

MONTCLAIR STATE UNIVERSITY COLE HALL PROVOST OFFICE RENOVATION

1 NORMAL AVENUE
MONTCLAIR, NJ 07043

Drawing Index

ARCHITECTURAL		MECHANICAL	
A001	COVER SHEET	M-001	MECHANICAL COVER SHEET
D100	DEMOLITION PLANS	M-002	MECHANICAL SPECIFICATIONS
A100	FLOOR PLAN AND FINISH SCHEDULE	MD-100	MECHANICAL DEMOLITION FLOOR PLAN - DUCTWORK
A400	REFLECTED CEILING PLAN AND DETAILS	MD-200	MECHANICAL DEMOLITION FLOOR PLAN - PIPING
		M-100	MECHANICAL NEW WORK FLOOR PLAN - DUCTWORK
		M-200	MECHANICAL NEW WORK FLOOR PLAN - PIPING
		M-300	MECHANICAL EQUIPMENT SCHEDULE AND CONTROL DIAGRAM
		M-400	MECHANICAL DETAILS
FIRE PROTECTION			
FP-001	FIRE PROTECTION COVER SHEET		
FP-100	FIRE PROTECTION NEW WORK FLOOR PLAN		
ELECTRICAL			
E-001	ELECTRICAL COVER SHEET		
ED-100	ELECTRICAL DEMOLITION FLOOR PLAN		
E-100	ELECTRICAL NEW WORK LIGHTING PLAN		
E-200	ELECTRICAL NEW WORK POWER/FIRE/COMM FLOOR PLAN		

Applicable Building Codes

- UNIFORM CONSTRUCTION CODE (N.J.A.C. 5:23 - SUBCHAPTERS 1-12)
- 2021 INTERNATIONAL BUILDING CODE - NJ EDITION
- 2021 INTERNATIONAL MECHANICAL CODE (N.J.A.C. 5:23-3.20)
- LIFE SAFETY CODE NFPA-101 2020 EDITION
- 2017 ICC/ANSI A117.1-2017 BARRIER FREE SUB CODE
- REHABILITATION SUB CODE: ALTERATIONS (N.J.A.C. 5:23-6.6)
- INSTALLATION OF SPRINKLER SYSTEMS NFPA 13-2016
- 2020 NATIONAL ELECTRICAL CODE (NFPA 70) (N.J.A.C. 5:23-3.16)
- INTERNATIONAL ENERGY CONSERVATION CODE ASHRAE 90.1-2019
- NATIONAL STANDARD PLUMBING CODE/2021, NJ ed
- INTERNATIONAL FUEL GAS CODE/2021

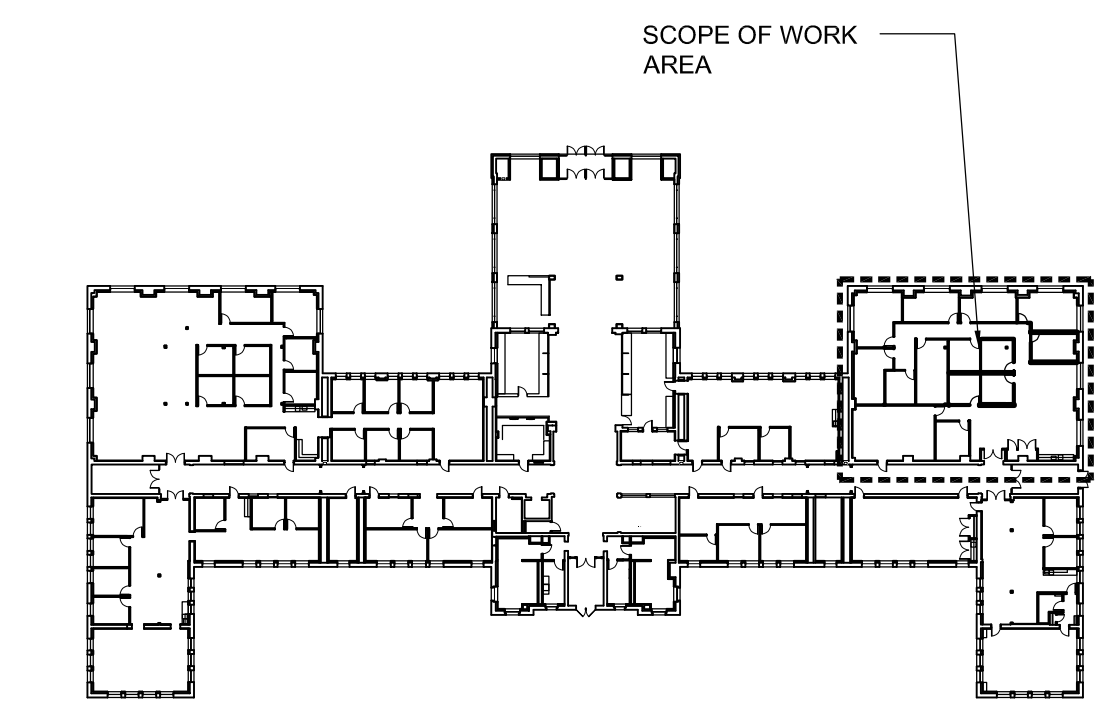
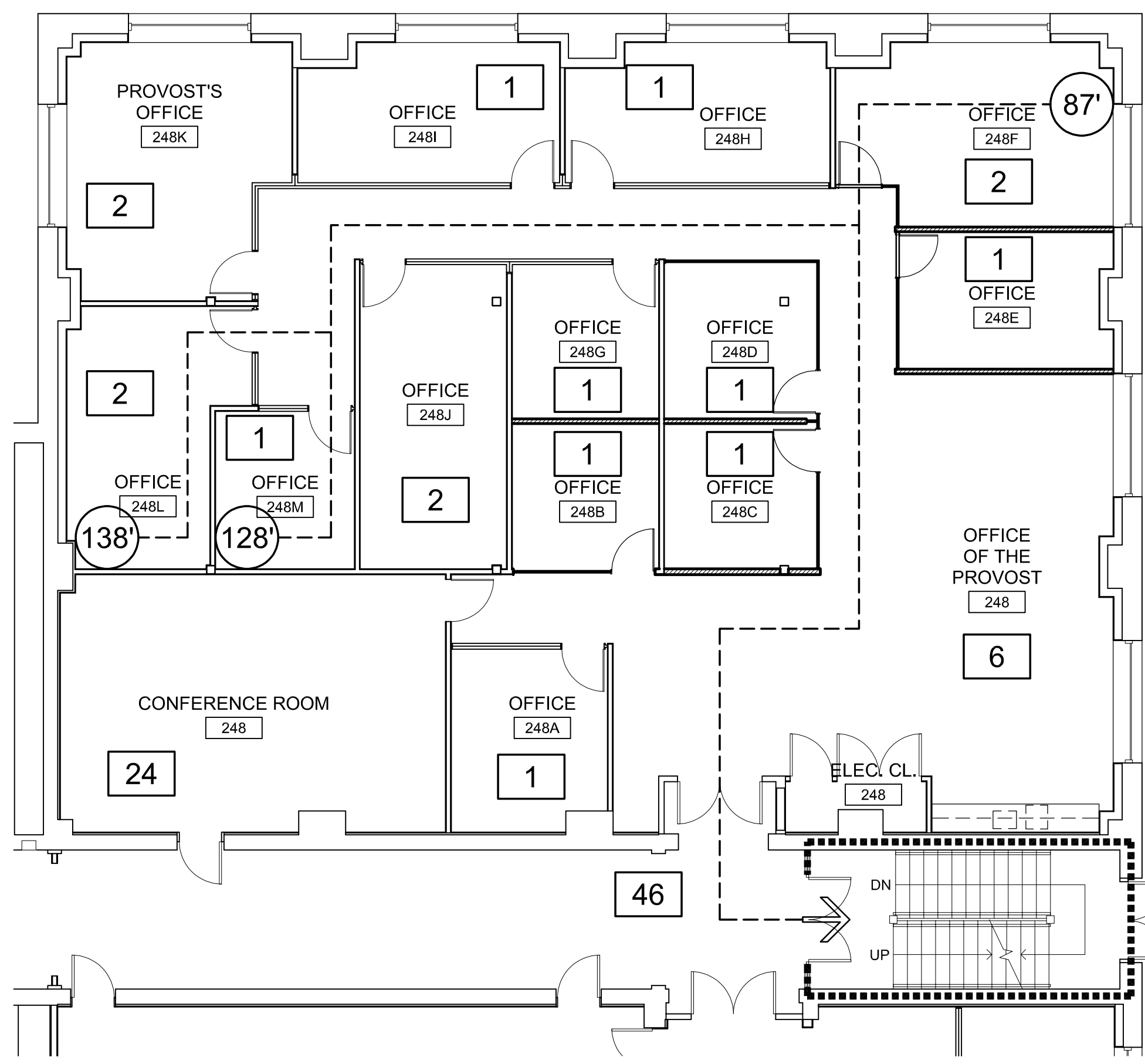
Building & Code Analysis

CHAPTERS 3, 5 AND 6 - BUILDING DATA (EXISTING BUILDING)

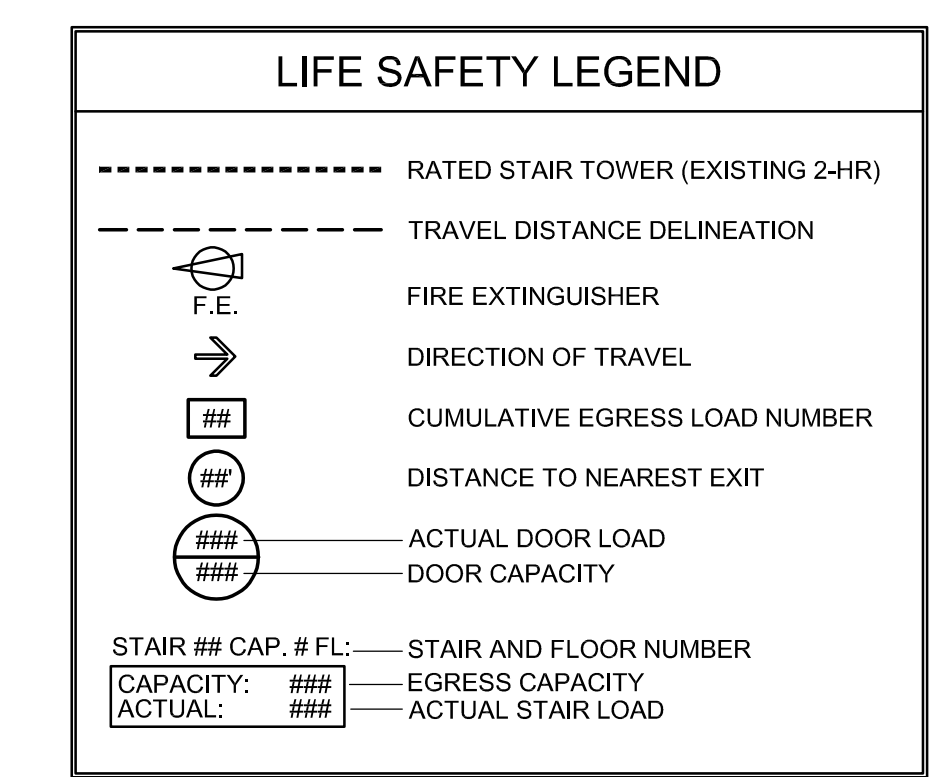
CONSTRUCTION TYPE:	III B
OCCUPANCY TYPE:	B BUSINESS (THIS RENOVATION) A-3 ASSEMBLY (OTHER AREAS)
FULLY SPRINKLERED:	YES
ACTUAL BUILDING HEIGHT IN DISTANCE:	98'-6"
ACTUAL BUILDING HEIGHT IN STORIES:	4-STORY
EXISTING TOTAL SQUARE FEET:	118,907 SF
AREA OF LARGEST FLOOR:	32,516 SF
AREA OF ALTERATIONS:	1,700 SF WITHIN 4,200 SF SUITE

TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV		TYPE V		
	A	B	A	B	A	B	A	B	HT	A	
Primary Structural Frame ¹ (see Section 202)	3 ^{a,b}	2 ^{b,c}	1 ^{b,c}	0 ^c	1 ^{b,c}	0	3 ^a	2 ^a	2 ^a	HT	1 ^{b,c}
Bearing Walls											
Exterior ¹	3	2	1	0	2	2	3	2	2	2	1
Interior	3 ^a	2 ^a	1	0	1	0	3	2	2	1/HT ¹	1
Nonbearing Walls and Partitions	See Table 705.5										
Exterior											
Nonbearing Walls and Partitions	0	0	0	0	0	0	0	0	0	See Section 208.1.2	0
Interior ¹											
Floor Construction and Associated Secondary Members (see Section 202)	2	2	1	0	1	0	2	2	2	HT	1
Roof Construction and Associated Secondary Members (see Section 202)	1 ^a	1 ^{b,c}	1 ^{b,c}	0 ^c	1 ^{b,c}	0	1 1/2	1	1	HT	1 ^{b,c}



