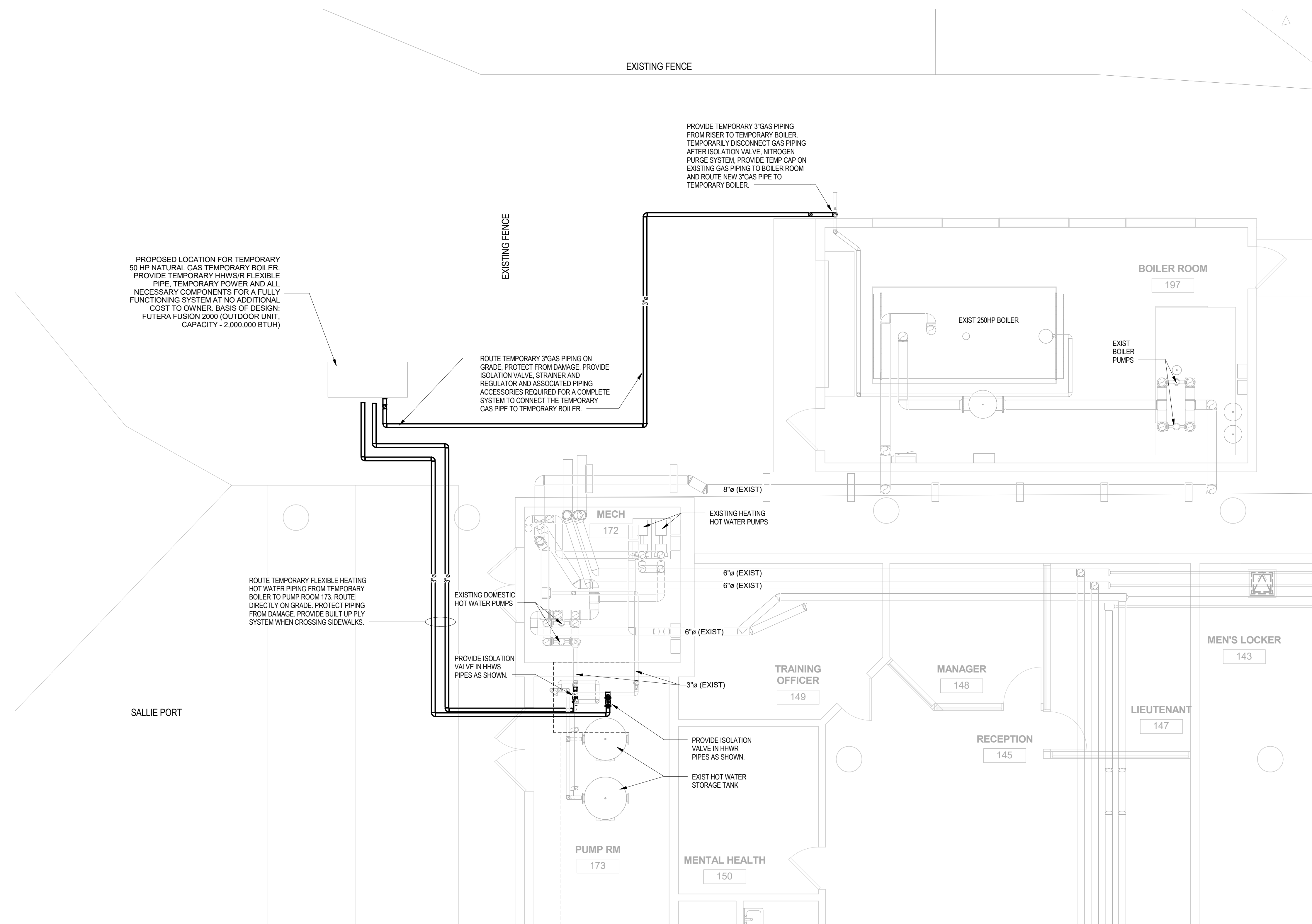
THIS IS A GENERAL LIST OF ABBREVIATIONS AND MAY NOT BE USED ON A SPECIFIC PROJECT. IF AN ABBREVIATION IS USED ON A PROJECT AND IS NOT REPRESENTED IN THIS LIST, CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION.

DUCTWORK LEGEND

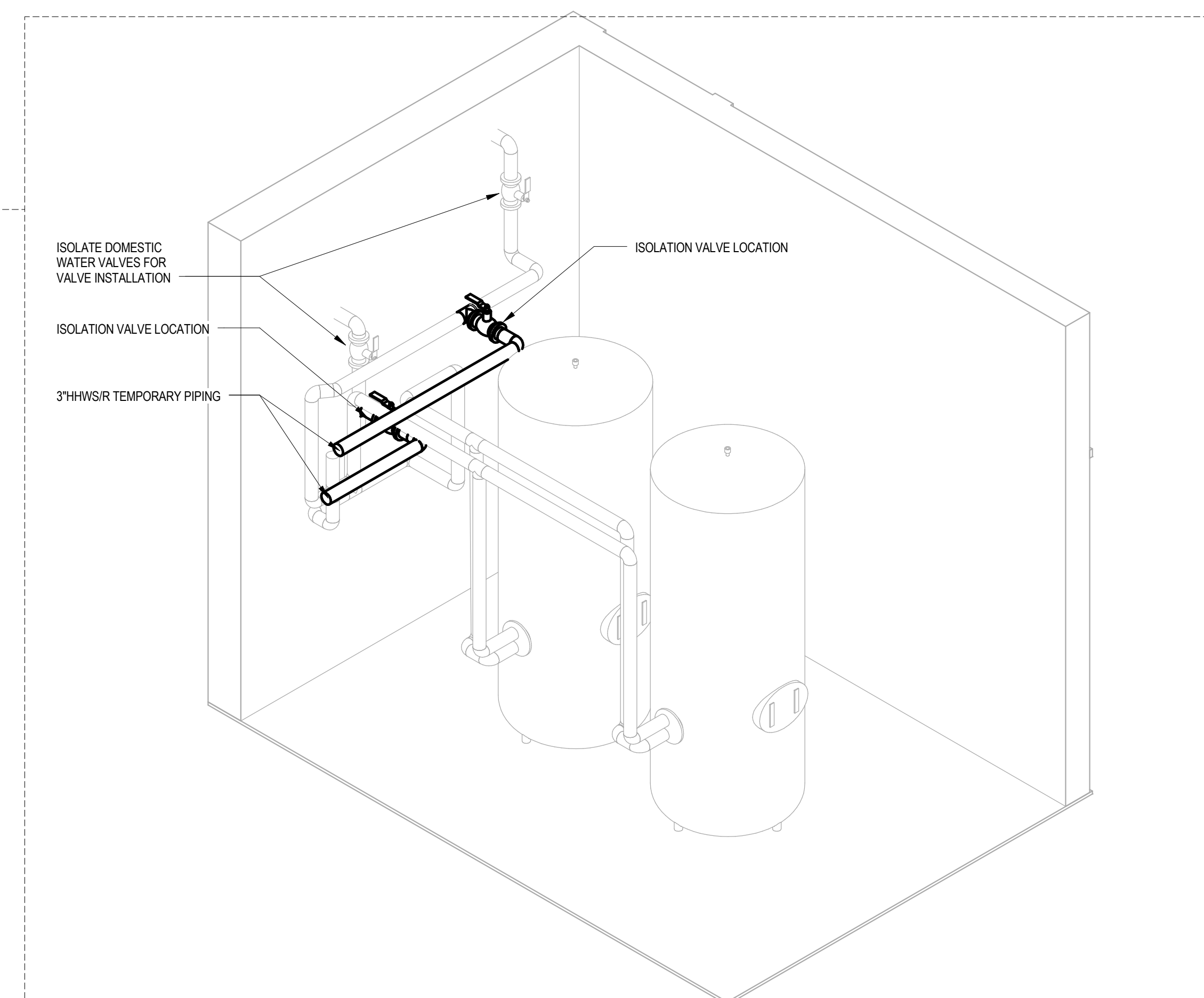
SYMBOL	DOUBLE LINE	DESCRIPTION
		FLEXIBLE DUCTWORK
		EXISTING EQUIPMENT OR DUCTWORK TO BE REMOVED.
		EXISTING DUCTWORK TO REMAIN NEW DUCTWORK
		MANUAL VOLUME DAMPER (MVD) MOTOR OPERATED DAMPER (MOD)
		ACCESS DOOR
		RADIUS ELBOW (R=1.5)
		VANED ELBOW
		BRANCH DUCT TAKE-OFF
		RISE OR DROP DIRECTION OF AIR FLOW
		CHANGE FROM RECTANGULAR TO ROUND DUCT ON SINGLE LINE DUCT
		CHANGE IN SIZE OF DUCTWORK (CONCENTRIC)
		CHANGE IN SIZE OF DUCTWORK (ECCENTRIC)
		SPIN IN FITTING WITH MANUAL VOLUME DAMPER
		OPPOSED BLADE CONTROL DAMPER WITH ACTUATOR
		PARALLEL BLADE CONTROL DAMPER WITH ACTUATOR
THIS IS A GENERAL LIST OF SYMBOLS. ALL SYMBOLS MAY NOT BE USED ON A SPECIFIC PROJECT		

PIPING LEGEND

SYMBOL	DESCRIPTION
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSATE LINE
	REFRIGERANT PIPING
	HEATING HOT WATER SUPPLY
	HEATING HOT WATER RETURN
	PIPE REDUCER
	PIPE UNION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BALL VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	SAFETY OR PRESSURE RELIEF VALVE
	VALVE IN RISER
	DIRECTION OF FLOW
	TOP CONNECTION, 45 OR 90 DEGREES
	BOTTOM CONNECTION, 45 OR 90 DEGREES
	SIDE CONNECTION
	CAPPED OUTLET
	DROP IN PIPING
	RISE IN PIPING
	SOLENOID VALVE
	OUTSIDE SCREW AND YOKE
	WATER FLOW MEASURING DEVICE
	ANGLE GLOBE VALVE
	PRESSURE GAUGE
	STRAINER WITH BALL VALVE
	EXPANSION JOINT
	BTU FLOW METER



1 MECHANICAL PHASING PLAN



2 PHASING PLAN ISOMETRICS

GENERAL NOTES:

- DOMESTIC HOT WATER SYSTEM DOWNTIME SHALL NOT EXCEED 24 HOURS WITHOUT THE TEMPORARY BOILER BEEN INSTALLED.
- CONTRACTOR SHALL PROVIDE PHASING PLANS DENOTING ORDER THAT WORK WILL BE ACCOMPLISHED.
- CONTRACTOR SHALL NOTIFY ORANGE COUNTY AT LEAST ONE WEEK IN ADVANCE PRIOR TO SHUT DOWN OF ANY HVAC SYSTEMS.
- ALL CEILING WORK LOCATED IN PUBLIC SPACES SHALL BE DONE AT NIGHT.
- CLASSROOMS LOCATED ON 2ND, 4TH AND 6TH FLOORS WILL REQUIRE CORRECTIONS OFFICER ESCORT. COORDINATE CONSTRUCTION SCHEDULE WITH CLASSROOM SCHEDULING.
- CEILING/WALL OPENINGS SHALL BE COVERED DURING NON-CONSTRUCTION WORK HOURS. SEE ARCHITECTURAL SHEET FOR MORE INFORMATION.
- ALL HOT-WORK PERMITS SHALL BE FILLED OUT ON A DAILY BASIS.
- ALL CARPETING AND EXISTING FINISHES SHALL BE PROTECTED DURING PIPE INSTALLATION.

PHASING PLAN NOTES:

- PHASE 1:
- DEACTIVATE BOILER, LOCK-OUT BREAKER AND ISOLATE HOT WATER VALVES.
 - NITROGEN PURGE GAS PIPING FROM BOILER ROOM ISOLATION VALVE TO BOILER.
 - CLOSE ISOLATION VALVES FOR DOMESTIC HOT WATER IN PUMP ROOM 173.
 - DRAIN DOMESTIC HOT WATER PIPING AND ADD ISOLATION VALVES FOR TEMPORARY BOILER CONNECTION.
 - INSTALL 2 MILLION BTUH TEMPORARY BOILER INCLUDING: POWER, GAS AND FLEXIBLE HOT WATER PIPING.
- PHASE 2:
- CLOSE ISOLATION VALVES FOR SPACE HEATING HOT WATER LOCATED IN MECH ROOM 172 AND ISOLATE BOILER PUMP LOOP FROM BUILDING.
 - DRAIN BOILER LOOP HOT WATER PIPING.
 - REPLACE PIPING IN BOILER ROOM 197 AND MECH ROOM 172.
- PHASE 3:
- REMOVE TEMPORARY BOILER AND ASSOCIATED COMPONENTS.
 - OPEN VALVE FOR DOMESTIC HOT WATER LOOP.
 - DRAIN SPACE HEATING PIPING.
 - REPLACE SPACE HEATING PIPING IN THE FOLLOWING ORDER:
 - FIRST FLOOR
 - RISER (FOUR IN TOTAL)
 - ROOF TOP UNIT HOT WATER PIPING
 - FLOORS 2ND THRU 6TH



Consultants:

EOR Stamp:



Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

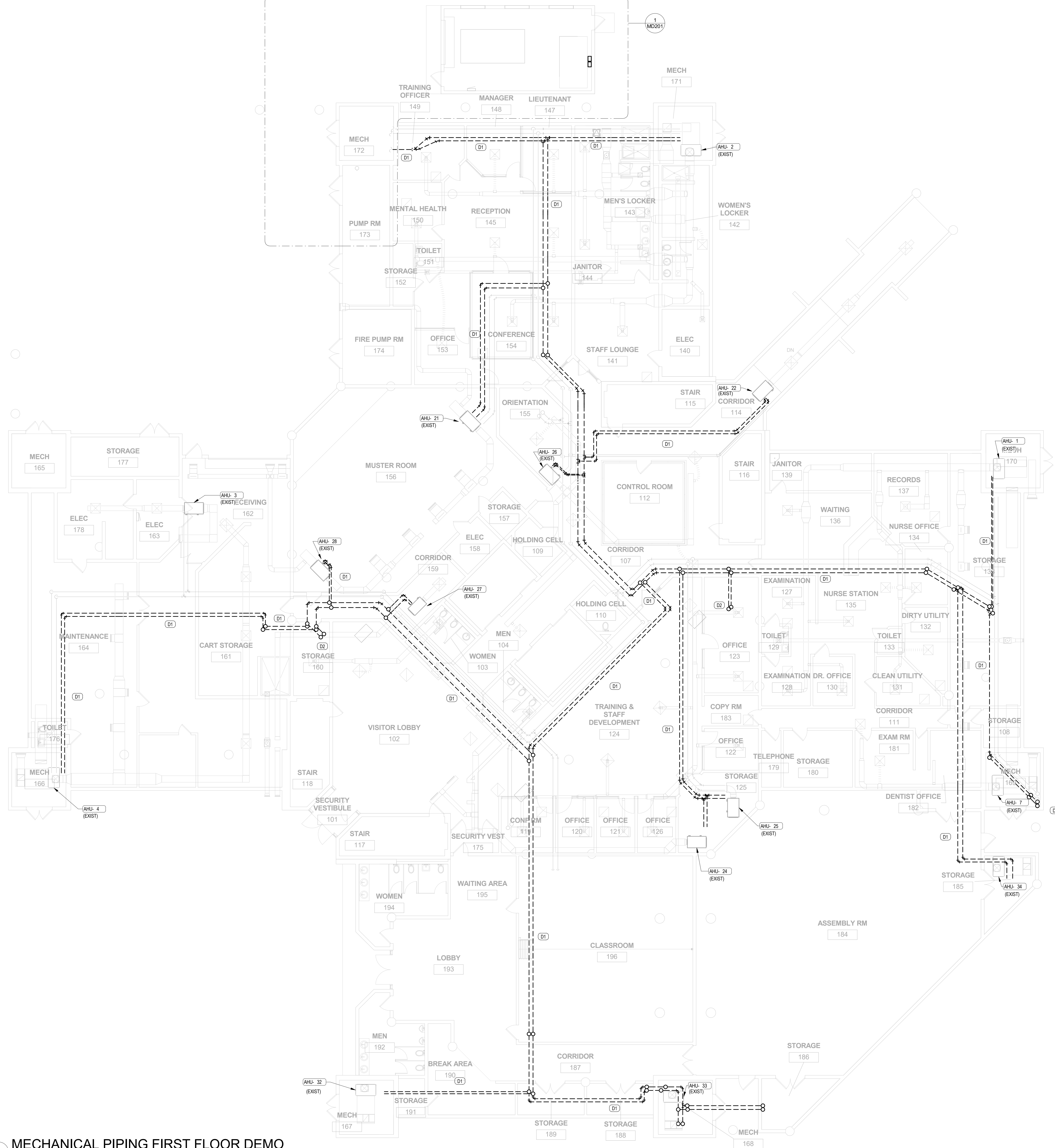
Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML Checked By: DL

MECHANICAL PHASING PLAN

Sheet No.:
M100



- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
 - OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PATCH AND SEAL ALL WALL/FLOOR PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE NOT USED FOR NEW PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.
 - CONTROLS WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

- MD101 DEMOLITION PLAN NOTES (DF)**
- REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING: PIPE SPECIALTIES, CONTROL VALVES, ETC. IN ITS ENTIRETY BACK TO AHU/FCU PIPE CONNECTIONS. ALL AHU/FCU CONTROL VALVES SHALL BE OFFERED TO OWNER AS SALVAGE. SEE NEW PLANS FOR NEW WORK.
 - REMOVE AND DISCARD EXISTING HEATING HOT WATER RISER. PRESERVE PIPE PENETRATION FOR NEW PIPE RISER ROUTING.

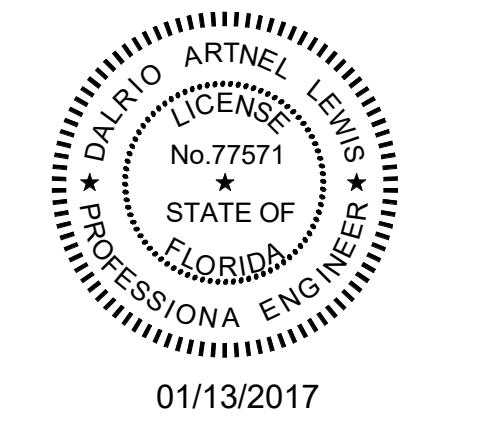


Client:



Consultants:

EOR Stamp:



01/13/2017

Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY CORRECTIONS HORIZONS AHU HOT WATER REPLACEMENT

Location:
3723 VISION BLVD. ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

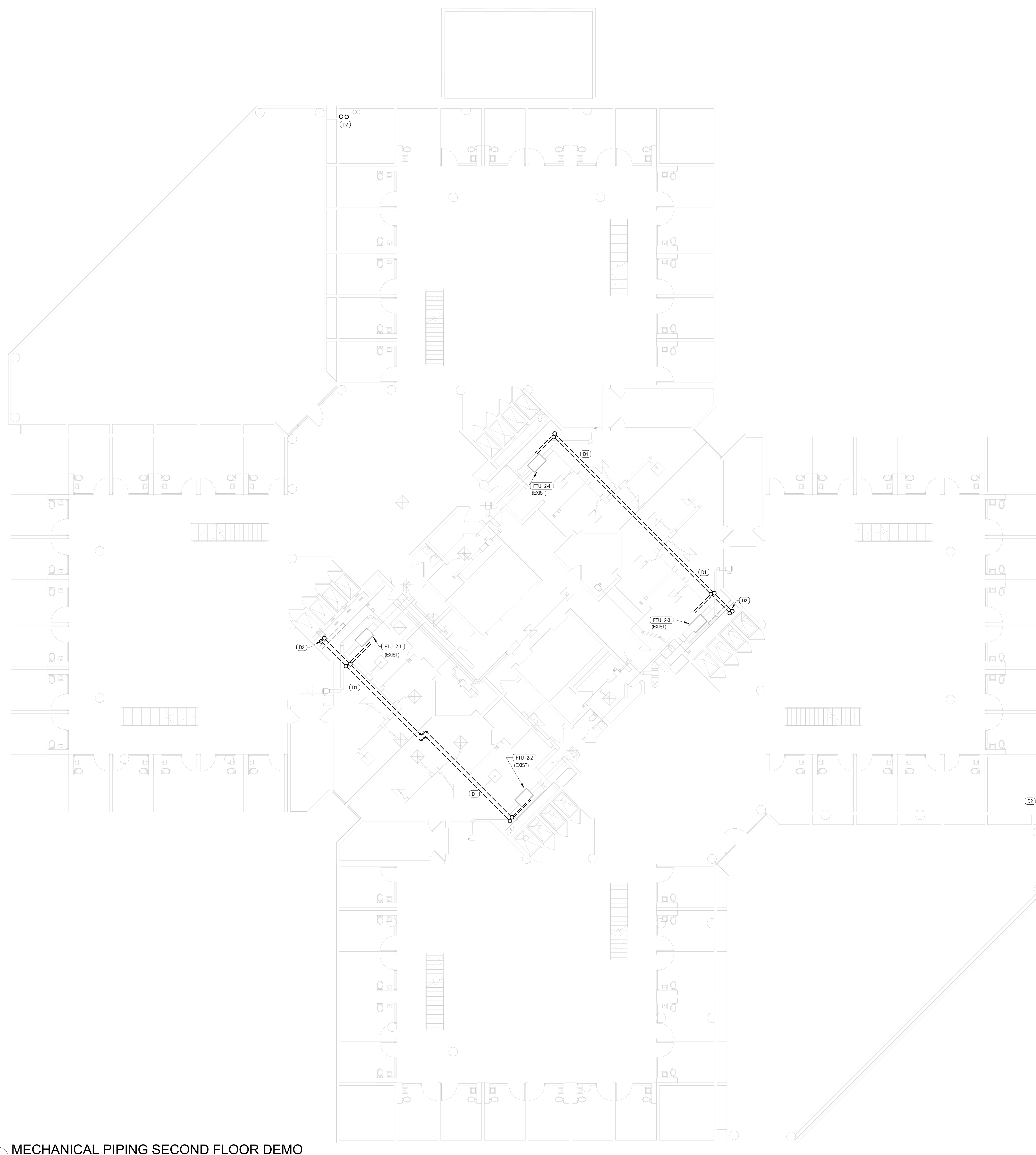
Project Number:
15.OC.018

Drawn By: ML Checked By: DL

MECHANICAL PIPING FIRST FLOOR DEMO PLAN

Sheet No.:

MD101



- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
 - OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PATCH AND SEAL ALL WALL/FLOOR PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE NOT USED FOR NEW PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.
 - CONTROLS WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

- MD102 DEMOLITION PLAN NOTES (D1)**
- REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING PIPE SPECIALTIES, CONTROL VALVES, ETC. IN ITS ENTIRETY BACK TO MAIN FCU PIPE CONNECTIONS. SEE NEW PLANS FOR NEW WORK.
 - REMOVE AND DISCARD EXISTING HEATING HOT WATER RISER. PRESERVE PIPE PENETRATION FOR NEW PIPE RISER ROUTING.



Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: DL
Checked By: DL

**MECHANICAL
PIPING SECOND
FLOOR DEMO
PLAN**

Sheet No.:

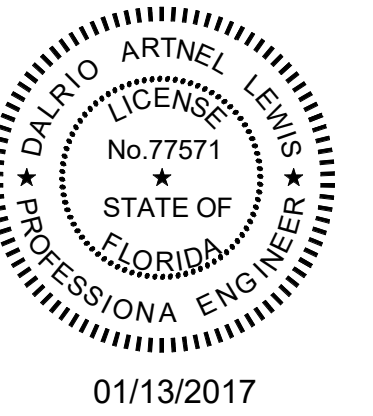
MD102

Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML
Checked By: DL

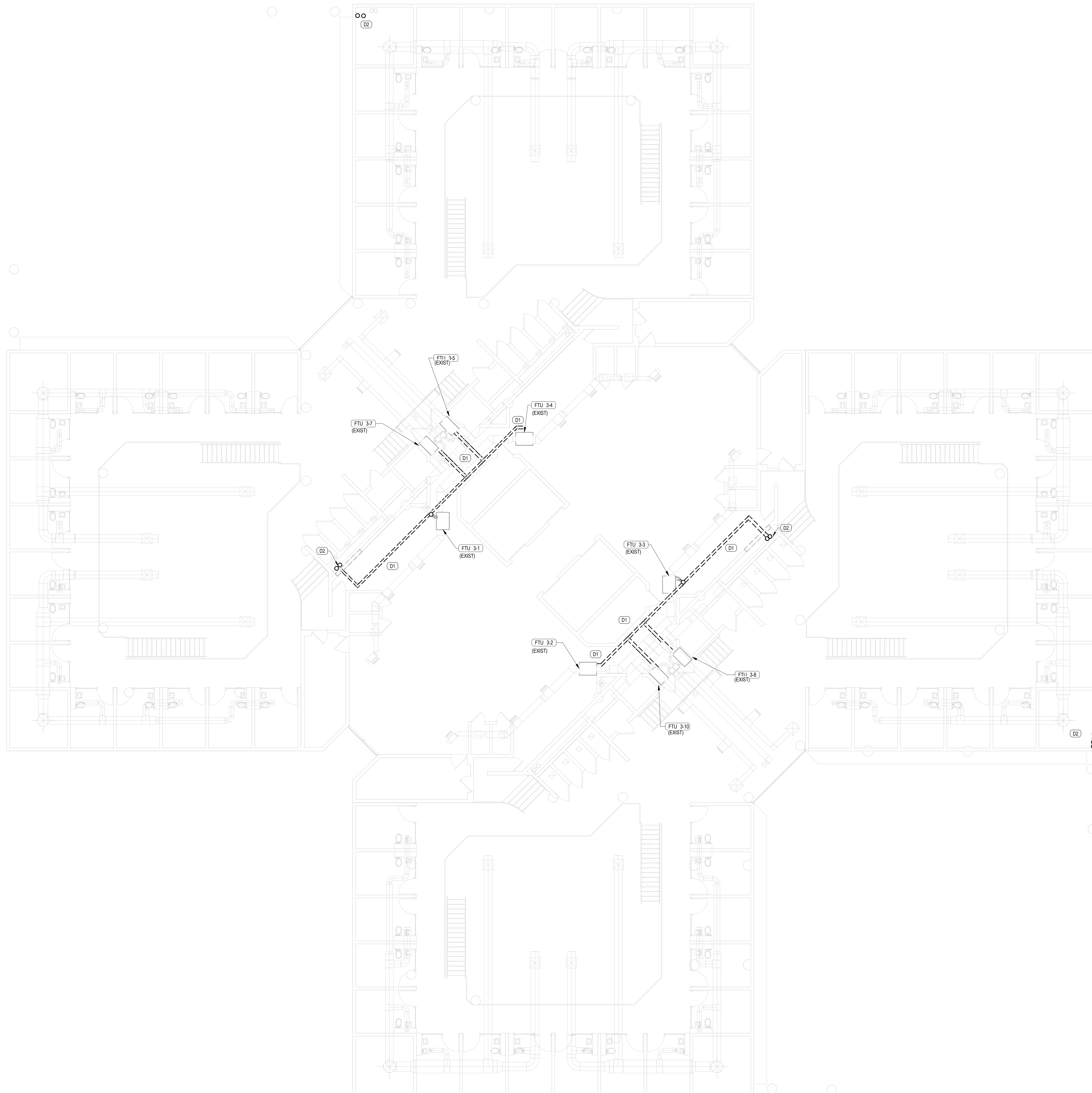
**MECHANICAL
PIPING THIRD
FLOOR DEMO
PLAN**

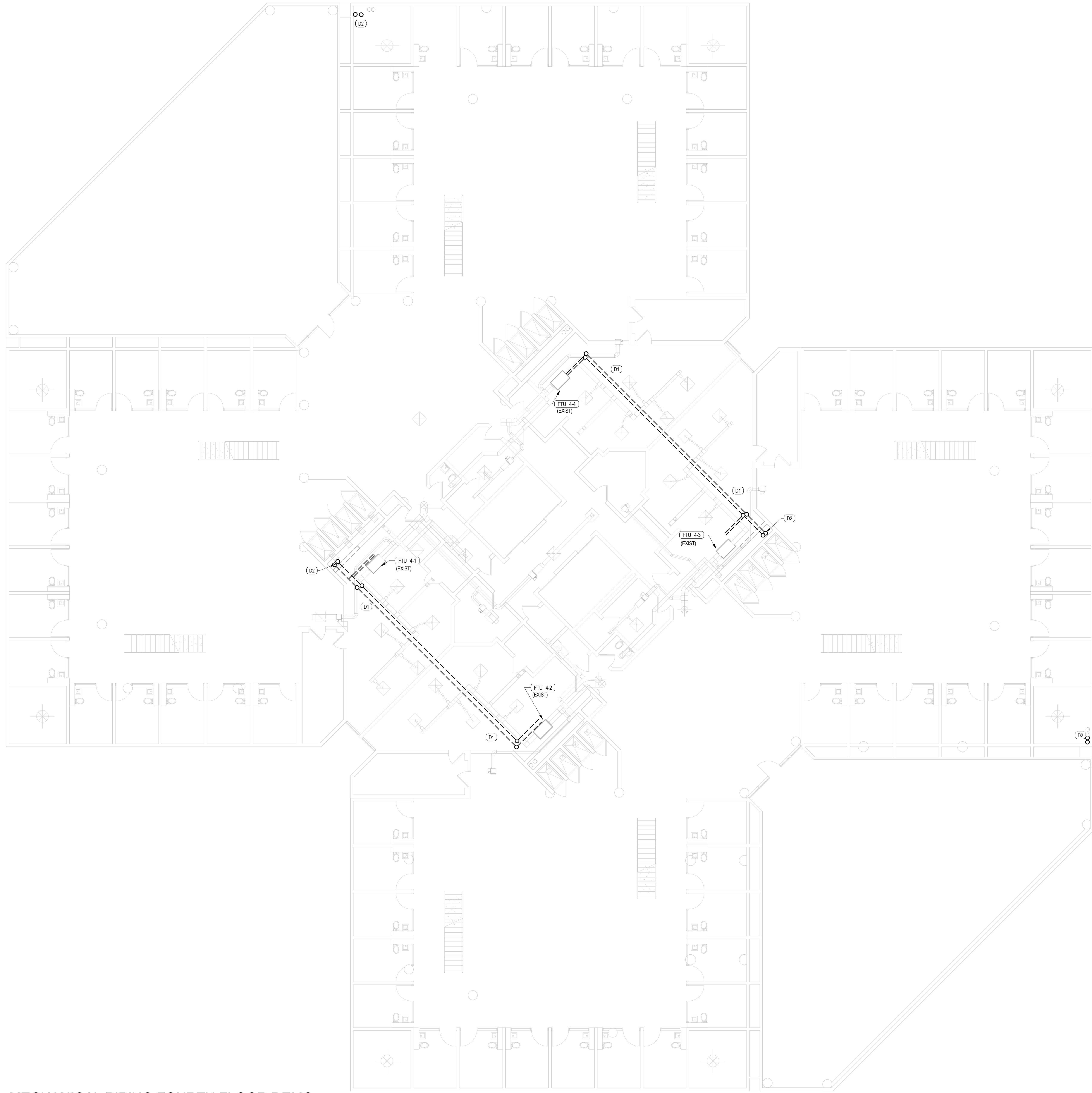
Sheet No.:

MD103

- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
 - OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PATCH AND SEAL ALL WALL/FLOOR PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE NOT USED FOR NEW PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.
 - CONTROLS WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

- MD103 DEMOLITION PLAN NOTES (D)**
- REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING PIPE SPECIALTIES, CONTROLS, VALVES, ETC. IN ITS ENTIRETY BACK TO AHJ/FCU PIPE CONNECTIONS. SEE NEW PLANS FOR NEW WORK.
 - REMOVE AND DISCARD EXISTING HEATING HOT WATER RISER, PRESERVE PIPE PENETRATION FOR NEW PIPE RISER ROUTING.





