



Purchase College

STATE UNIVERSITY OF NEW YORK

735 Anderson Hill Road

Purchase, NY 10577-1402

www.purchase.edu

Procurement Department
IFB: Dining Hall Serving Area Renovation
Project SU-061224
Addendum #03 * August 27, 2024

To: Prospective Bidders

No. of Pages: 7

SUNY Purchase hereby issues this Addendum for the above referenced IFB, to provide the following clarifications:

Item 1: SUNY Purchase received questions at the pre-bid meeting and via email. Some of the questions and answers were inadvertently left off Addendum #01. Those questions and answers are being provided in this addendum, along with updated mechanical drawings and a sketch showing the location of the chair rail.

Please be sure to sign THIS ADDENDUM (as acknowledgment that your firm received it) and submit it with your bid package, which is due **Tuesday, September 10, 2024, at 3 p.m.**

Respectfully,

Sheli Taylor, Associate Director
Procurement and Accounts Payable

Acknowledgement of ADDENDUM #03

Signature

Date

Typed printed name and title

Company name

Purchase College Project #SU-061224
Dining Hall Interior Rehab

Addendum #03 – Bidder's Questions & Answers

Q21. Please provide, as on Plans G-200 & G-201 there is no mention of manufacturer/Model Name for Light Fixture LA22 & LA41.

**A21. LA-22 is Corelite Continua SQ4 by Cooper Lighting.
Model #SQ4-F-XX-930-1D-UNV-STD-W-SU-0**

**LA-41 is Halo SMD12 series by Cooper Lighting.
Model #SMD12RTR-209SWHE**

This information is on the sheets mentioned above.

Q34. We have some conflict we would like to get clarification on. Plan M-101 shows (10) of the Big Ass Fans. Plan G-202 shows (13) of the Big Ass.

A34. There are 13 fans to be replaced. See updated mechanical drawings (attached).

Q35. Plan A-230, Finish legend calls for chair rail. Plan A-400, section 10 shows chair rail. Is this part of the GC contractor or by Millwork Vendor? Also, what is the extent of the chair rail as it is not marked on the plan.

A35. The intent for the chair railing is to conceal the exposed electrical conduits. This work should be done in coordination with, and after the electrical conduits are in place. Once done, it should be uniform throughout, except where the kitchen counters are located (see attached sketch). Wood molding to be painted to match the wall on which it occurs.

Q36. Drawing E-101.00 Electrical Contractor Notes #4-Exact Routing of New Conduits shall be Coordinated In Field. Additionally Drawing A-200.00 Construction General Notes 01 No Cutting, Chopping or Channeling of Structural Slab. Will a chase from the ceiling to the Free-Standing Serving Lines be provided for a pathway of new branch circuit wiring? Advise on pathway to Free-Standing Serving Lines for new Electrical Branch Circuits.

A36. The design intent is to reuse the existing pathways feeding the free-standing servery counters. The new servery counter at the south end of the servery area will be fed from the adjoining wall on its right side, where the counter abuts the wall.

SUMMARY OF WORK:
THE WORK SHALL BE AS SHOWN AND CALLED FOR IN THE CONTRACT DOCUMENTS AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING GENERAL ITEMS OF WORK:
INSTALLATION OF NEW CEILING FAN TYPE (QTY. 13), INCLUDING ALL THE MECHANICAL WORK REQUIRED, AND DELIVERY OF EQUIPMENT. PROVIDE POWER SYSTEMS, AND WIRE PROTECTION AS PER NEC.
PROVIDE MAXIMUM OVER CURRENT PROTECTION FOR CEILING FAN SYSTEMS.
NO CHANGE IN BULK, EGRESS, USE OR OCCUPANCY UNDER THIS APPLICATION.
*SCOPE OF WORK IS NOT RELATED TO FLOOD MITIGATION OR DAMAGES DUE TO FLOOD.

GENERAL NOTES
1. CONTRACTOR SHALL COORDINATE THE WORK SHOWN ON THESE DRAWINGS WITH ALL OTHER TRADES.
2. ALL WORK TO COMPLY WITH THE PROVISIONS OF THE: 2020 BUILDING CODE OF NEW YORK STATE (BASED ON INTERNATIONAL BUILDING CODE (IBC) 2018). 2020 MECHANICAL CODE OF NEW YORK STATE (BASED ON INTERNATIONAL MECHANICAL CODE (IMC) 2018). 2020 ENERGY CONSERVATION CONSTRUCTION OF NEW YORK STATE (BASED ON INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018). NFA ASHRAE
3. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE AND/OR BUILDING.
4. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR THE REQUIRED CONSTRUCTION PERMIT(S), FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK. APPLICATION FOR CONSTRUCTION PERMITS SHALL BE PROCESSED THRU THE DOB.
5. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
6. PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
7. ADEQUATELY BRACE AND PROTECT ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, WRECKAGE, COLLAPSE, DISTORTIONS AND ALL ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
8. PATCH REPAIR ALL FLOORS, WALLS, CEILINGS, ETC. DAMAGED OR EXPOSED DUE TO WORK OR REMOVALS AND FINISH TO MATCH ADJOINING SURFACES.
9. WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON THE DRAWINGS IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHING OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL MANUFACTURED PRODUCTS ARE TO BE ENGINEER/ARCHITECT APPROVED. ALL PRODUCTS MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
10. FIRE STOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTION AS PER SPECIFICATIONS.
11. ADDITIONAL NOTES WHICH ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DRAWINGS.
12. NO DOB VIOLATIONS ARE BEING CORRECTED IN THIS APPLICATION.
13. THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR REQUIRED INSPECTIONS, PERMIT(S), FEES, LICENSE AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
14. ALL NEW EQUIPMENT SHALL BE SET OR MOUNTED ON A LEVEL BASE CAPABLE OF SUPPORTING AND DISTRIBUTING THE WEIGHT CONTAINED THEREON. ALL EQUIPMENT SHALL BE SECURED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NOTE TO THE CONTRACTOR:
THE CONTRACTOR IS RESPONSIBLE FOR FORWARDING ALL CONTRACT DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM, FIRE PROTECTION, PLUMBING DRAWINGS AND SPECIFICATIONS) TO ALL OF ITS SUBCONTRACTORS. DURING THE BIDDING PROCESS THE SUB-CONTRACTORS SHALL ASSUME WHERE DIRECTED ON ANY DRAWINGS AS "CUSTOMER PROVIDED" OR "OWNER PROVIDED", THE SUB CONTRACTOR SHALL PROVIDE THE SPECIFIED ITEM. NO ADDED PAYMENT ABOVE THE CONTRACT SUM WILL BE PAID TO THE CONTRACTOR FOR ANY WORK WHICH MAY BE REQUIRED AS A RESULT OF THE CONTRACTORS FAILURE TO COORDINATE THIS INFORMATION DURING THE PRICING PROCESS.

GENERAL NOTES
GENERAL CONTRACTOR SHALL OBTAIN ALL SIGN-OFFS, PERMITS, AND FINAL C.O. FROM THE BUILDING DEPARTMENT.