2 Key Plan
SCALE: NTS



1 Partial Second Floor - Life Safety Plan
SCALE: 1/8" = 1'-0"

Location Map



Project Team

OWNER: MONTCLAIR STATE UNIVERSITY 1 Normal Avenue Montclair, NJ 07043 T: 973.655.4000	ARCHITECT: DIGroupArchitecture, LLC 15 Bethany Street New Brunswick, New Jersey 08901 T: 732.249.6242 F: 732.247.1825	ENGINEER: Schiller & Hersh Assoc., Inc 636 Skippack Pike, Suite 200 Blue Bell, PA 19422 T: 215.886.8947 F: 215.886.8956
--	---	---

Abbreviations

A.F.F. ALUM. @ ACOUS. ALT. BM. B.E.J. BET. BLK. BD. BOT. BLDG. B.O. C.B. CEM. CEM. PLAS. C.L. CONC. C.M.U. CONT. CONTR. C.J. COORD. CTSK. DET. DIAM. D.F. DR. DN. EA. EL. E.O.S. EXIST. EXP. JT. EXP. EXT. EXTR. FT. FIN. FIN. FLR. F.G. F.E. F.P. F.O. FL. F.D. F.O.W. FNDTN. GALV. GA. G.C. H.R. HDWR. H.S.S. HT. H.P. H.M. HOR. I.D. INSUL.	ABOVE FINISH FLOOR ALUMINUM AT ACOUSTIC ALTERNATE BEAM BUILDING EXPANSION JOINT BETWEEN BLOCK OR BLOCKING BOARD BOTTOM BUILDING BOTTOM OF COLLECTOR BOX CEMENT CEMENT PLASTER CONTINUOUS CONCRETE MASONRY UNIT CONTRACTOR CONTROL JOINT COORDINATE COUNTERSUNK DETAIL DIAMETER DRINKING FOUNTAIN DOOR DOWN EACH ELEVATION EXISTING EXPANSION JOINT EXPOSED EXTERIOR EXTRUDED FEET FINISH FINISH FLOOR FINISH GRADE FIRE EXTINGUISHER FIREPROOFING FACE OF FLOOR FLOOR DRAIN FACE OF WALL FOUNDATION GALVANIZED GAUGE GENERAL CONTRACTOR HAND RAIL HARDWARE STEEL TUBE BEAM OR COLUMN HEIGHT HIGH POINT HOLLOW METAL HORIZONTAL INSIDE DIAMETER INTERMEDIATE DISTRIBUTION FRAME INSULATION	L.D.R. L.P. M.H. M.O. MAX. M.E.P. M.E.R. MTL. M.F.D. M.F.T.R. M.R.D. MISC. N. N.J.P.E. N.I.C. N.T.S. NO. O.C. OPNG. O.D. O.A. PART. PLAS. PL. PNT. P.T. PTD. REV. R. R.D. RM. R.O. S.E.C.T. S.P. SPFCS. SQ. SQ. FT. S.S. ST. STL. STL. STRUCT. SUSP. T.O. T.O.C. T.O.S. T.O.STL. T. T.O.P. T.O.W. TYP. U.L. U.O.N. VERT. V.I.F. W.C. W.F. W.P. W.PFG. W.M. W/ WD.	LEADER LOW POINT MANHOLE MASONRY OPENING MAXIMUM MECHANICAL, ELECTRICAL & PLUMBING MECHANICAL EQUIPMENT ROOM METAL METAL FLOOR DECK MANUFACTURER METAL ROOF DECK MISCELLANEOUS NORTH NEW JERSEY PROFESSIONAL ENGR. NOT IN CONTRACT NOT TO SCALE NUMBER ON CENTER OPENING OUTSIDE DIAMETER OVERALL PARTITION PLASTER PLATE PAINT PRESSURE TREATED PAINTED REVISION RISERS ROOM DRAIN ROOM ROUGH OPENING SECTION STEEL PIPE COLUMN SPECIFICATIONS SQUARE SQUARE FEET STAINLESS STEEL STAINLESS STEEL STEEL STRUCTURAL SUSPENDED TOP OF TOP OF CURB TOP OF SLAB TOP OF STEEL TREADS TOP OF PARAPET TOP OF WALL TYPICAL UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED VERTICAL VERIFY IN FIELD WATER CLOSET WIDE FLANGE BEAM OR COLUMN WORK POINT WATERPROOFING WELDED WIRE MESH WITH WOOD
---	---	---	---

Symbols

MATERIAL DESIGNATION			
	GRAVEL OR POROUS FILL		GROUT
	CONCRETE		RIGID INSULATION
	EARTH		PROTECTION BOARD/ GYPSUM BOARD
	CONCRETE MASONRY UNITS		PLYWOOD
	BRICK/ CMU VENEER		STEEL
	NEW PARTITION COORD. WITH PARTITION TYPE		
DETAILS & ELEVATIONS		WINDOWS & DOORS	
	WALL SECTION		WINDOW/ ALUMINUM FRAME
	BUILDING CROSS SECTION		DOOR TAG (WITH NO AREA)
	EXTERIOR ELEVATION		DOOR TAG (WITH AREA)
	DETAIL		
		DATUM REFERENCE	
		FLOOR LINE LEVEL OR DATUM EL. 0'-0" (0'-0")	
MISCELLANEOUS			
	INTERIOR ELEVATION		TOILET ACCESSORY BUILT-IN EQUIPMENT
	GENERAL NOTE		D#
MATERIAL KEY NOTES		DOCUMENT REVIEW	
MATERIAL KEY NOTES ARE USED IN LIEU OF STANDARD NOTES IN ORDER TO IMPROVE READABILITY OF DOCUMENTS. MATERIAL KEY NOTES ARE IN CSI FORMAT AND REFER TO SPECIFICATION SECTIONS IN WHICH SPECIFIC MATERIALS APPEAR.		EACH CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL ARCHITECTURAL, CIVIL, STRUCTURAL, HVAC, FIRE PROTECTION, PLUMBING, ELECTRICAL & TECHNOLOGY DRAWINGS. ALL DOCUMENTS CONTAIN INFORMATION WHICH IS COMPLIMENTARY TO EACH TRADE AND MUST BE REVIEWED & UNDERSTOOD PRIOR TO BIDDING THIS PROJECT.	
REFERENCE NOTES		WORK	
NOTES PERTAINING TO SPECIFIC MATERIALS, DIMENSIONS, AND/ OR DESCRIPTIONS OF WORK AS THEY RELATE TO THE DRAWINGS ON WHICH THEY APPEAR. ALL REFERENCE NOTES ARE COMPLIMENTARY TO EACH DRAWING AND ARE TO BE CAREFULLY REVIEWED PRIOR TO CONSTRUCTION.		WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NATIONAL, LOCAL & ALL OTHER APPLICABLE CODES & REQUIREMENTS AS DETERMINED BY AUTHORITIES HAVING JURISDICTION.	

10.20.23 FOR PERMIT & CONSTRUCTION
No. Date Description
Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venozza, AIA
NJ RA # 00827190

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

DATE
08/01/23

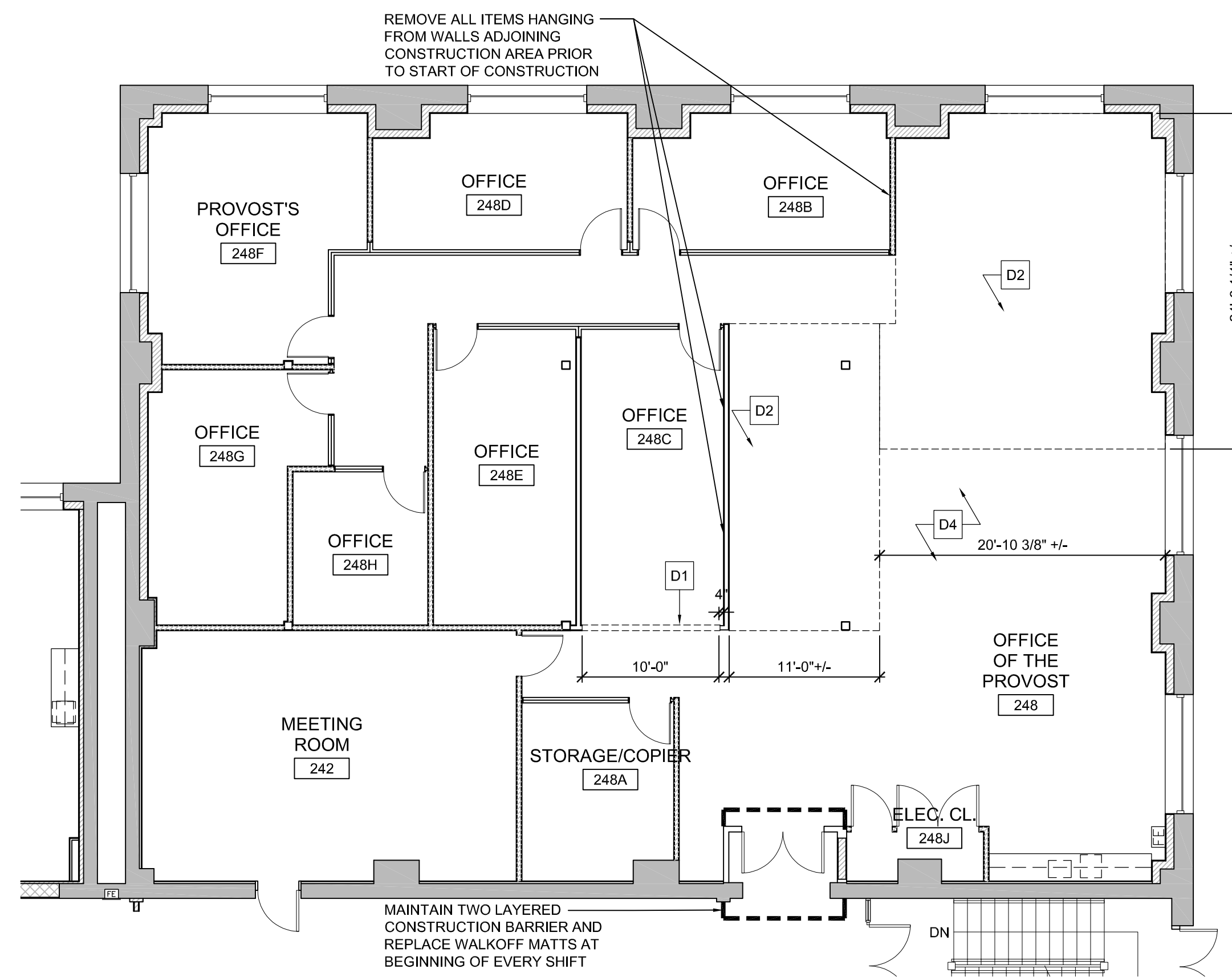
Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043

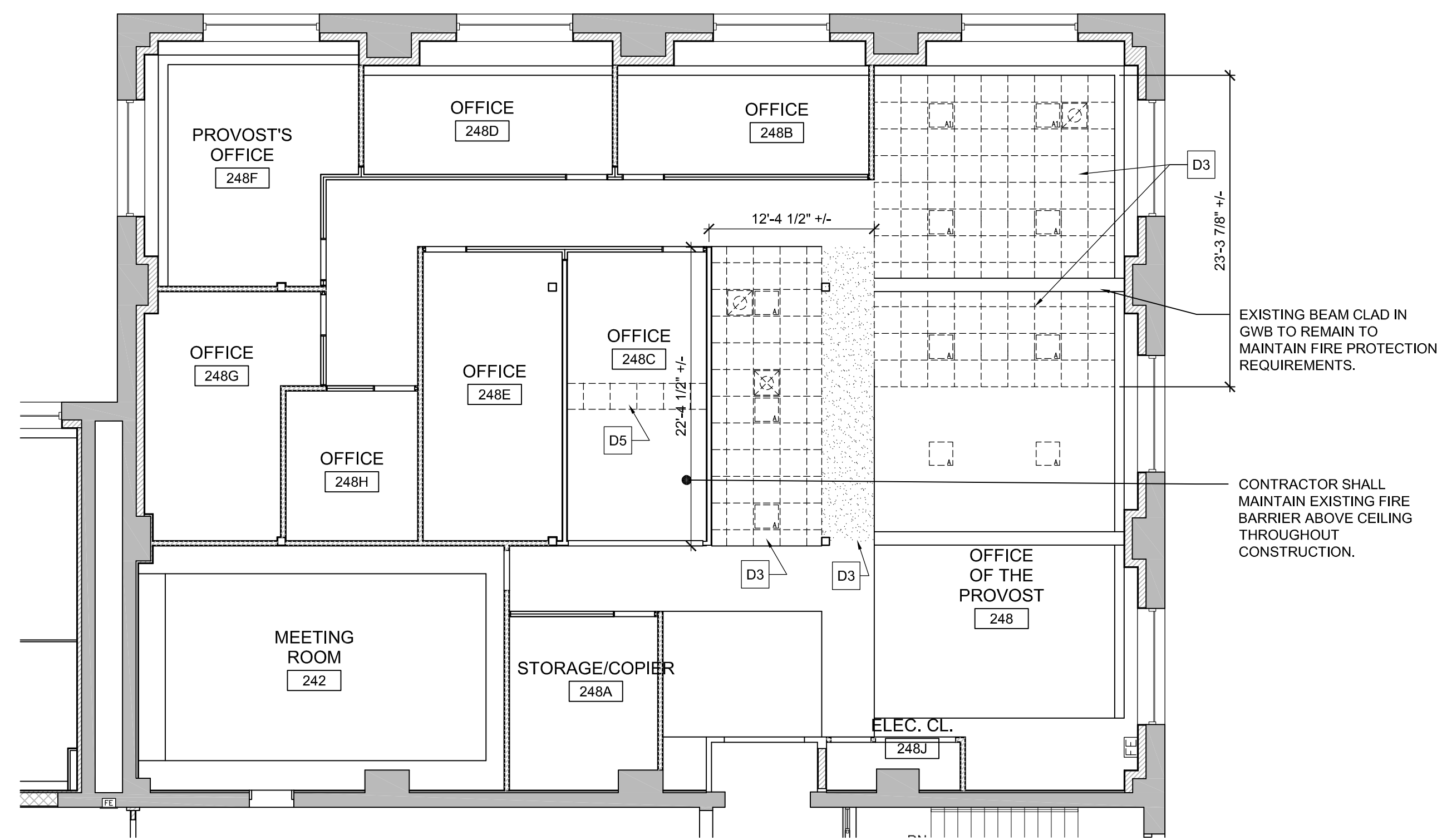
Drawing Information:
Project No: 23.057
MSU Project No: PR 23C064
Date: 07/11/2023
Drawn By: SST
Checked By: JMB