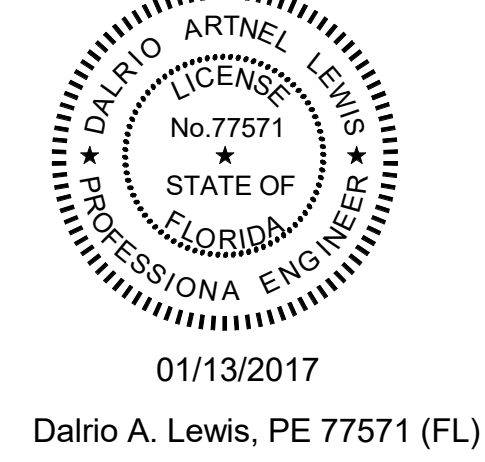
- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
 - OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PATCH AND SEAL ALL WALL/FLOOR PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE NOT USED FOR NEW PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.
 - CONTROLS WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

- MD104 DEMOLITION PLAN NOTES (DP)**
- REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING PIPE SPECIALTIES, CONTROLS, VALVES, ETC. IN ITS ENTIRETY BACK TO AHJ/FCU PIPE CONNECTIONS. SEE NEW PLANS FOR NEW WORK.
 - REMOVE AND DISCARD EXISTING HEATING HOT WATER RISER. PRESERVE PIPE PENETRATION FOR NEW PIPE RISER ROUTING.



Client:

Consultants:



Project:
ORANGE COUNTY CORRECTIONS HORIZONS AHJ HOT WATER REPLACEMENT

Location:
3723 VISION BLVD. ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML Checked By: DL

MECHANICAL PIPING FOURTH FLOOR DEMO PLAN

Sheet No.:

MD104

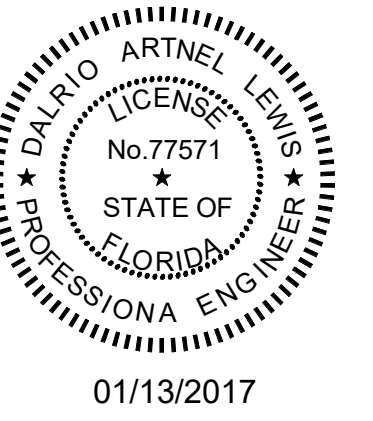
1 MECHANICAL PIPING FOURTH FLOOR DEMO

Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: DL
Checked By: DL

**MECHANICAL
PIPING FIFTH
FLOOR DEMO
PLAN**

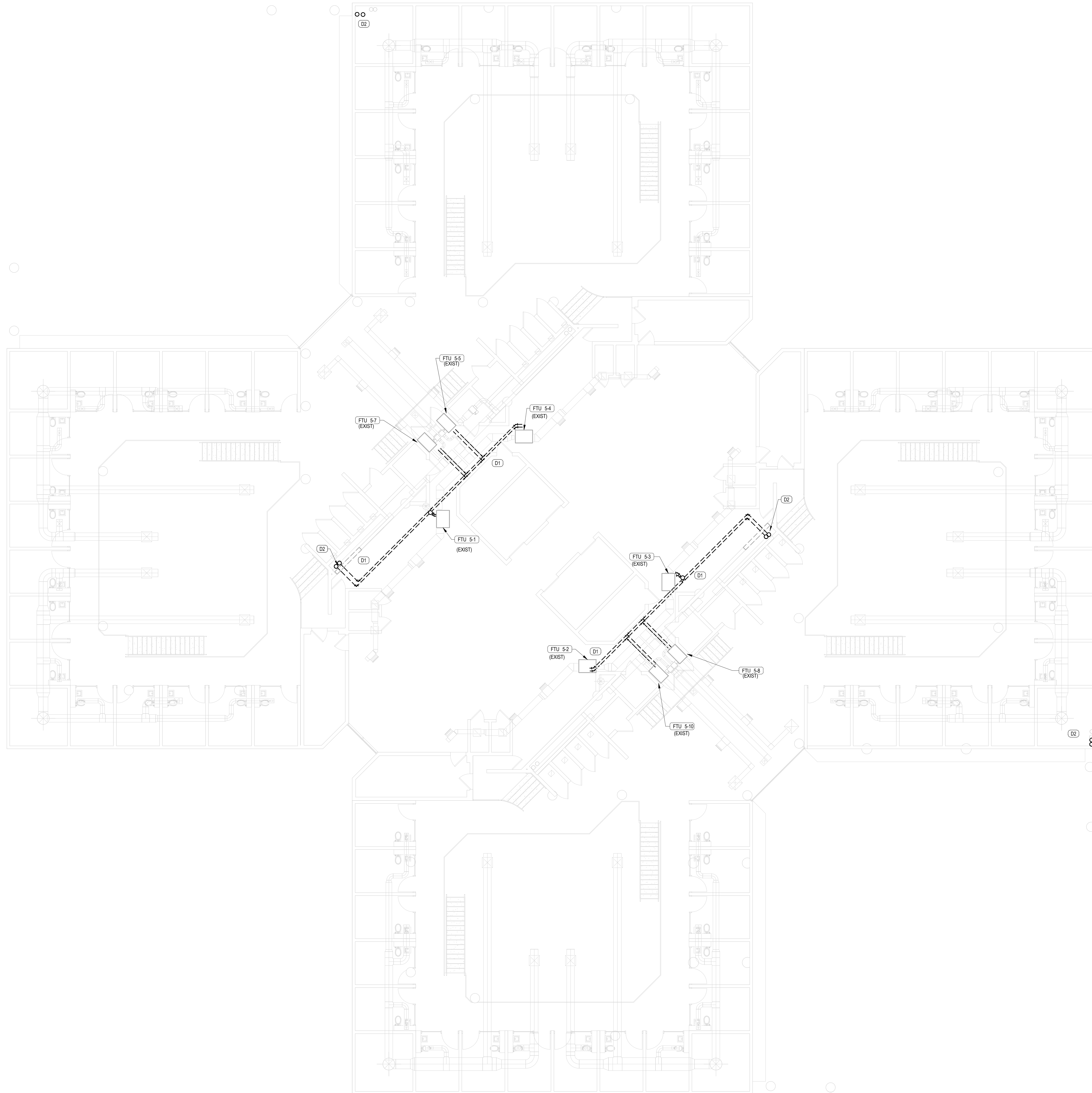
Sheet No.:

MD105

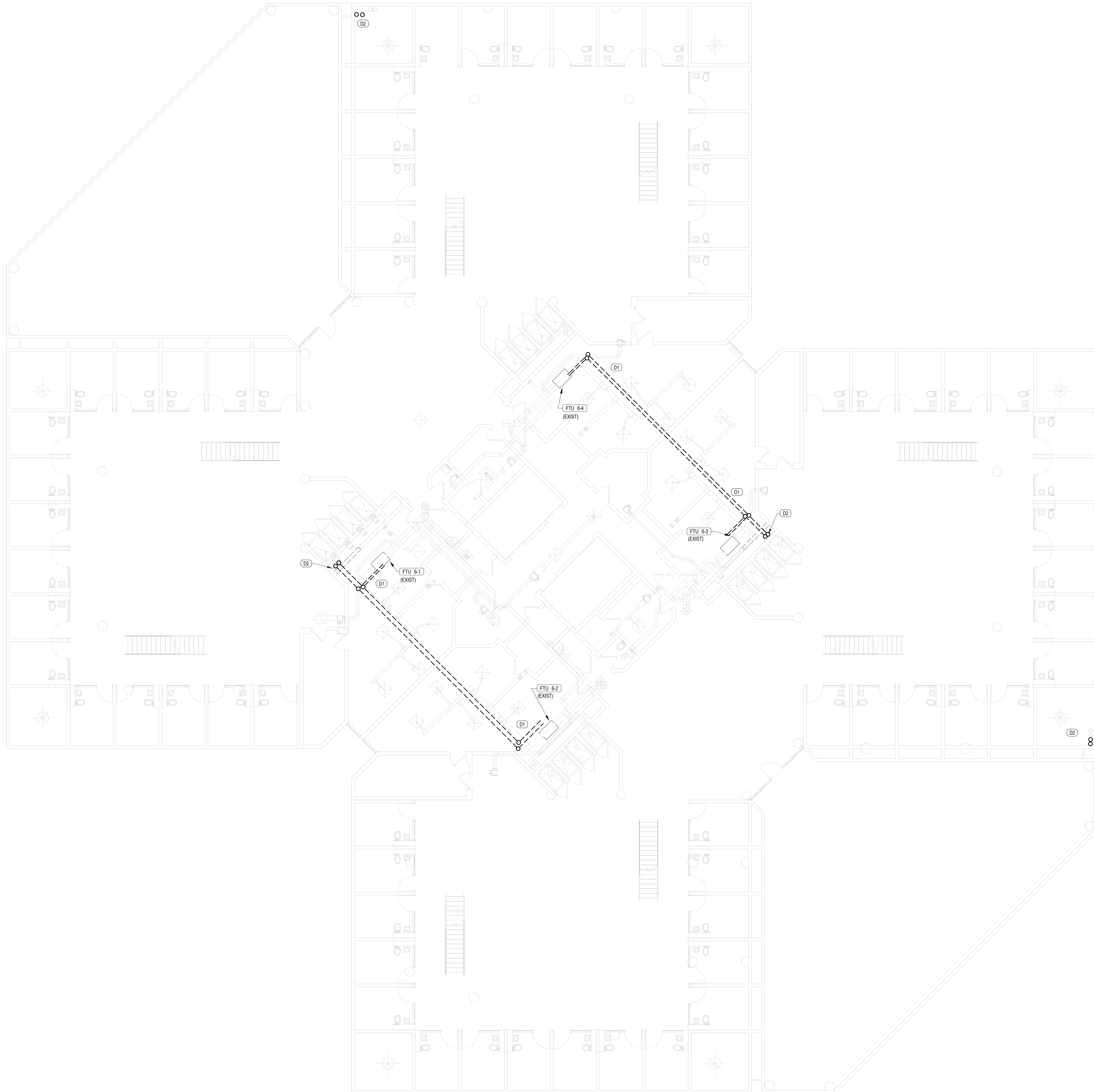
- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
 - OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PATCH AND SEAL ALL WALL/FLOOR PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE NOT USED FOR NEW PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.
 - CONTROLS WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

MD105 DEMOLITION PLAN NOTES (DB)

- REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING: PIPE SPECIALTIES, CONTROL VALVES, ETC. IN ITS ENTIRETY BACK TO AHJ/FCU PIPE CONNECTIONS. SEE NEW PLANS FOR NEW WORK.
- REMOVE AND DISCARD EXISTING HEATING HOT WATER RISER. PRESERVE PIPE PENETRATION FOR NEW PIPE RISER ROUTING.



1 MECHANICAL PIPING FIFTH FLOOR DEMO



- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
 - OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PATCH AND SEAL ALL WALL/FLOORS PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE. NOT USED FOR NEW PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.
 - CONTROLS WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

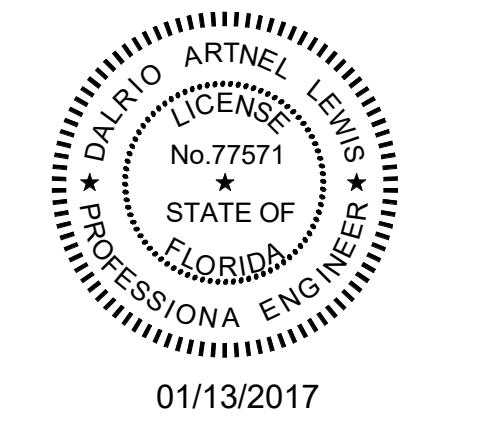
- MD106 DEMOLITION PLAN NOTES (DF)**
- D1 REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING: PIPE SPECIALTIES, CONTROL VALVES, ETC. IN ITS ENTIRETY BACK TO AHU/FCU PIPE CONNECTIONS. SEE NEW PLANS FOR NEW WORK.
 - D2 REMOVE AND DISCARD EXISTING HEATING HOT WATER RISER. PRESERVE PIPE PENETRATION FOR NEW PIPE RISER ROUTING.



Client:

Consultants:

EOR Stamp:



Dario A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY CORRECTIONS HORIZONS AHU HOT WATER REPLACEMENT

Location:
3723 VISION BLVD. ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML Checked By: DL

MECHANICAL PIPING SIXTH FLOOR DEMO PLAN

Sheet No.:

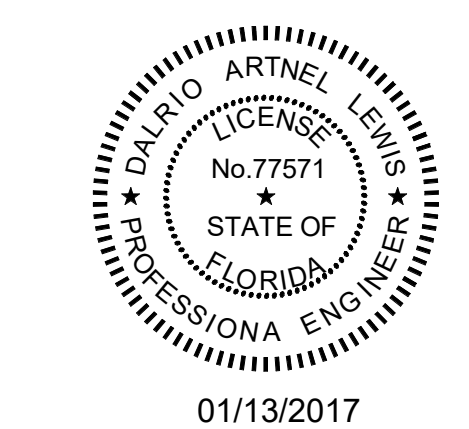
MD106

Client:



Consultants:

EOR Stamp:



01/13/2017
Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML
Checked By: DL

**MECHANICAL
PIPING
SEVENTH
FLOOR DEMO
PLAN**

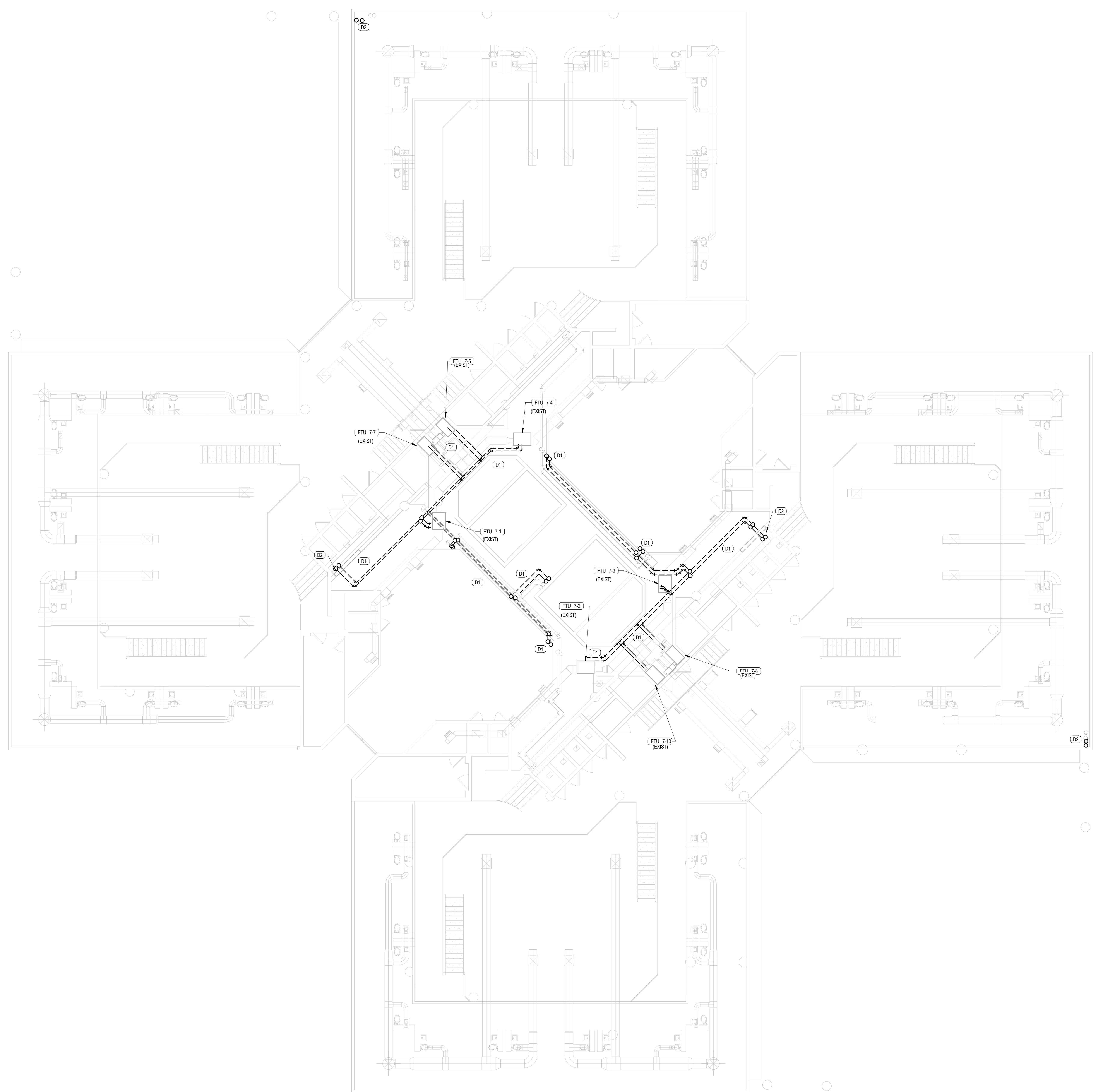
Sheet No.:

MD107

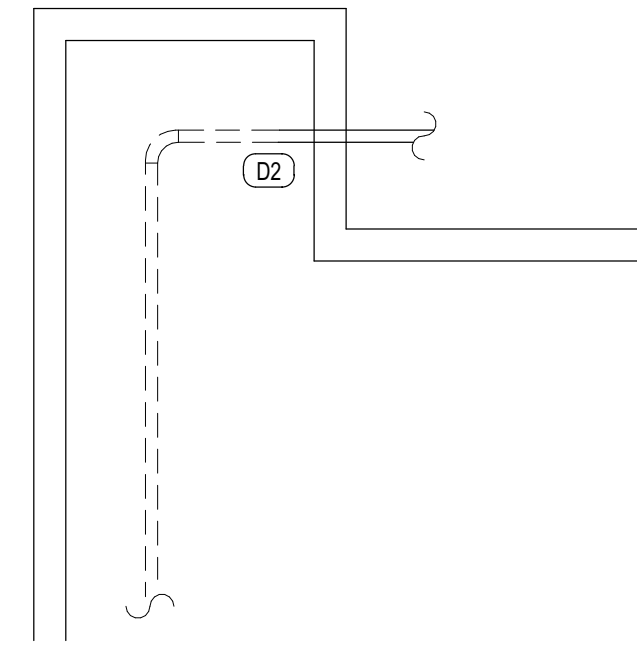
- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
 - OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PATCH AND SEAL ALL WALL/FLOOR PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE NOT USED FOR NEW PIPING.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR CLEARING ALARM IN THE EXISTING FIRE ALARM SYSTEMS INCURRED DURING CONSTRUCTION WHILE REMOVING/REINSTALLATION OF CEILING AND PIPES.
 - CONTROLS WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

MD107 DEMOLITION PLAN NOTES (DB)

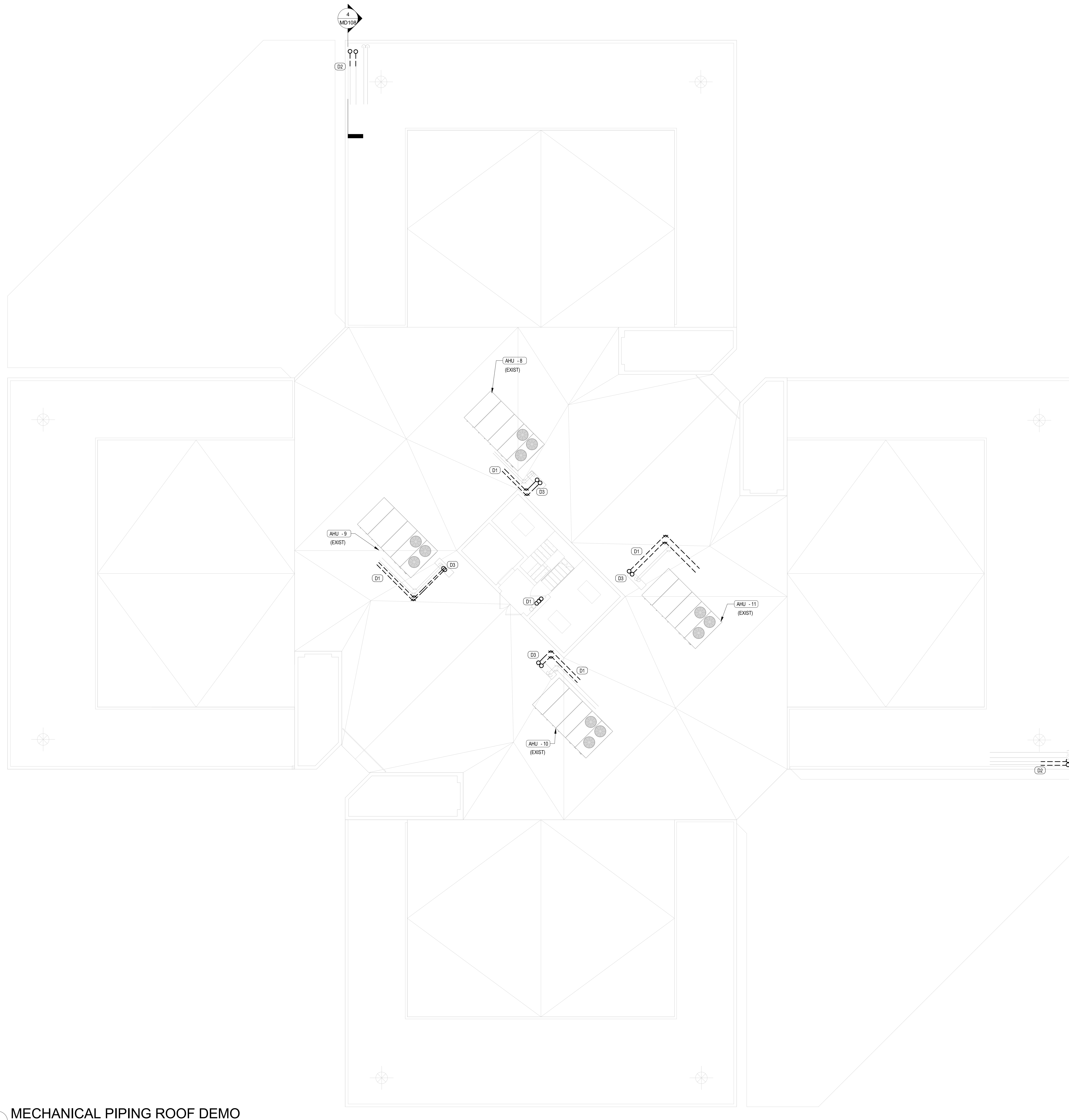
- D1 REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING: PIPE, SPECIALTIES, CONTROL VALVES, ETC. IN ITS ENTIRETY BACK TO AHU/FCU PIPE CONNECTIONS. SEE NEW PLANS FOR NEW WORK.
- D2 REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING UP TO EXISTING ROOF PENETRATION. PRESERVE PIPE PENETRATION FOR NEW PIPE RISER ROUTING SEE NEW PLAN FOR NEW WORK.



1 MECHANICAL PIPING SEVENTH FLOOR DEMO



4 PARTIAL ROOF SECTION



1 MECHANICAL PIPING ROOF DEMO

GENERAL NOTES:

1. SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
2. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL PATCH AND SEAL ALL WALL/FLOOR PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE NOT USED FOR NEW PIPING.
4. CONTROLS WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

MD108 DEMOLITION PLAN NOTES (Df)

- D1 REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING: PIPE SPECIALTIES, CONTROL VALVES, ETC. IN ITS ENTIRETY BACK TO AHU/FICU PIPE CONNECTIONS. SEE NEW PLANS FOR NEW WORK.
- D2 REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING UP TO EXISTING ROOF PENETRATION. SEE NEW PLAN FOR NEW WORK.
- D3 REMOVE AND DISCARD EXISTING HEATING HOT WATER RISER IN DOGHOUSE. PRESERVE ROOF PENETRATIONS FOR NEW PIPING.