MECHANICAL GENERAL NOTES
1. THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE MECHANICAL CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE MECHANICAL/ELECTRICAL/PLUMBING PLANS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
2. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK" OR "WORK" SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND LABOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED ON THE DESIGN DOCUMENTS.
4. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS RECOMMENDATIONS.
5. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
6. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE OWNER/ENGINEER OF ANY DISCREPANCIES PRIOR TO AWARDDING OF BID.
7. COORDINATE HVAC SYSTEM INSTALLATION WITH EXISTING CONDITIONS. VISIT SITE PRIOR TO BID AND INVESTIGATE REQUIREMENTS FOR HVAC SYSTEM INSTALLATION. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8. ALL CHANGES MADE IN THE FIELD SHALL BE RECORDED ON AS-BUILT DRAWINGS, SHOP DRAWINGS, AND MAINTENANCE MANUALS. PROVIDE FINAL AS-BUILT CONDITIONS IN AUTOCAD FORMAT.
9. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
10. CONTRACTOR SHALL OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS PRIOR TO CONSTRUCTION, AND PAY ALL RELATED FEES. OWNER WILL HIRE AND PAY FOR EXPEDITOR FEES. ALL PERMIT FEES ARE BY CONTRACTOR.
11. ALL MATERIALS, EQUIPMENT AND INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE BUILDING AND MECHANICAL CODES, SMACNA, UL, MANUFACTURERS' RECOMMENDATIONS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
12. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
13. CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED BY MECHANICAL INSPECTOR AND/OR ARCHITECT /ENGINEER. CONTRACTOR SHALL NOTIFY A/E OF A SCHEDULED INSPECTION TIME WITHIN 72 HOURS. GENERAL CONTRACTOR SHALL NOT CONCEAL WORK UNTIL APPROVED, REGARDLESS OF SCHEDULE.
14. REFER TO SPECIFICATIONS ON DRAWINGS, DETAILS AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION.
15. ALL EQUIPMENT, PIPING AND VALVES SHALL HAVE SPECIFIED IDENTIFICATION LABELS AND AS INDICATED.
16. CONTRACTOR AND HIS SUBCONTRACTORS SHALL WORK WITH A FULL SET OF LATEST MECHANICAL DRAWINGS. IT IS CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
18. EACH TRADE CONTRACTOR SHALL RECEIVE ALL DRAWINGS AND SPECIFICATION SECTIONS ISSUED AS PART OF THE OVERALL BID PACKAGE. ALL CONTRACTORS ARE TO RECEIVE, REVIEW, AND COORDINATE ALL OF THEIR WORK AS SHOWN OR REFERENCED ON THE OTHER TRADE DOCUMENTS. ALL WORK SHOWN OR REFERENCED ON THE OTHER TRADE DOCUMENTS SHALL BE INCLUDED AS PART OF THE OVERALL PROJECT SCOPE FOR THAT PARTICULAR DISCIPLINE AND TRADE.
19. SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
20. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
21. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
22. REVIEW ALL DISCIPLINES DRAWINGS INCLUDING ARCHITECTURAL AND STRUCTURAL, AND COORDINATE IN FIELD ALL WORK WITH OTHER TRADES AND WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ANY WORK. REPORT ALL CONFLICTS IMMEDIATELY TO ARCHITECT AND/OR ENGINEER.
23. VERIFY THE ACTUAL LOCATIONS AND EXACT DIMENSIONS OF ALL EQUIPMENT, CASEWORK, DEVICES, FIXTURES, SWITCHES, SENSORS, ETC. DURING FIELD VISITS AND PRIOR TO PERFORMING ANY ROUGH-IN WORK FOR THE UTILITIES AND DUCTWORK. REPORT DISCREPANCIES IMMEDIATELY TO ARCHITECT AND/OR ENGINEER.
24. ALL ADJUSTABLE THERMOSTATS AND TEMPERATURE SENSORS SHALL BE MOUNTED 46" ABOVE FINISHED FLOOR.
25. COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.
26. COORDINATE THE LOCATIONS OF ALL EQUIPMENT AND REGISTERS WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO PERFORMING AND ROUGH-IN WORK FOR THE UTILITIES.
27. SCHEDULE ALL WORK, CUTTING AND BUILDING SERVICE INTERRUPTIONS WITH BUILDING OWNER AND CONSTRUCTION MANAGER PRIOR TO COMMENCING WITH THE WORK.
28. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
29. PROVIDE ALL ROOFING OPENINGS AND FLASHINGS REQUIRED FOR THE INSTALLATION OF ROOF MOUNTED EQUIPMENT.
30. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. ALL WIRING SHALL BE NON COMBUSTIBLE OR SHALL BE ENCLOSED IN METAL CONDUIT OR PROTECTED BY A SHEET METAL COVER SECURED WITH METAL FASTENERS.
31. INSULATION, FITTINGS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
32. PROVIDE ACCESS PANELS AS REQUIRED FOR ALL VALVES, DAMPERS, CONTROLS, OR OTHER EQUIPMENT.
33. ALL ROOFING WORK SHALL BE PERFORMED BY AUTHORIZED ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.
34. SUPPORT ALL EQUIPMENT, PIPING AND DUCTWORK FROM BUILDING STRUCTURE TO PROVIDE A VIBRATION FREE INSTALLATION. OTHERWISE ADHERE TO THE DETAILS IN THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT AND/OR STRUCTURAL ENGINEER OF ALL WEIGHTS AND METHODS OF SUPPORT. PROVIDE DETAILS TO COORDINATE CONCRETE PADS AND STEEL PLATFORMS REQUIRED FOR MECHANICAL WORK.
35. CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
36. CONTRACTOR SHALL PROTECT ALL SURFACES DURING RIGGING AND CONSTRUCTION INCLUDING BUT NOT LIMITED TO THE LOBBY AND HALLWAY FLOORS AND WALLS. CONTRACTOR SHALL RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
37. REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
38. PROVIDE ACCESS PANELS IN NON LAY-IN-CEILINGS FOR SERVICE AND MAINTENANCE OF ALL CONCEALED EQUIPMENT AND DEVICES, SUCH AS HEAT PUMPS, ELECTRIC DUCT HEATERS, COILS, SMOKE DETECTORS, BALANCING DAMPERS AND FIRE DAMPERS.
39. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
40. COORDINATE LOCATION OF NEW DUCTWORK, AIR DEVICES AND EQUIPMENT WITH LIGHT FIXTURES, SPRINKLER PIPING AND HYDRONIC PIPING.
41. SHEET METAL FITTINGS SHOWN SHALL BE PROVIDED. NO SUBSTITUTES WILL BE ALLOWED WITHOUT PRIOR CONSENT FROM ENGINEER.
42. PROVIDE BALANCING DAMPERS IN ALL DUCT BRANCHES TO AIR DEVICES.
43. EQUIPMENT INDICATED ON THE DRAWINGS, TOGETHER WITH ITS BASE AND /OR SUPPORT, DUCTWORK CONNECTIONS, SERVICE CLEARANCES, WALL, FLOOR AND ROOF PENETRATIONS, AND ELECTRICAL REQUIREMENTS IS BASED ON THE MODEL INDICATED IN THE SCHEDULES. IF CONTRACTOR FURNISHES AN EQUIVALENT SUBSTITUTION, THE CONTRACTOR SHALL MAKE THE REQUIRED MODIFICATIONS IN THE WORK WITHOUT THE CHANGE IN CONTRACT AMOUNT.
44. DUCTWORK SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR. DUCTWORK SHALL NOT COVER OR LIMIT ACCESS TO EXISTING J-BOXES.
45. INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES.
46. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT AND PIPE TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
47. PROVIDE VIBRATION ISOLATION FOR ROTATING, REVOLVING OR RECIPROCATING EQUIPMENT, INCLUDING DUCTWORK CONNECTIONS TO THIS EQUIPMENT TO PREVENT TRANSMISSION OF NOISE AND VIBRATION TO BUILDING STRUCTURE AND OCCUPIED SPACES. VIBRATION ISOLATION DEVICES SHALL INCLUDE SPRING VIBRATION ISOLATORS, NEOPRENE PADDING AND DUCT /PIPE FLEXIBLE CONNECTIONS.
48. PROVIDE FLEXIBLE CONNECTIONS AT ALL FANS INLET AND OUTLET CONNECTIONS.
49. EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM DUST, DIRT AND DAMAGE UNTIL FINAL ACCEPTANCE CLOSE ALL DUCT AND EQUIPMENT OPENINGS DURING CONSTRUCTION WITH SUITABLE PROTECTIVE COVERING BEFORE, DURING AND FOLLOWING INSTALLATION.
50. REMOVE TEMPORARY AIR FILTERS AND PROVIDE NEW FLTLERS IN ALL AIR CONDITIONING EQUIPMENT WITHIN THE SCOPE OF WORK UPON COMPLETION OF CONSTRUCTION AND BEFORE BALANCING.
51. CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND ELECTRICAL SPECIFICATIONS.
52. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED.
53. PROVIDE SELECTIVE CEILING DEMOLITION TO PLACE NEW DUCTWORK AND DIFFUSERS. REPLACE DAMAGED CEILING TILES AND GRIDS RESULTING FROM DEMOLITION. NEW CEILING TILES SHALL MATCH WITH EXISTING.
54. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND COORDINATION WITH ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO STRUCTURAL, LIGHTING, ELECTRICAL, PLUMBING, AND OTHER EXISTING AND NEW WORK. VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO PURCHASING EQUIPMENT. ALL DISCREPANCIES OR POTENTIAL PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING. PROVIDE ADDITIONAL MATERIALS AND LABOR TO RELOCATE OR REPLACE MECHANICAL WORK AS REQUIRED TO ALLOW SPACE FOR THE WORK OF ALL TRADES.
55. THE WORK INCLUDES CONNECTION TO AN EXISTING MECHANICAL, ELECTRICAL, FIRE ALARM, AND CONTROL SYSTEMS ON THE PROJECT. CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ANY LABOR AND MATERIALS NECESSARY TO UNCOVER, TRACE, TEST, FIELD VERIFY, AND MEASURE ANY EXISTING EQUIPMENT OR SYSTEMS THAT ARE AFFECTED BY THE WORK UNDER THIS CONTRACT.
56. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS.
57. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS RELATED TO REMOVING AND REPLACING ALL CEILINGS AS REQUIRED FOR THE MECHANICAL AND ELECTRICAL WORK ON THIS PROJECT.
58. THE CONTRACTOR SHALL INCLUDE IN THE BID THE RELOCATION OF ANY EXISTING JUNCTION BOXES (OF ANY KIND) THAT WILL BE INACCESSIBLE DUE TO THE WORK IN THIS PROJECT.
59. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.
60. THE CONTRACTOR SHALL INCLUDE IN THEIR BID COSTS REQUIRED TO RELOCATE EXISTING CONDUITS OF ANY KIND IN ORDER TO INSTALL NEW EQUIPMENT, DUCTWORK, AND PIPING. .
61. SEISMIC REQUIREMENTS AS SPECIFICATIONS.