Sheet Name:
Title Sheet

Sheet No:
A-001
Sheet 1 of 04



1 Partial 1st Floor - Demolition Plan - Provost Office
SCALE: 1/8" = 1'-0"



2 Demolition Reflected Ceiling Plan
SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

- A. THE FOLLOWING ARE MEANT TO GENERALLY DESCRIBE THE SCOPE OF THE SELECTIVE DEMOLITION ITEMS FOR THIS PROJECT. PRIOR TO BIDDING THIS PROJECT, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY QUANTITIES, MATERIALS, REQUIRED WORKING HEIGHTS (FOR REMOVALS SUCH AS CEILINGS), EXISTING FASTENING METHODS (FOR ACTUAL REMOVAL EFFORT REQUIRED), AND OTHER EXISTING CONSTRUCTION DETAILS RELEVANT TO THE EFFORT REQUIRED FOR THE DEMOLITION DESCRIBED HEREIN. THE CONTRACTOR IS RESPONSIBLE TO CAREFULLY REMOVE AND / OR RELOCATE ALL MATERIAL AND EQUIPMENT REQUIRED TO FACILITATE THE ALTERATIONS AND IMPROVEMENTS DESCRIBED IN THESE DOCUMENTS, WHETHER THE DEMOLITION ITEM OF WORK IS DESCRIBED IN THESE DOCUMENTS, OR NOT.
- B. DEMOLITION WORK, AS SPECIFIED HEREIN, IS TO BE PERFORMED COMPLETELY BY THE CONTRACTOR. "COMPLETELY" SHALL MEAN THE SPECIFIC OBJECT NAMED AND ANY ACCESSORY OR AUXILIARY ITEMS WHICH WOULD REASONABLY BE CONSIDERED AS PART OF THE ITEM NAMED SUCH AS FOUNDATIONS, FOOTINGS, RAILINGS, ELBOWS, BOLTS, NUTS, ETC. "COMPLETELY" SHALL ALSO MEAN ABOVE GRADE AND BELOW GRADE FOR ALL DEMOLITION REMOVAL AND DISPOSAL.
- C. THE DEMOLITION CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGES RESULTING FROM THE CONTRACTORS FAILURE TO DO SO SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY TEST PIT OR OTHER MEANS PRIOR TO DEMOLITION IN THE VICINITY OF THE UTILITIES
- D. THE EXTENT OF ITEMS TO BE REMOVED ON THE DEMOLITION PLAN ARE SHOWN BY BROKEN LINES. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO THE START OF DEMOLITION WORK.
- E. PRIOR TO THE START OF WORK, IN EACH ROOM, THE CONTRACTOR SHALL VERIFY THAT ALL LOOSE FURNITURE, SHELVING, PICTURES, PROJECTION SCREENS, ARTWORK, VENDING MACHINES, TABLES, PLAQUES, DIRECTORIES, ROOM SIGNAGE, OFFICE EQUIPMENT, COMPUTERS, ETC. HAVE BEEN REMOVED FROM EACH ROOM. IF THIS HAS NOT BEEN DONE, NOTIFY THE OWNER IMMEDIATELY. DO NOT PROCEED WITH WORK UNTIL ROOM IS CLEAR AND EMPTY OF ANY/ALL ITEMS DESCRIBED HEREIN.
- F. DIMENSIONS GIVEN AND INFORMATION SHOWN REFLECT EXISTING CONDITIONS TAKEN FROM FORMER ARCHITECTURAL, STRUCTURAL AND MECHANICAL DOCUMENTS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED PRIOR TO REMOVAL AND DEMOLITION WORK, FABRICATION AND INSTALLATION OF NEW PARTITIONS AND MECHANICAL/ELECTRICAL COMPONENTS.
- G. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR THE OFFSITE DISPOSAL OF ANY AND ALL EXCESS MATERIAL AND OTHER UNSUITABLE MATERIAL UNABLE TO BE USED ON SITE.
- H. EXISTING FINISHES THAT HAVE BEEN PREVIOUSLY DAMAGED, OR ARE DAMAGED DURING CONSTRUCTION AND CONSTRUCTION WORK SHALL BE REPAIRED TO MATCH ADJACENT EXISTING CONSTRUCTION. ALL EXISTING FINISHES ARE TO BE ALTERED, REMOVED, AND REPAIRED AS REQUIRED TO PROVIDE NEW FINISHES AS SCHEDULED.
- I. ALL EXISTING WALLS, CEILINGS, TRIM, ETC. TO RECEIVE NEW PAINT FINISH SHALL BE REPAIRED, SCRAPPED, SANDED, AND CLEANED AS REQUIRED PRIOR TO APPLICATION OF NEW PAINT.
- J. WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NATIONAL, STATE, LOCAL, AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS AS DETERMINED BY AUTHORITIES HAVING JURISDICTION.
- K. GENERAL CONTRACTOR SHALL COORDINATE REMOVAL OF ANY EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL OUTLETS, DEVICES OR SWITCHING LOCATED ON WALLS SCHEDULED TO REMAIN AND SHALL BE REMOVE ALL CIRCUITING / WIRING BACK TO THE ELECTRIC PANEL(S) PROVIDING POWER. GENERAL CONTRACTOR TO COORDINATE THE REMOVAL OF ALL PLUMBING, MECHANICAL, AND ELECTRICAL ITEMS WITH RESPECTIVE CONTRACTORS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PATCHING AND REPAIR OF EXISTING WALL WHERE DEVICES ARE REMOVED AND SHALL PREPARE SURFACES AS REQUIRED TO RECEIVE NEW SCHEDULED FINISHES.
- L. THIS BUILDING IS OCCUPIED AND SHALL CONTINUE TO OPERATE THROUGHOUT CONSTRUCTION. ANY WORK REQUIRED THAT MAY REQUIRED 'OFF-HOURS' LABOR SHALL BE ACCOUNTED FOR IN THE PROJECT SCOPE.
- M. CONTRACTOR WILL INSTALL TEMPORARY PROTECTION AROUND PROJECT AREA TO SPREAD OF DUST AND OTHER CONSTRUCTION DEBRIS BEYOND WORK ZONE. PROVIDE WALK-OFF MATS AT ENTRY / EXIT POINTS INTO WORK SPACE. GENERAL CONTRACTOR SHALL PROTECT ALL SURROUNDING FLOORING AND ENTRY INTO SUITE WITH HARDBOARD AND/OR PLASTIC SHEETING.
- N. PROVIDE AND INSTALL ANY AND ALL REQUIRED TEMPORARY SUPPORT, SHORING, BRACING AND/OR NEEDLING TO STABILIZE AND SUPPORT EXISTING BUILDING FRAMING FOR ROOF, FLOORS AND ALL WALLS CONCERNING THE WORK DESCRIBED IN THESE DOCUMENTS.
- O. PROTECT ALL SMOKE DETECTORS, AIR INLETS, ETC., DURING CONSTRUCTION
- P. FIVE (5) DAY NOTICE REQUIRED FOR ALL UTILITY SHUTDOWNS. COORDINATE WITH MSU MAINTENANCE.
- Q. CONTRACTOR WILL BE PERMITTED TWO PARKING SPACES IN LOT 10 TO THE EAST OF COLE HALL FOR UNLOADING AND A DUMPSTER. ALL OTHER VEHICLE PARKING WILL BE IN A COMMUTER LOT ON CAMPUS.

DEMOLITION LEGEND

- D1 REMOVE PORTION OF EXISTING GYPSUM PARTITION IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO VISION PANELS, TRIM, WALL BASE, ETC. PATCH EXISTING ADJACENT AREAS AS REQUIRED THAT HAVE BEEN DISTURBED BY DEMOLITION AND PREPARE SURFACES AS REQUIRED TO RECEIVE NEW SCHEDULED FINISH (REFER TO FINISH SCHEDULE) OR MATCH ADJACENT SURFACES AS REQUIRED IF NOT INCLUDED IN FINISH SCHEDULE. WHERE WALL IS REMOVED FOR INSTALLATION OF NEW GLASS PARTITION SYSTEM, COORDINATE HEIGHT WITH EXISTING SOFFIT CONDITIONS IN SUITE. REVIEW PARTITION SYSTEM ELEVATIONS PRIOR TO REMOVAL. ANY EXISTING ELECTRICAL OUTLETS, DEVICES OR SWITCHING LOCATED IN PORTION OF WALLS SCHEDULED TO BE DEMOLISHED SHALL BE REMOVED AND RELOCATED TO ADJACENT WALL. GENERAL CONTRACTOR TO COORDINATE THE REMOVAL OF ALL PLUMBING, MECHANICAL, AND ELECTRICAL ITEMS WITH RESPECTIVE CONTRACTORS.
- D2 REMOVE EXISTING FLOORING FINISH (CARPETING AND VINYL BASE), BASE AND RELATED TRIM PIECES, PATCH, CLEAN AND PREPARE EXISTING SUB-FLOOR AS REQUIRED TO RECEIVE NEW SCHEDULED FINISH.
- D3 REMOVE ENTIRE EXISTING CEILING SYSTEM (SUSPENDED OR GYPSUM), INCLUDING BUT NOT LIMITED TO GRID SYSTEM, FRAMING, HVAC, ELECTRICAL OR FIRE PROTECTION DEVICES, LURING, WIRE SUPPORTS, HANGERS, WOOD TRIM, COVE MOLDING, EDGE TRIM, SIGNAGE, ETC. TAKE SPECIAL CARE TO MAINTAIN EXISTING ABOVE CEILING FIRE PROTECTION BARRIERS. THOROUGHLY REPAIR WALLS AT EDGE TRIM REMOVE AND PREPARE ALL DISTURBED SURFACES TO RECEIVE NEW SCHEDULED FINISHES. LIGHTING FIXTURES, FIRE PROTECTIONS DEVICES, AND MECHANICAL REGISTERS SHALL BE SALVAGED FOR REUSE AND REINSTALLATION. GC TO STORE ON-SITE AND PROTECT FOR REUSE. REFER TO MEP/FP DOCUMENTS FOR EXTENT OF WORK.
- D4 FURNITURE AND EQUIPMENT TO BE REMOVED BY OWNER.
- D5 REMOVE PORTION OF EXISTING CEILING SYSTEM TO THE EXTENT NECESSARY TO ACCOMMODATE INSTALLATION OF NEW PARTITION, CUT BACK GRID TO THE NEXT FULL GRID INTERSECTION, AND REINSTALL TO SUIT NEW OFFICE LAYOUT.