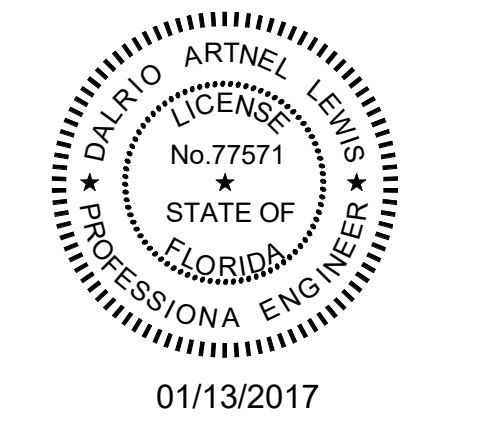


Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML Checked By: DL

MECHANICAL PIPING ROOF DEMO PLAN

Sheet No.:

MD108

Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML	Checked By: DL
-----------------	-------------------

MECHANICAL
PIPING ELEV.
MACH. ROOM
DEMO PLAN

Sheet No.:

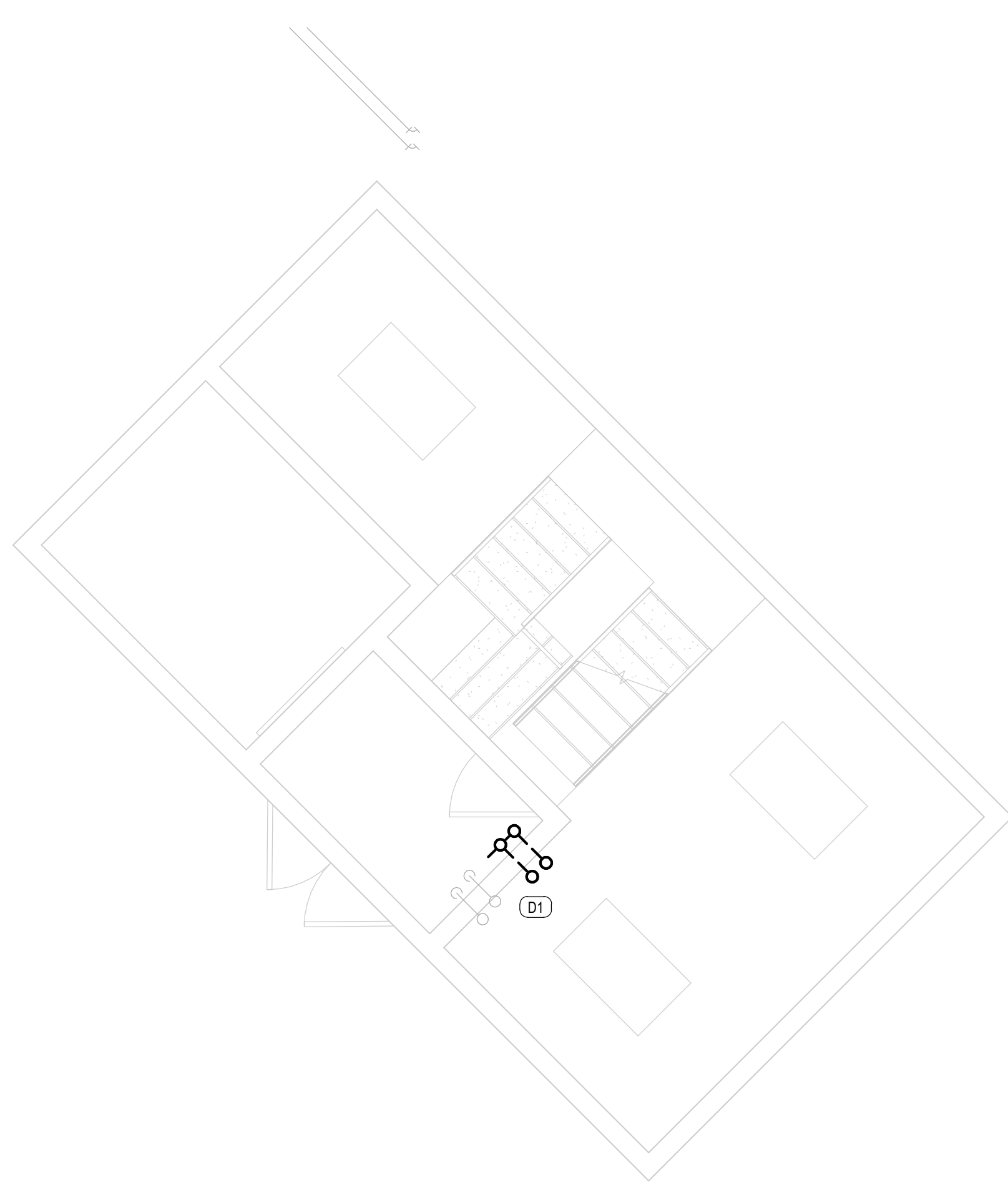
MD109

GENERAL NOTES:

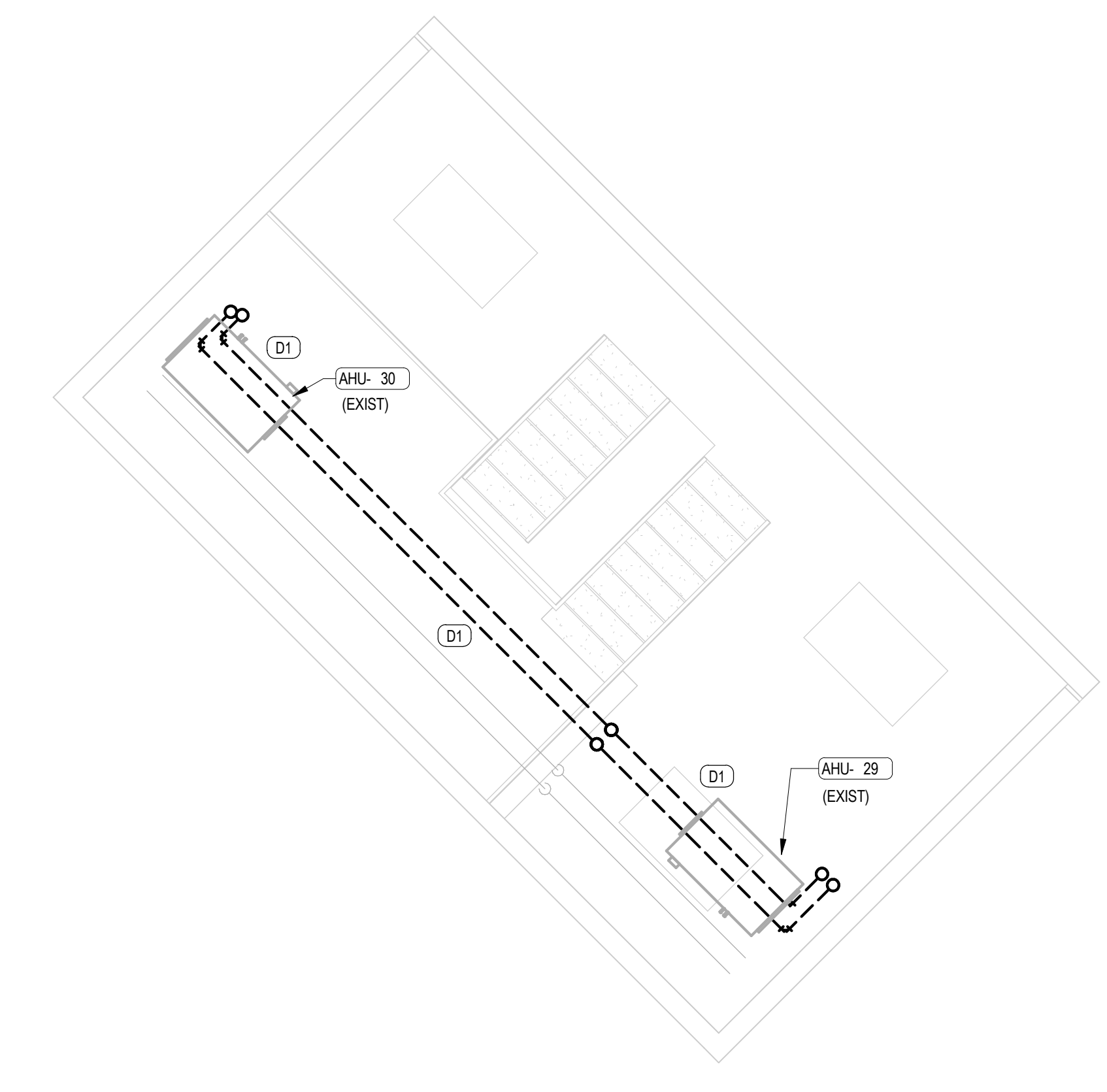
- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PATCH AND SEAL ALL WALLS/FLOORS PENETRATIONS TO MATCH EXISTING BUILDING ENEVELOPE. NOT USED FOR NEW PIPING.
- CONTROL WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

MD109 DEMOLITION PLAN NOTES (D#)

- D1 REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING: PIPE SPECIALTIES, CONTROL VALVES, ETC. IN ITS ENTIRETY BACK TO AHU/FCU PIPE CONNECTIONS.



1 MECH RM ROOF - DEMO



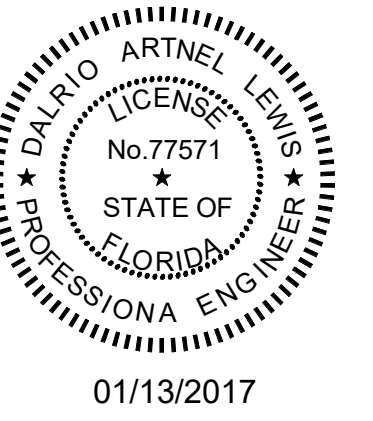
2 ELEV MACH RM 2 - DEMO

Client:



Consultants:

EOR Stamp:



01/13/2017
Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML	Checked By: DL
-----------------	-------------------

**MECHANICAL
DEMOLITION
ENLARGED PLAN**

Sheet No.:

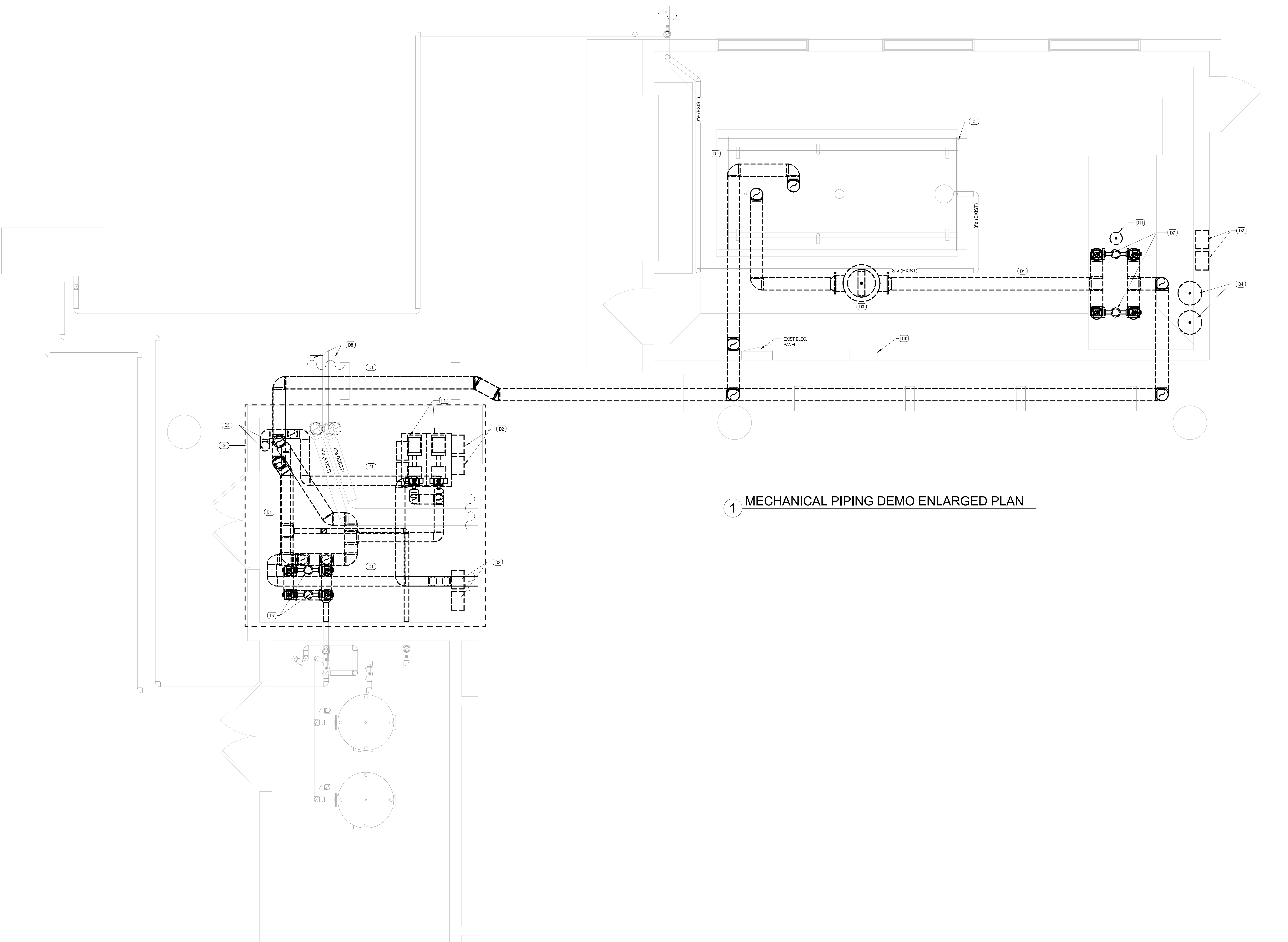
MD201

GENERAL NOTES:

- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON CEILING AND WALL REMOVAL. BUILDING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO PHASING PLANS FOR ADDITIONAL INFORMATION REGARDING THE PROPOSED SEQUENCING OF DEMO AND NEW WORK FOR THIS AREA.
- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLITION EQUIPMENT. IF OWNER REFUSES SALVAGE, CONTRACTOR SHALL DISPOSE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PATCH AND SEAL ALL WALL/CEILING PENETRATIONS TO MATCH EXISTING BUILDING ENVELOPE NOT USED FOR NEW PIPING.
- CONTROL WIRING SHALL BE DISCONNECTED AND RECONNECTED BY JOHNSON CONTROLS ONLY.

MD201 DEMOLITION PLAN NOTES

- D1 REMOVE AND DISCARD EXISTING HEATING HOT WATER PIPING INCLUDING: PIPE, SPECIALTIES, CONTROL VALVES, ETC. IN ITS ENTIRETY BACK TO AHU/COU PIPE CONNECTIONS. ALL AHU/COU CONTROL VALVES SHALL BE OFFERED TO OWNER AS SALVAGE. SEE NEW PLANS FOR NEW WORK.
- D2 REMOVE AND DISCARD EXISTING MOTOR STARTERS.
- D3 REMOVE AND DISCARD EXISTING AIR SEPARATOR. CAP MAKE-UP WATER PIPING FOR NEW CONNECTION.
- D4 REMOVE AND DISCARD EXISTING EXPANSION TANKS AND CORRESPONDING COMPONENTS.
- D5 REMOVE AND DISCARD EXISTING HEATING HOT WATER RISER. PRESERVE PIPE PENETRATION FOR NEW PIPE RISER ROUTING.
- D6 REFINISH FLOOR SURFACE TO BE LEVEL AND CLEAN. REMOVE ALL UNNECESSARY SUPPORTING DEVICES, CONDUITS, AND HANGERS. PATCH, REPAINT AND REFINISH ALL FLOORS AND WALLS.
- D7 REMOVE AND DISCARD EXISTING HOT WATER PUMPS.
- D8 EXISTING CHWSR TO REMAIN. REMOVE, RE-INSULATE, AND HACKET ALL EXISTING CHW IN MECHANICAL ROOM ACCORDING TO SPECIFICATIONS PROVIDE NEW PIPE LABELING AS DOCUMENTED IN SPECIFICATIONS.
- D9 EXIST BOILER TO REMAIN.
- D10 EXIST BAS CONTROLLER TO REMAIN.
- D11 REMOVE AND DISCARD EXISTING CHEMICAL SHOT FEEDER AND ALL CORRESPONDING COMPONENTS.
- D12 REMOVE AND DISCARD EXISTING HEATING HOT WATER PUMPS.



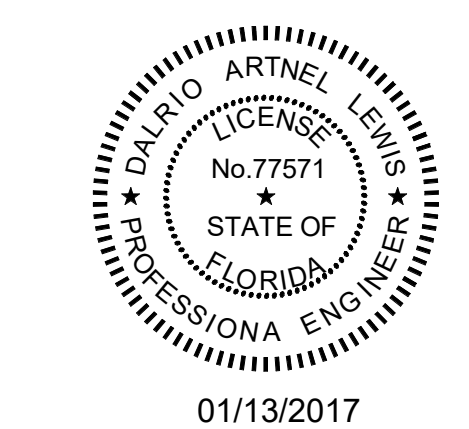
1 MECHANICAL PIPING DEMO ENLARGED PLAN

Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
 ORANGE COUNTY
 CORRECTIONS
 HORIZONS AHU HOT
 WATER REPLACEMENT

Location:
 3723 VISION BLVD.
 ORLANDO FL 32839

Issuance:
 PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
 12/16/16

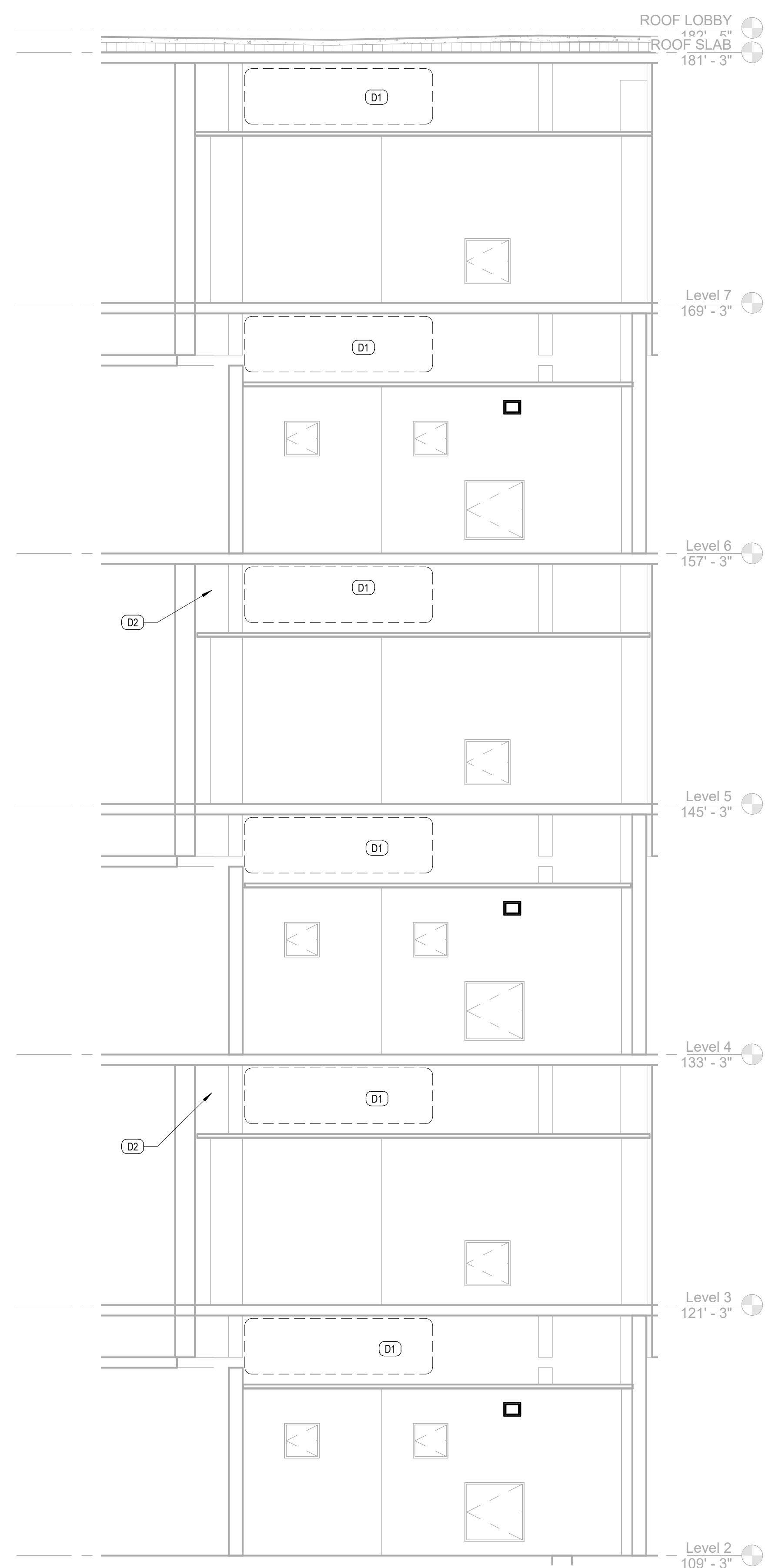
Project Number:
 15.OC.018

Drawn By: DL
Checked By: DL

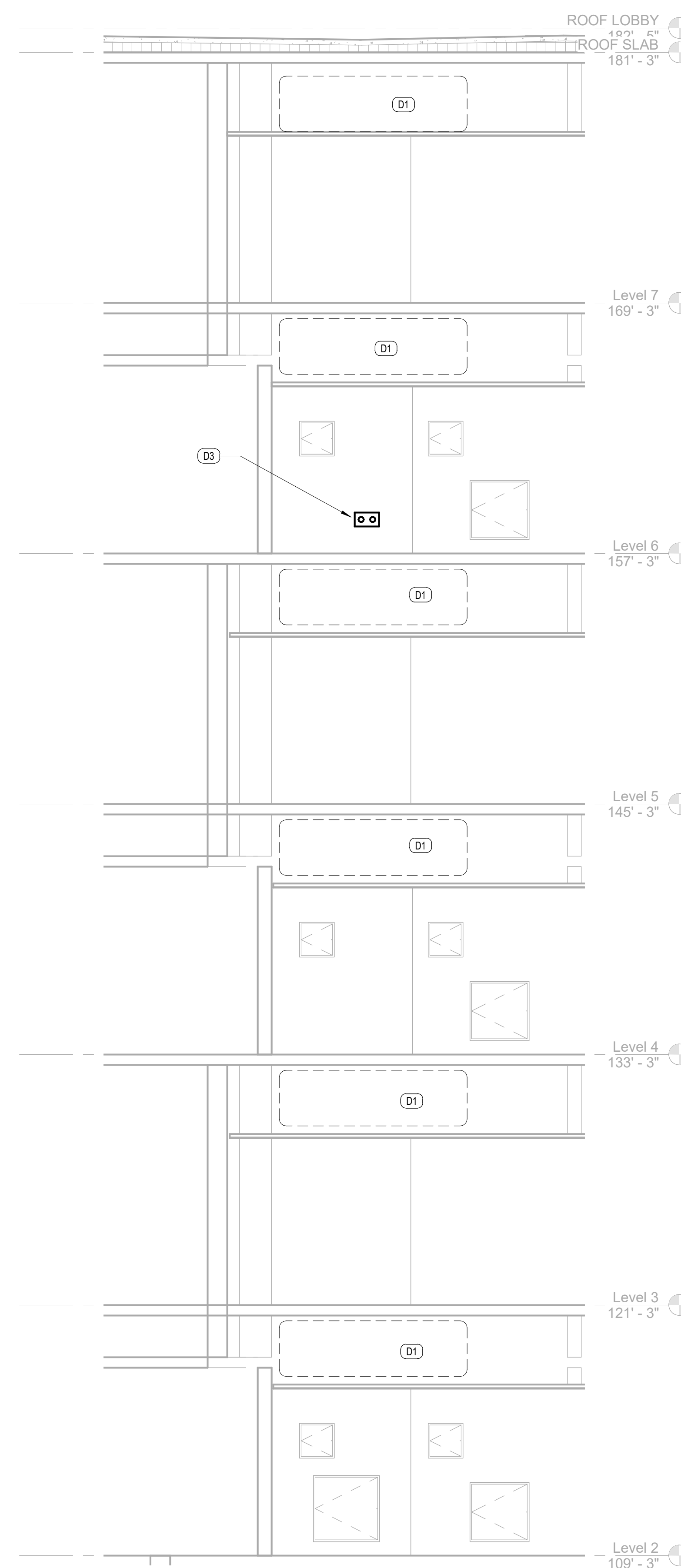
ENLARGED BUILDING SECTION - CHASE WALL DEMOLITION

Sheet No.:

- M202 KEY PLAN NOTES** (#)
- D1 EXISTING TRANSFER DUCT WITH INTEGRATED PNEUMATIC FIRE SMOKE DAMPER TO BE REMOVE STORED AND PROTECTED FOR REINSTALLATION. ALL DUCT AND PIPE PENETRATIONS TO MAINTAIN UL LISTED 2-HOUR FIRE RATING. SEE DETAIL.
 - D2 SEAL EXISTING CORE PENETRATION TO MAINTAIN EXISTING WALL RATING.
 - D3 EXISTING ELECTRICAL DUPLEX RECEPTACLE TO BE RELOCATED.



2 ENLARGED BUILDING SECTION - WEST CHASE WALL



1 ENLARGED BUILDING SECTION - EAST CHASE WALL

- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
 - CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING.
 - SEE DETAIL SHEET M302 DETAIL 1&2 FOR AHU/FU PIPE CONNECTION.
 - SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.