DUCT SYMBOLS
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<div><div><div><div><div><div>A.D.</div><div></div></div><div><div></div><div></div></div></div><div></div></div><div>ACCESS DOOR (SIZES VARY AS SHOWN ON DRAWINGS)</div></div></div>
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ABBREVIATIONS
A.D. - ACCESS DOOR
A.A.D. - AUTOMATIC AIR OPERATED LOUVER DAMPER
ACCU - AIR COOLED CONDENSING UNIT
C.F.M. - CUBIC FEET PER MINUTE
C.C. - COOLING COIL
C.O.D. - CLEAN OUT DOOR
C.P. - CONDENSATE PUMP
D.N. - DRAIN
(E) - EXISTING
EA. - EXHAUST AIR (CFM)
EF. - EXHAUST FAN
F.D. - FIRE DAMPER
GR. - GRILLE (WITH VOLUME DAMPER)
HMI - HUMAN MACHINE INTERFACE
M.A.D. - MANUAL AIR OPERATED LOUVER DAMPER
LDR. - LINEAR DIFFUSER RETURN
LDS. - LINEAR DIFFUSER SUPPLY
O.A.I. - OUTSIDE AIR INTAKE (FRESH AIR INLET)
RA. - RETURN AIR (CFM)
SA. - SUPPLY AIR (CFM)
SF. - SUPPLY FAN
TEF. - TOILET EXHAUST FAN
VENT. - VENTILATION
WMS - WIRE MESH SCREEN

MECHANICAL DRAWING LIST	
Dwg. No.	Drawing Title
M-001.00	MECHANICAL - SYMBOLS, LEGENDS & NOTES
M-002.00	MECHANICAL - EQUIPMENT SCHEDULE & DETAILS
DM-101.00	MECHANICAL - DEMOLITION PART PLAN
M-101.00	MECHANICAL - NEW WORK PART PLAN

PURCHASE COLLEGE

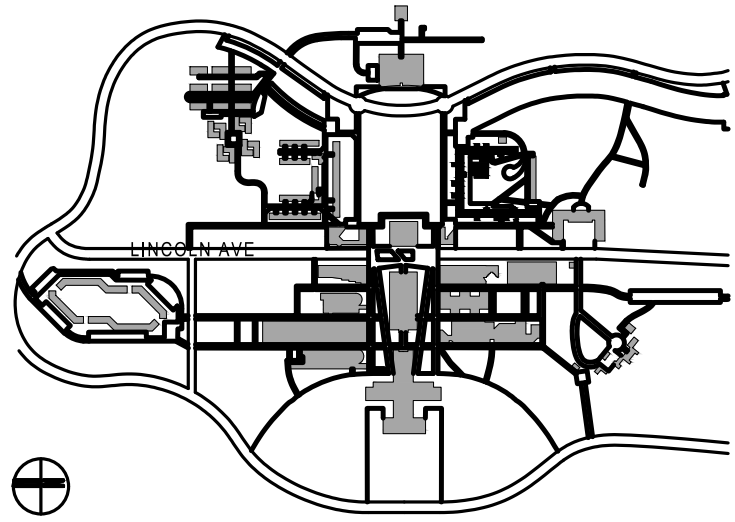
STATE UNIVERSITY OF NEW YORK

RESIDENTIAL COMPLEX A

DINING HALL RENOVATION

OWNER	PURCHASE COLLEGE, SUNY 735 ANDERSON HILL RD. PURCHASE NY 10577-1400 CONTACT SEAN CONNOLLY T 914-251-5916 E SEAN.CONNOLLY@PURCHASE.EDU
ARCHITECT	LEWANDOWSKA ARCHITECT PLLC 244 FIFTH AVENUE, SUITE B-265, NEW YORK, NY 10001 CONTACT BARBARA LEWANDOWSKA T 212-787-4558 E INFO@LEWANDOWSKAARCHITECT.COM
MEP ENGINEER	DM ENGINEERS PLLC 45-08 40TH STR. UNIT 1A, SUNNYSIDE NY 11104 CONTACT MARIO MENDOZA T 929-333-2359 E PROJECTS@DM-ENGINEERS.COM

KEY PLAN



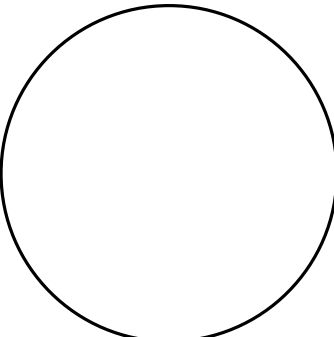
CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

BUILDING DEPARTMENT NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW
NO	DATE	DESCRIPTION

ISSUES

SEAL:



ISSUE:

ISSUED FOR BID

SCALE:	AS NOTED	PROJECT NO.: 2403	DATE:	03.25.2024
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DRAWING TITLE:

MECHANICAL - SYMBOLS,
LEGENDS & NOTES

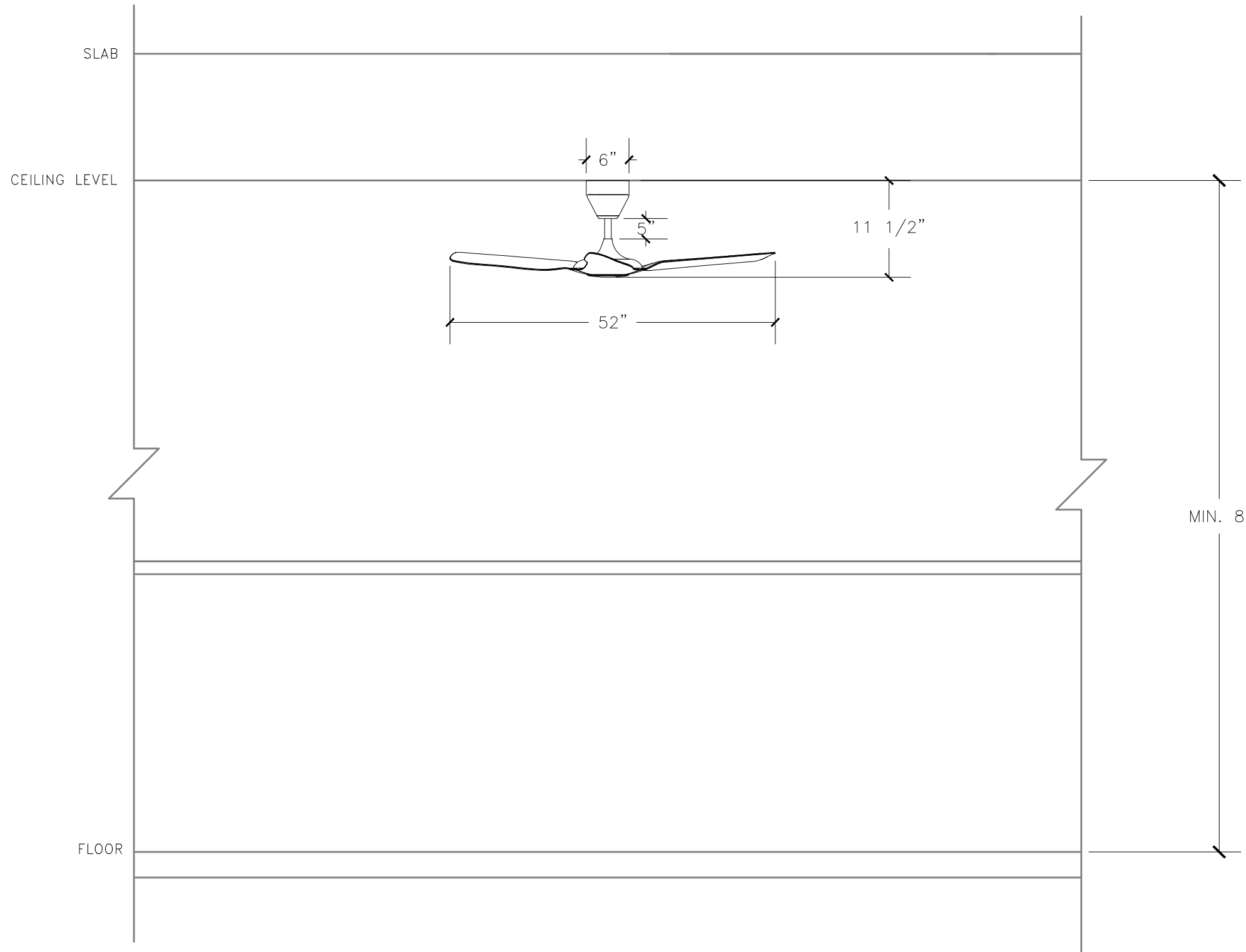
DRAWING NUMBER	DRAWING
1 OF 4	M-001.00

CEILING FAN (WITH LIGHT) SCHEDULE													
UNIT TAG	SERVICE	LOCATION	TOTAL AIR CAPACITY (CFM)	SPEED MIN/MAX (RPM)	WATTS (MAX)	TYPE OF FAN	V/PH/HZ	DIMENSIONS (IN) ØxH	WEIGHT (LBS)	MAX SOUND LEVEL (dBA)	MANUFACTURER	MODEL	REMARK
CF-1	SERVING AREA	INDOOR — SERVING AREA	5,204	60/260	19.3	CEILING FAN WITH LIGHT	100-240/1/60	52X11.5	11.9	<35	BIG ASS FANS	HAIKU L	SEE NOTES
<div>NOTES:</div> <div><div>1. FOR INDOOR INSTALLATIONS ON FLAT OR SLOPED CEILINGS 8FT OR TALLER.</div><div>2. COORDINATE COLOR SELECTION WITH ARCHITECT.</div><div>3. PROVIDE HANDHELD REMOTE CONTROL.</div><div>4. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL POWER AND LIGHT CONNECTIONS.</div></div>													