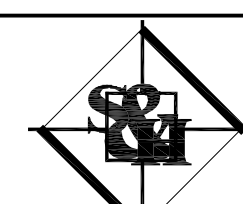
10.20.23 FOR PERMIT & CONSTRUCTION
No. Date Description
Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA #10827199

M/E/P Engineer:



SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

DATE
08/01/23

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL
ENGINEER
LICENSE NO.: GE45368

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

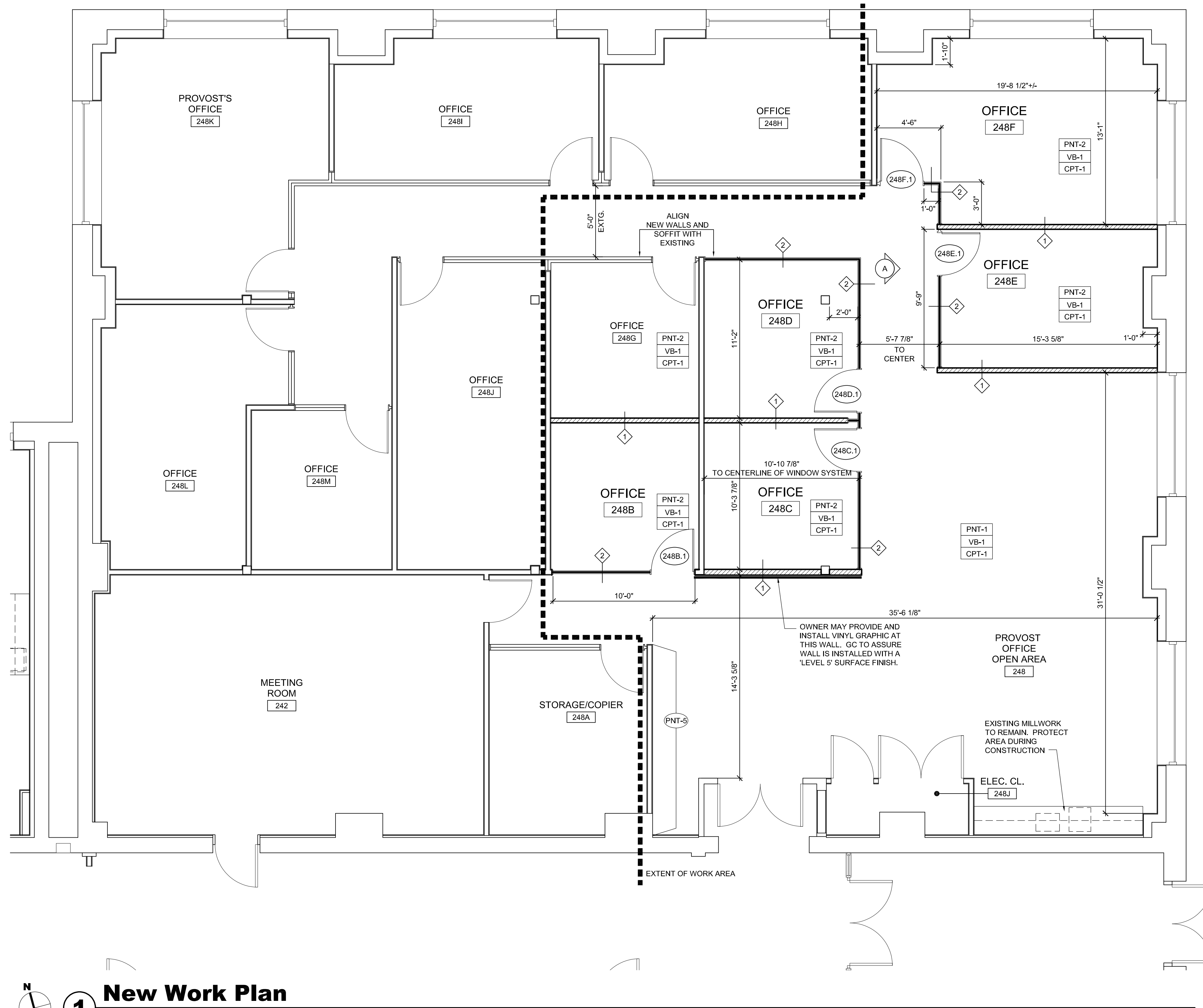
Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043

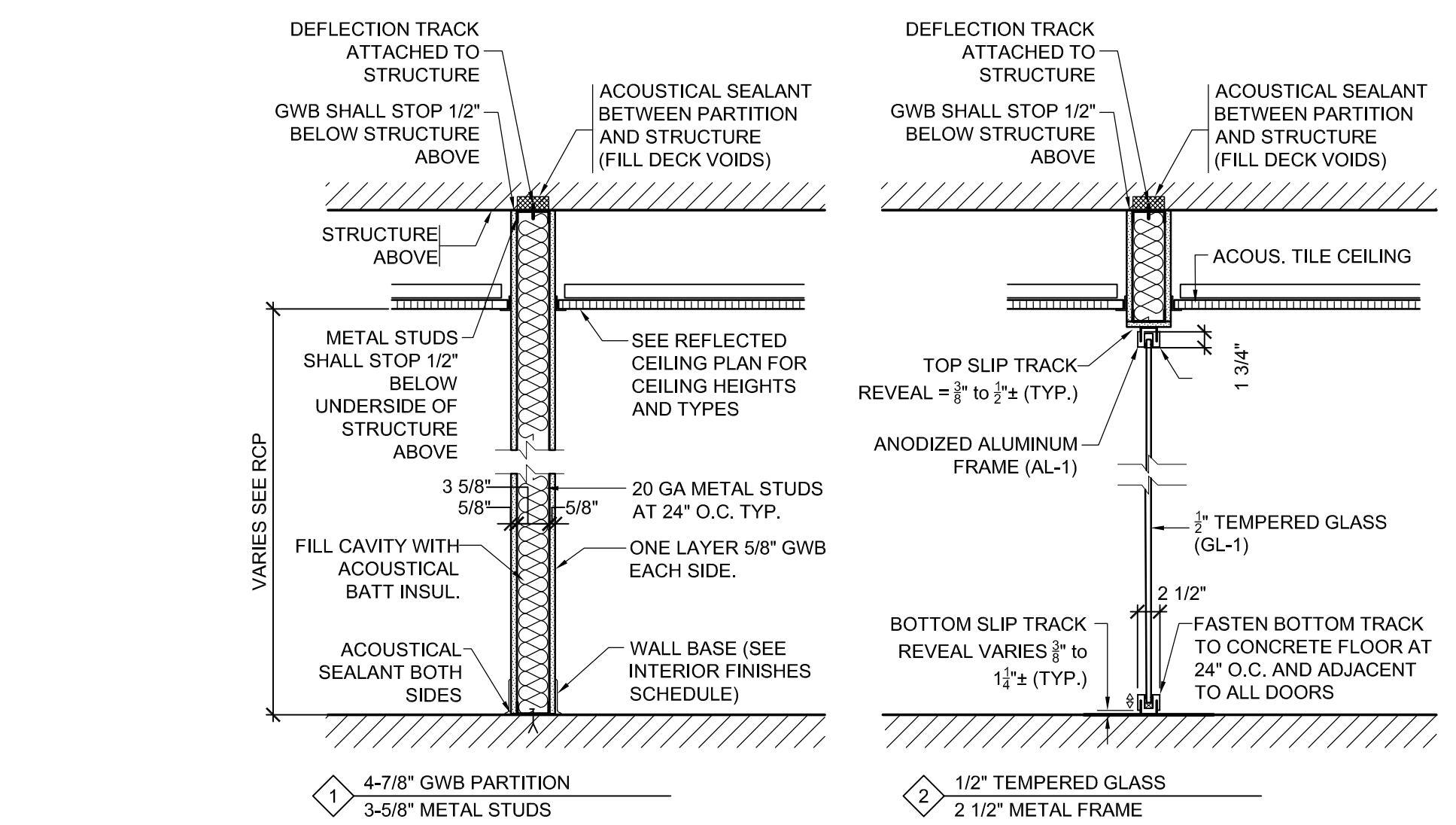
Drawing Information:
Project No: 23.057
MSU Project No: PR 23C064
Date: 07/11/2023
Drawn By: SST
Checked By: CHK

Sheet Name:
Demolition Plans

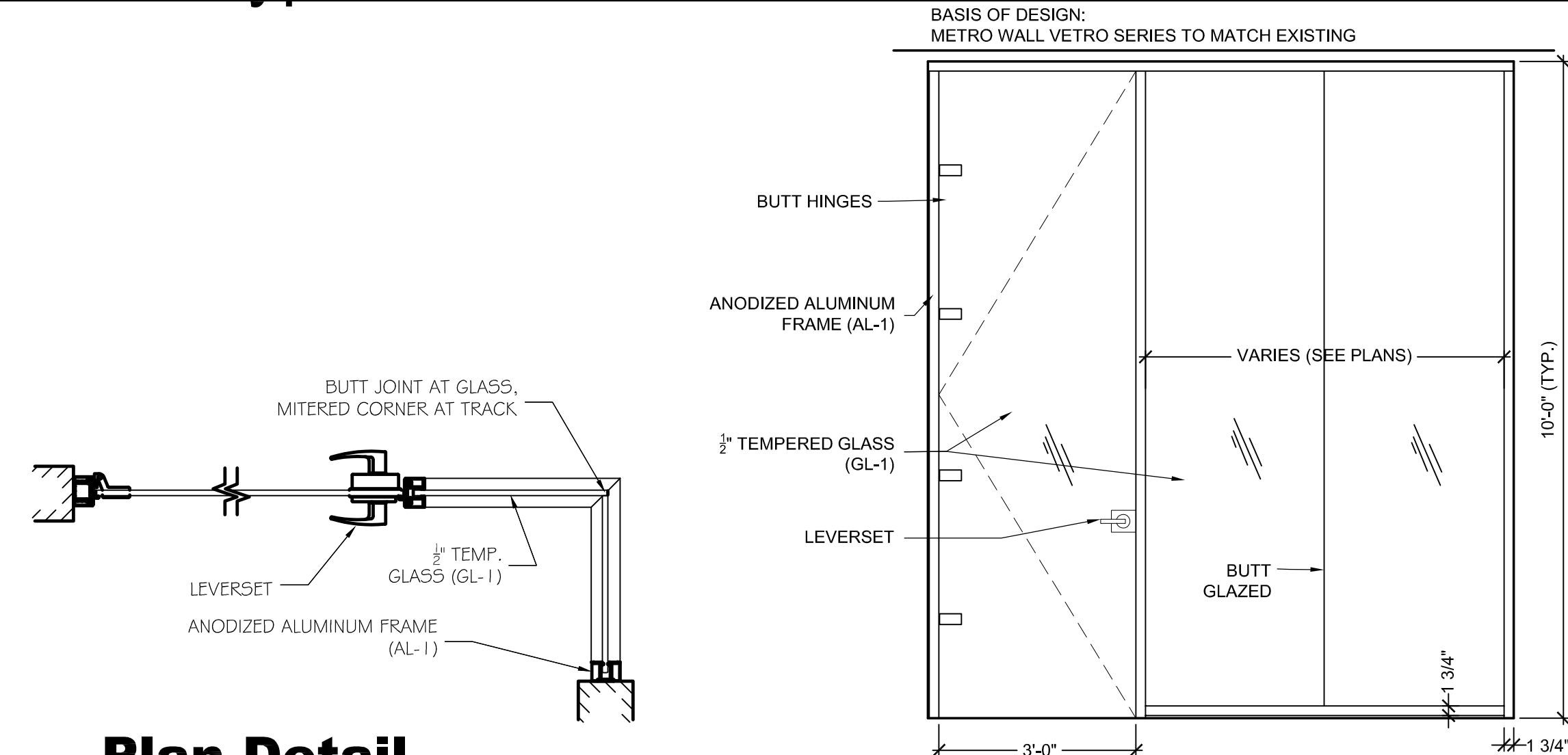
Sheet No:
D-100
Sheet 2 of 04



1 New Work Plan
SCALE: 1/4" = 1'-0"

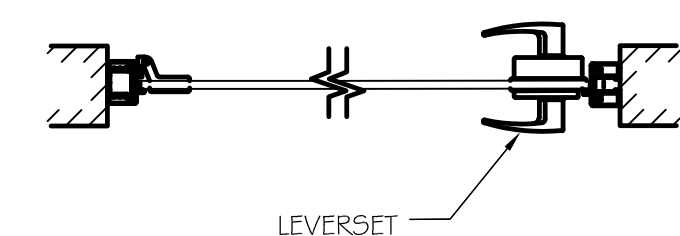


Partition Types



2 Plan Detail Corner Glass
SCALE: 1" = 1'-0"

A Glazed Partitions Elevations
SCALE: 1/2" = 1'-0"
WHERE NEW DOORS ARE INDICATED IN PLAN, PROVIDE AS INDICATED ABOVE. ALL DOOR PANELS SHALL BE 3'-0" GLAZED PARTITIONS VARY BY LOCATION. HARDWARE TO MATCH EXISTING ADJACENT WITHIN THE SUITE FOR OFFICE USE.



3 Plan Detail Door Jamb
SCALE: 1" = 1'-0"

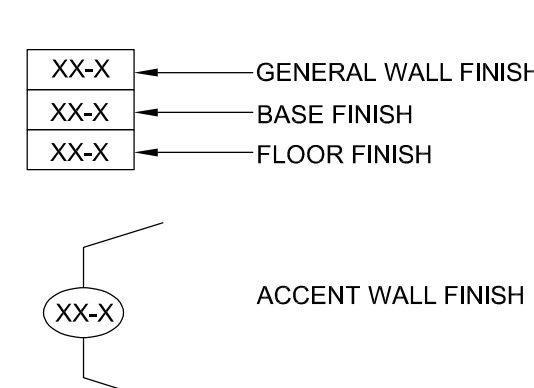
General Finish Schedule Notes

- FINISH PLANS ONLY INDICATE WHERE ACCENT FLOOR AND WALL MATERIALS ARE LOCATED. REFER TO ROOM FINISH SCHEDULE FOR OVERALL FINISHES IN EACH ROOM.
- ALL WALLS IN SCOPE OF WORK TO BE PAINTED (PNT-1) U.O.N.
- ALL CEILINGS AND SOFFITS IN SCOPE OF WORK TO BE PAINTED (PNT-1) U.O.N.
- ALL APPLIED MATERIALS SHALL MEET FIRE/FLAME CLASSIFICATION PER IBC 903.1.1 AS DETERMINED BY OCCUPANCY USE GROUP. ALL APPLIED MATERIALS SHALL BE CLASSIFIED CLASS "A" (FLAME SPREAD = 0-25; SMOKE DEVELOPED = 0-450)
- DECORATIVE MATERIALS AND TRIM SHALL BE RESTRICTED BY PERFORMANCE CRITERIA OF NFPA 101
- ALL CARPET MATERIAL SHALL MEET DOC FF-1 "PILL TEST"
- ALL FLOOR TILE MATERIAL SHALL BE PROVIDED WITH A MIN DYNAMIC COEFFICIENT OF FRICTION (DCOF) VALUE OF 0.60.
- ALL INTERIOR WINDOWS IN SCOPE OF WORK TO RECEIVE NEW FILM, PROVIDED BY OWNER.
- EXISTING EXTERIOR WINDOWS HAVE ROLLER SHADES. REMOVE AND PROTECT DURING CONSTRUCTION
- OWNER TO PROVIDE AND INSTALL (VIA 3RD PARTY VENDOR) PRIVACY FILM AT GLASS PARTITIONS. GC TO COORDINATE TIMING FOR INSTALLATION PRIOR TO END-USER OCCUPANCY.