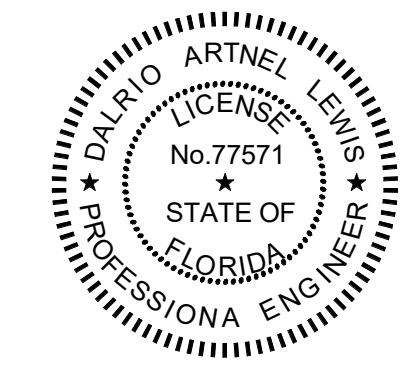
- M101 PLAN NOTES (#)**
- NEW ISOLATION VALVES.
 - RELOCATED CONDUITS IN THIS LOCATION TO ACCOMMODATE NEW HEATING HOT WATER PIPING. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

Client:



Consultants:

EOR Stamp:



01/13/2017
Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY CORRECTIONS HORIZONS AHU HOT WATER REPLACEMENT

Location:
3723 VISION BLVD. ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

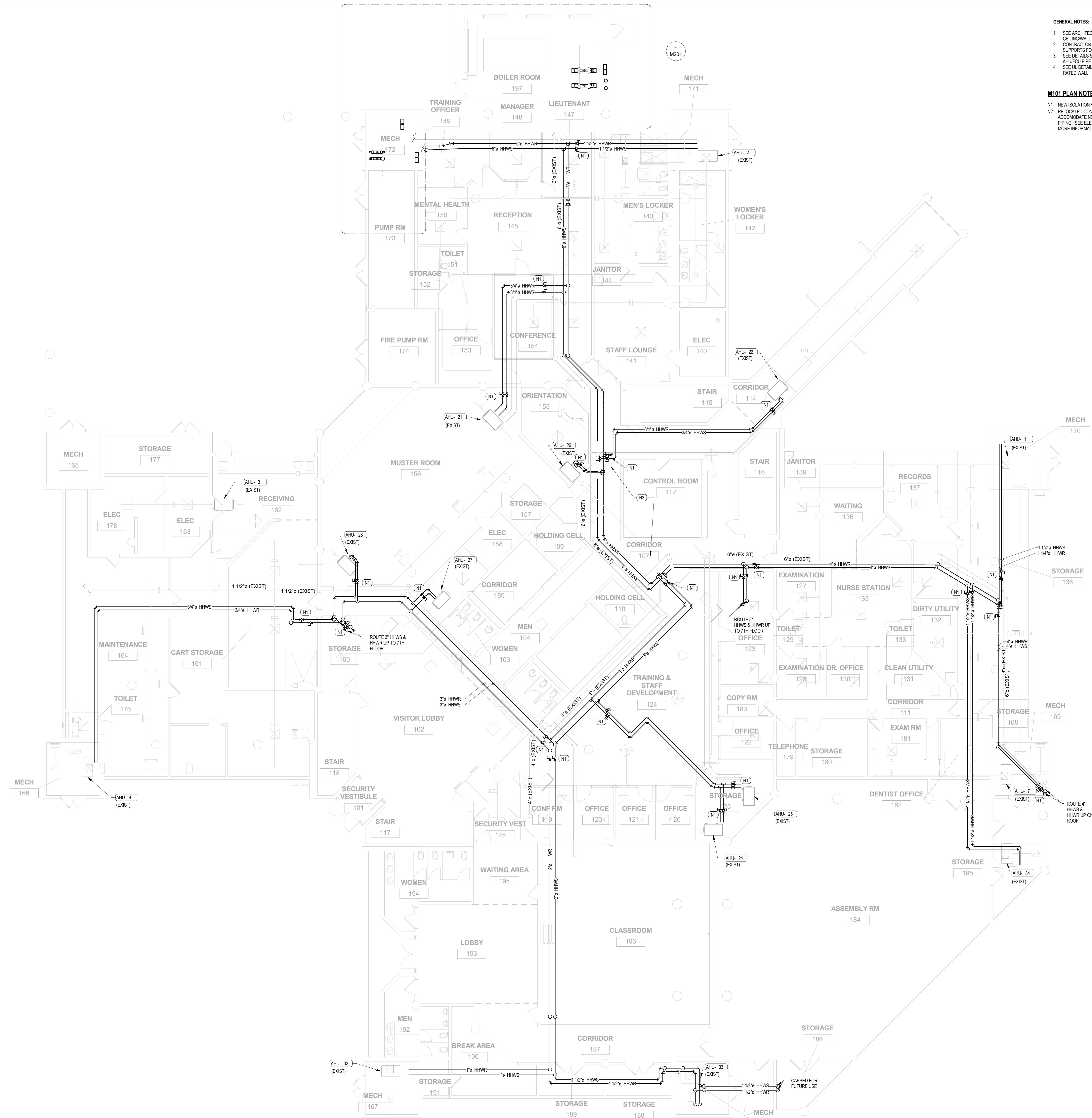
Project Number:
15.OC.018

Drawn By: ML
Checked By: DL

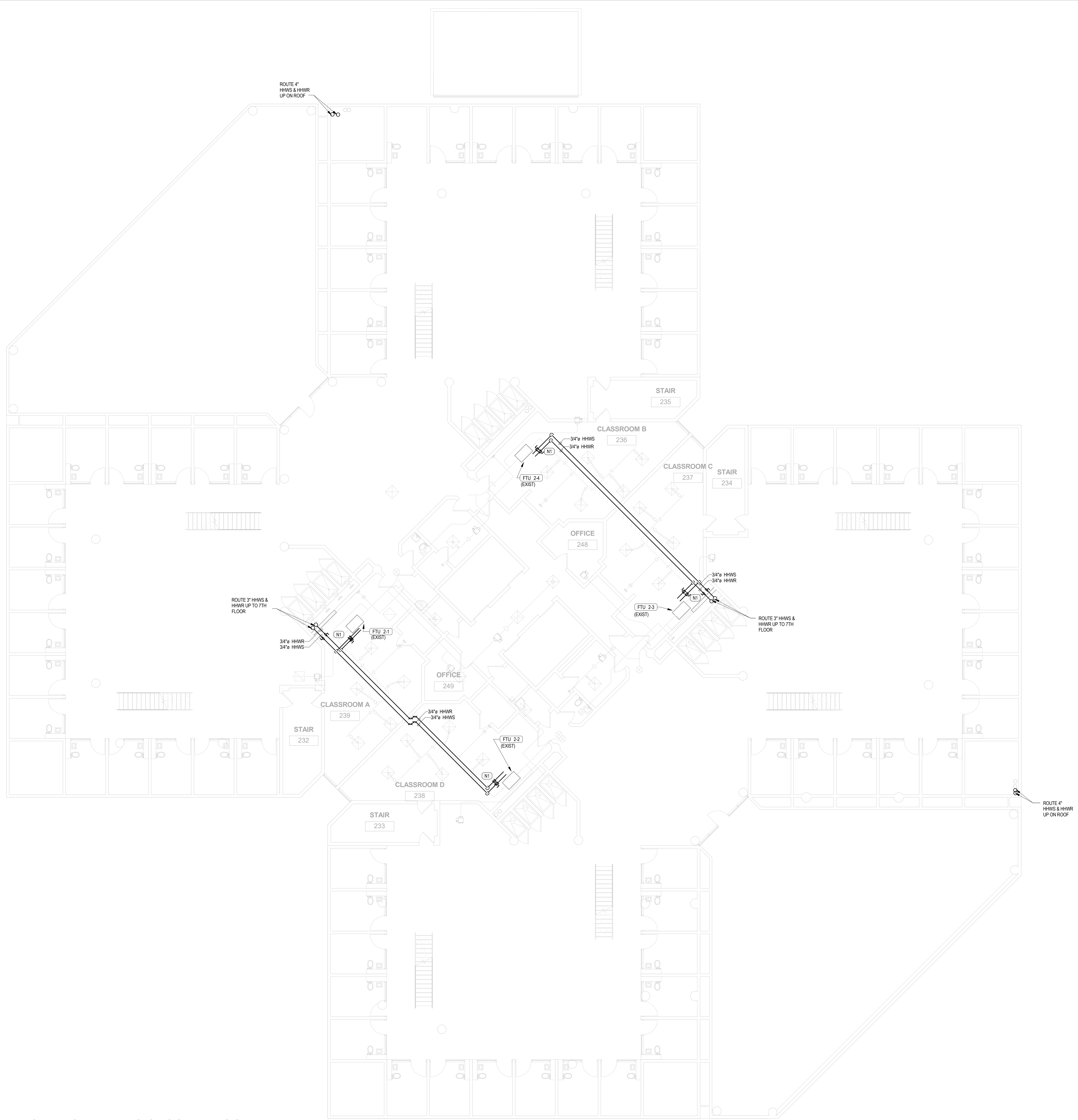
MECHANICAL PIPING FIRST FLOOR

Sheet No.:

M101



MECHANICAL PIPING FIRST FLOOR



- GENERAL NOTES:**
1. SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
 2. CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING.
 3. SEE DETAIL SHEET M002 DETAIL 1&2 FOR AHU/FU/PFE CONNECTION.
 4. SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.

M102 PLAN NOTES
 N1 NEW ISOLATION VALVES.

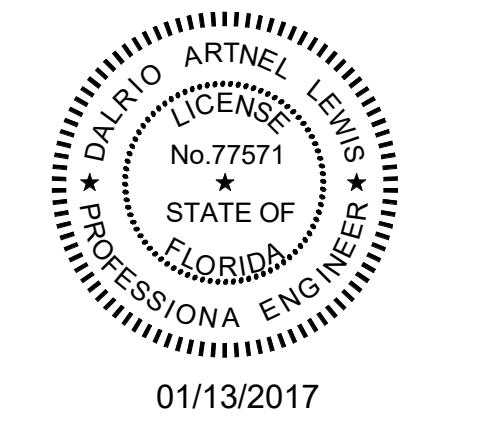


Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
 ORANGE COUNTY CORRECTIONS
 HORIZONS AHU HOT WATER REPLACEMENT

Location:
 3723 VISION BLVD.
 ORLANDO FL 32839

Issuance:
 PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
 12/16/16

Project Number:
 15.OC.018

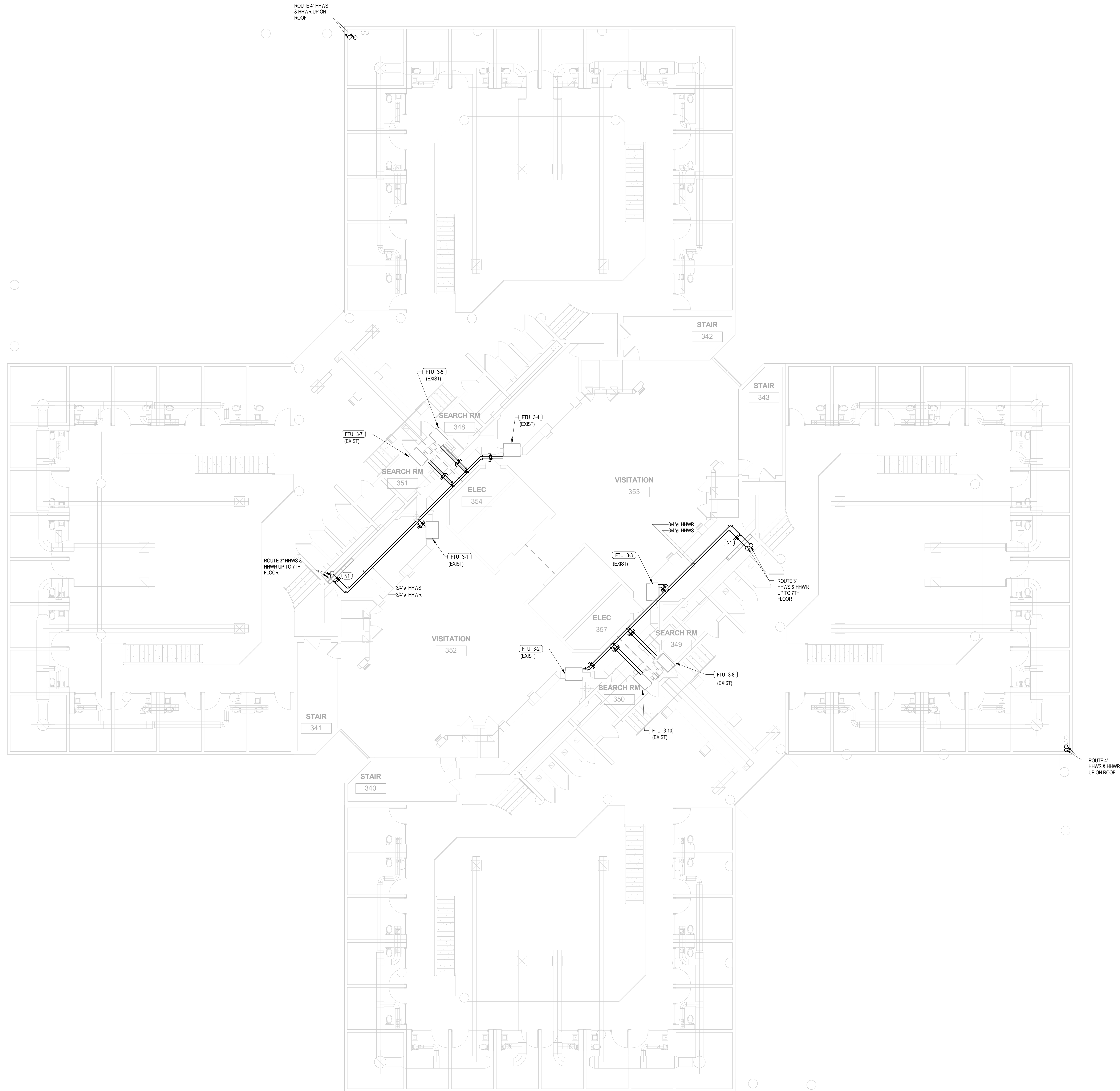
Drawn By: ML
 Checked By: DL

MECHANICAL PIPING SECOND FLOOR

Sheet No.:

M102

1 MECHANICAL PIPING SECOND FLOOR



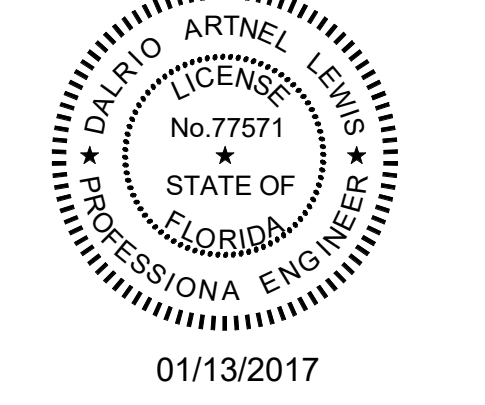
- GENERAL NOTES:**
1. SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
 2. CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING.
 3. SEE DETAIL SHEET M302 DETAIL 1&2 FOR AHU/FCU PIPE CONNECTION.
 4. SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.

M103 PLAN NOTES
 N1 NEW ISOLATION VALVES.



Client:

Consultants:



01/13/2017

Dalrio A. Lewis, PE 77571 (FL)

Project:
 ORANGE COUNTY CORRECTIONS
 HORIZONS AHU HOT WATER REPLACEMENT

Location:
 3723 VISION BLVD.
 ORLANDO FL 32839

Issuance:
 PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
 12/16/16

Project Number:
 15.OC.018

Drawn By: ML Checked By: DL

MECHANICAL PIPING THIRD FLOOR

Sheet No.:

M103

- GENERAL NOTES:**
1. SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
 2. CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING.
 3. SEE DETAIL SHEET M302 DETAIL 1&2 FOR AHU/FUO PIPE CONNECTION.
 4. SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.

M104 PLAN NOTES

- N1 NEW ISOLATION VALVES.

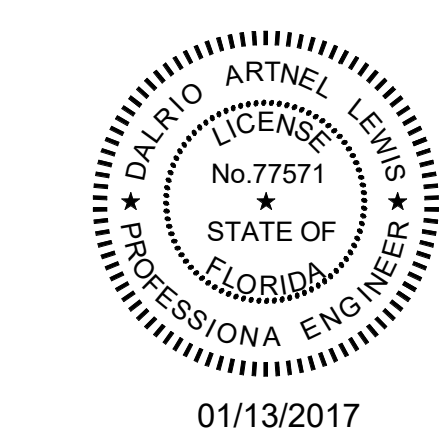


Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

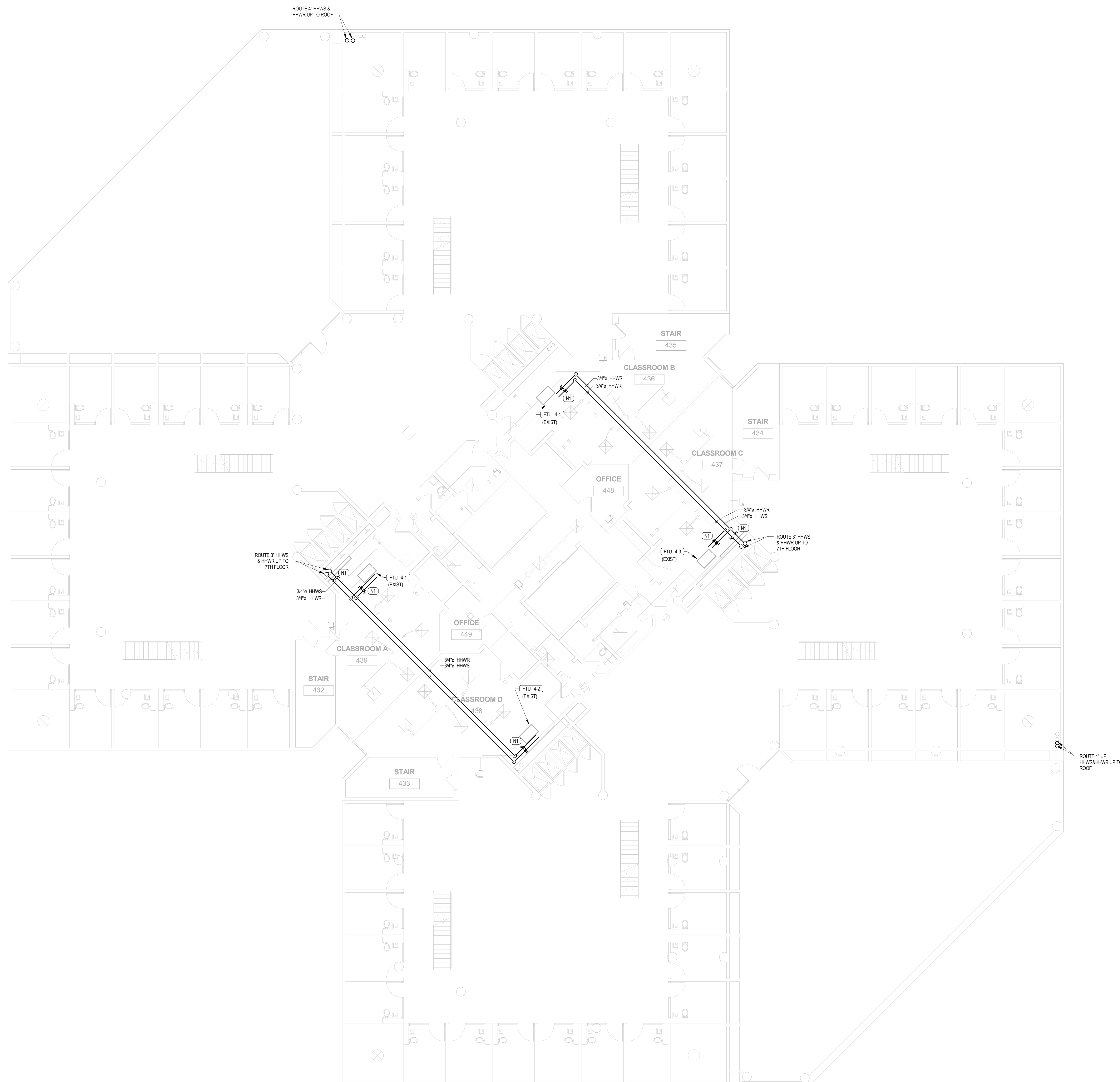
Project Number:
15.OC.018

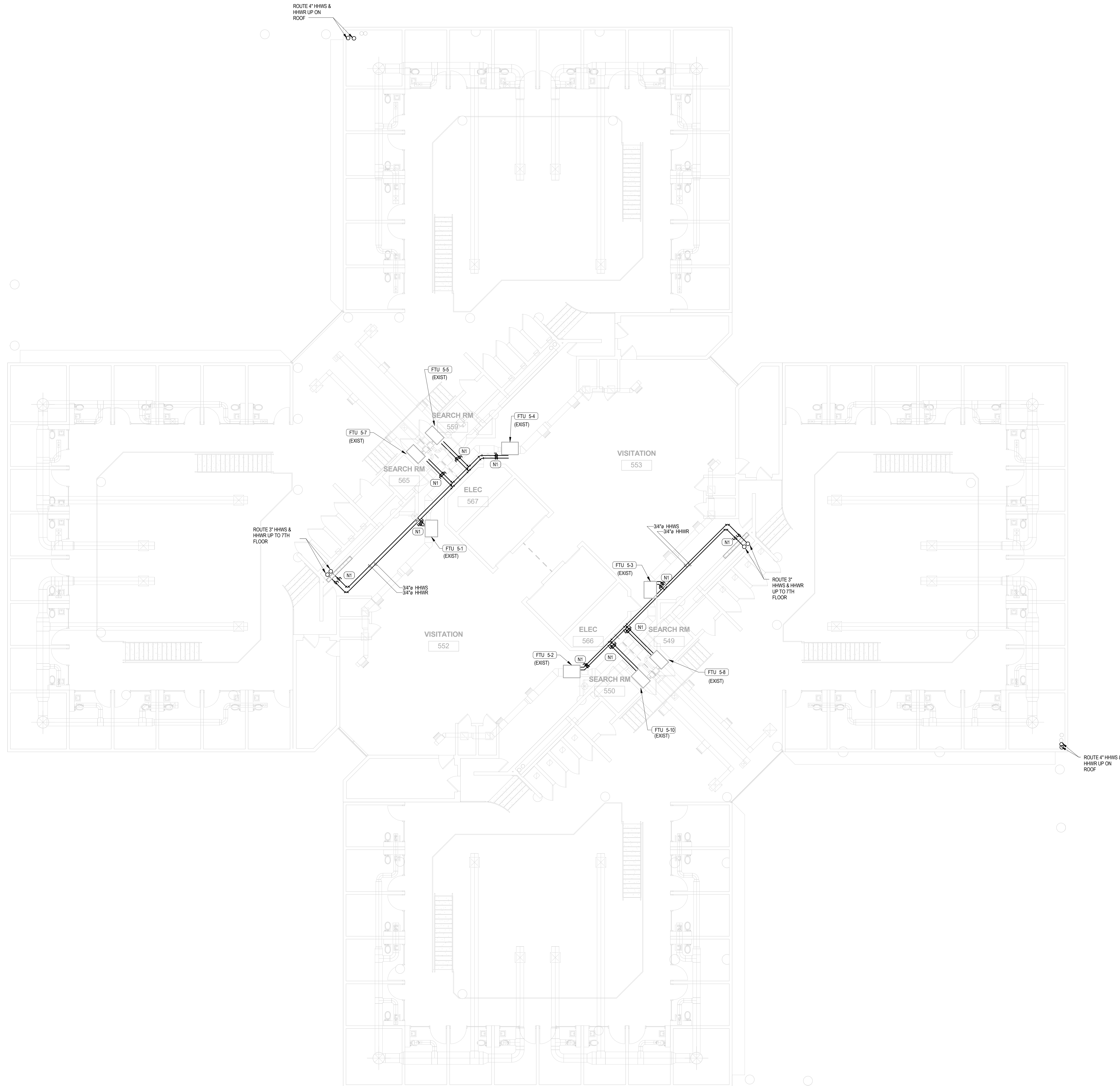
Drawn By: ML Checked By: DL

**MECHANICAL
PIPING FOURTH
FLOOR**

Sheet No.:

M104





- GENERAL NOTES:**
1. SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
 2. CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING.
 3. SEE DETAIL S SHEET M002 DETAIL 1&2 FOR AHU/FUO PIPE CONNECTION.
 4. SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.

M105 PLAN NOTES
 N1 NEW ISOLATION VALVES.

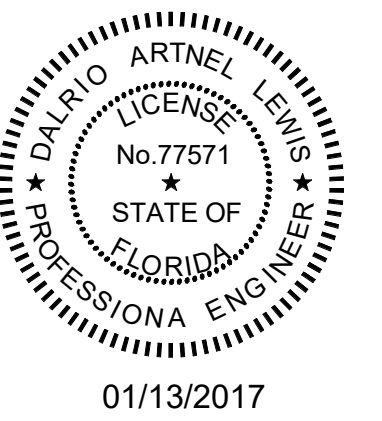


Client:



Consultants:

EOR Stamp:



01/13/2017
 Dalrio A. Lewis, PE 77571 (FL)

Project:
 ORANGE COUNTY CORRECTIONS
 HORIZONS AHU HOT WATER REPLACEMENT

Location:
 3723 VISION BLVD.
 ORLANDO FL 32839

Issuance:
 PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
 12/16/16

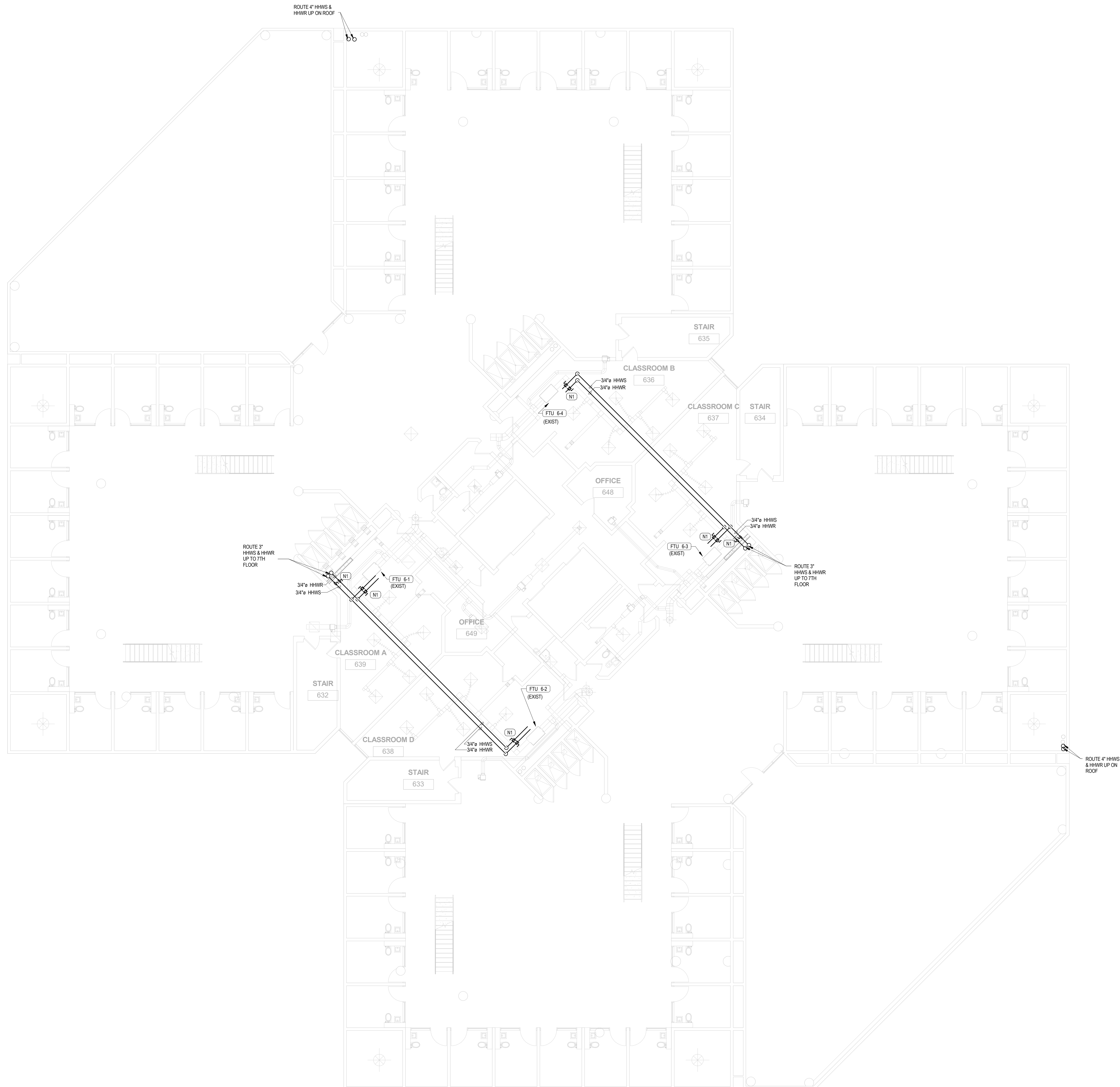
Project Number:
 15.OC.018

Drawn By: ML
 Checked By: DL

MECHANICAL PIPING FIFTH FLOOR

Sheet No.:

M105



- GENERAL NOTES:**
1. SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
 2. CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING.
 3. SEE DETAIL SHEET M302 DETAIL 1&2 FOR AHU/FU PIPE CONNECTION.
 4. SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.

M106 PLAN NOTES
 N1 NEW ISOLATION VALVES.

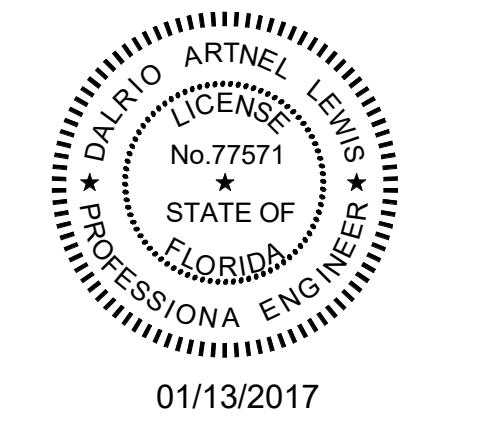


Client:



Consultants:

EOR Stamp:



Dario A. Lewis, PE 77571 (FL)

Project:
 ORANGE COUNTY
 CORRECTIONS
 HORIZONS AHU HOT
 WATER REPLACEMENT

Location:
 3723 VISION BLVD.
 ORLANDO FL 32839

Issuance:
 PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
 12/16/16

Project Number:
 15.OC.018

Drawn By: ML
 Checked By: DL

**MECHANICAL
 PIPING SIXTH
 FLOOR**

Sheet No.:

M106

- GENERAL NOTES:**
- SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
 - CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING.
 - SEE DETAIL SHEET M302 DETAIL 1&2 FOR AHU/FU PIPE CONNECTION.
 - SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.

- M107 PLAN NOTES**
- REPLACE HHWS & HHWR PIPING UP TO EXISTING ROOF PENETRATION.
 - NEW ISOLATION VALVES.
 - SEE SHEET M108 FOR DEMOLITION OF HEATING HOT WATER PIPES IN THIS AREA.