1

EQUIPMENT SCHEDULE

N.T.S



2

TYPICAL CEILING FAN ELEVATION DETAIL

N.T.S

PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

RESIDENTIAL COMPLEX A

DINING HALL RENOVATION

OWNER

PURCHASE COLLEGE, SUNY

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E SEAN.CONNOLLY@PURCHASE.EDU

ARCHITECT

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244 FIFTH AVENUE, SUITE B-265, NEW YORK, NY 10001

CONTACT BARBARA LEWANDOWSKA

T 212-787-4558

E INFO@LEWANDOWSKAARCHITECT.COM

MEP ENGINEER

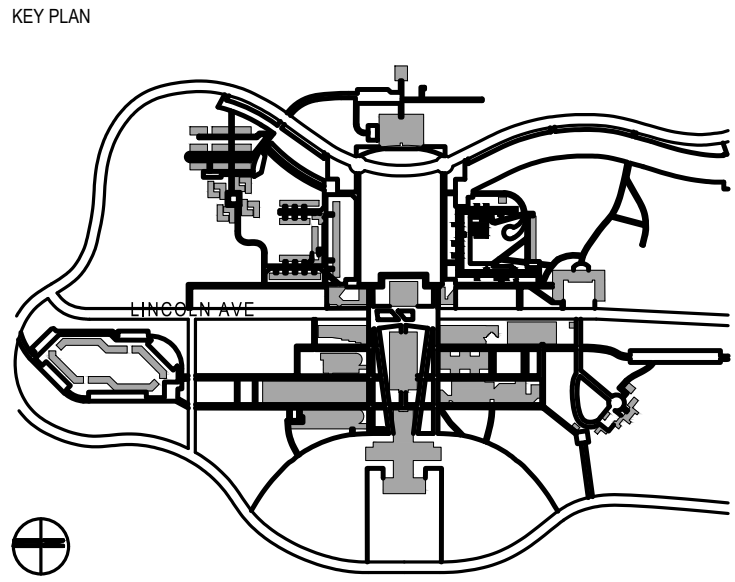
DM ENGINEERS PLLC

45-08 40TH STR. UNIT 1A, SUNNYSIDE NY 11104

CONTACT MARIO MENDOZA

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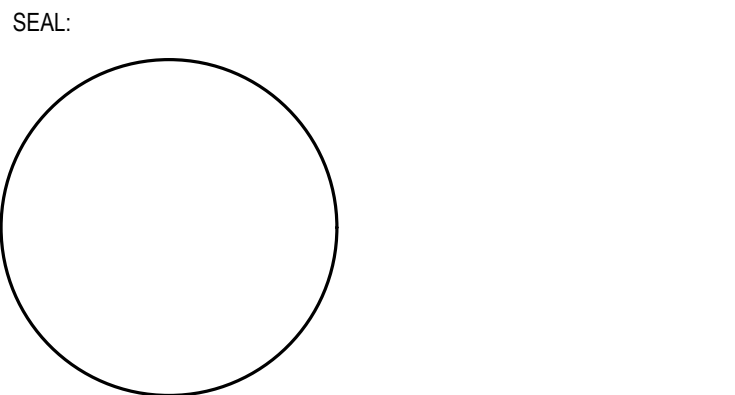


CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

BUILDING DEPARTMENT NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW
NO	DATE	DESCRIPTION

ISSUES



ISSUE:

ISSUED FOR BID

SCALE: AS NOTED PROJECT NO: 2403 DATE: 03.25.2024

DRAWING TITLE:

MECHANICAL - EQUIPMENT SCHEDULE AND DETAILS

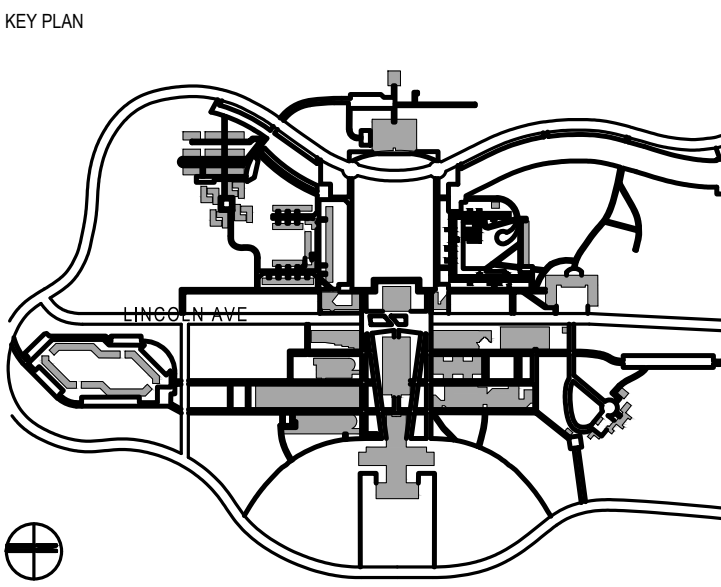
DRAWING NUMBER 2 OF 4 DRAWING M-002.00

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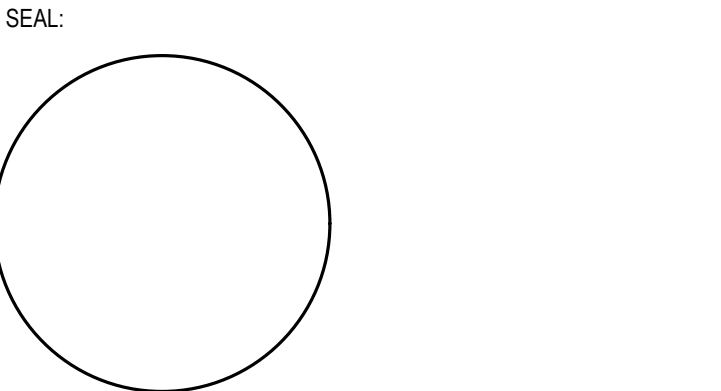


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02 05.14.2024 ISSUED FOR BID
01 04.26.2024 ISSUED FOR CLIENT REVIEW
NO DATE DESCRIPTION