Finish Material Legend

MATERIAL TYPE	ABBREVIATION
FLOORING:	
CARPET	CPT
BASE:	
VINYL BASE	VB
TILE BASE	TB
WALL:	
PAINT	PNT
WALL PROTECTION	WP
CEILING:	
ACOUSTICAL CEILING TILE	ACT

Finish Plan Legend



Room Finish Schedule

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	CEILING	SIGN TYPE	REMARKS
248	PROVOST OFFICE OPEN AREA			PNT-1/PNT-5	ACT-1/GYP		
248B	OFFICE	CPT-1	VB-1	PNT-2	ACT-1	BY OWNER	
248C	OFFICE	CPT-1	VB-1	PNT-2	ACT-1	BY OWNER	
248D	OFFICE	CPT-1	VB-1	PNT-2	ACT-1	BY OWNER	
248E	OFFICE	CPT-1	VB-1	PNT-2	ACT-1	BY OWNER	
248F	OFFICE	CPT-1	VB-1	PNT-2	ACT-1	BY OWNER	
248G	OFFICE	CPT-1	VB-1	PNT-2	ACT-1	BY OWNER	

Finish Specifications

CARPET TILE (CPT-1) MANUFACTURER: SHAW STYLE: HONED TILE COLOR: FORGE SIZE: 24" X 24" INSTALL: QUARTER TURN	PAINT (PNT-1) - GENERAL AREAS MANUFACTURER: BENJAMIN MOORE COLOR/STYLE: ICE MIST 2123-70, EGGSHELL
VINYL BASE (VB-1) MANUFACTURER: JOHNSONITE COLOR/STYLE: GREY (TO MATCH EXISTING)	PAINT (PNT-2) - PRIVATE OFFICES MANUFACTURER: BENJAMIN MOORE COLOR/STYLE: STONY BROOK 1566, EGGSHELL
GLASS FILM (GF-1) OWNER TO PROVIDE AND INSTALL GC TO COORDINATE SCHEDULE.	PAINT (PNT-5) - ACCENT WALL MANUFACTURER: BENJAMIN MOORE COLOR/STYLE: PALACE ARMS RED CW-255, EGGSHELL

10.20.23 FOR PERMIT & CONSTRUCTION
No. Date Description
Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venozzo, AIA
NJ RA # 00827190

Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043

Drawing Information:
Project No: 23.057
MSU Project No: PR 23C064
Date: 07/11/2023
Drawn By: ST
Checked By: jmb

Sheet Name:
Floor Plan

Sheet No:

A-100
Sheet 3 of 004

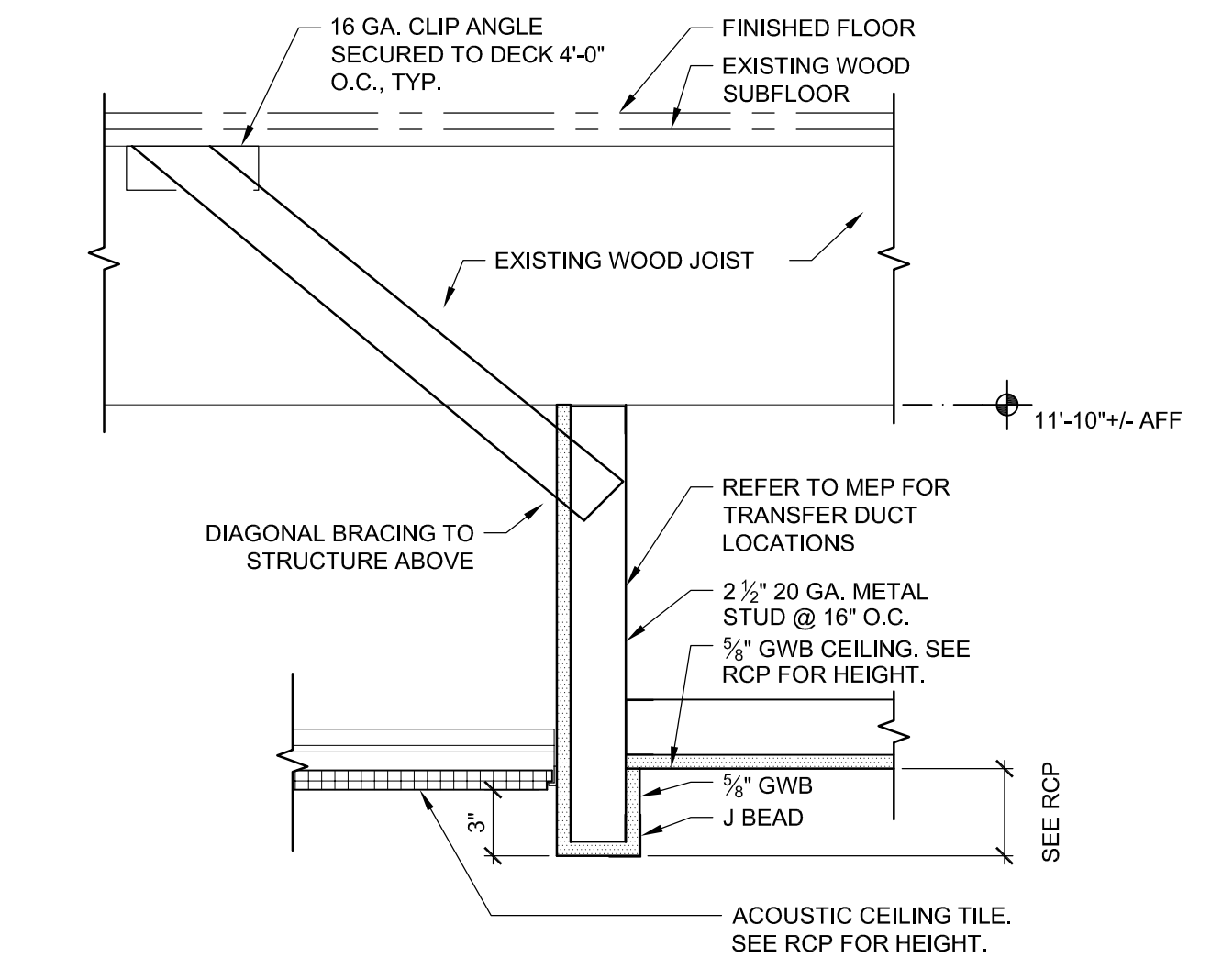
11'-10" to underside of GYP DECK

- GENERAL NOTES -

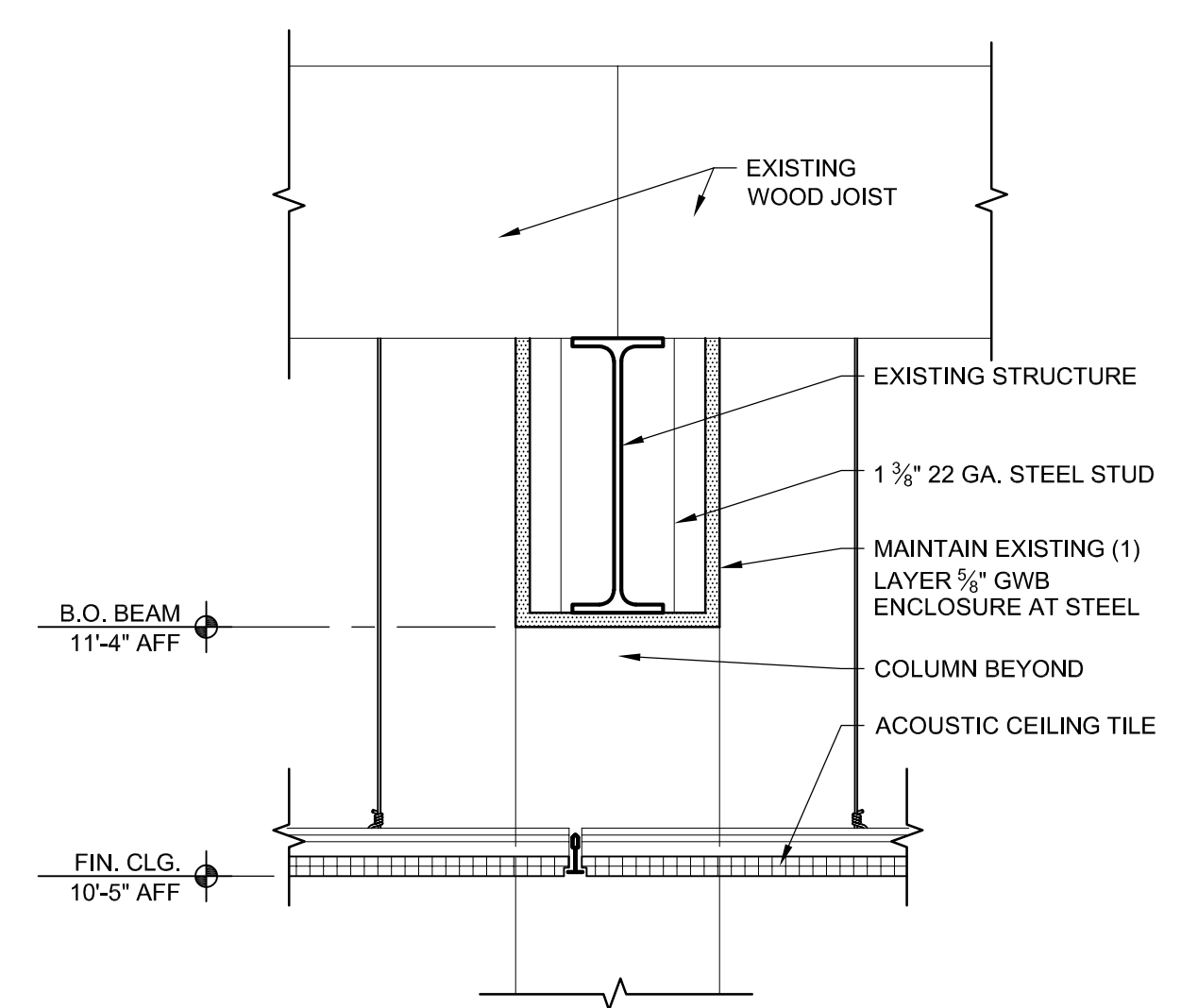
- WHERE EXISTING CEILINGS ARE INDICATED TO REMAIN, PATCH CEILING AS REQUIRED FOR INSTALLATION OF NEW LIGHT FIXTURES AND CEILING DEVICES.
- CONTRACTOR SHALL COORDINATE CEILING HEIGHTS WITH ALL STRUCTURE, MEP SYSTEMS, AND DEVICES ABOVE CEILING. CONTRACTOR SHALL REVIEW COORDINATED CEILING HEIGHTS WITH ARCHITECT IN FIELD PRIOR TO INSTALLATION OF CEILINGS.
- REFER TO MEP DOCUMENTS FOR FIXTURES DESIGNATED AS 'NEW' OR 'RELOCATED'.