Client:

Consultants:

EOR Stamp:



01/13/2017

Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

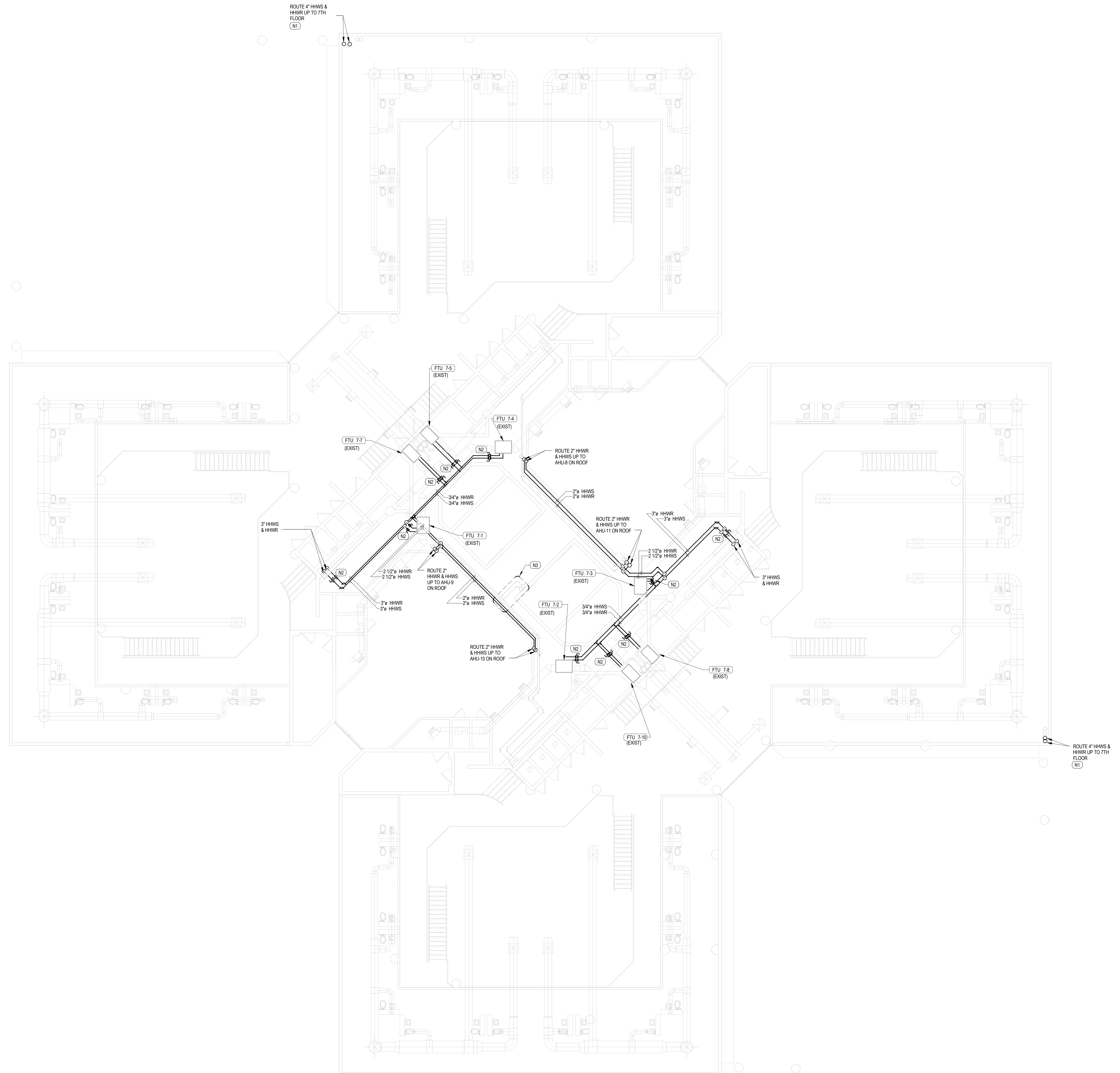
Project Number:
15.OC.018

Drawn By: ML Checked By: DL

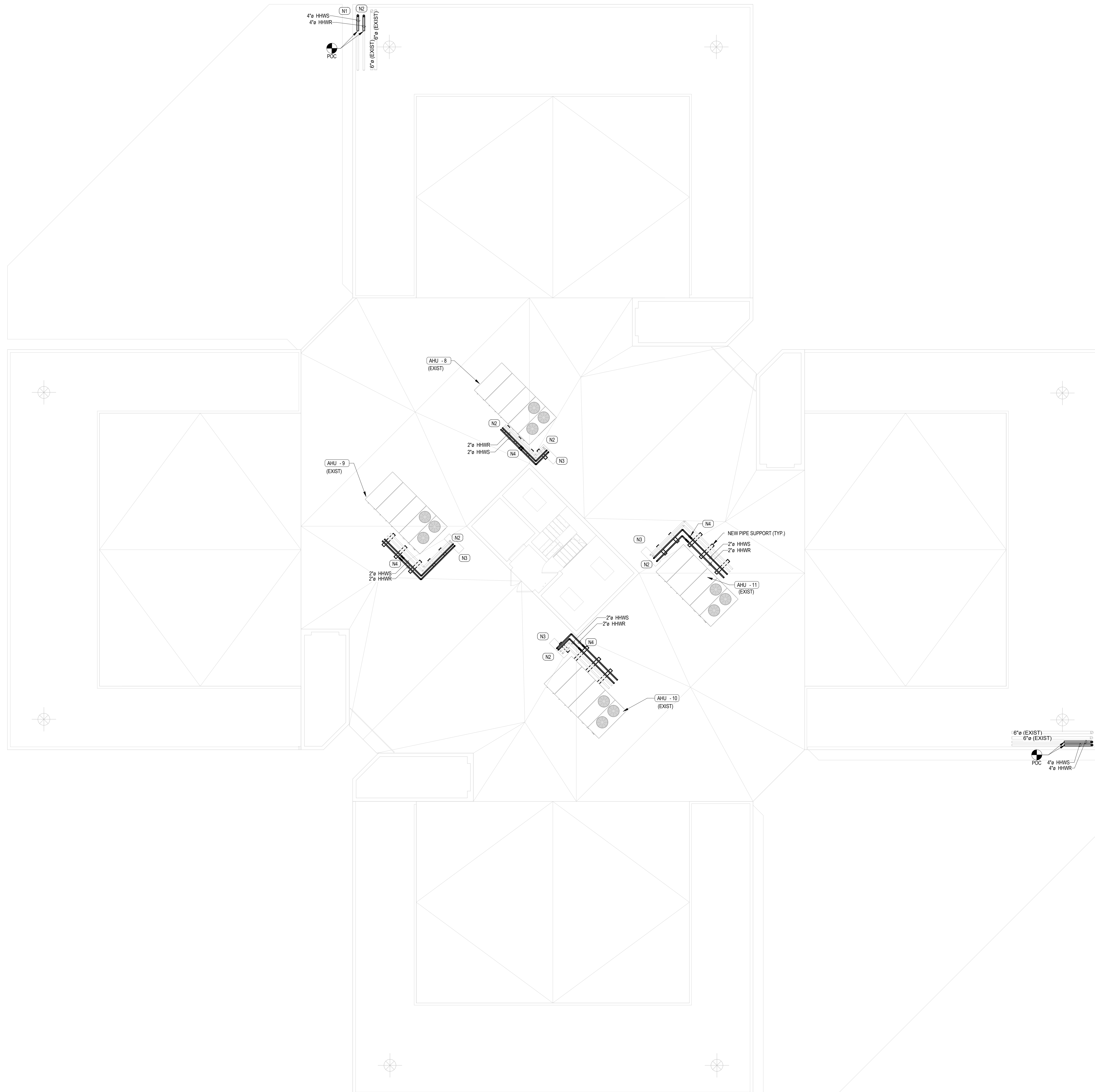
**MECHANICAL
PIPING
SEVENTH
FLOOR**

Sheet No.:

M107



1 MECHANICAL PIPING SEVENTH FLOOR



- GENERAL NOTES:**
1. SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
 2. CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING.
 3. SEE DETAIL SHEET M002 DETAIL 1&2 FOR AHU/FUO PIPE CONNECTION.
 4. SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.

- M108 PLAN NOTES**
- N1 REPLACE HHWS & HHWR PIPING UP TO EXISTING ROOF PENETRATION.
 - N2 PROVIDE MANUAL AIR VENTS AT HIGHEST POINT OF HHW RISER AND RTU CONNECTIONS.
 - N3 REMOVE AND REPLACE PIPE RISER ENCLOSURE SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION.
 - N4 NEW ISOLATION VALVES.



Client:

Consultants:



Dario A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML	Checked By: DL
-----------------	-------------------

**MECHANICAL
PIPING ROOF
PLAN**

Sheet No.:

M108

1 ROOF SLAB

Client:



Consultants:

EOR Stamp:



Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML
Checked By: DL

**MECHANICAL
ENLARGED
PLANS**

Sheet No.:

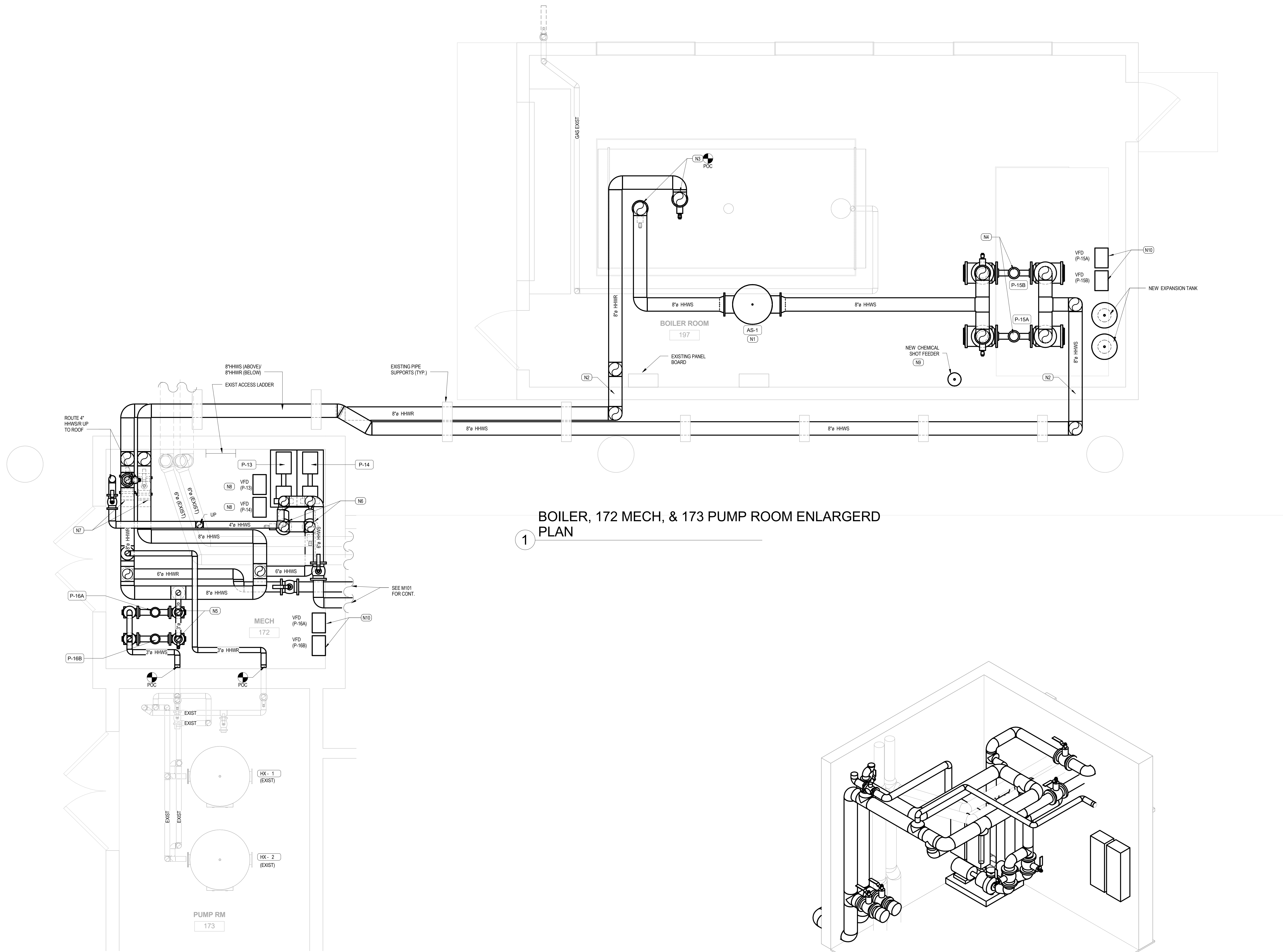
M201

GENERAL NOTES:

- SEE ARCHITECTURAL SHEETS FOR NEW CEILING/WALL PLAN.
- CONTRACTOR SHALL PROVIDE ALL NEW PIPE SUPPORTS FOR NEW HEATING HOT WATER PIPING UNLESS OTHERWISE NOTED TO REMAIN.
- SEE DETAILS SHEET M202 DETAIL 1&2 FOR AHU/FCU PIPE CONNECTION.
- SEE UL DETAIL FOR PENETRATION IN EXISTING RATED WALL.
- ALL CONTROL END DEVICES LOCATED IN HEATING HOT WATER PIPES SCHEDULED TO BE REPLACED INCLUDING: WATER TEMPERATURE SENSOR, ETC. SHALL BE REPLACED AND RETERMINATED INTO EXISTING GAS CONTROLLER.
- SEAL TIGHT WEATHER PROOF BOXES/FITTINGS AT ALL ELECTRICAL CONNECTIONS.

M201 KEY PLAN NOTES

- CONTRACTOR SHALL RECONNECT EXISTING MAKE-UP WATER TO NEW AIR SEPARATOR.
- REUSE EXISTING WALL PENETRATION.
- ROUTE 8" HHWSR DOWN TO EXISTING BOILER. PROVIDE NEW ISOLATION VALVES IN RISER.
- ROUTE 8" HHWSR DOWN TO NEW PUMP. PROVIDE NEW ISOLATION VALVES IN RISER.
- ROUTE 8" HHWSR DOWN TO NEW PUMP. PROVIDE NEW ISOLATION VALVES IN RISER.
- ROUTE 8" HHWSR DOWN TO NEW PUMP P-13/14. PROVIDE NEW ISOLATION VALVES IN RISER.
- PROVIDE 6" HHWSR TEMPORARY CONNECTION WITH ISOLATION VALVE AT 30" AFF. CAP. SEAL AND INSULATE PIPING.
- MOUNT NEW VFD'S ON UNISTRUIT STAND (FIELD FABRICATED). DO NOT BLOCK ACCESS LADDER. VFD'S TO BE ADDED TO BAS WITH NEMA 3R ENCLOSURE.
- REMOVE EXISTING COUPON RACKS FOR WATER TREATMENT AND REINSTALLED AT NEW CHEMICAL FEEDER. ONCE INSTALLATION IS COMPLETED, ORANGE COUNTY REPRESENTATIVE TO APPROVE INSTALL.
- VFD'S TO BE ADDED TO BAS WITH NEMA 3R ENCLOSURE.



1 BOILER, 172 MECH, & 173 PUMP ROOM ENLARGED PLAN

2 MECH RM 172 ISOMETRICS

System No. C-AJ-5003 XHEZ.C-AJ-5003 Through-penetration Firestop Systems

[Page Bottom](#)

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

[See General Information for Through-penetration Firestop Systems](#)

System No. C-AJ-5003

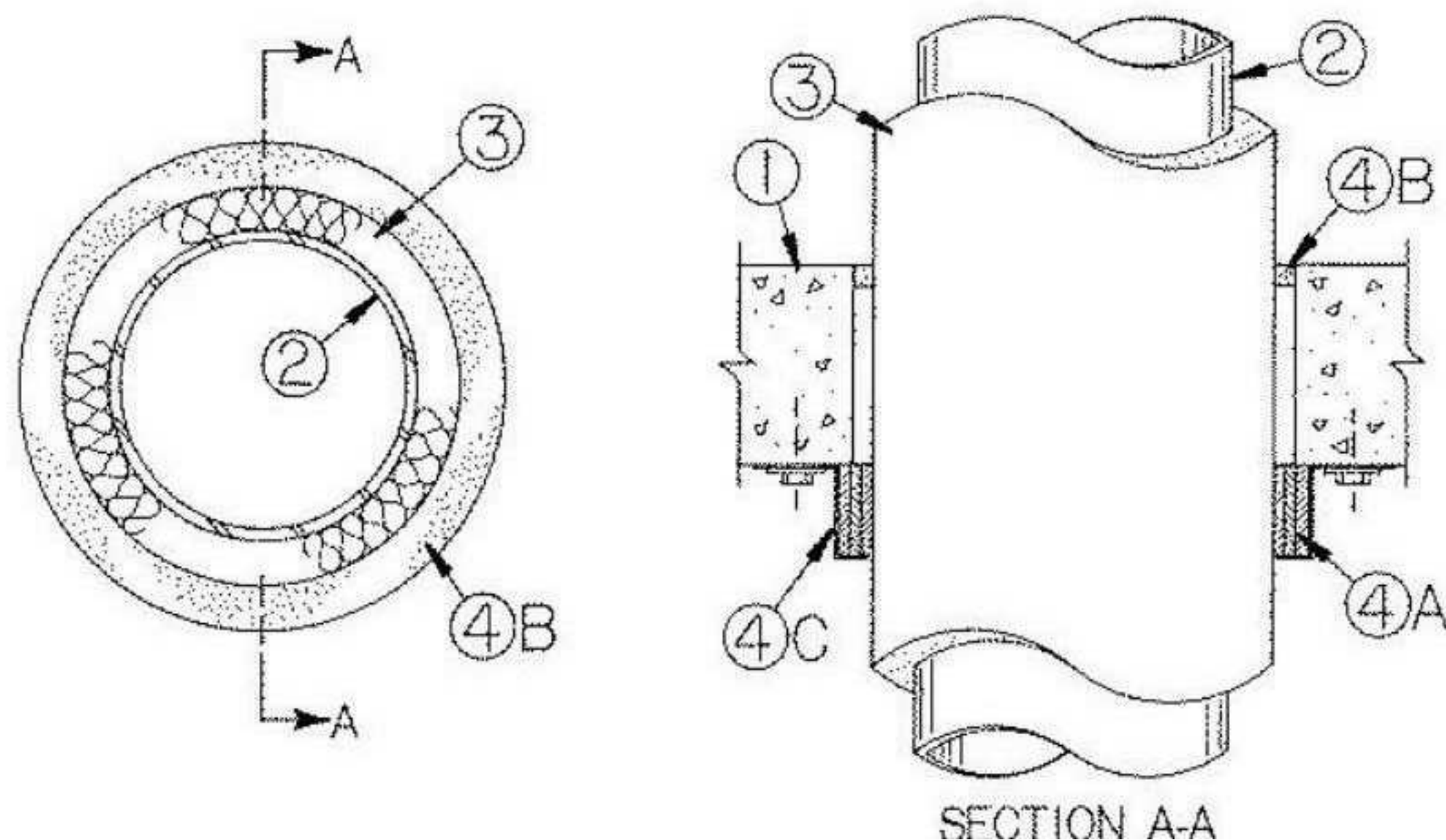
May 19, 2005

F Rating — 2 Hr

T Ratings — 1/2 and 1 Hr (See Item 4)

L Rating At Ambient — 2 CFM/sq ft.

L Rating At 400 F — less than 1 CFM/sq ft.



2 UL PIPE DETAIL

1. **Floor or Wall Assembly** — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 27 in. (686 mm)

See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Pipe** — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper pipe, nom 15 in. (381 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 20 in. (508 mm) diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe or nom 20 in. (508 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe centered in the opening and rigidly supported on both sides of the floor or wall assembly.

3. **Pipe Covering*** — Nom 1, 2 or 3 in. (25, 51 or, 76 mm) thick hollow cylindrical heavy density (min. 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt strip tape supplied with the product.

See **Pipe and Equipment Covering — Materials*** (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Firestop System** — The details of the firestop system shall be as follows:

A. **Fill, Void or Cavity Materials* — Wrap Strip** — Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide by 24 in. (610 mm) long strips. Nom 2 in. (51 mm) wide strips tightly-wrapped around pipe covering material (foil side exposed) with the top edges butted against the underside of the concrete floor. Sufficient layers of wrap strip shall be installed to lap a min of 3/16 in. (5 mm) on the concrete around the entire perimeter of the through opening. Each layer of wrap strip to be installed with a butted seam, with the butted seams in successive layers staggered. Wrap strip layers temporarily held in position using aluminum foil tape, steel wire, or equivalent. In wall assemblies, the wrap strip is to be installed in the same manner used for floor assemblies but shall be installed symmetrically on both sides of the wall. The min number of wrap strip layers required is dependent upon the max pipe size and the pipe covering thickness, as shown in the following table:

Min Floor or Wall Thkns In.	Max Pipe Diam In.	Nom Pipe Covering Thkns In.	Annular Space In.	Min No. of Wrap Strip Layers	F Rating Hr	T Rating Hr
2-1/2 (64 mm)	6 (152 mm)	1 (51 mm)	0 to 1/2 (0 to 13 mm)	1	2	1
2-1/2 (64 mm)	6 (152 mm)	2 (51 mm)	0 to 1/2 (0 to 13 mm)	2	2	1
2-1/2 (64 mm)	12 (305 mm)	1 (51 mm)	1/4 to 3/8 (06 to 10 mm)	1	2	1/2
4-1/2 (114 mm)	12 (305 mm)	1 (51 mm)	0 to 1/2 (0 to 13 mm)	1	2	1
4-1/2 (114 mm)	12 (305 mm)	2 (51 mm)	0 to 1/2 (0 to 13 mm)	2	2	1
4-1/2 (114 mm)	20 (508 mm)	1 (51 mm)	0 to 1/2 (0 to 13 mm)	2	2	1
4-1/2 (114 mm)	20 (508 mm)	2 (51 mm)	0 to 1/2 (0 to 13 mm)	3	2	1
4-1/2 (114 mm)	20 (508 mm)	3 (76 mm)	0 to 1/2 (0 to 13 mm)	4	2	1

3M COMPANY — Type FS-195+

B. **Fill, Void or Cavity Materials* — Caulk or Sealant** — Generous bead of caulk to be applied top surface of floor. Packing material in annular space, if needed, to be polyethylene backer rod, mineral wool batt or glass fiber insulation.

3M COMPANY — Type CP 25WB+, IC 15WB+ caulk or FB-3000 WT sealant

C. **Steel Collar** — Nom 2 in. (51 mm) deep collar with 1-1/4 in. (32 mm) wide by 2 in. (51 mm) long anchor tabs and 1/4 to 3/4 in. (6 mm to 19 mm) long tabs to retain wrap strip layers. Coils of precut 0.016 in. (.41 mm) thick (No. 30 gauge) galv sheet steel available from wrap strip manufacturer. Steel collar, with anchor tabs bent outward 90 degrees, wrapped tightly around wrap strip layers with min 1 in. (25 mm) overlap at seam. With steel anchor tabs pressed tightly against floor or wall surface, compress collar around wrap strip layers using a min 1/2 in. (13 mm) wide by 0.028 in. (.71 mm) thick stainless steel band clamp with worm drive tightening mechanism at the collar midheight. Secure collar to floor or wall surface(s) with min 3/16 in. (5 mm) diam by 1-1/4 in. (32 mm) long steel anchor bolts, or equivalent, in conjunction with min 1-1/4 in. (32 mm) diam steel washers. One anchor bolt required in each anchor tab. As a final step, bend retainer tabs 90 deg toward pipe covering to lock wrap strip layers in position.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2005-05-19

[Questions?](#) [Print this page](#) [Terms of Use](#) [Page Top](#)

© 2016 UL LLC

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2016 UL LLC".

FTU HEATING HOT WATER GPM SCHEDULE		
TAG	SERVING	HEATING HOT WATER FLOWRATE (GPM)
FTU 2-1	239 CLASSROOM A	1
FTU 2-2	238 CLASSROOM D	1
FTU 2-3	237 CLASSROOM C	1
FTU 2-4	236 CLASSROOM B	1
FTU 3-1	3RD FLOOR VISITATION	1
FTU 3-2	3RD FLOOR VISITATION	1
FTU 3-3	3RD FLOOR VISITATION	1
FTU 3-4	3RD FLOOR VISITATION	1
FTU 3-5	3RD FLOOR VISITATION	1
FTU 3-7	3RD FLOOR VISITATION	1
FTU 3-8	3RD FLOOR VISITATION	1
FTU 3-10	3RD FLOOR VISITATION	1
FTU 4-1	438 CLASSROOM A	1
FTU 4-2	438 CLASSROOM D	1
FTU 4-3	437 CLASSROOM C	1
FTU 4-4	436 CLASSROOM B	1
FTU 5-1	5TH FLOOR VISITATION	1
FTU 5-2	5TH FLOOR VISITATION	1
FTU 5-3	5TH FLOOR VISITATION	1
FTU 5-4	5TH FLOOR VISITATION	1
FTU 5-5	5TH FLOOR VISITATION	1
FTU 5-7	5TH FLOOR VISITATION	1
FTU 5-8	5TH FLOOR VISITATION	1
FTU 5-10	5TH FLOOR VISITATION	1
FTU 6-1	639 CLASSROOM A	1
FTU 6-2	638 CLASSROOM D	1
FTU 6-3	637 CLASSROOM C	1
FTU 6-4	636 CLASSROOM B	1
FTU 7-1	7TH FLOOR VISITATION	1
FTU 7-2	7TH FLOOR VISITATION	1
FTU 7-3	7TH FLOOR VISITATION	1
FTU 7-4	7TH FLOOR VISITATION	1
FTU 7-5	7TH FLOOR VISITATION	1
FTU 7-7	7TH FLOOR VISITATION	1
FTU 7-8	7TH FLOOR VISITATION	1
FTU 7-10	7TH FLOOR VISITATION	1

AIR SEPERATOR SCHEDULE				
TAG	SERVICE	GPM	CONNECTION LINE SIZE	BASIS OF DESIGN
AS-1	HEATING HOT WATER	863	8"	SPIROTHERM VDN800FA

NOTES:
1. PROVIDE WITH STRAINER REMOVAL

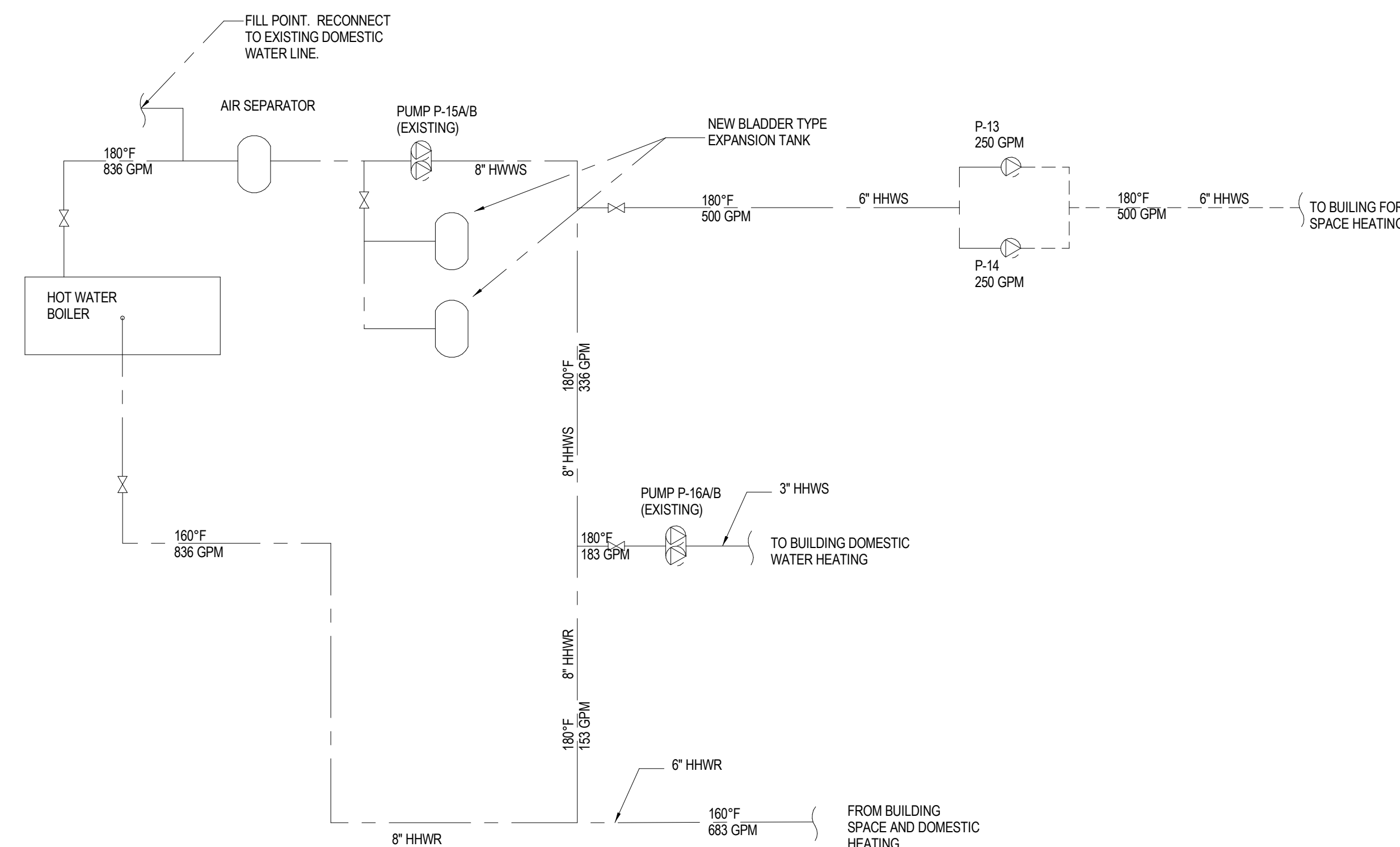
AHU HEATING HOT WATER SCHEDULE		
TAG	SERVING	HEATING HOT WATER FLOWRATE (GPM)
AHU-1	CLINIC AREA	10.1
AHU-2	STAFF AREA	4.6
AHU-4	MAINTENANCE AREA	0.7
AHU-7	DENTAL AREA	1.6
AHU-8	CENTRAL CORE AREA	29.5
AHU-9	CENTRAL CORE AREA	29.5
AHU-10	CENTRAL CORE AREA	29.5
AHU-11	CENTRAL CORE AREA	29.5
AHU-12	CELL BLOCKS	21(RA)/14.6(OA)
AHU-13	CELL BLOCKS	21(RA)/14.6(OA)
AHU-14	CELL BLOCKS	21(RA)/14.6(OA)
AHU-15	CELL BLOCKS	21(RA)/14.6(OA)
AHU-16	CELL BLOCKS	21(RA)/14.6(OA)
AHU-17	CELL BLOCKS	21(RA)/14.6(OA)
AHU-18	CELL BLOCKS	21(RA)/14.6(OA)
AHU-19	CELL BLOCKS	21(RA)/14.6(OA)
AHU-21	MUSTER ROOM	1.6
AHU-22	STAFF ENTRANCE	1.5
AHU-24	LOBBY MEDICAL	2.1
AHU-25	ADMIN. AREA MEDICAL	0.6
AHU-26	ELEV. LOBBY	2
AHU-27	BEHIND ELEV. LOBBY RM-107 / COMM. MEDICAL	1.6
AHU-28	MUSTER ROOM	1.6
AHU-29	ELEV. MACH. ROOM	5.5
AHU-30	ELEV. MACH. ROOM	5.5
AHU-31	BEHIND ELEV. LOBBY RM-107 / COMM. MEDICAL	1.6
AHU-32	193 LOBBY	2.6
AHU-33	196 CLASSROOM	3.8
AHU-34	184 ASSEMBLY	8.3

NOTES:
1. ALL AHU'S ARE EXISTING. PROVIDE NEW CONTROL VALVES PER GPM SCHEDULE. RETERMINATE CONTROL POINTS TO EXISTING BAS CONTROLLER.
2. (RA) REPRESENTS THE FLOW THROUGH THE RETURN AIR COIL. (OA) REPRESENTS THE FLOW THROUGH THE OUTSIDE AIR COIL.