ISSUES

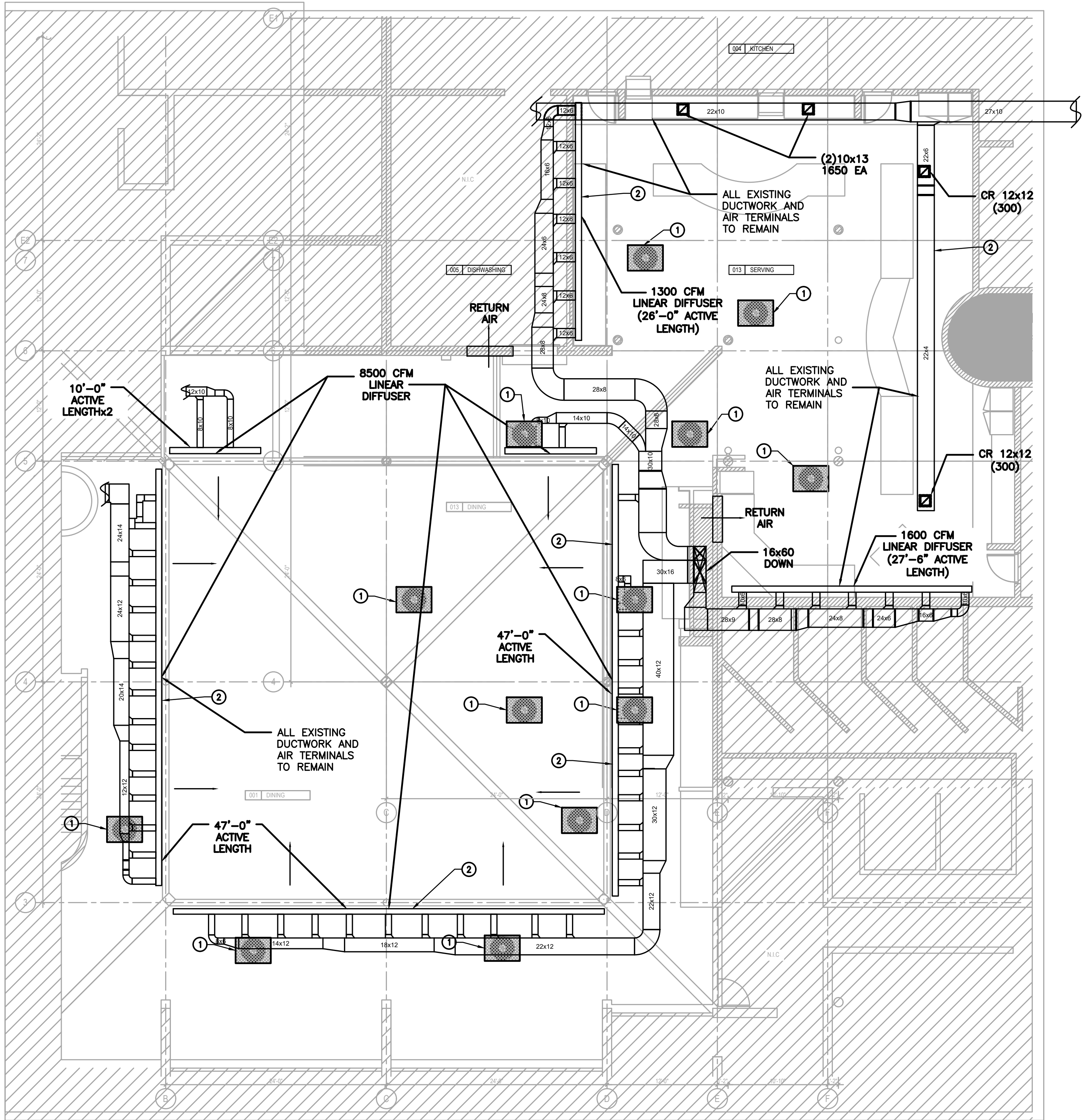


ISSUE:
ISSUED FOR BID

SCALE: AS NOTED PROJECT NO: 2403 DATE: 03.25.2024

DRAWING TITLE:
MECHANICAL - DEMOLITION PART PLAN

DRAWING NUMBER 3 OF 4 DRAWING DM-101.00



1 MECHANICAL - DEMOLITION PART PLAN
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

- ALL DEMOLITION AND REMOVAL WORK SHALL BE COMPLETED AS INDICATED AND NOTED ON THE DRAWING AND AS SPECIFIED.
- BEFORE STARTING WORK MAKE A THOROUGH EXAMINATION OF THOSE PORTIONS OF THE STRUCTURE IN WHICH THE WORK IS TO BE PERFORMED. CHECK ALL THE WORK ADJOINING OR AT UNDERLYING LOCATIONS. REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK; DO NOT START THE WORK UNTIL SUCH CONDITIONS HAVE BEEN EXAMINED AND A COURSE OF ACTIONS MUTUALLY AGREED UPON.
- PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL CALL TO THE ATTENTION OF THE ENGINEER OF RECORD AND SUNY-PURCHASE COLLEGE ANY DAMAGE, CRACKS AND OTHER IMPERFECTIONS IN THE WORK ADJACENT TO THE DEMOLITION AREAS.
- BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES WHERE REQUIRED, IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS AND ALL APPLICABLE CODES.
- TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING INTO ANY ADJACENT OCCUPIED SPACES, PARTITION TO BE SLAB TO SLAB. UNDER NO CIRCUMSTANCES SHALL DUST ENTER ADJACENT OCCUPIED SPACES. PROTECTION MUST BE MAINTAINED AT ALL TIMES.
- KEEP ALL ADJOINING PUBLIC AREAS CLEAN AND FREE OF DEBRIS OF CONSTRUCTION MATERIALS DURING WORKING HOURS. PROVIDE SAFE CONDITIONS FOR THE GENERAL PUBLIC AND WORKMEN.
- DEMOLISHED MATERIALS, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A LEGAL MANNER. ALL DISPOSAL OFF SITE, ON A REGULAR BASIS, AND RUBBISH CARTING IS DEMOLITION RESPONSIBILITY.
- REPAIR AND/OR REPLACE EXISTING ITEMS NOT SCHEDULED OR NOTED TO BE DEMOLISHED, AND NOT SPECIFIED TO BE REMOVED, BUT WHICH BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS AND MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE SUNY-PURCHASE COLLEGE.
- PATCH, FILL AND REPAIR ALL SURFACES DISTURBED, CUT, DAMAGED, IN NEED OF REPAIR OR MADE IMPERFECT BY ALTERATIONS OR REMOVAL WORK AND AS REQUIRED TO PREPARE SURFACES FOR NEW MATERIAL AND ARRANGEMENTS.
- G.C. IS RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORT AND SHORING OF EXISTING CEILINGS, PARTITIONS, ETC. DURING DEMOLITION AND RENOVATION.
- EXISTING FINISHES TO REMAIN THAT ARE DISTURBED BY DEMOLITION AND/OR RENOVATION SHALL BE PATCHED TO MATCH EXISTING.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY DUST PARTITIONS AND DEBRIS PROTECTION BETWEEN AREAS OF CONSTRUCTION AND AREAS IN WHICH NO WORK IS TAKING PLACE. LOCATION OF SUCH PROTECTION SHALL BE VERIFIED WITH THE YMCA PRIOR TO COMMENCING WORK AND IN COORDINATION WITH THE PROGRESSION OF THE WORK SCHEDULE.
- ALL OPENINGS DUE TO REMOVAL OF EXISTING ELECTRICAL OUTLETS, SWITCHES ETC. AND MECHANICAL ITEMS SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING FINISHES AND/OR NEW FINISHES. ALL PERSONNEL TO BE ON SITE MUST BE SIGNED IN AND OUT WHILE WORKING IN ANY LOCATIONS OF THE BUILDING.
- ALL PERSONNEL MUST REPORT TO SECURITY ANY TIME WHILE WORKING ON PROPERTY. ALL DOORS AND OPENINGS MUST BE COMPLETELY SECURED AT THE END OF EACH WORK DAY.
- SITE ACCESS AND SECURITY WILL BE STRICTLY ENFORCED. FAILURE TO ABIDE BY YMCA RULES WILL RESULT IN IMMEDIATE DISMISSAL OF ANY INDIVIDUAL OR COMPANY.
- CONTRACTOR TO COORDINATE ALL DEMOLITION WORK IN CONJUNCTION WITH ASBESTOS ABATEMENT AND REMOVAL WORK. ANY AND ALL PIPING OR EQUIPMENT WHICH IS COVERED WITH ASBESTOS CONTAINING MATERIAL THAT IS TO BE REMOVED AS REQUIRED FOR THE SATISFACTORY COMPLETION OF THE WORK SHALL BE CLEANED LAWFULLY OF ALL SUCH MATERIAL PRIOR TO WORK.

KEY NOTES

- REMOVE EXISTING CEILING FAN. REFER TO ELECTRICAL DRAWINGS FOR POWER DISCONNECTIONS.
- CONTRACTOR TO TAKE READINGS OF SA DIFFUSER FLOW (CFM VALUE) FOR ALL EXISTING DIFFUSERS IN THE VICINITY OF THE SCOPE OF WORK AREA PREVIOUS TO ANY DEMOLITION WORK. PROVIDE PRE-CONSTRUCTION AIR BALANCING REPORT TO EOR.

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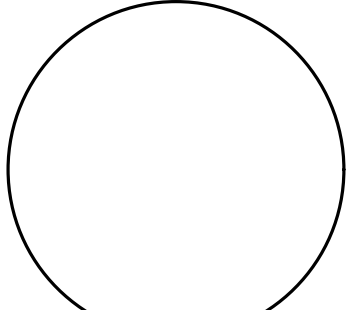
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ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER
BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