- LEGEND -

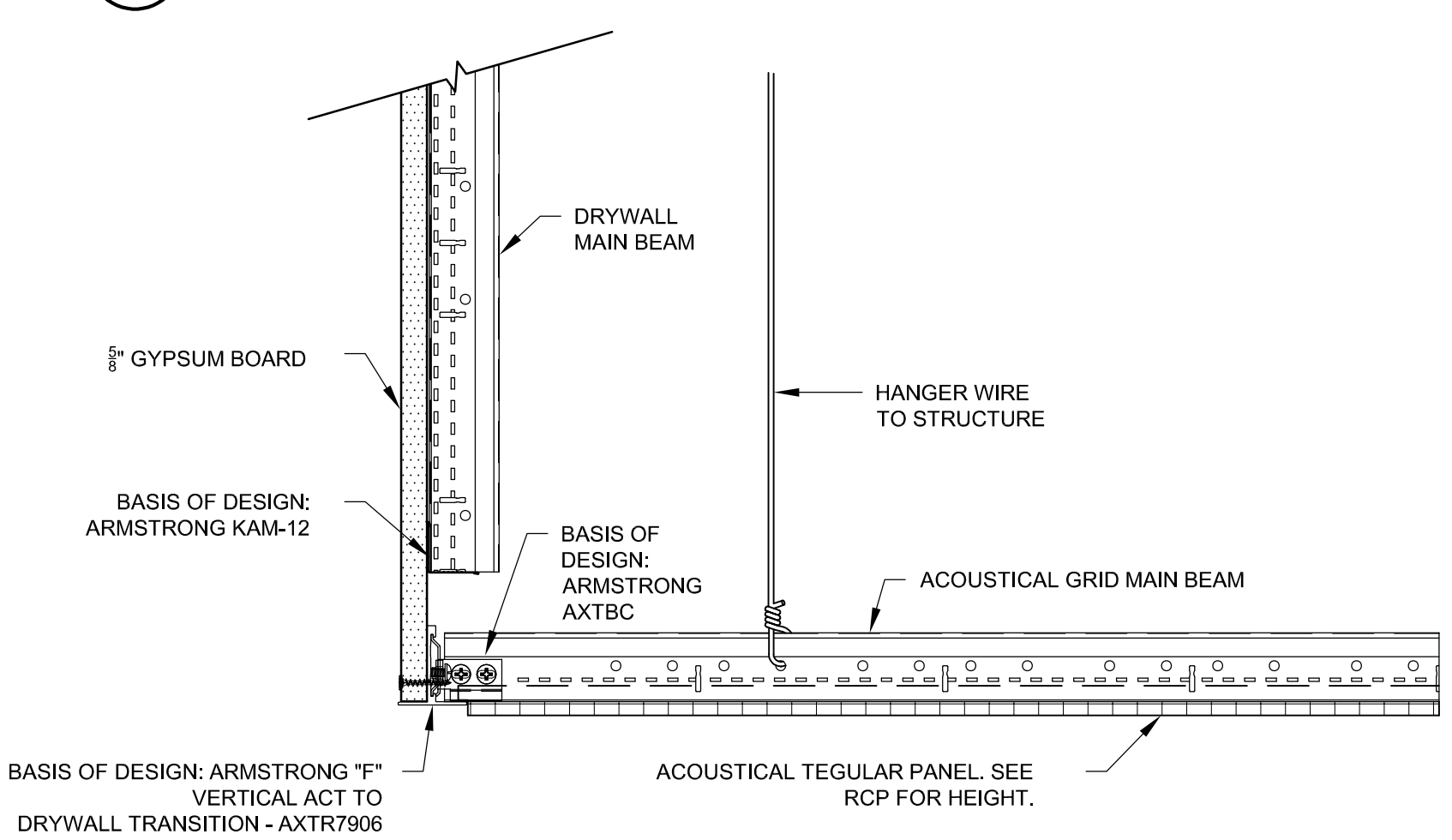
- 2X2 LED FIXTURE
- RECESSED FIXTURE
- TRACK AND TRACK MOUNTED FIXTURE
- 2X2 RETURN GRILLE
- 1X1 RETURN GRILLE
- 1X1 SUPPLY GRILLE
- 2X2 SUPPLY GRILLE
- GYPSUM WALL BOARD
- 2'X2' ACOUSTICAL PANEL CEILING
- ACOUSTICAL PLASTER CEILING



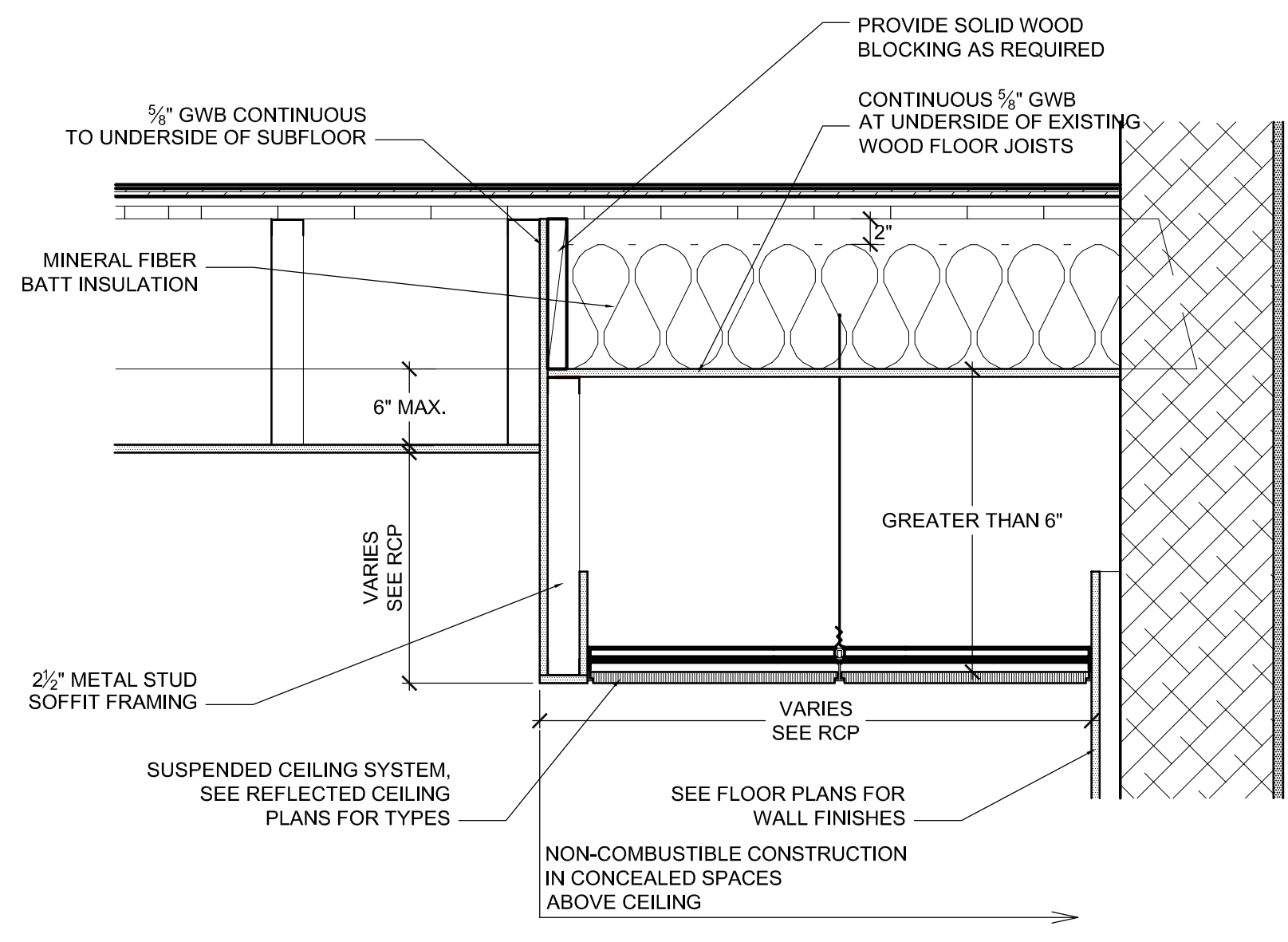
2 Ceiling Section Detail
SCALE: 1 1/2" = 1'-0"



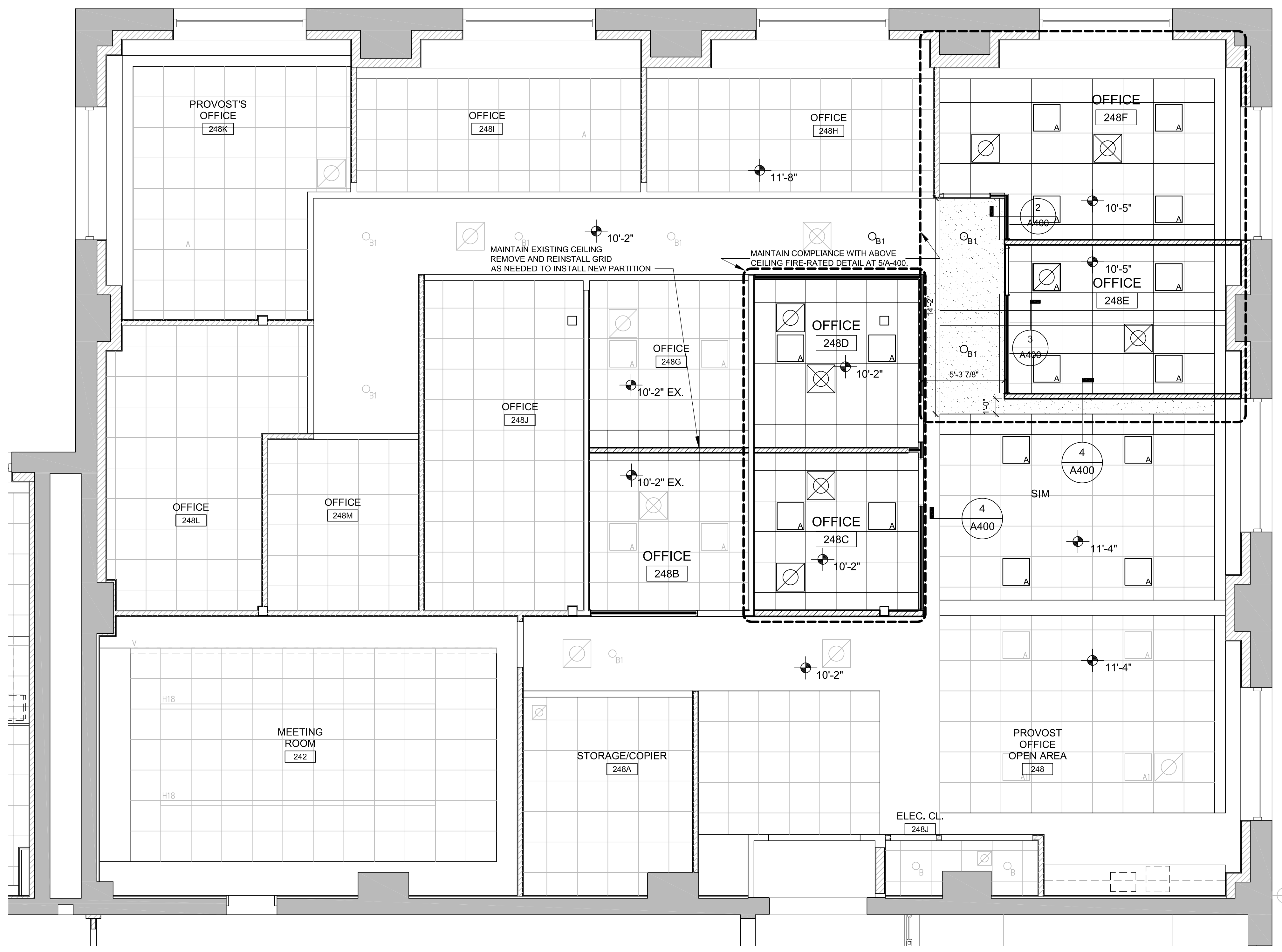
3 Typ Detail - Beam Enclosure (above ceiling)
SCALE: 1 1/2" = 1'-0"



4 Transition Detail - Greater than 10"
SCALE: 3" = 1'-0"



5 Above Ceiling Detail
SCALE: 1" = 1'-0"



1 Reflected Ceiling Plan - New Work
SCALE: 1/4" = 1'-0"

10.20.23 FOR PERMIT & CONSTRUCTION
No. Date Description
Revisions / Issues

DiGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venozzo, AIA
NJ RA AI 00827190

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043

Drawing Information:
Project No: 23.057
MSU Project No: PR 23C064
Date: 07/11/2023
Drawn By: DRW
Checked By: CHK

Sheet Name:
Reflected Ceiling Plan

Sheet No:

A-400
Sheet 4 of 004

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL
ENGINEER
LICENSE NO.: GE45368

DATE
08/01/23

ABBREVIATIONS

Table of abbreviations with columns for symbol, description, and unit. Includes terms like ABANDON, AUTOMATIC AIR VENT, AIR CONDITIONER, ABSOLUTE, ABOVE, ACCESS DOOR, etc.

GENERAL NOTES

- 1. THE FOLLOWING NOTES APPLY TO ALL MECHANICAL DRAWINGS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE 2021 AND ALL OTHER APPLICABLE CODES AND STANDARDS.
3. MECHANICAL CONTRACTOR SHALL ENSURE 36" MIN. CLEARANCE IN FRONT OF ALL ACCESS PANELS.

GENERAL DEMOLITION NOTES

- 1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
3. PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED.

LIST OF DRAWINGS

Table listing drawing titles and numbers: M-001 MECHANICAL COVER SHEET, M-002 MECHANICAL SPECIFICATIONS, MD-100 MECHANICAL DEMOLITION FLOOR PLAN - DUCTWORK, etc.

SYMBOL LEGEND

Symbol legend containing various mechanical symbols and their descriptions: EQUIPMENT MARKER, SECTION INDICATOR, DETAIL INDICATOR, KEY NOTE INDICATOR, INSIDE DUCT DIMENSIONS, RECTANGULAR SUPPLY DUCT TURNED UP, ROUND DUCT TURNED UP, FLEXIBLE DUCT CONNECTION, BALL VALVE, LOCKSHIELD BALL VALVE, BUTTERFLY VALVE, GATE VALVE, OS&Y GATE VALVE, GLOBE VALVE, PLUG VALVE, 3-WAY CONTROL VALVE, 2-WAY CONTROL VALVE, PRESSURE REDUCING VALVE, GAS PRESSURE REGULATOR, CHECK VALVE, CALIBRATED BALANCING VALVE, AUTOMATIC FLOW CONTROL VALVE, TRIPLE DUTY VALVE, PIPE ANCHOR, PIPE GUIDE, PIPE EXPANSION JOINT, FLOW SWITCH, PRESSURE SWITCH, PIPE REDUCER, PIPE FLANGE, PIPE UNION, Y-TYPE STRAINER, FUNNEL DRAIN, RELIEF VALVE, AIR VENT, THERMOMETER IN THERMOWELL, PRESSURE GAUGE W/SHUTOFF COCK, PRESSURE GAUGE W/SNUBBER AND SHUTOFF COCK, PRESSURE GAUGE W/SYPHON AND SHUTOFF COCK, TEMPERATURE AND PRESSURE PORT, FLEXIBLE PIPE CONNECTION, PIPE CAP, PIPE TURNED DOWN, PIPE TURNED UP, TEE TURNED DOWN, TEE TURNED UP, CLEANOUT, HWS HOT WATER SUPPLY PIPE, HWR HOT WATER RETURN PIPE, THERMOSTAT/TEMPERATURE SENSOR, DENOTES CONNECT TO EXISTING, DENOTES LIMIT OF DEMOLITION, EXISTING WORK TO REMAIN, WORK TO BE REMOVED, NEW WORK.