PUMP SCHEDULE								
TAG	TYPE	GPM	TOTAL HEAD (FT.)	MOTOR H.P.	MOTOR R.P.M.	VOLTS/PHASE	BASIS OF DESIGN	NOTES
P-13	END SUCTION	250	56	7.5	1750	480/3	BELL & GOSSETT E-1510	ALL
P-14	END SUCTION	250	56	7.5	1750	480/3	BELL & GOSSETT E-1510	ALL
P-15A	IN-LINE	836	32	10	1150	480/3	BELL & GOSSETT E-80	ALL
P-15B	IN-LINE	836	32	10	1150	480/3	BELL & GOSSETT E-80	ALL
P-16A	IN-LINE	220	40	5	1750	480/3	BELL & GOSSETT E-80	ALL
P-16B	IN-LINE	220	40	5	1750	480/3	BELL & GOSSETT E-80	ALL

NOTES:
1. HEATING PUMPS P-13 AND P-14 ARE SIZED FOR PARALLEL PUMPING OPERATION WHEN BOTH PUMPS ARE ACTIVATED. EACH WILL SUPPLY 190 G.P.M. AT 65FT. OF HEAD.
2. RETERMINATE CONTROL POINTS TO EXISTING BAS CONTROLLER. (PUMP START/STOP/STATUS). PROVIDE NEW DIFFERENTIAL PRESSURE SWITCH FOR EACH PUMP.
3. VFD SPEED TO BE SET BY T&B CONTRACTOR. JOHNSON CONTROLS TO CONNECT AND DISCONNECT CONTROLS WIRING.

EXPANSION TANK									
Mark	Location	Service	Capacity	Acceptance Volume	Tank Type	Operating Pressure	Fil Pressure	Manufacture Model No.	Remarks
ET-1	BOILER RM	HHW	160.0	106.0	BALDER	30.00	30.00	BELL & GOSSETTE B-400 OR APPROVED EQUAL	
ET-2	BOILER RM	HHW	160.0	106.0	BALDER	30.00	30.00	BELL & GOSSETTE B-400 OR APPROVED EQUAL	



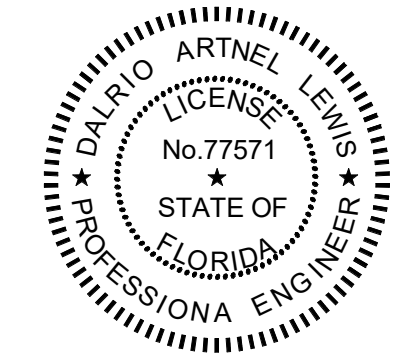
1 BOILER FLOW DIAGRAM

Client:



Consultants:

EOR Stamp:



01/13/2017
Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:	
#	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ML
Checked By: DL

MECHANICAL SCHEDULES

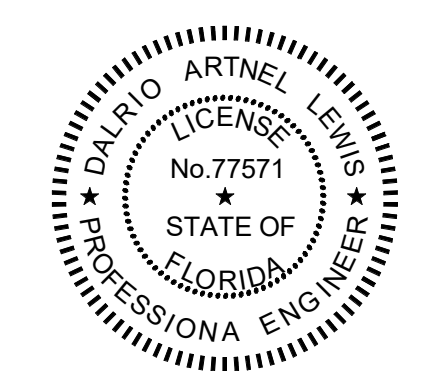
Sheet No.:

Client:



Consultants:

EOR Stamp:



01/13/2017
Dalrio A. Lewis, PE 77571 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