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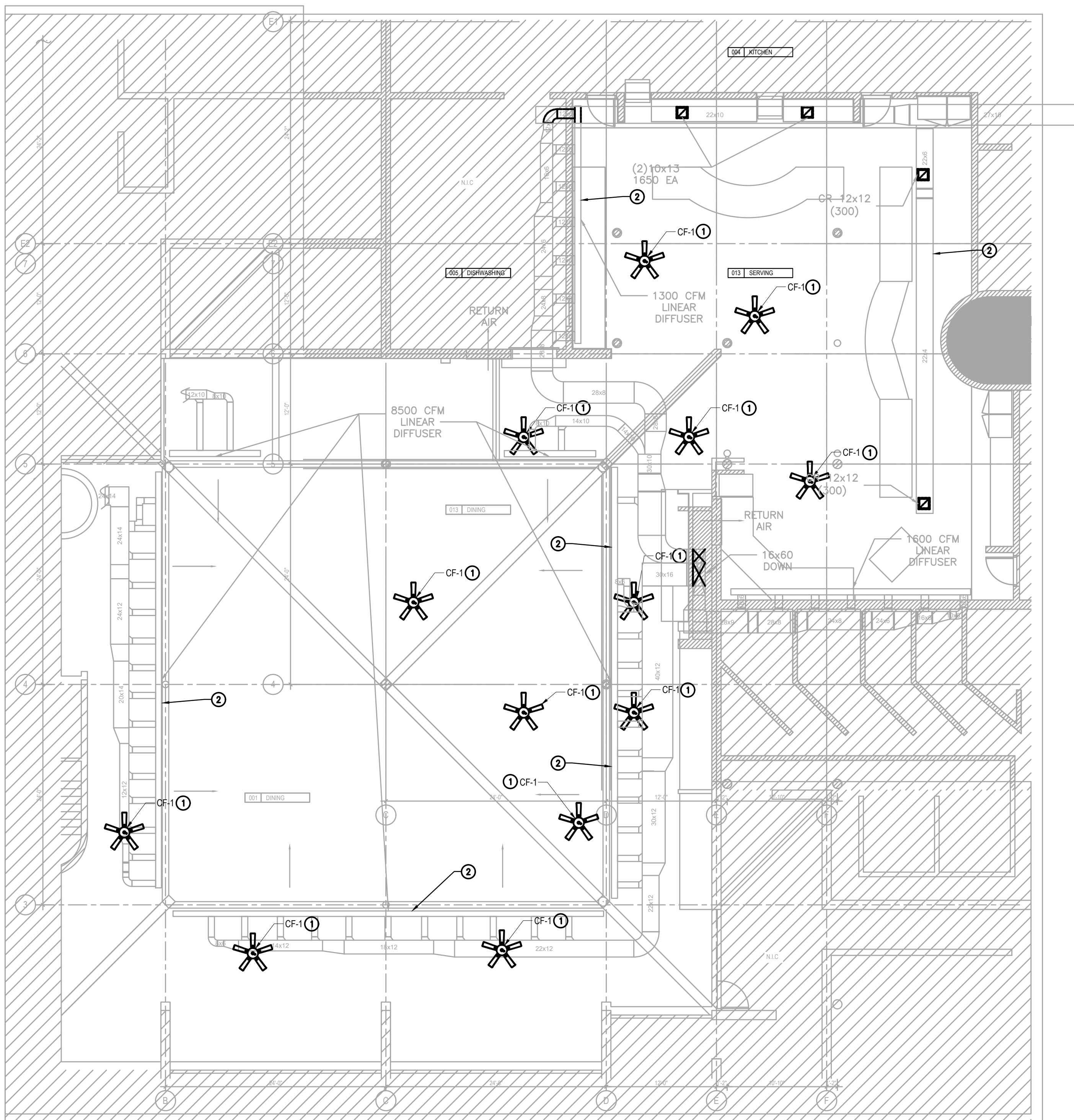
ISSUES

SEAL:



SCALE: AS NOTED	PROJECT NO: 2403	DATE: 03.25.2024
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DRAWING NUMBER	DRAWING
4 OF 4	M-101.00



1. PROVIDE COMPLETE AND PROPERLY FUNCTIONING HVAC SYSTEM FOR THIS PROJECT. VISIT THE PROJECT SITE, EXAMINE THESE PLANS AND ALL EXISTING DRAWINGS RELATING TO THE AREA OF WORK AND REPORT ANY DISCREPANCIES OR OMISSIONS IN THIS PLAN SET TO THE ENGINEER FOR A RESOLUTION AND CLARIFICATION PRIOR TO SUBMISSION FOR BIDS.
2. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, ETC.
3. REFER TO ELECTRICAL DRAWINGS FOR POWER AND LIGHT FAN CONNECTIONS.
4. PERSONS PERFORMING THE WORK OF THIS SECTION SHALL BE CERTIFIED BY NEBB, AABC OR TABB AND SHALL HAVE EXPERIENCE ON AT LEAST 2 PROJECTS INVOLVING SAME COMPLEXITIES TO THOSE REQUIRED UNDER THIS CONTRACT. THE TESTING, ADJUSTING AND BALANCING FIRM SHALL HAVE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NY (ON STAFF OR A SUB-CONSULTANT OF THE TESTING, ADJUSTING AND BALANCING FIRM) WHO SHALL SIGN AND SEAL ALL THE REPORTS.
5. SUBMIT COPIES OF THE MARKED-UP CONTRACT DRAWINGS AND CERTIFICATE OF CONFORMANCE CERTIFICATION THAT ASSURES THAT THE BALANCING SPECIALIST HAS PERFORMED THEIR CONTRACTED SERVICES IN ACCORDANCE WITH THE APPLICABLE FIRMS' (NEBB, AABC OR TABB) STANDARDS AND PROCEDURES. COPIES OF CONTRACT DRAWINGS SHALL BE MARKED UP AND INDICATE OUTLET/INLET DIFFUSER, REGISTER AND GRILLE IDENTIFICATION.
6. SUBMIT CERTIFIED REPORTS/FORMS SIGNED BY THE REGISTERED PROFESSIONAL ENGINEER REFERRED TO IN PARAGRAPH ABOVE. SUBMIT FINAL TESTING AND BALANCING RESULTS ON REPORT/FORMS (NEBB, AABC OR TABB STANDARDS AND PROCEDURES). THE CERTIFYING FIRMS' INSTRUMENT CALIBRATION REPORT SHALL BE INCLUDED IN THE SUBMISSION OF THE COMPLETED FINAL BALANCING FORMS. LACK OF SUBMISSION OF THE CERTIFYING FIRMS' INSTRUMENT CALIBRATION REPORT SHALL BE CAUSE FOR REJECTION. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED AND BALANCED; ARE AN ACCURATE REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED AND ARE OPERATING; AND ARE AN ACCURATE RECORD OF ALL FINAL QUANTITIES MEASURED TO ESTABLISH NORMAL OPERATING VALUES OF THE SYSTEMS. EACH FINAL SYSTEM REPORT FORM SHALL BEAR THE SIGNATURE OF THE PERSON PERFORMING THE WORK AND THE SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER REFERRED TO IN PARAGRAPH ABOVE. INCLUDE IN FINAL REPORTS UNCORRECTED INSTALLATION DEFICIENCIES NOTED DURING THE PROCESS OF ADJUSTING AND BALANCING AND APPLICABLE EXPLANATORY COMMENTS.

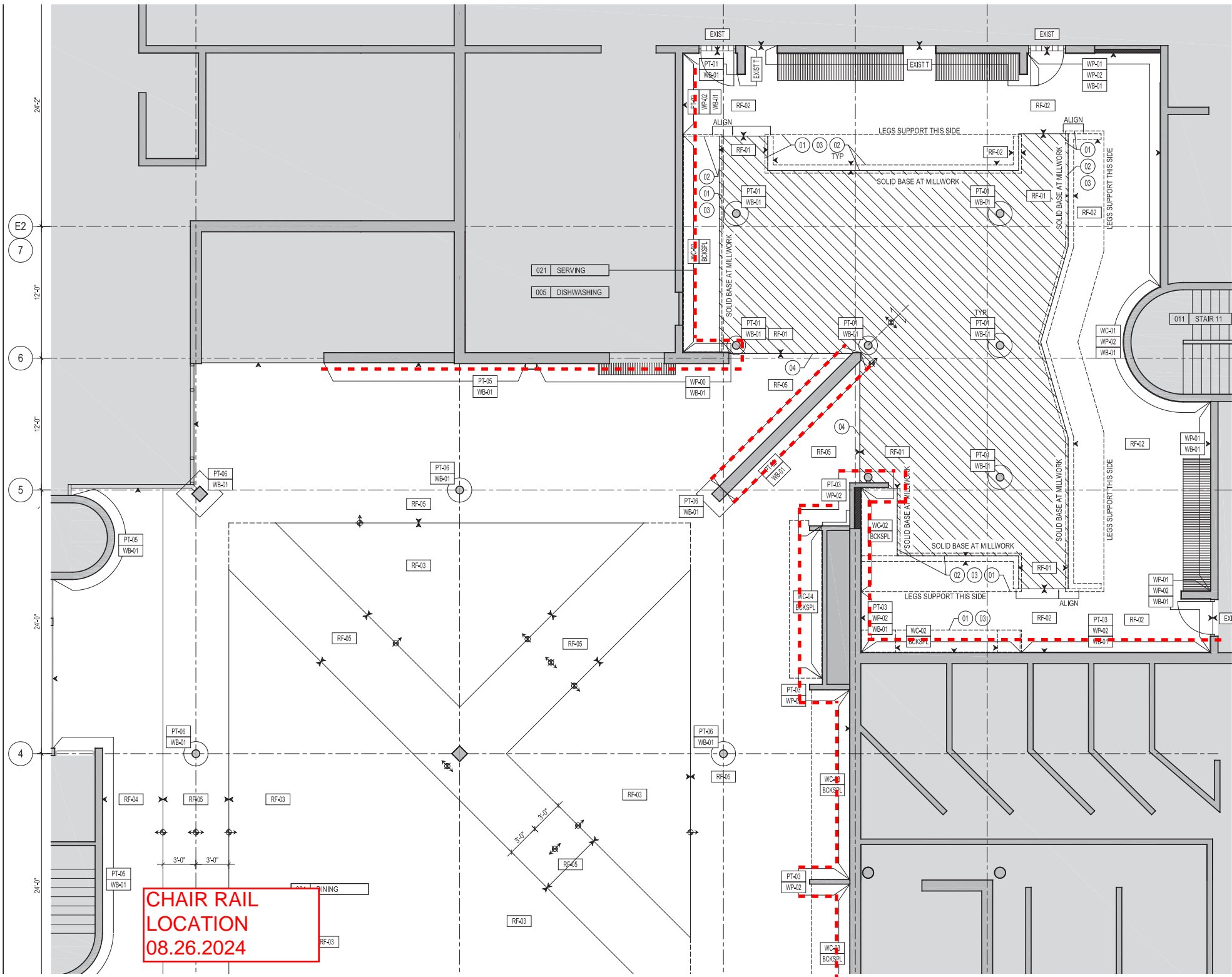
- ① PROVIDE CEILING FAN TYPE AS PER EQUIPMENT SCHEDULE ON DEG M-002. REFER TO ELECTRICAL DRAWINGS FOR POWER AND LIGHT CONNECTIONS.
- ② RE-BALANCE EXISTING DIFFUSERS TO ACHIEVE SA FLOW SHOWN ON PLAN WITHIN +/- 10%. PRE-CONSTRUCTION AIR BALANCING REPORT SHALL BE PROVIDED PREVIOUSLY TO ANY MODIFICATION TO THE EXISTING DUCTWORK SYSTEM.