Revisions / Issues table with columns for No., Date, Description.



15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project: Renovation of Provost's Office at Cole Hall
Lot # Back: #
1 Normal Avenue
Montclair, NJ 07043

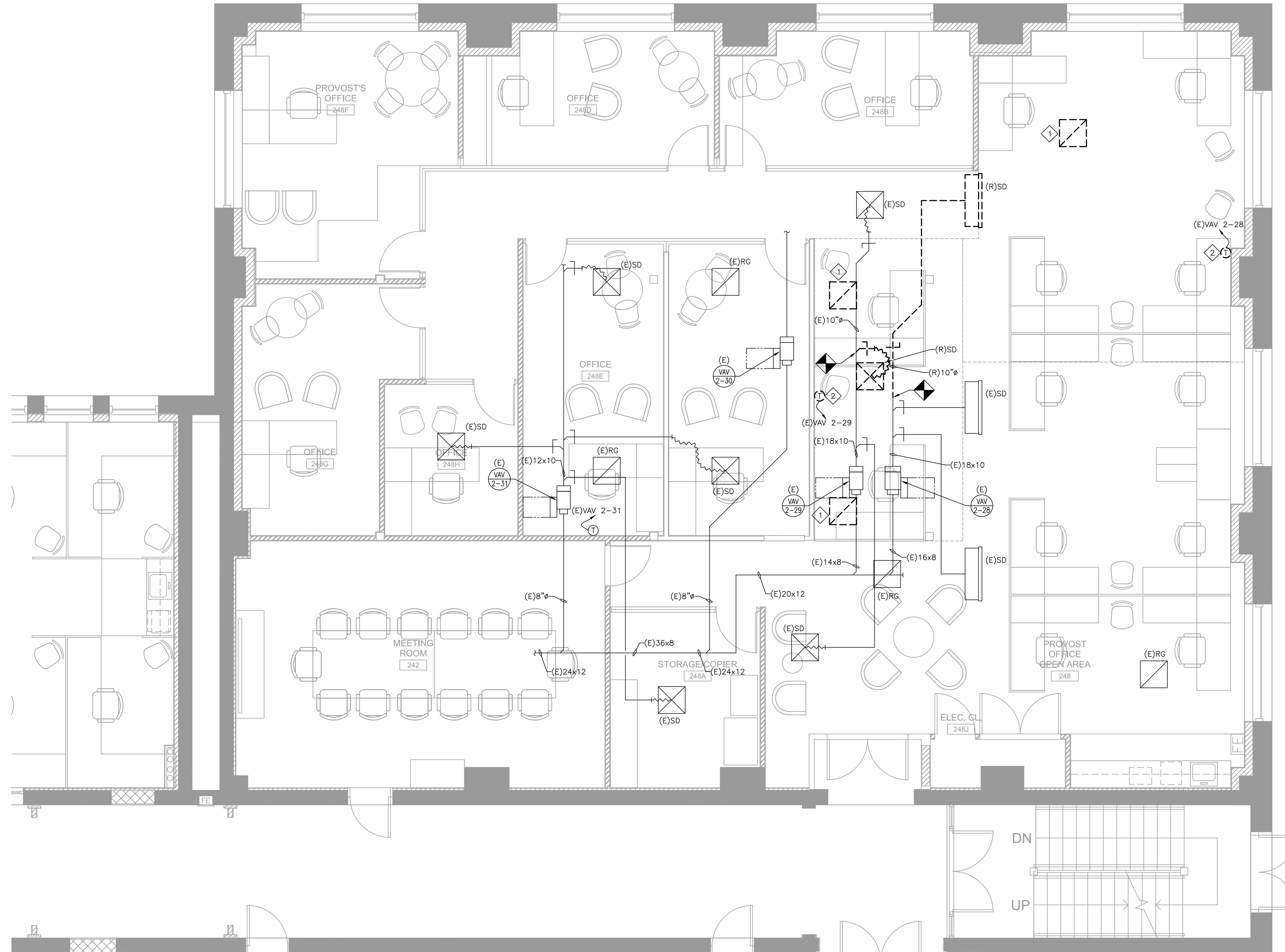
Drawing Information:
Project No: 23.067
MSU Project No: PR 23C064
Date: 09/15/2023
Drawn By: AH
Checked By: RLD

Sheet Name: MECHANICAL COVER SHEET

Sheet No: M-001

Professional Engineer information for Richard L. Delp, PE, New Jersey Professional Engineer License No. GE45368.

- DEMOLITION KEY NOTES:**
- 1 REMOVE AND CLEAN EXISTING RETURN GRILLE. REINSTALL IN NEW CEILING GRID.
 - 2 RELOCATE EXISTING THERMOSTAT AND EXTEND WIRING AS REQUIRED. REFER TO NEW WORK PLANS FOR NEW LOCATION.



1 MECHANICAL DEMOLITION FLOOR PLAN - DUCTWORK
SCALE: 1/4"=1'-0"

No.	Date	Description
10/09/23	Permit and Construction	
09/15/23	Permit and Construction	

Revisions / Issues



15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: **Montclair State University**
1 Normal Avenue
Montclair, NJ 07043

Project: **Renovation of Provost's Office at Cole Hall**
Lot #: _____ Block #: _____
1 Normal Avenue
Montclair, NJ 07043


Drawing Information:
Project No: 23.067
MSU Project No: PR 23C064
Date: 09/15/2023
Drawn By: AH
Checked By: RLD

Sheet Name:
MECHANICAL DEMOLITION FLOOR PLAN - DUCTWORK

Sheet No:

MD-100

M/E/P Engineer:

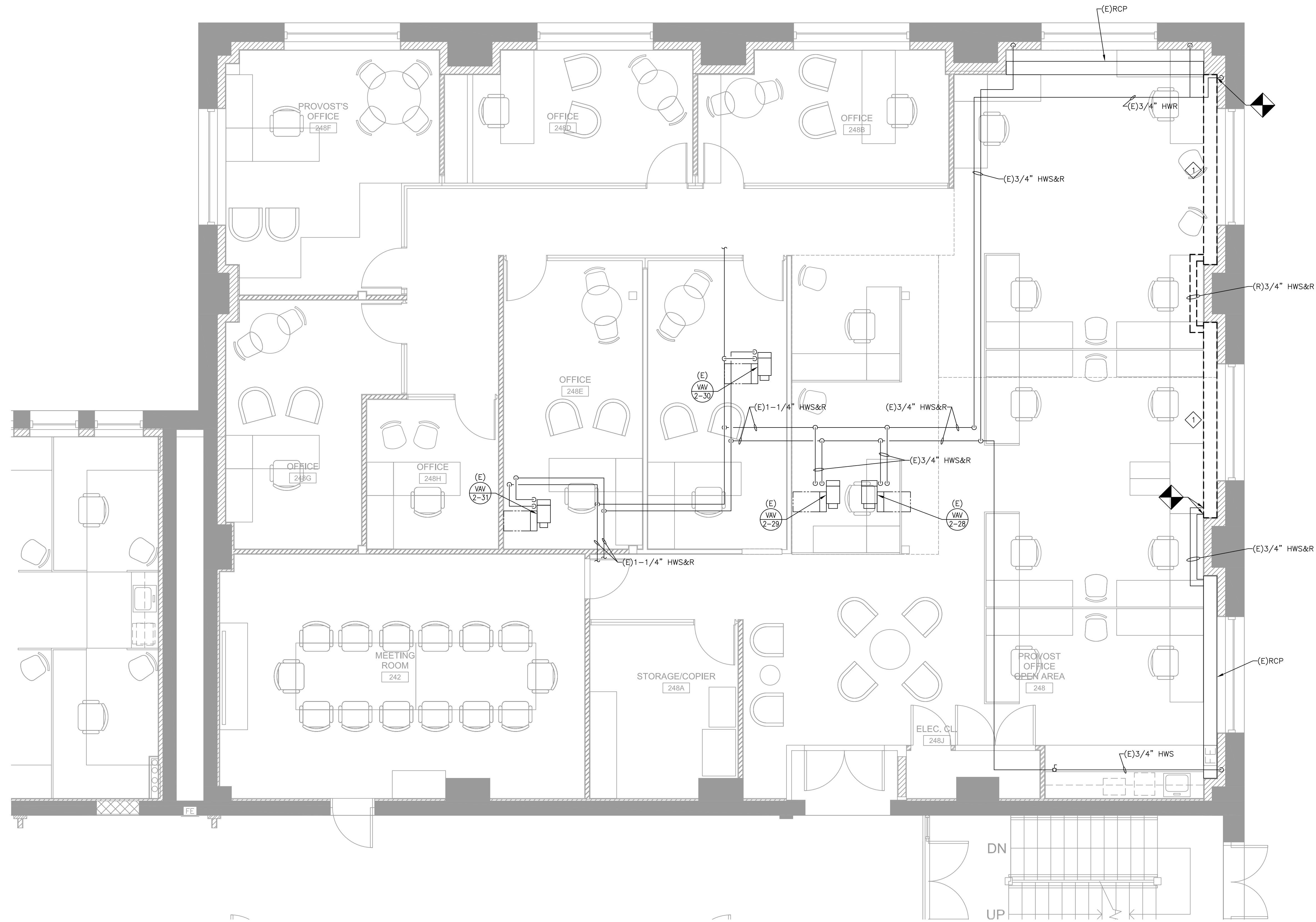


SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

DEMOLITION KEY NOTES:

1 REMOVE RADIANT CEILING PANEL IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, UNIT, 3/4" HOT WATER SUPPLY AND RETURN PIPING TO POINTS INDICATED, INSULATION, CONTROLS, HANGERS AND SUPPORTS.



1 MECHANICAL DEMOLITION FLOOR PLAN - PIPING
SCALE: 1/4"=1'-0"

No.	Date	Description
10/09/23		Permit and Construction
09/15/23		Permit and Construction

Revisions / Issues

DiGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

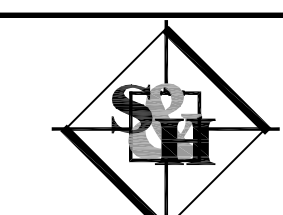
Project:
Renovation of Provost's Office at Cole Hall
Lot #: Block: #
1 Normal Avenue
Montclair, NJ 07043

Drawing Information:
Project No: 23.067
MSU Project No: PR 23C064
Date: 09/15/2023
Drawn By: AH
Checked By:

Sheet Name:
MECHANICAL DEMOLITION FLOOR PLAN - PIPING

Sheet No:

M/E/P Engineer:

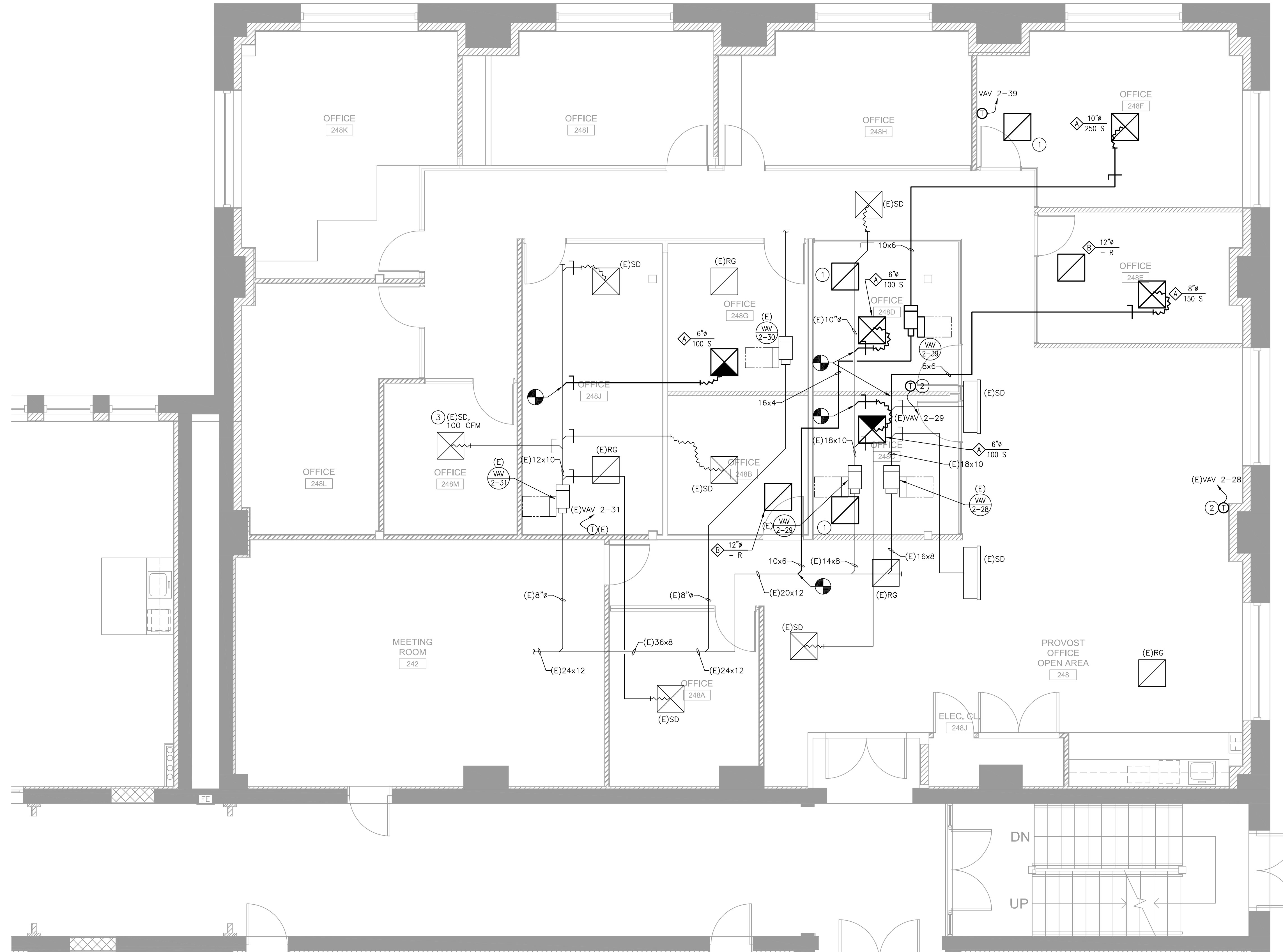


SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

MD-200

- NEW WORK KEY NOTES:**
- 1 REINSTALL EXISTING RETURN GRILLE IN NEW CEILING GRID.
 - 2 RELOCATED THERMOSTAT, EXTEND WIRING AS REQUIRED.
 - 3 REBALANCE EXISTING AIR TERMINAL DEVICE TO CFM INDICATED.