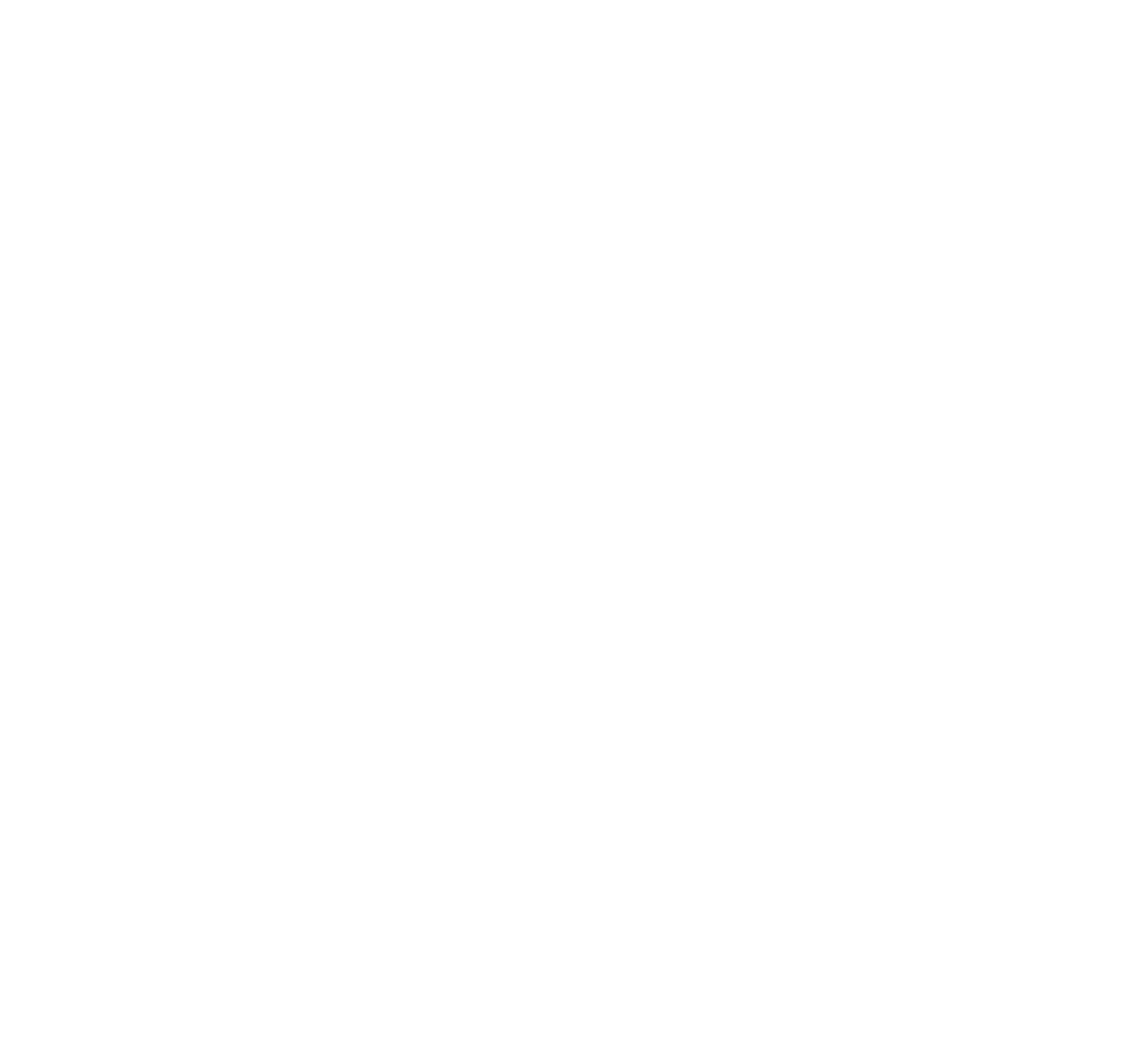
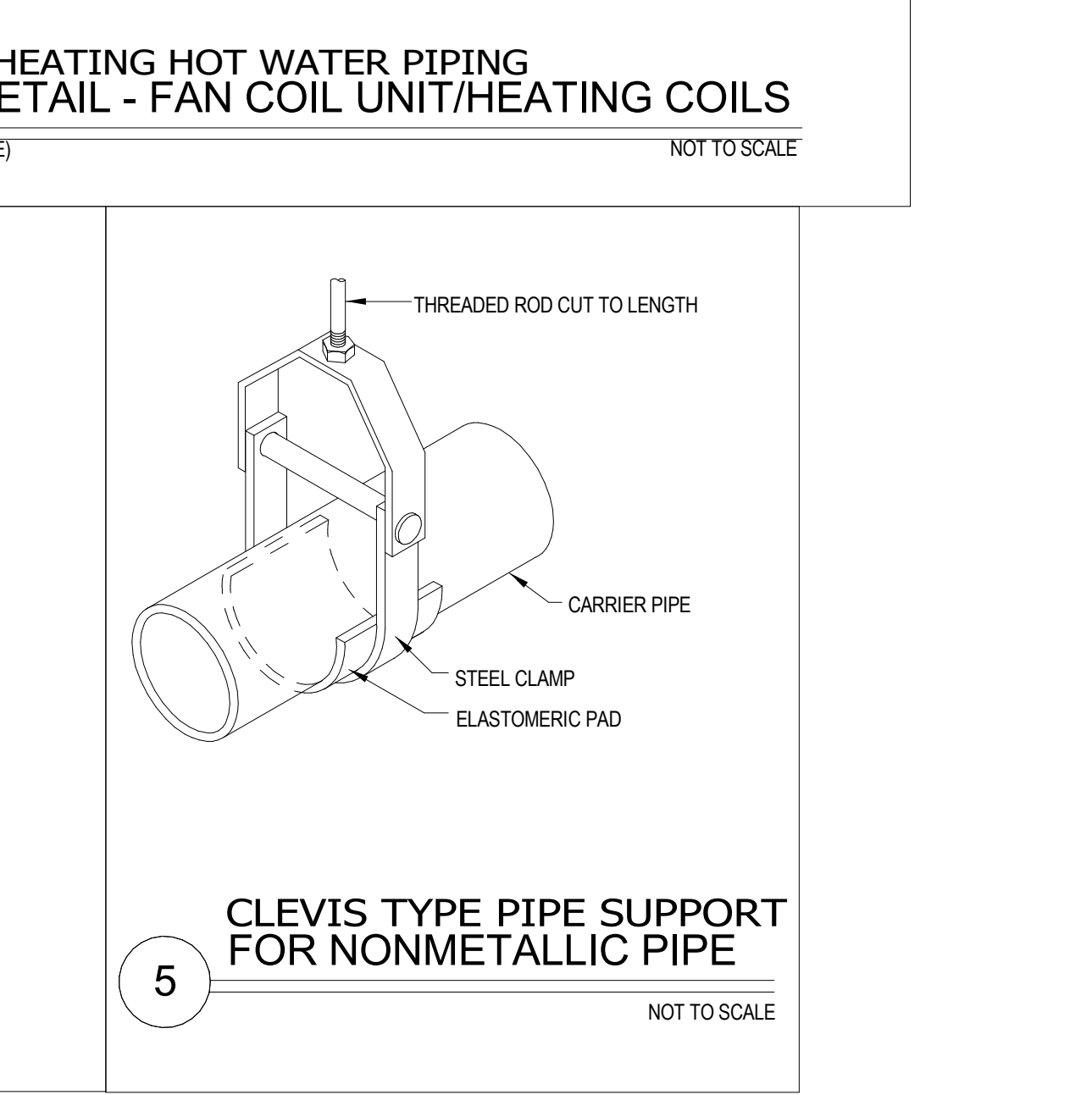
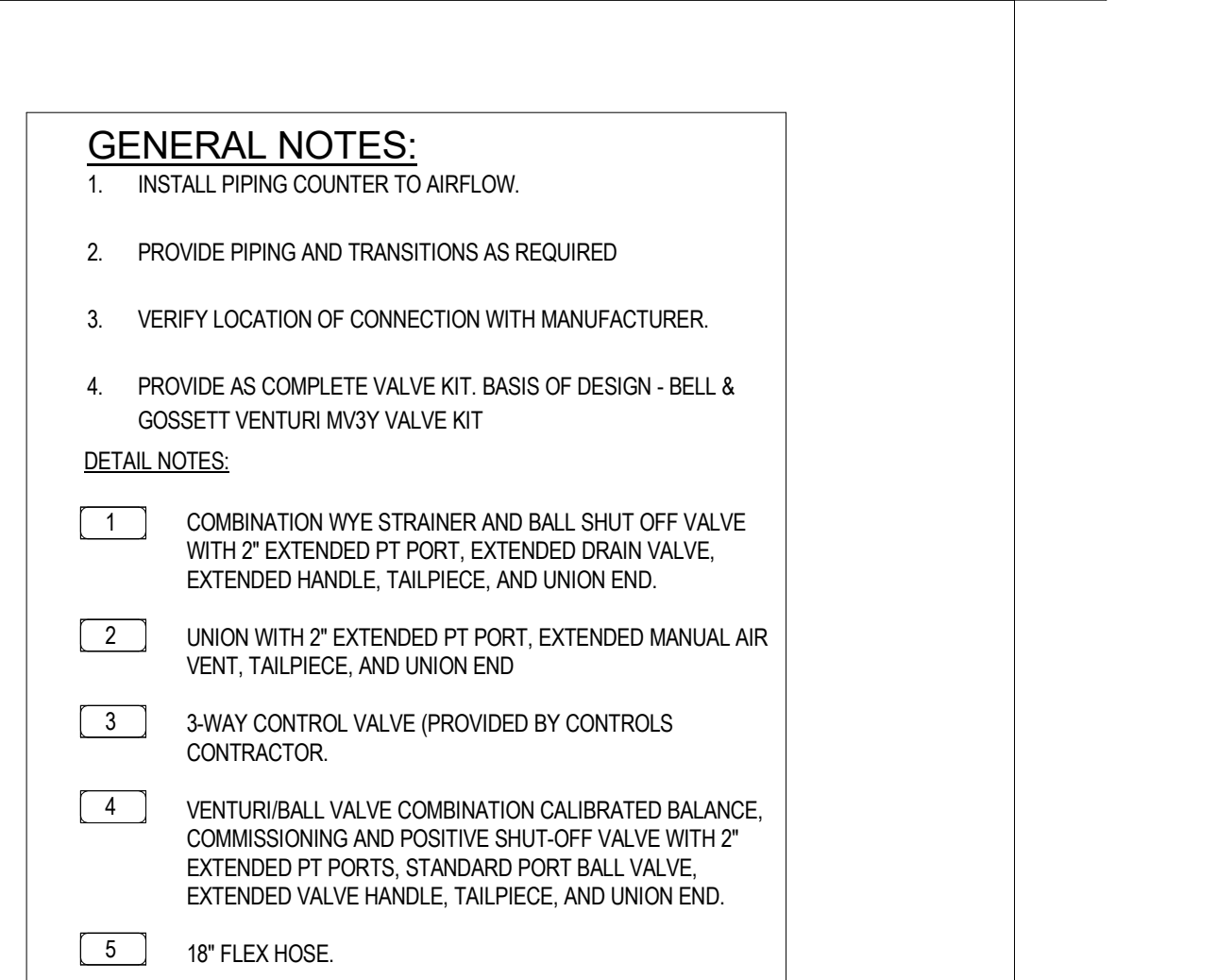
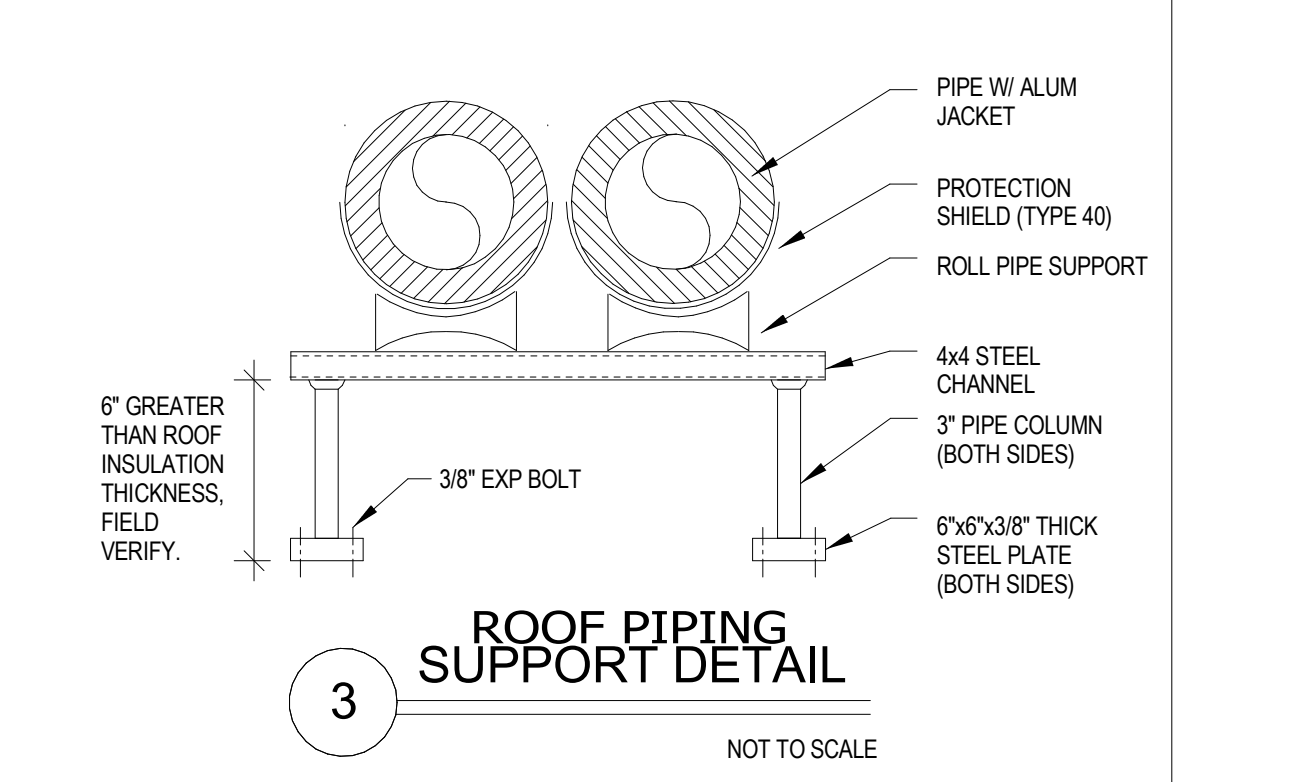
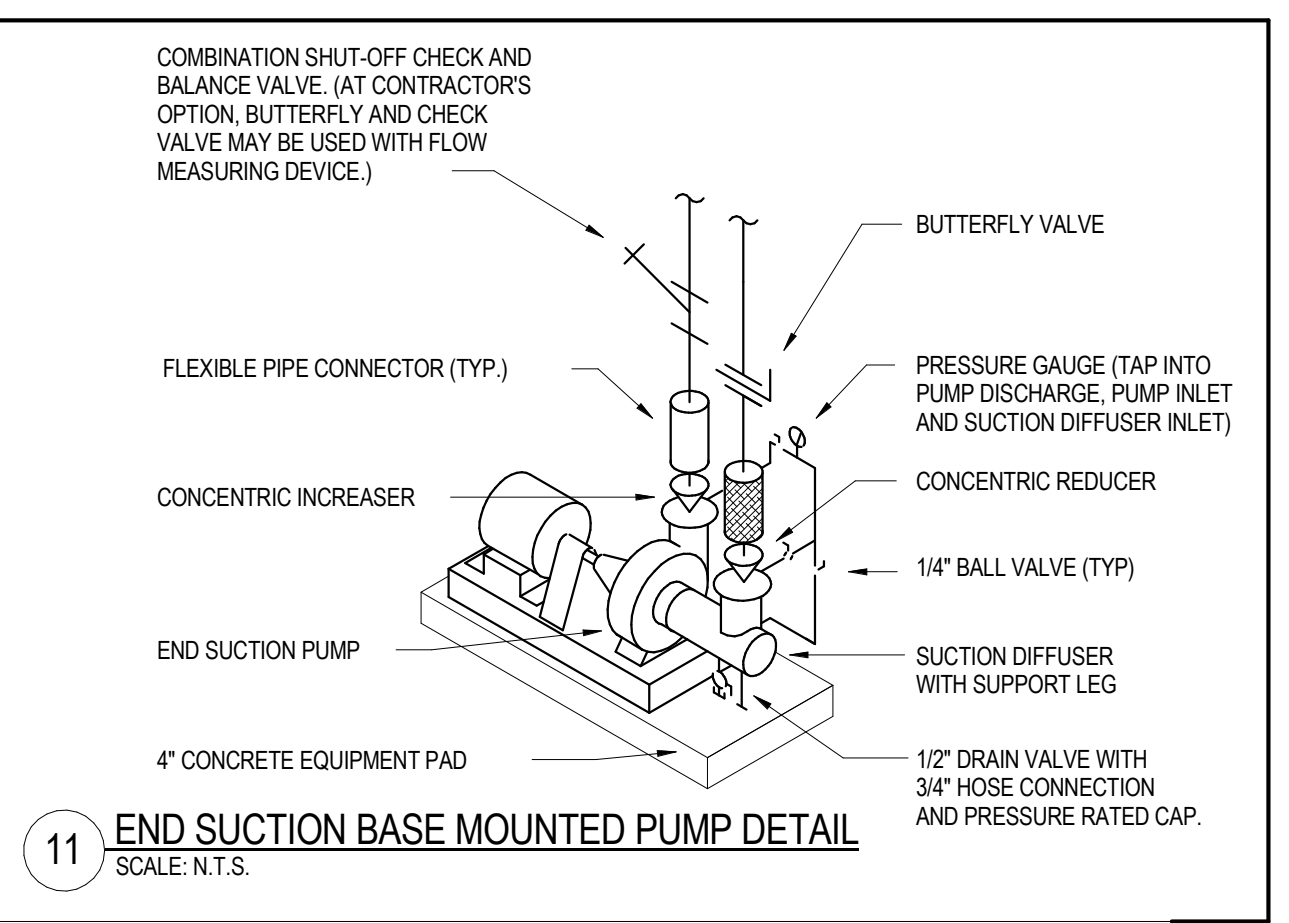
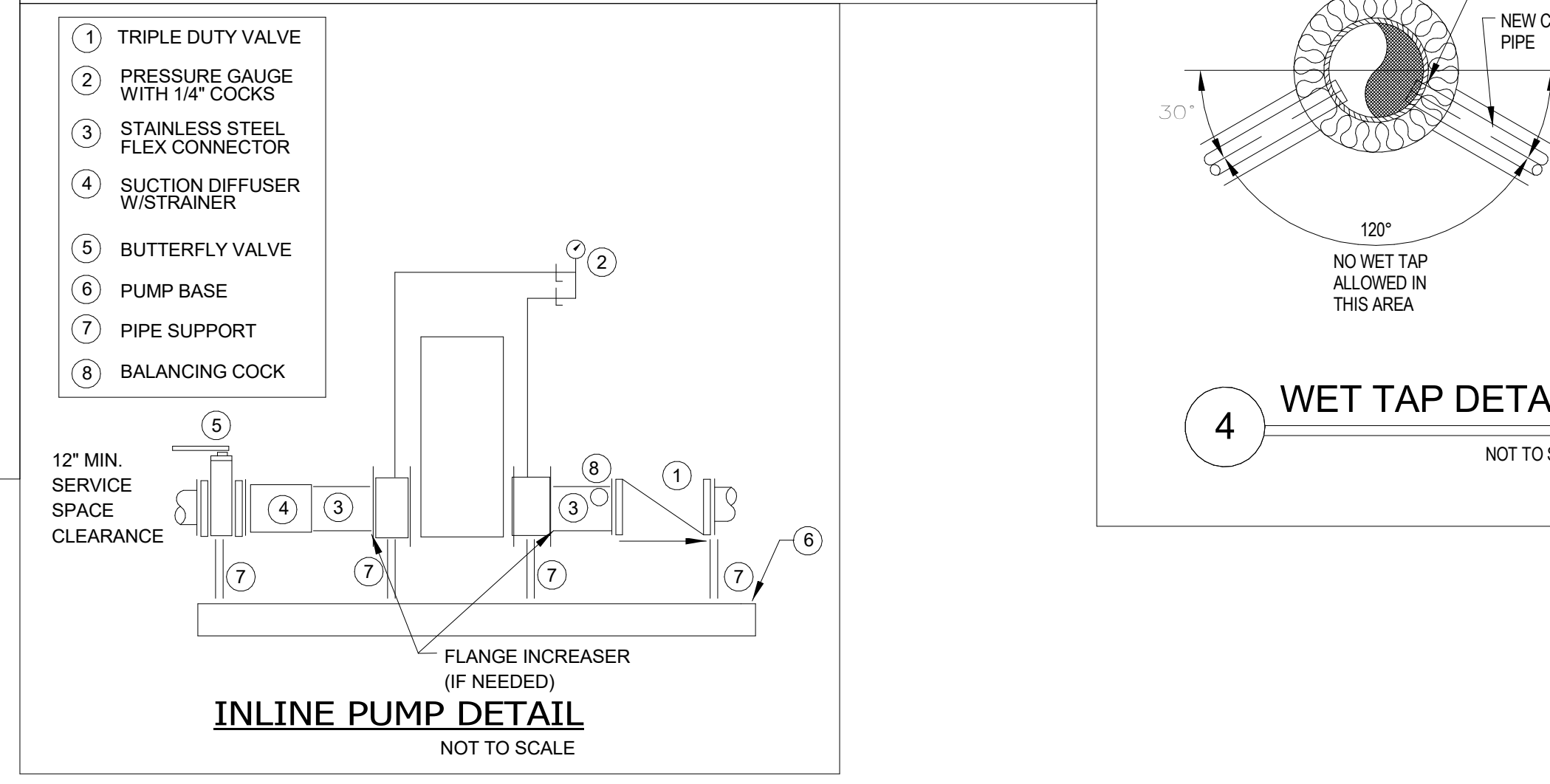
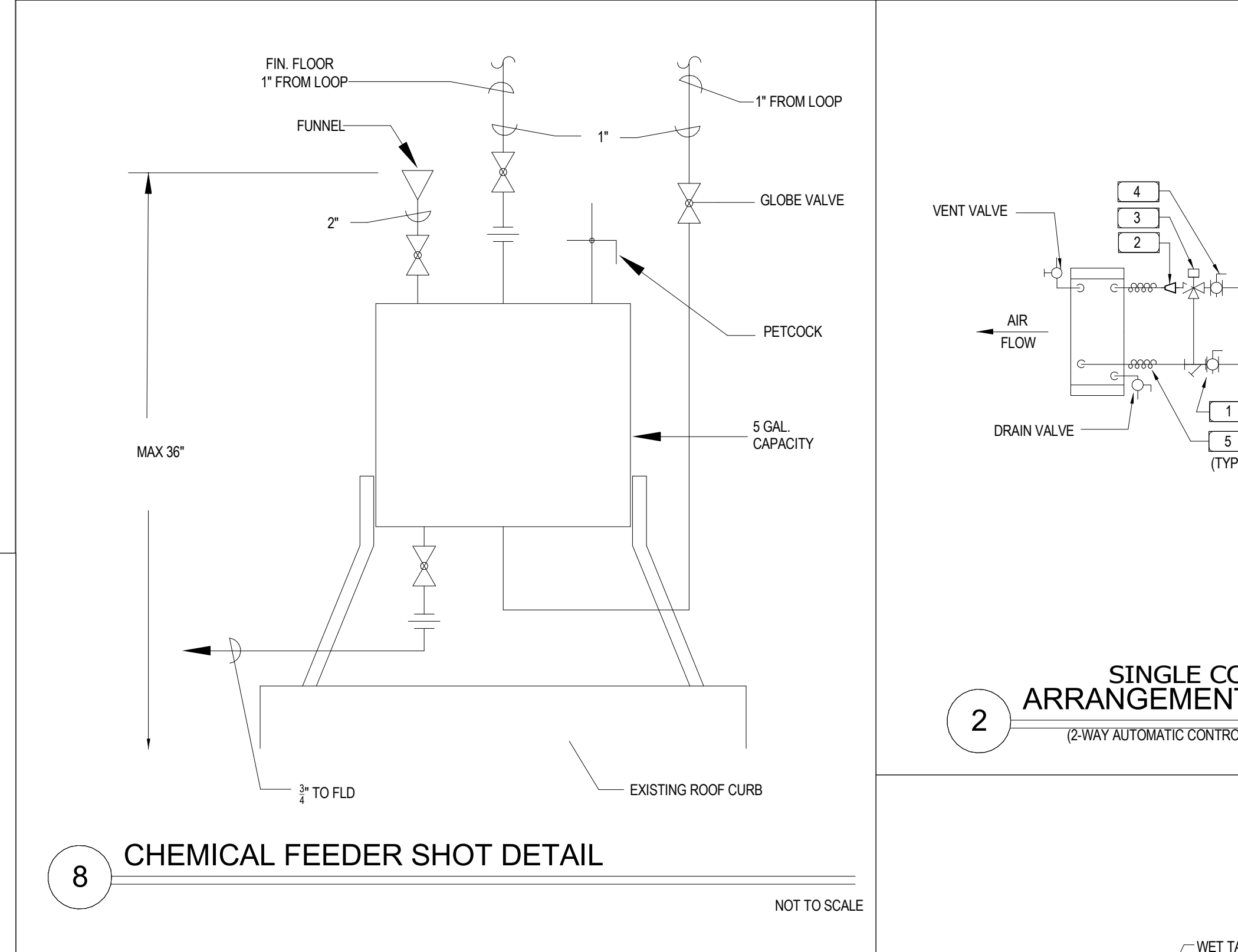
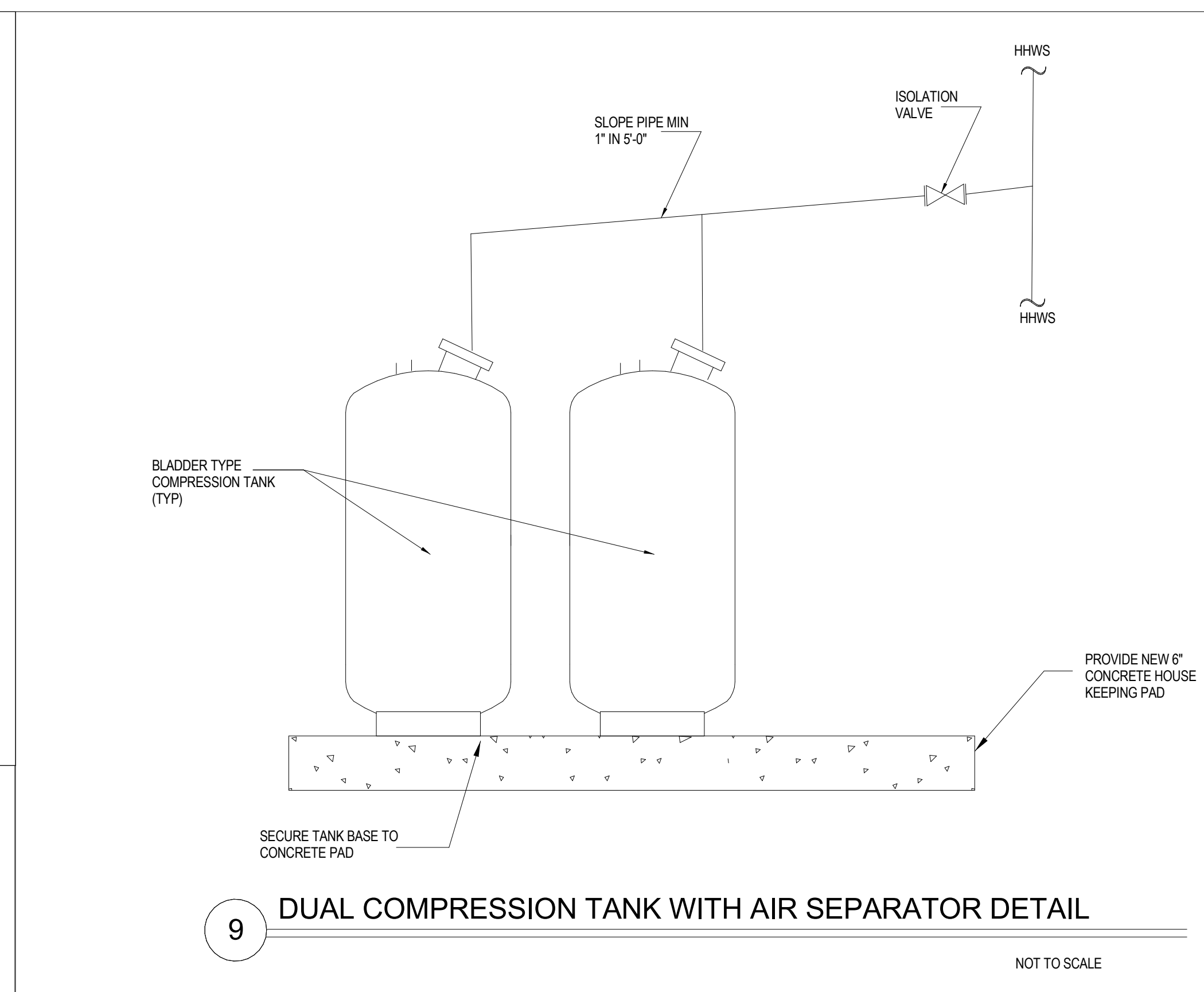
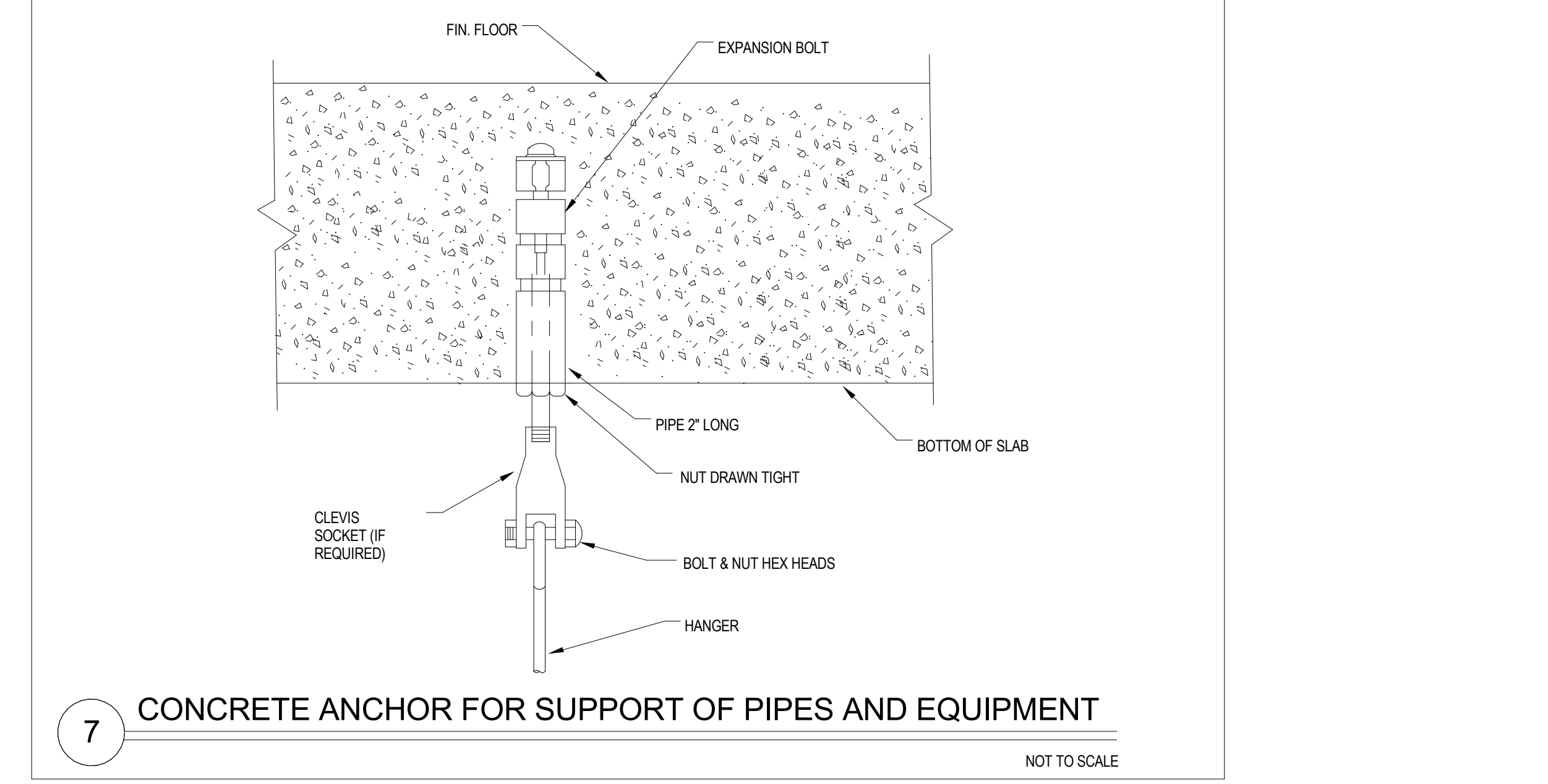
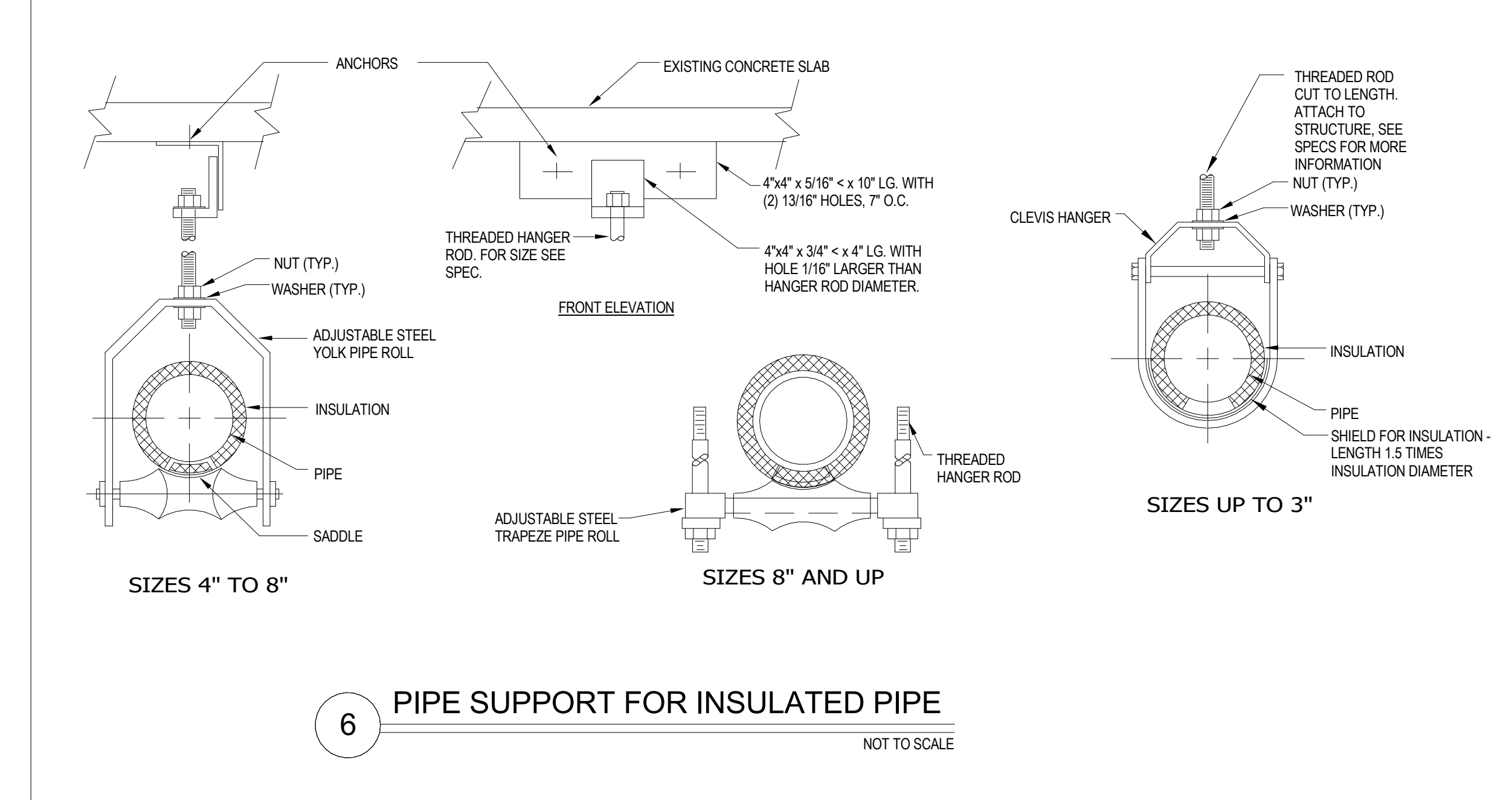
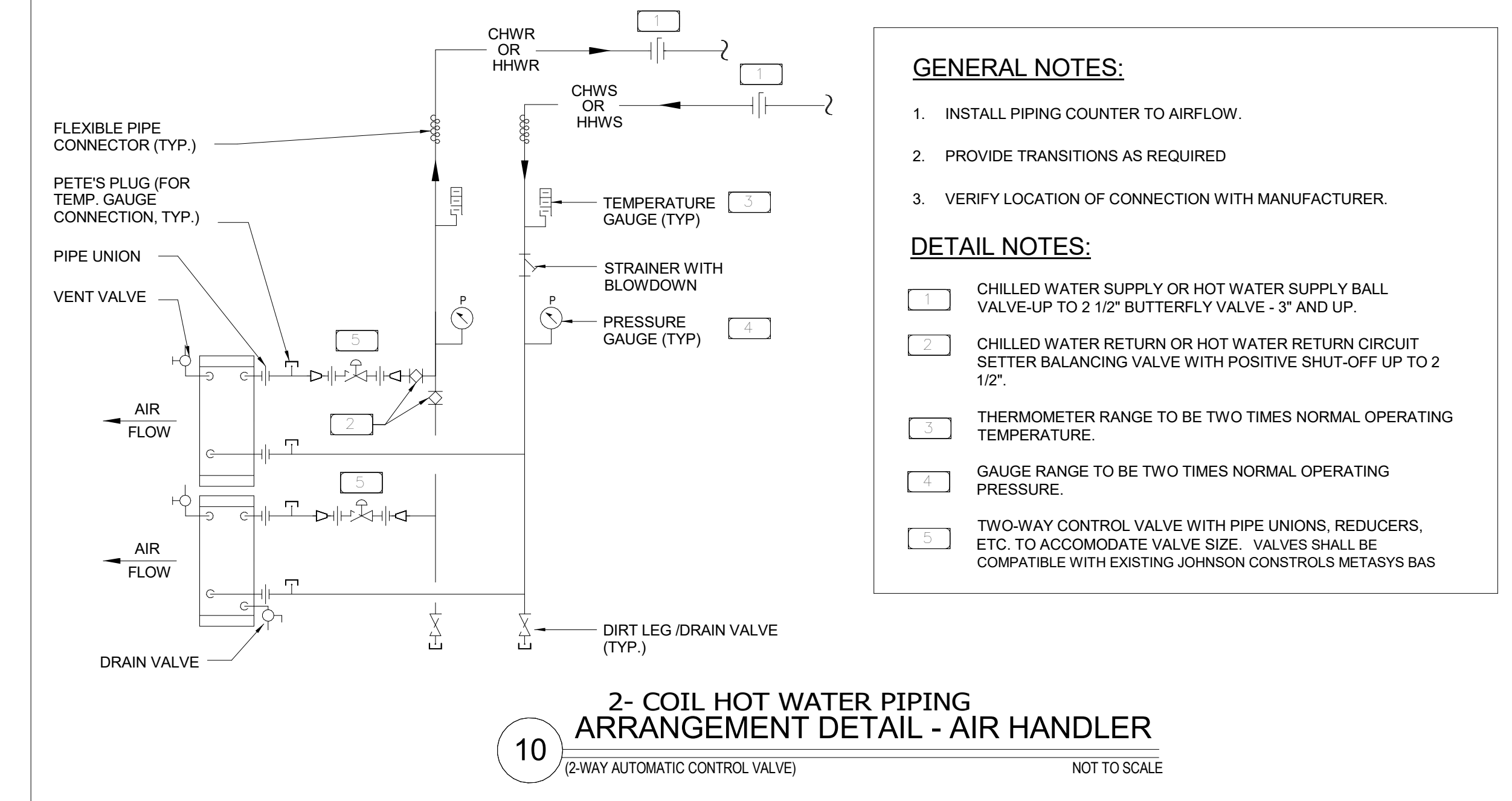
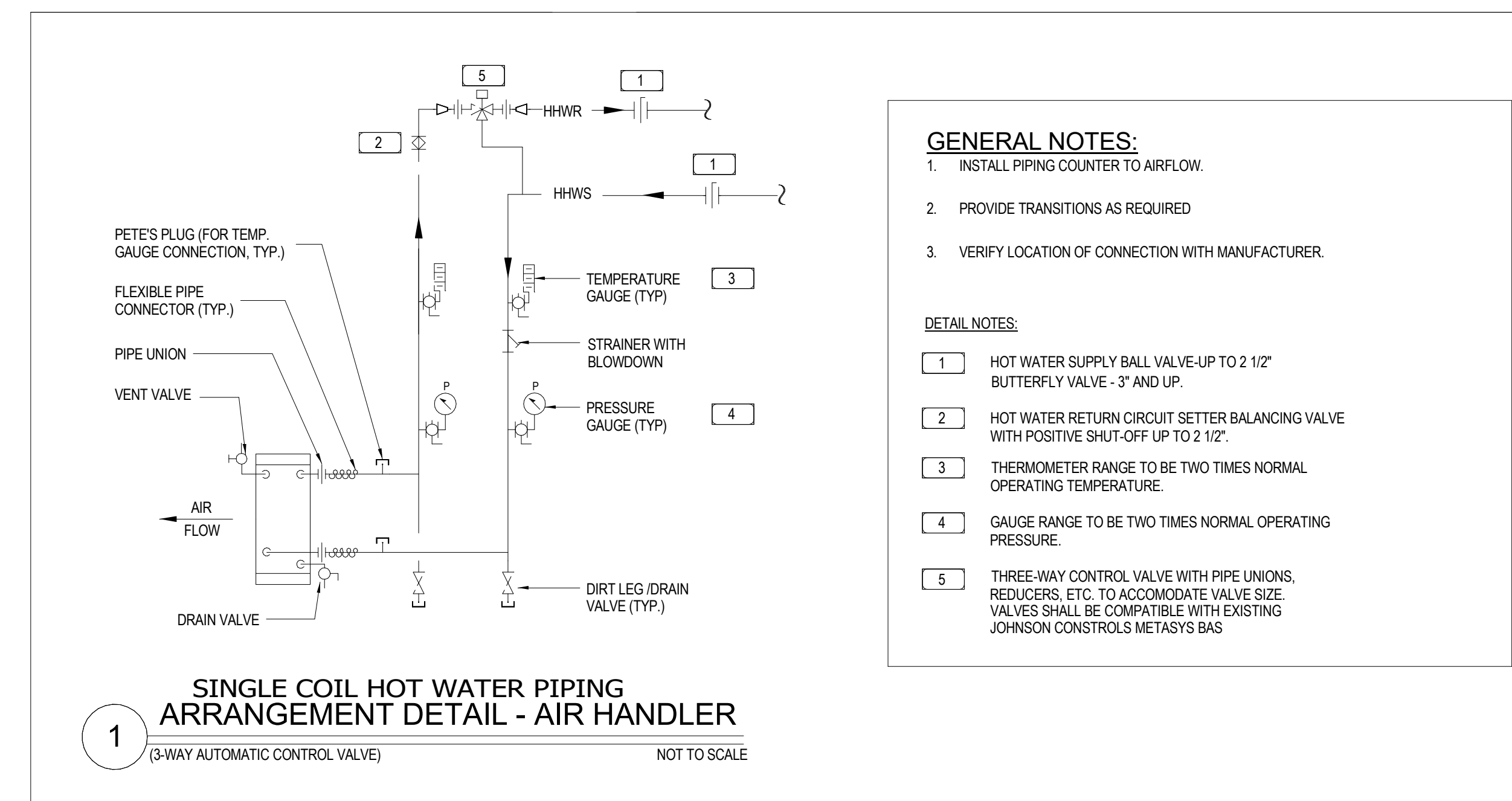
Project Number:
15.OC.018

Drawn By: ML
Checked By: DL

**MECHANICAL
DETAILS**

Sheet No.:

M302



Client:



Consultants:

EOR Stamp:



01/13/2017
Dalrio A. Lewis, PE 77571 (FL)

Project:
 ORANGE COUNTY
 CORRECTIONS
 HORIZONS AHU HOT
 WATER REPLACEMENT

Location:
 3723 VISION BLVD.
 ORLANDO FL 32839

Issuance:
 PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:

12/16/16

Project Number:

15.OC.018

Drawn By:

ML

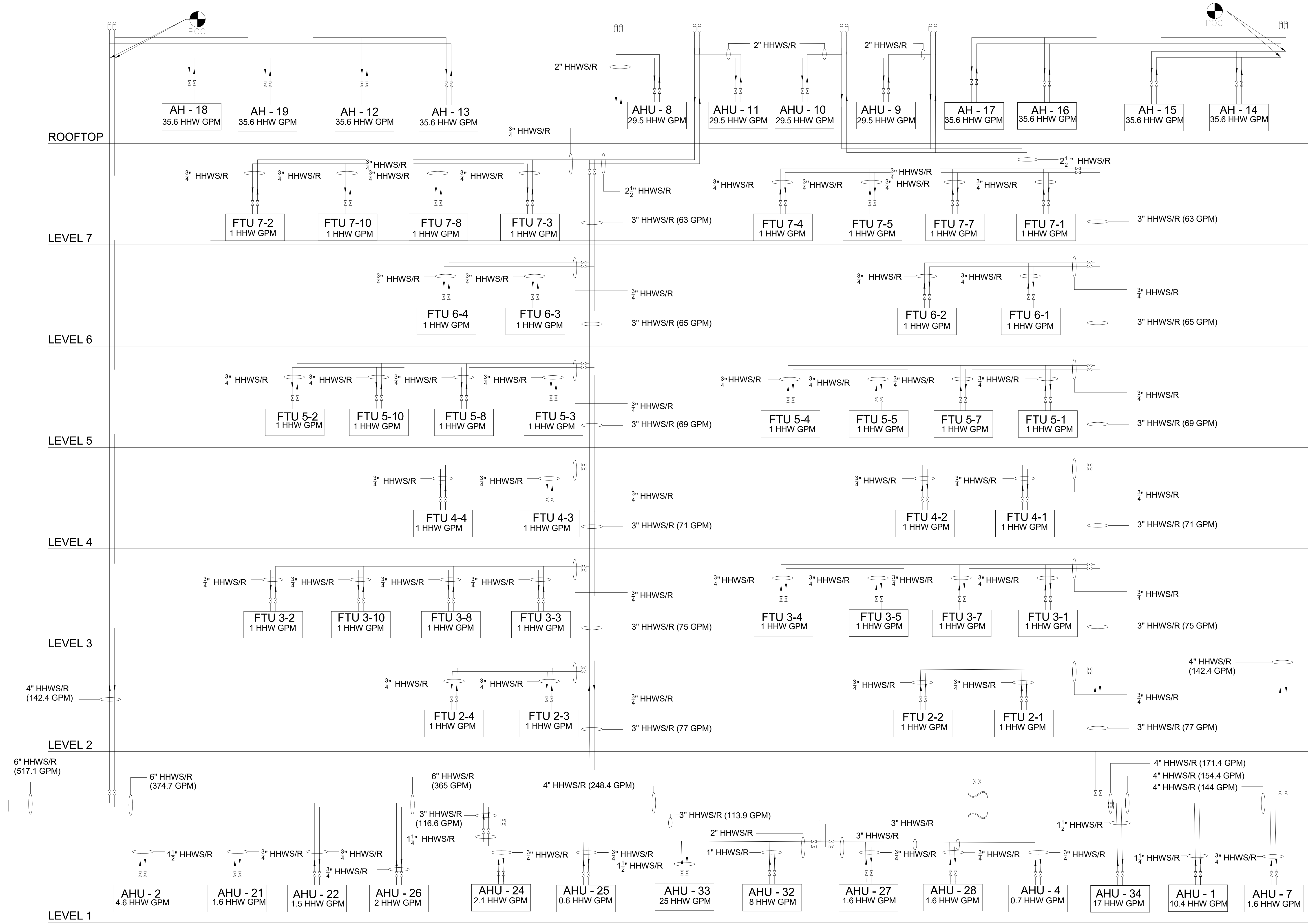
Checked By:

DL

**HEATING HOT
 WATER RISER
 DIAGRAM**

Sheet No.:

M303



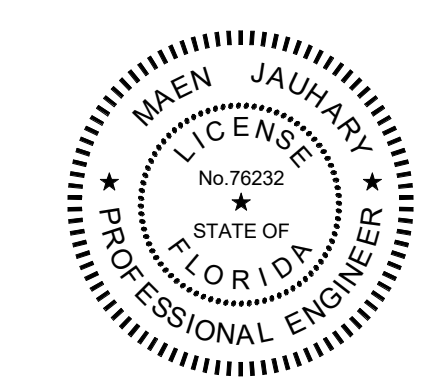
1 HHW PIPING RISER DIAGRAM

Client:



Consultants:

EOR Stamp:



01/13/2017

MAEN JAUHARY, PE 76232 (FL)

Project:

ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:

3723 VISION BLVD.
ORLANDO FL 32839

Issuance:

PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:

12/16/16

Project Number:

15.OC.018

Drawn By:

ME

Checked By:

MJ

ELECTRICAL GENERAL INFORMATION

Sheet No.:

E001

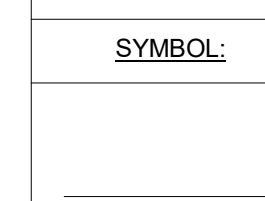
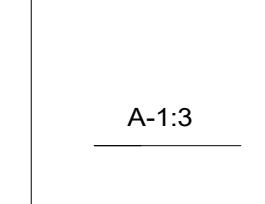
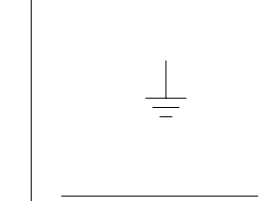
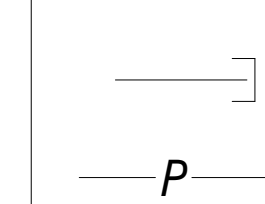
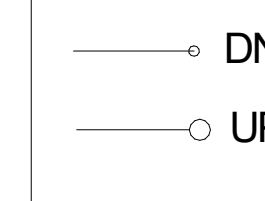