1 MECHANICAL - NEW WORK PART PLAN
1/8" = 1'-0"

CHAIR RAIL
LOCATION
08.26.2024

SAVE DATE: 9/12/2024 5:14 PM

2024 5:21 PM



RF-01	RF-02	RF-03	RF-04	RF-05	RF-06	RF-07	RF-08	RF-09	RF-10	RF-11	RF-12	RF-13	RF-14	RF-15	RF-16	RF-17	RF-18	RF-19	RF-20	RF-21	RF-22	RF-23	RF-24	RF-25	RF-26	RF-27	RF-28	RF-29	RF-30	RF-31	RF-32	RF-33	RF-34	RF-35	RF-36	RF-37	RF-38	RF-39	RF-40	RF-41	RF-42	RF-43	RF-44	RF-45	RF-46	RF-47	RF-48	RF-49	RF-50	RF-51	RF-52	RF-53	RF-54	RF-55	RF-56	RF-57	RF-58	RF-59	RF-60	RF-61	RF-62	RF-63	RF-64	RF-65	RF-66	RF-67	RF-68	RF-69	RF-70	RF-71	RF-72	RF-73	RF-74	RF-75	RF-76	RF-77	RF-78	RF-79	RF-80	RF-81	RF-82	RF-83	RF-84	RF-85	RF-86	RF-87	RF-88	RF-89	RF-90	RF-91	RF-92	RF-93	RF-94	RF-95	RF-96	RF-97	RF-98	RF-99	RF-100	RF-101	RF-102	RF-103	RF-104	RF-105	RF-106	RF-107	RF-108	RF-109	RF-110	RF-111	RF-112	RF-113	RF-114	RF-115	RF-116	RF-117	RF-118	RF-119	RF-120	RF-121	RF-122	RF-123	RF-124	RF-125	RF-126	RF-127	RF-128	RF-129	RF-130	RF-131	RF-132	RF-133	RF-134	RF-135	RF-136	RF-137	RF-138	RF-139	RF-140	RF-141	RF-142	RF-143	RF-144	RF-145	RF-146	RF-147	RF-148	RF-149	RF-150	RF-151	RF-152	RF-153	RF-154	RF-155	RF-156	RF-157	RF-158	RF-159	RF-160	RF-161	RF-162	RF-163	RF-164	RF-165	RF-166	RF-167	RF-168	RF-169	RF-170	RF-171	RF-172	RF-173	RF-174	RF-175	RF-176	RF-177	RF-178	RF-179	RF-180	RF-181	RF-182	RF-183	RF-184	RF-185	RF-186	RF-187	RF-188	RF-189	RF-190	RF-191	RF-192	RF-193	RF-194	RF-195	RF-196	RF-197	RF-198	RF-199	RF-200	RF-201	RF-202	RF-203	RF-204	RF-205	RF-206	RF-207	RF-208	RF-209	RF-210	RF-211	RF-212	RF-213	RF-214	RF-215	RF-216	RF-217	RF-218	RF-219	RF-220	RF-221	RF-222	RF-223	RF-224	RF-225	RF-226	RF-227	RF-228	RF-229	RF-230	RF-231	RF-232	RF-233	RF-234	RF-235	RF-236	RF-237	RF-238	RF-239	RF-240	RF-241	RF-242	RF-243	RF-244	RF-245	RF-246	RF-247	RF-248	RF-249	RF-250	RF-251	RF-252	RF-253	RF-254	RF-255	RF-256	RF-257	RF-258	RF-259	RF-260	RF-261	RF-262	RF-263	RF-264	RF-265	RF-266	RF-267	RF-268	RF-269	RF-270	RF-271	RF-272	RF-273	RF-274	RF-275	RF-276	RF-277	RF-278	RF-279	RF-280	RF-281	RF-282	RF-283	RF-284	RF-285	RF-286	RF-287	RF-288	RF-289	RF-290	RF-291	RF-292	RF-293	RF-294	RF-295	RF-296	RF-297	RF-298	RF-299	RF-300	RF-301	RF-302	RF-303	RF-304	RF-305	RF-306	RF-307	RF-308	RF-309	RF-310	RF-311	RF-312	RF-313	RF-314	RF-315	RF-316	RF-317	RF-318	RF-319	RF-320	RF-321	RF-322	RF-323	RF-324	RF-325	RF-326	RF-327	RF-328	RF-329	RF-330	RF-331	RF-332	RF-333	RF-334	RF-335	RF-336	RF-337	RF-338	RF-339	RF-340	RF-341	RF-342	RF-343	RF-344	RF-345	RF-346	RF-347	RF-348	RF-349	RF-350	RF-351	RF-352	RF-353	RF-354	RF-355	RF-356	RF-357	RF-358	RF-359	RF-360	RF-361	RF-362	RF-363	RF-364	RF-365	RF-366	RF-367	RF-368	RF-369	RF-370	RF-371	RF-372	RF-373	RF-374	RF-375	RF-376	RF-377	RF-378	RF-379	RF-380	RF-381	RF-382	RF-383	RF-384	RF-385	RF-386	RF-387	RF-388	RF-389	RF-390	RF-391	RF-392	RF-393	RF-394	RF-395	RF-396	RF-397	RF-398	RF-399	RF-400	RF-401	RF-402	RF-403	RF-404	RF-405	RF-406	RF-407	RF-408	RF-409	RF-410	RF-411	RF-412	RF-413	RF-414	RF-415	RF-416	RF-417	RF-418	RF-419	RF-420	RF-421	RF-422	RF-423	RF-424	RF-425	RF-426	RF-427	RF-428	RF-429	RF-430	RF-431	RF-432	RF-433	RF-434	RF-435	RF-436	RF-437	RF-438	RF-439	RF-440	RF-441	RF-442	RF-443	RF-444	RF-445	RF-446	RF-447	RF-448	RF-449	RF-450	RF-451	RF-452	RF-453	RF-454	RF-455	RF-456	RF-457	RF-458	RF-459	RF-460	RF-461	RF-462	RF-463	RF-464	RF-465	RF-466	RF-467	RF-468	RF-469	RF-470	RF-471	RF-472	RF-473	RF-474	RF-475	RF-476	RF-477	RF-478	RF-479	RF-480	RF-481	RF-482	RF-483	RF-484	RF-485	RF-486	RF-487	RF-488	RF-489	RF-490	RF-491	RF-492	RF-493	RF-494	RF-495	RF-496	RF-497	RF-498	RF-499	RF-500	RF-501	RF-502	RF-503	RF-504	RF-505	RF-506	RF-507	RF-508	RF-509	RF-510	RF-511	RF-512	RF-513	RF-514	RF-515	RF-516	RF-517	RF-518	RF-519	RF-520	RF-521	RF-522	RF-523	RF-524	RF-525	RF-526	RF-527	RF-528	RF-529	RF-530	RF-531	RF-532	RF-533	RF-534	RF-535	RF-536	RF-537	RF-538	RF-539	RF-540	RF-541	RF-542	RF-543	RF-544	RF-545	RF-546	RF-547	RF-548	RF-549	RF-550	RF-551	RF-552	RF-553	RF-554	RF-555	RF-556	RF-557	RF-558	RF-559	RF-560	RF-561	RF-562	RF-563	RF-564	RF-565	RF-566	RF-567	RF-568	RF-569	RF-570	RF-571	RF-572	RF-573	RF-574	RF-575	RF-576	RF-577	RF-578	RF-579	RF-580	RF-581	RF-582	RF-583	RF-584	RF-585	RF-586	RF-587	RF-588	RF-589	RF-590	RF-591	RF-592	RF-593	RF-594	RF-595	RF-596	RF-597	RF-598	RF-599	RF-600	RF-601	RF-602	RF-603	RF-604	RF-605	RF-606	RF-607	RF-608	RF-609	RF-610	RF-611	RF-612	RF-613	RF-614	RF-615	RF-616	RF-617	RF-618	RF-619	RF-620	RF-621	RF-622	RF-623	RF-624	RF-625	RF-626	RF-627	RF-628	RF-629	RF-630	RF-631	RF-632	RF-633	RF-634	RF-635	RF-636	RF-637	RF-638	RF-639	RF-640	RF-641	RF-642	RF-643	RF-644	RF-645	RF-646	RF-647	RF-648	RF-649	RF-650	RF-651	RF-652	RF-653	RF-654	RF-655	RF-656	RF-657	RF-658	RF-659	RF-660	RF-661	RF-662	RF-663	RF-664	RF-665	RF-666	RF-667	RF-668	RF-669	RF-670	RF-671	RF-672	RF-673	RF-674	RF-675	RF-676	RF-677	RF-678	RF-679	RF-680	RF-681	RF-682	RF-683	RF-684	RF-685	RF-686	RF-687	RF-688	RF-689	RF-690	RF-691	RF-692	RF-693	RF-694	RF-695	RF-696	RF-697	RF-698	RF-699	RF-700	RF-701	RF-702	RF-703	RF-704	RF-705	RF-706	RF-707	RF-708	RF-709	RF-710	RF-711	RF-712	RF-713	RF-714	RF-715	RF-716	RF-717	RF-718	RF-719	RF-720	RF-721	RF-722	RF-723	RF-724	RF-725	RF-726	RF-727	RF-728	RF-729	RF-730	RF-731	RF-732	RF-733	RF-734	RF-735	RF-736	RF-737	RF-738	RF-739	RF-740	RF-741	RF-742	RF-743	RF-744	RF-745	RF-746	RF-747	RF-748	RF-749	RF-750	RF-751	RF-752	RF-753	RF-754	RF-755	RF-756	RF-757	RF-758	RF-759	RF-760	RF-761	RF-762	RF-763	RF-764	RF-765	RF-766	RF-767	RF-768	RF-769	RF-770	RF-771	RF-772	RF-773	RF-774	RF-775	RF-776	RF-777	RF-778	RF-779	RF-780	RF-781	RF-782	RF-783	RF-784	RF-785	RF-786	RF-787	RF-788	RF-789	RF-790	RF-791	RF-792	RF-793	RF-794	RF-795	RF-796	RF-797	RF-798	RF-799	RF-800	RF-801	RF-802	RF-803	RF-804	RF-805	RF-806	RF-807	RF-808	RF-809	RF-810	RF-811	RF-812	RF-813	RF-814	RF-815	RF-816	RF-817	RF-818	RF-819	RF-820	RF-821	RF-822	RF-823	RF-824	RF-825	RF-826	RF-827	RF-828	RF-829	RF-830	RF-831	RF-832	RF-833	RF-834	RF-835	RF-836	RF-837	RF-838	RF-839	RF-840	RF-841	RF-842	RF-843	RF-844	RF-845	RF-846	RF-847	RF-848	RF-849	RF-850	RF-851	RF-852	RF-853	RF-854	RF-855	RF-856	RF-857	RF-858	RF-859	RF-860	RF-861	RF-862	RF-863	RF-864	RF-865	RF-866	RF-867	RF-868	RF-869	RF-870	RF-871	RF-872	RF-873	RF-874	RF-875	RF-876	RF-877	RF-878	RF-879	RF-880	RF-881	RF-882	RF-883	RF-884	RF-885	RF-886	RF-887	RF-888	RF-889	RF-890	RF-891	RF-892	RF-893	RF-894	RF-895	RF-896	RF-897	RF-898	RF-899	RF-900	RF-901	RF-902	RF-903	RF-904	RF-905	RF-906	RF-907	RF-908	RF-909	RF-910	RF-911	RF-912	RF-913	RF-914	RF-915	RF-916	RF-917	RF-918	RF-919	RF-920	RF-921	RF-922	RF-923	RF-924	RF-925	RF-926	RF-927	RF-928	RF-929	RF-930	RF-931	RF-932	RF-933	RF-934	RF-935	RF-936	RF-937	RF-938	RF-939	RF-940	RF-941	RF-942	RF-943	RF-944	RF-945	RF-946	RF-947	RF-948	RF-949	RF-950	RF-951	RF-952	RF-953	RF-954	RF-955	RF-956	RF-957	RF-958	RF-959	RF-960	RF-961	RF-962	RF-963	RF-964	RF-965	RF-966	RF-967	RF-968	RF-969	RF-970	RF-971	RF-972	RF-973	RF-974	RF-975	RF-976	RF-977	RF-978	RF-979	RF-980	RF-981	RF-982	RF-983	RF-984	RF-985	RF-986	RF-987	RF-988	RF-989	RF-990	RF-991	RF-992	RF-993	RF-994	RF-995	RF-996	RF-997	RF-998	RF-999	RF-1000	RF-1001	RF-1002	RF-1003	RF-1004	RF-1005	RF-1006	RF-1007	RF-1008	RF-1009	RF-1010	RF-1011	RF-1012	RF-1013	RF-1014	RF-1015	RF-1016	RF-1017	RF-1018	RF-1019	RF-1020	RF-1021	RF-1022	RF-1023	RF-1024	RF-1025	RF-1026	RF-1027	RF-1028	RF-1029	RF-1030	RF-1031	RF-1032	RF-1033	RF-1034	RF-1035	RF-1036	RF-1037	RF-1038	RF-1039	RF-1040	RF-1041	RF-1042	RF-1043	RF-1044	RF-1045	RF-1046	RF-1047	RF-1048	RF-1049	RF-1050	RF-1051	RF-1052	RF-1053	RF-1054	RF-1055	RF-1056	RF-1057	RF-1058	RF-1059	RF-1060	RF-1061	RF-1062	RF-1063	RF-1064	RF-1065	RF-1066	RF-1067	RF-1068	RF-1069	RF-1070	RF-1071	RF-1072	RF-1073	RF-1074	RF-1075	RF-1076	RF-1077	RF-1078	RF-1079	RF-1080	RF-1081	RF-1082	RF-1083	RF-1084	RF-1085	RF-1086	RF-1087	RF-1088	RF-1089	RF-1090	RF-1091	RF-1092	RF-1093	RF-1094	RF-1095	RF-1096	RF-1097	RF-1098	RF-1099	RF-1100	RF-1101	RF-1102	RF-1103	RF-1104	RF-1105	RF-1106	RF-1107	RF-1108	RF-1109	RF-1110	RF-1111	RF-1112	RF-1113	RF-1114	RF-1115	RF-1116	RF-1117	RF-1118	RF-1119	RF-1120	RF-1121	RF-1122	RF-1123	RF-1124	RF-1125	RF-1126	RF-1127	RF-1128	RF-1129	RF-1130	RF-1131	RF-1132	RF-1133	RF-1134	RF-1135	RF-1136	RF-1137	RF-1138	RF-1139	RF-1140	RF-1141	RF-1142	RF-1143	RF-1144	RF-1145	RF-1146	RF-1147	RF-1148	RF-1149	RF-1150	RF-1151	RF-1152	RF-1153	RF-1154	RF-1155	RF-1156	RF-1157	RF-1158	RF-1159	RF-1160	RF-1161	RF-1162	RF-1163	RF-1164	RF-1165	RF-1166	RF-1167	RF-1168	RF-1169	RF-1170	RF-1171	RF-1172	RF-1173	RF-1174	RF-1175	RF-1176	RF-1177	RF-1178	RF-1179	RF-1180	RF-1181	RF-1182	RF-1183	RF-1184	RF-1185	RF-1186	RF-1187	RF-1188	RF-1189	RF-1190	RF-1191	RF-1192	RF-1193	RF-1194	RF-1195	RF-1196	RF-1197	RF-1198	RF-1199	RF-1200	RF-1201	RF-1202	RF-1203	RF-1204	RF-1205	RF-1206	RF-1207	RF-1208	RF-1209	RF-1210	RF-1211	RF-1212	RF-1213	RF-1214	RF-1215	RF-1216	RF-1217	RF-1218	RF-1219	RF-1220	RF-1221	RF-1222	RF-1223	RF-1224	RF-1225	RF
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