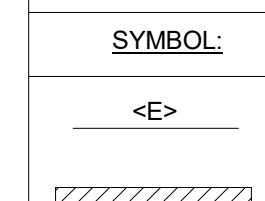
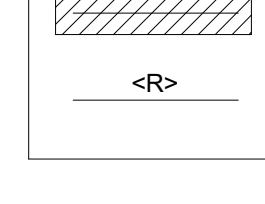
ELECTRICAL GENERAL NOTES

- THE ELECTRICAL WORK IS SUBJECT TO ALL OF THE PURCHASER'S TERMS, CONDITIONS AND SPECIFICATIONS, INCLUDING WORKMANSHIP.
- GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION" (ANSI).
- IT IS THE INTENT OF THESE ELECTRICAL DRAWING SHEETS TO CALL FOR FINISHED WORK, TESTED, AND READY FOR OPERATION, FOR THE ELECTRICAL WORK. "PROVIDE" IS AN ALL-INCLUSIVE TERM REQUIRING CONTRACTOR TO PROCURE, FABRICATE, FURNISH, INSTALL, MOUNT, WIRE, CONNECT AND SUPPLY ALL MATERIAL AND LABOR NECESSARY TO COMPLETE THE WORK TO THE ACCEPTANCE OF THE OWNER AND THE AUTHORITY HAVING JURISDICTION (AHJ).
- ALL MATERIAL PROVIDED BY THE CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS, LISTED/LABELED FOR THE INTENDED PURPOSE, BY UNDERWRITERS LABORATORY (UL) OR OTHER ORGANIZATION THAT IS ACCEPTABLE TO THE AHJ.
- ALL MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL INSPECT SITE FOR FIELD VERIFICATION OF ALL ASPECTS OF THE WORK PRIOR TO BIDDING.
- ALL DISCREPANCIES ON DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO SUBMISSION OF BIDS. CONTRACTORS SUBMISSION OF A BID CONSTITUTES ACCEPTANCE OF ALL CONDITIONS INCLUDING FIELD CONDITIONS.
- THE CONTRACTOR SHALL OBTAIN AND FURNISH ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS. THE CONTRACTORS BID SHALL INCLUDE COST OF ALL REQUIRED PERMITS AND FEES, INCLUDING UTILITY FEES.
- THE ELECTRICAL SHEETS ARE DIAGRAMMATICAL IN NATURE AND INDICATE THE GENERAL LOCATION OF OUTLETS, EQUIPMENT, AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING. ALTHOUGH THE DRAWINGS DO NOT NECESSARILY INDICATE THE ACTUAL ROUTES OF CONDUITS, WHERE INDICATED, THEY SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL PERMIT. WHERE CONDUIT RUNS ARE NOT SHOWN ON THE DRAWINGS, COORDINATE CONDUIT RUNS WITH THE WORK OF OTHER TRADES AND STRUCTURE. SIMPLIFY INSTALLATION WHEREVER POSSIBLE, BUT SUBJECT TO APPROVAL BY THE ARCHITECT FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULL BOXES, AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS. IN CASE OF DISCREPANCY BETWEEN ELECTRICAL AND ARCHITECT SHEET SET FOR MOUNTING ELEVATIONS OR REFLECTED CEILINGS, FOLLOW ARCHITECT SHEETS.
- MAINTAIN ON THE JOB SITE, IN GOOD CONDITION, ONE SET OF UP-TO-DATE ELECTRICAL DRAWINGS PROGRESSIVELY, NEATLY, LEGIBLY, AND EXACTLY RECORD ON THESE DRAWINGS THE LOCATION OF ALL CONCEALED CONDUIT RUNS AND ALL WORK WHICH IS INSTALLED DIFFERENTLY THAN IN THE LOCATION AND MANNER INDICATED ON THE DRAWINGS. ON COMPLETION OF THE WORK, THE DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT FOR APPROVAL AND POSSESSION AS A PERMANENT AND COMPLETE RECORD DOCUMENT OF THE ELECTRICAL WORK.
- WHEN FOLLOWED BY THE PHRASE "OR EQUAL", SPECIFIC MANUFACTURER'S PRODUCTS ARE USED AS A BASIS OF DESIGN. ALTERNATE PRODUCT MAY BE PROVIDED IF APPROVED "AS EQUAL" BY THE ENGINEER OF RECORD AND THE AHJ.
- FOR ALL ELECTRICAL & COMMUNICATIONS DEVICES AND CIRCUITS, CONTRACTOR SHALL FIELD VERIFY WITH OWNER AND COORDINATE WITH ALL OTHER TRADES FINAL LOCATION(S) PRIOR TO ROUGH IN.
- PRIOR TO FINAL ACCEPTANCE, CLEAN ALL SWITCHES, CABINETS, DEVICE PLATES, FIXTURES, AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT, AND ENSURE THAT ALL PANEL BOARD DIRECTORIES ARE IN PLACE AND COMPLETED OR REVISED AS REQUIRED BY THE WORK, AND THAT ALL MARKING AND IDENTIFICATION OF ALL EQUIPMENT, JUNCTION BOXES, AND OTHER ITEMS IS COMPLETED. REPAIR OR REPLACE, AS DIRECTED BY THE OWNER, ANY ITEMS DAMAGED DUE TO INSTALLATION OR RELOCATION OF EQUIPMENT OR DEVICES AT NO ADDITIONAL COST TO THE OWNER.
- UPON THE COMPLETION OF THE WORK, THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH OR UNDER THE SUPERVISION OF THE ARCHITECT/ENGINEER AND OR AHJ. THE CONTRACTOR SHALL BE AVAILABLE TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC. TO PERMIT INSPECTION AS REQUIRED.
- ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, NATIONAL ELECTRIC CODE (NFPA 70), LOCAL ORDINANCES AND THE AUTHORITY HAVING JURISDICTION.
- FLEXIBLE CONDUIT INSTALLED OUT OF DOORS, IN ANY MECHANICAL EQUIPMENT ROOM, OR IN NORMALLY WET AREAS SHALL BE LIQUID TIGHT FLEX WITH SUITABLE FITTINGS.
- COORDINATE WITH ALL MECHANICAL TRADES FOR SPACE REQUIREMENTS IN MECHANICAL ROOMS, CORRIDORS, SHAFTS, ABOVE CEILING, ETC. THIS INCLUDES SPACE ABOVE PANELS WHERE DUCTS AND PIPING ARE PROHIBITED.
- FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT, SEE MECHANICAL PLANS.
- PROVIDE CONDUIT EXPANSION FITTINGS WITH BONDING JUMPERS FOR ALL CONDUITS PASSING THROUGH EXPANSION JOINTS.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

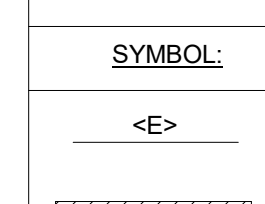
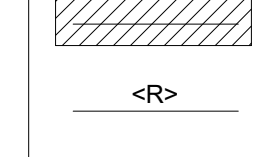
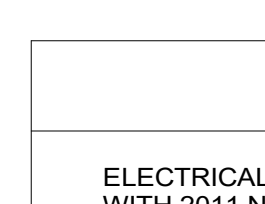
ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME
AFCI	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFF	ABOVE FINISHED FLOOR
AHG	AIR HANDLER GRADE
AHU	AIR HANDLER UNIT (HVAC)
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT OR CONDUCTOR
CB	CIRCUIT BREAKER
CLG	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CU	CONDENSING UNIT (HVAC), COPPER
DS	DISCONNECT (SAFETY) SWITCH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EL	EMERGENCY LIGHT (UNSWITCHED)
ELE	ELECTRICAL, ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EW	ELECTRIC WATER HEATER
EX	EXISTING
FBC	FLORIDA BUILDING CODE
FDS	FUSED DISCONNECT (SAFETY) SWITCH
FLOUR	FLOUR
FMC	FLEXIBLE METAL CONDUIT
FMT	FLEXIBLE METAL TUBING
GND	GROUND (ELECTRICAL)
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GWH	GAS WATER HEATER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE LIGHT
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM LIGHT
HZ	HERTZ (ELECTRICAL)
ICCB	INSULATED CASE CIRCUIT BREAKER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LTG	LIGHT LIGHTING
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE LIGHT, MAN HOLE
ML	MAIN LUGS ONLY
N. NEUT	NEUTRAL (ELECTRICAL)
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
P	POLE
PB	PULL BOX
PCB	POWER CIRCUIT BREAKER
PH	PHASE (ELECTRICAL)
PNL	PANEL
PNLB	PANELBOARD
PVC	PLASTIC CONDUIT
PWR	POWER (ELECTRICAL)
RCPT	RECEPTACLE
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RTU	ROOF TOP UNIT (HVAC)
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SH	SHIELDED
SW	SWITCH
SWBD	SWITCHBOARD
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTABLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V, VAC	VOLT, VOLT AC
W	WATT
WP	WEATHERPROOF
XFMR	POWER TRANSFORMER
NOT ALL ABBREVIATIONS ARE USED IN EVERY DESIGN	

CONDUIT RACEWAY & WIRING LEGEND

SYMBOL:	DESCRIPTION:
	RACEWAY CONDUIT CONCEALED ABOVE CEILING OR WITHIN WALL UNLESS OTHERWISE NOTED. EACH CIRCUIT SHALL CONSIST OF PHASE, NEUTRAL, AND GROUND CONDUCTORS. EVERY CIRCUIT SHALL HAVE ITS OWN INDIVIDUAL NEUTRAL. FOR LIGHTING CIRCUITS PROVIDE REQUIRED SWITCH LEGS TO ACHIEVE SWITCHING INDICATED ON PLANS.
	HOME RUN TO PANEL ALL HOMERUNS SHALL BE #10 AWG, 3/4" C. MINIMUM. WIRING HOME RUN: LETTER INDICATES PANEL NUMBER IS BRANCH CIRCUIT(S)
	GROUNDING CONDUCTOR.
	CONDUIT IN/UNDER SLAB OR UNDERGROUND.
	CONDUIT CAP.
	CONDUIT FOR POWER.
	CONDUIT STUB-DOWN.
	CONDUIT STUB-UP.

RENOVATION/DEMO LEGEND

SYMBOL:	DESCRIPTION:
	EXISTING TO REMAIN.
	EXISTING TO BE REMOVED.
	EXISTING TO BE RELOCATED.

CODE DISCLAIMERS

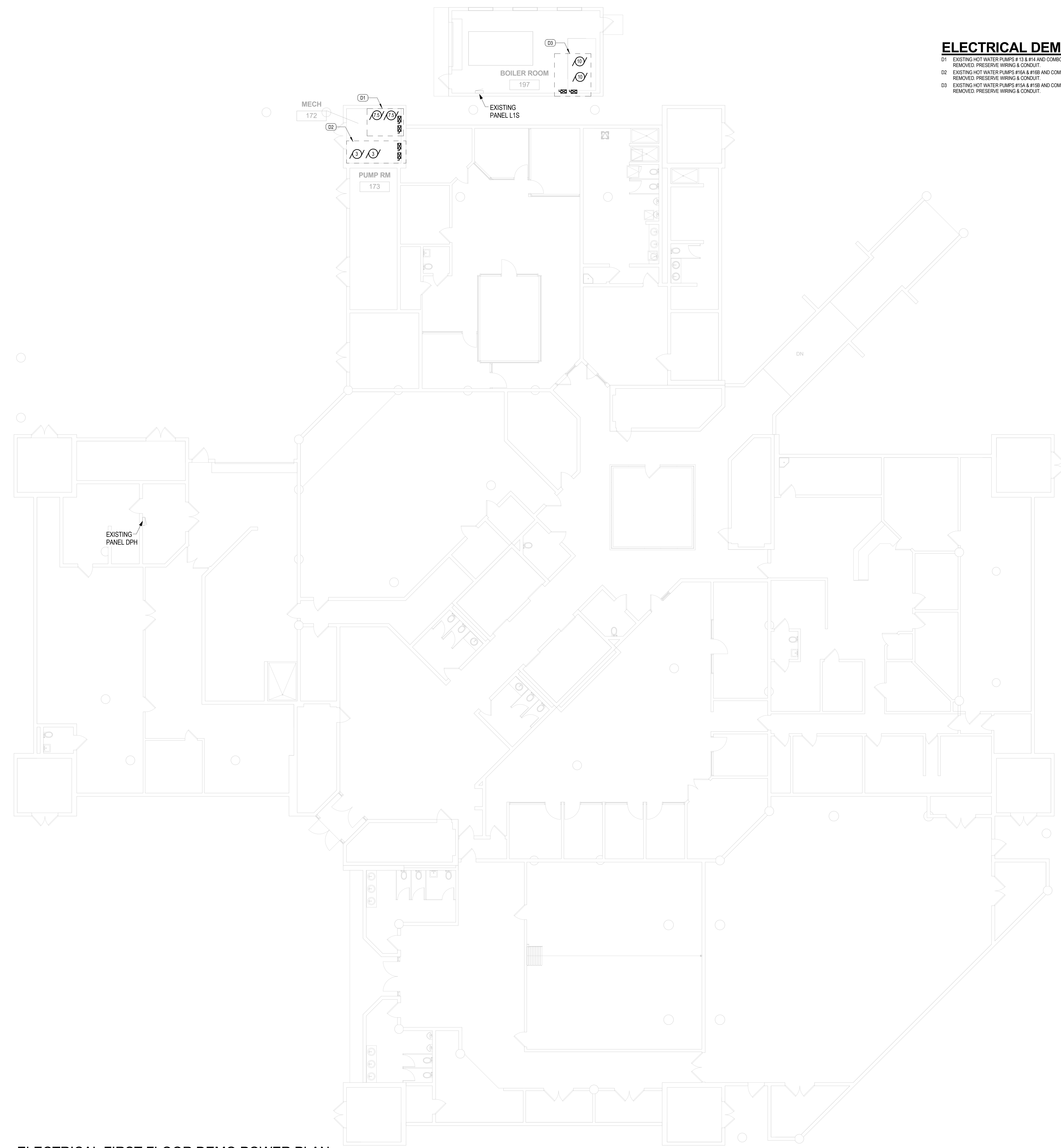
ELECTRICAL DESIGN IN ACCORDANCE WITH 2011 NATIONAL ELECTRIC CODE (NFPA-70), AS INCORPORATED BY THE 2014 FLORIDA BUILDING CODE AND 2014 EDITION OF THE FLORIDA IRE PREVENTION CODE.	ALL MAIN FEEDERS HAVE BEEN SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP AND ALL BRANCH CIRCUIT FEEDERS HAVE BEEN SIZED FOR A MAXIMUM OF 3% VOLTAGE DROP PER FBC-5TH EDITION.
--	--

Electrical Sheet Index

Sheet Number	Sheet Name
E001	ELECTRICAL GENERAL INFORMATION
ED101	ELECTRICAL FIRST FLOOR DEMO POWER PLAN
E101	ELECTRICAL FIRST FLOOR NEW POWER PLAN
E201	ELECTRICAL PANEL SCHEDULES

ELECTRICAL DEMO NOTES DU

- D1 EXISTING HOT WATER PUMPS # 13 & #14 AND COMBINATION STARTERS TO BE REMOVED. PRESERVE WIRING & CONDUIT.
- D2 EXISTING HOT WATER PUMPS #16A & #16B AND COMBINATION STARTERS TO BE REMOVED. PRESERVE WIRING & CONDUIT.
- D3 EXISTING HOT WATER PUMPS #15A & #15B AND COMBINATION STARTERS TO BE REMOVED. PRESERVE WIRING & CONDUIT.



Client:



Consultants:

EOR Stamp:



MAEN JAUHARY, PE 76232 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ME Checked By: MJ

**ELECTRICAL
FIRST FLOOR
DEMO POWER
PLAN**

Sheet No.:

ELECTRICAL GENERAL NOTES

1. SEAL TIGHT WEATHER PROOF BOXES/FITTINGS AT ALL ELECTRICAL CONNECTIONS.
2. PROVIDE ALL NEMA-3R DISCONNECT SWITCHES.
3. NO PVC CONDUITS SHALL BE USED. PROVIDE ALL WEATHER PROOF FITTINGS.

ELECTRICAL KEY NOTES

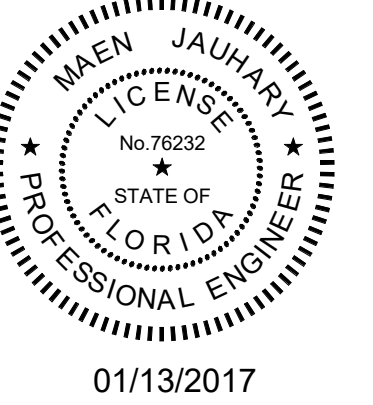
1. RELOCATE EXISTING CONDUITS & COMMUNICATION CABLES TO ALLOW FOR THE DEMOLITION & INSTALLATION OF HOT WATER PIPES. SEE MECHANICAL DRAWINGS.
2. NEW PUMP VFDs. MOUNT ON A UNISTRUT.

Client:



Consultants:

EOR Stamp:



01/13/2017
MAEN JAUHARY, PE 76232 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:

12/16/16

Project Number:

15.OC.018

Drawn By:

ME

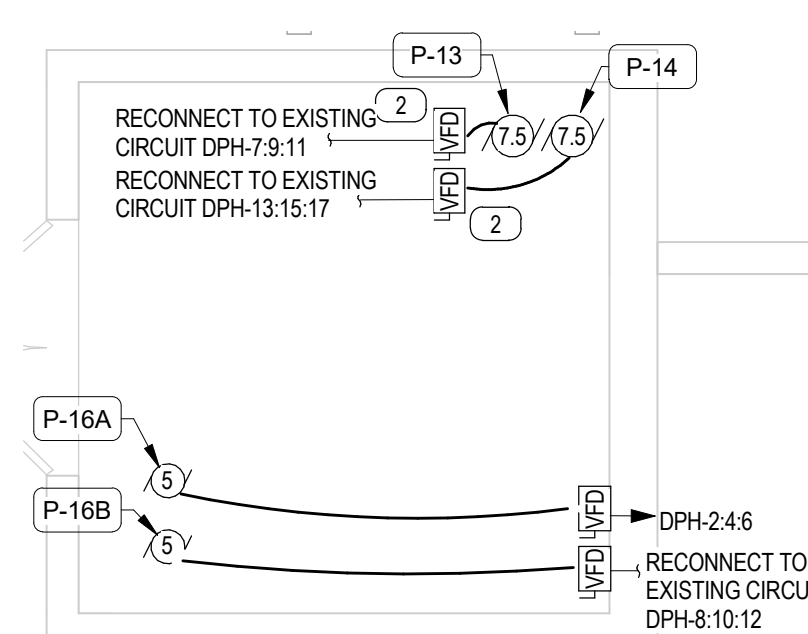
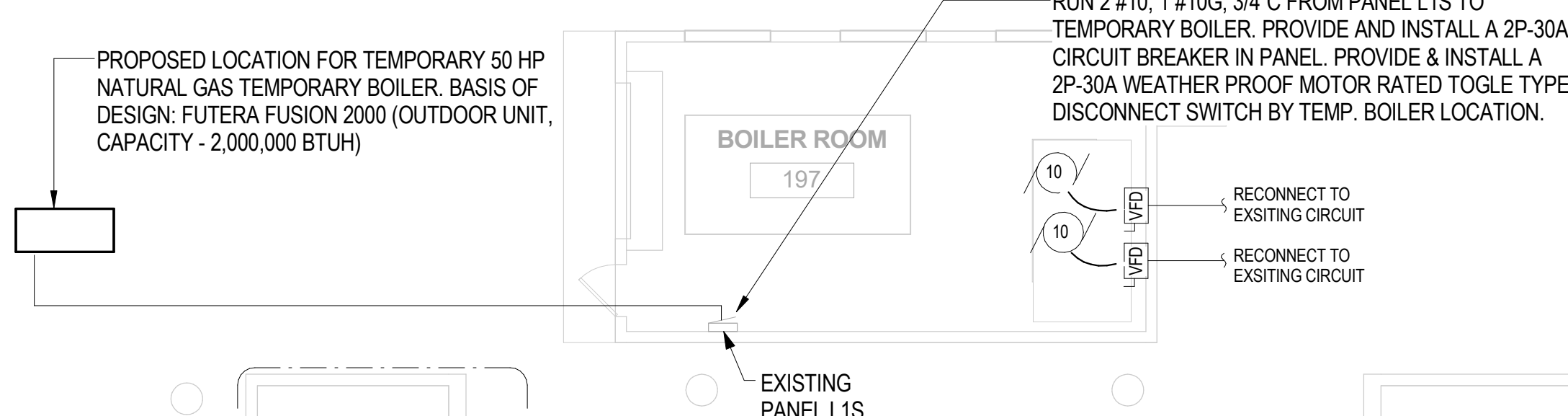
Checked By:

MJ

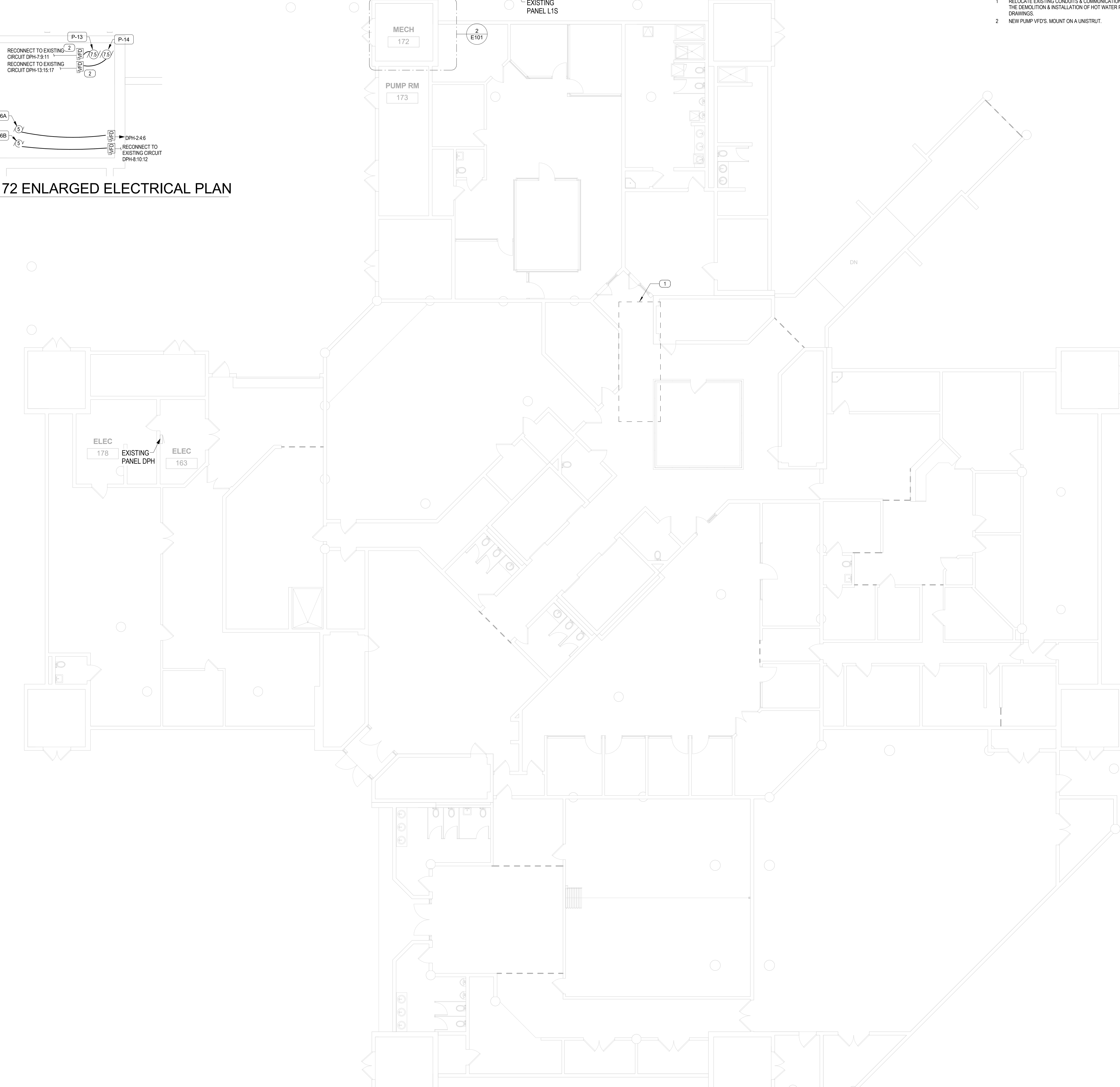
**ELECTRICAL
FIRST FLOOR
NEW POWER
PLAN**

Sheet No.:

E101



2 ROOM 172 ENLARGED ELECTRICAL PLAN



1 ELECTRICAL FIRST FLOOR NEW POWER PLAN



905 S. Orange Blvd. Suite 100, Winter Park, FL 32789
Tel: 407.973.2000, www.rtmconsultants.com

Client:



Consultants:

EOR Stamp:



01/13/2017
MAEN JAUHARY, PE 76232 (FL)

Project:
ORANGE COUNTY
CORRECTIONS
HORIZONS AHU HOT
WATER REPLACEMENT

Location:
3723 VISION BLVD.
ORLANDO FL 32839

Issuance:
PERMIT DOCUMENTS

Revisions:

#	Date	Description

Date:
12/16/16

Project Number:
15.OC.018

Drawn By: ME	Checked By: MJ
-----------------	-------------------

**ELECTRICAL
PANEL
SCHEDULES**

Sheet No.:

E201

UPDATED: 1/13/2017 1:38 pm		EXISTING PANEL DPH																		
ISSUED FOR: APPROVAL		LOCATION: ELEC. RM				MAIN: 400A MDS				CONN. LOAD: 183.8 KVA										
		VOLTAGE: 277Y/480V				SYSTEM: 3ø, 4W				FEED: TOP										
		TRIM: SURFACE				BUS RATING: 400A				GROUND BUS: YES COPPER										
CKT	LOAD SERVED	COND	PHAS	NEUT	ØNO	BKR	DMD	L1	L2	L3	DMD	BKR	ØNO	PHAS	NEUT	ØNO	LOAD SERVED	CKT		
1	PH. HTA							11867				20/3	3/4"	#10	-	#10		P-16A (5HP)	2	
3								11867												4
5								11867												6
7	P-13 (7.5HP)				20/3	N		3047					20/3					P-16B (5HP)	8	
9								3047												10
11								3047												12
13	P-14 (7.5HP)				20/3	N		3047					ØNO/3					C.W. PUMP (10HP)	14	
15								3047												16
17								3047												18
19	AH-32				15/3	N		11807												20
21								11807												22
23								11807												24
25	AH-34				15/3	A		11807					30/3					CPH (2 @ 1.5 HP)	26	
27						A		11807												28
29						A		11807												30
31	AH-33				15/3	A		11807					-/3							32
33						A		11807												34
35						A		11807												36
INTERRUPT RATING:								51200	61200	61200	FROM:									
LOADS (IN VA)		CONNECTED	DEMAND	MINIMUM	LOADS		CONNECTED	DEMAND	MINIMUM	REMAINING		CONTINUOUS LOADS		0	1.25	0				
LIGHTING		0	1.25	0	NON-SEASONAL		0	1.0	0	REMAINING		NON-CONTINUOUS LOADS		177540	1.0	177540				
RECEPTS TO 10 KVA		0	1.0	0	LARGEST MOTOR		11634	0.25	2909	DEMAND LOADS				0	1.0	0				
RECEPTS REMAINING		0	0.5	0	WATER HEATING		0	1.0	0	TOTAL CONNECTED LOAD				183.8	KVA	221.2	AMPS			
SPACE HEATING		0	0.0	0	KITCHEN EQUIP.		0	1.0	0	MIN. FEEDER/PANEL CAP.				186.7	KVA	224.7	AMPS			
AIR CONDITIONING		6240	1.0	6240						OVERALL DEMAND FACTOR				1.02						