1 MECHANICAL NEW WORK FLOOR PLAN - DUCTWORK
 SCALE: 1/4"=1'-0"

No.	Date	Description
10/09/23		Permit and Construction
09/15/23		Permit and Construction

DIGroupArchitecture
 ARCHITECTURE FOR CHANGE
 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
 1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400
 Vincent A. Myers, AIA
 NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: **Montclair State University**
 1 Normal Avenue
 Montclair, NJ 07043

Project: **Renovation of Provost's Office at Cole Hall**
 Lot #: _____ Block #: _____
 1 Normal Avenue
 Montclair, NJ 07043


Drawing Information:
 Project No: 23.067
 MSU Project No: PR 23C064
 Date: 09/15/2023
 Drawn By: AH
 Checked By: RLD

Sheet Name: **MECHANICAL NEW WORK FLOOR PLAN - DUCTWORK**

Sheet No: _____

M-100

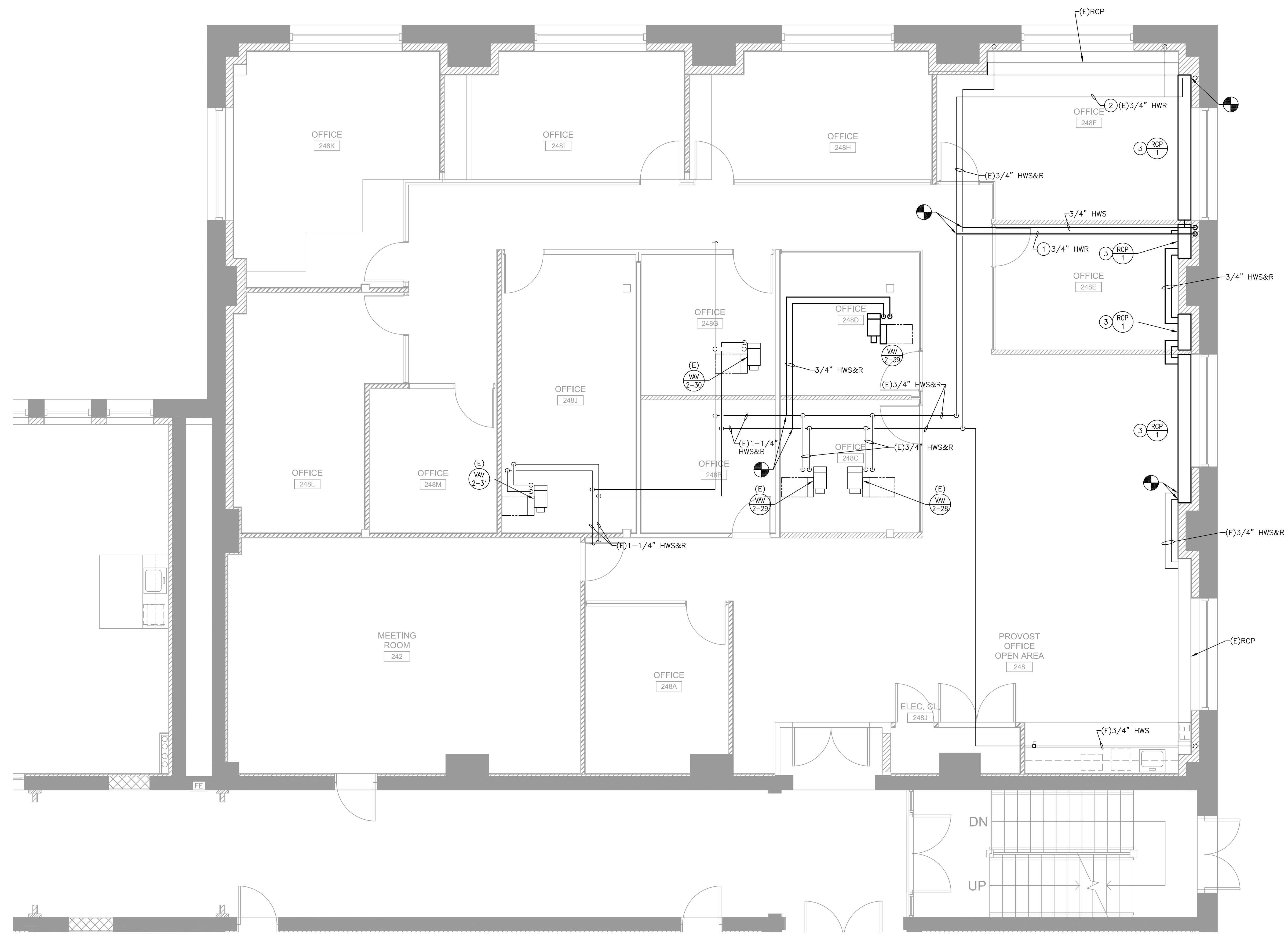
M/E/P Engineer:



SCHILLER AND HERSH ASSOCIATES, INC.
 Consulting M/E/P Engineers
 636 Skippack Pike, Suite 200
 Blue Bell, PA 19422
 Certificate of Authorization: 24GA28014000
 S&H JOB #2364A

RICHARD L. DELP, PE
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE NO. GE45368

- NEW WORK KEY NOTES:**
- 1 INTERLOCK RCP CONTROL VALVE WITH (E)VAV-2-28.
 - 2 INTERLOCK RCP CONTROL VALVE WITH VAV-2-39.
 - 3 INSTALL RADIANT CEILING PANELS FROM WALL TO WALL. FIELD VERIFY DIMENSIONS PRIOR TO ORDERING.



1 MECHANICAL NEW WORK FLOOR PLAN - PIPING
SCALE: 1/4"=1'-0"

No.	Date	Description
10/09/23		Permit and Construction
09/15/23		Permit and Construction

Revisions / Issues

DiGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project:
Renovation of Provost's Office at Cole Hall
Lot #: Block: #
1 Normal Avenue
Montclair, NJ 07043


Drawing Information:
Project No: 23.067
MSU Project No: PR 23C064
Date: 09/15/2023
Drawn By: AH
Checked By: RLD

Sheet Name:
MECHANICAL NEW WORK FLOOR PLAN - PIPING

Sheet No:

M-200

M/E/P Engineer:



SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE														CONTROLS AND COIL CONNECTION SIDE	MAXIMUM DIMENSIONS LxWxH, IN.	WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.		
UNIT TAG	INLET SIZE (IN)	MAXIMUM PRIMARY AIR CFM	MINIMUM PRIMARY AIR CFM	MAX RADIATED HC AT 1.0" Ps	MAX DISCHARGE HC AT 1.0" Ps	HOT WATER REHEAT COIL				WATER									
						AIR	REHEAT CFM	ROWS	COIL TYPE	CAPACITY MBH	ENT F	LVG F	GPM					WPD FT. H2O	
VAV-2-39	5"ø	250	90	20	28	55	94.6	120	1	STD CAPACITY	5.2	180	158.4	0.5	0.2	RIGHT	27x12x8	20	PRICE SDV5-5

PROVIDE ALL UNITS COMPLETE WITH 120V-24V CONTROL POWER TRANSFORMERS.
 PROVIDE ALL UNITS WITH FIELD SUPPLIED FACTORY MOUNTED CONTROLS.
 CONTRACTOR TO FIELD VERIFY VAV CONTROLS AND COIL HAND CONNECTION PRIOR TO ORDERING.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE							
TAG	STYLE	CFM	MOUNT	FACE	MAX NC	BASIS OF DESIGN MANUFACTURER AND MODEL NO.	REMARKS
A	SQUARE, PLAQUE DIFFUSER - SUPPLY	VARIABLES	AS REQ'D	24x24	21	PRICE SPD	1
B	SQUARE, PLAQUE DIFFUSER - RETURN	VARIABLES	AS REQ'D	24x24	18	PRICE SPD	1

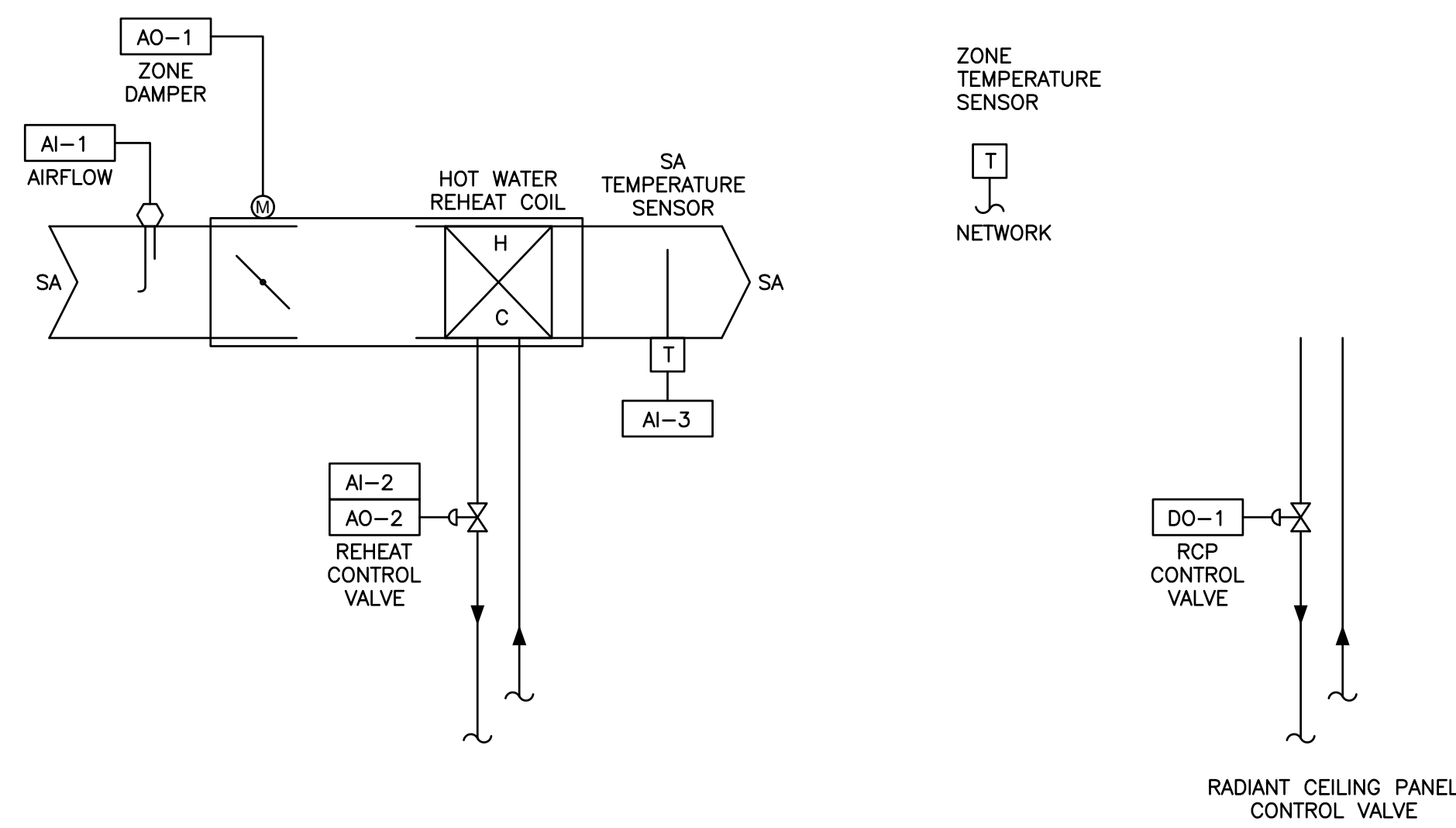
1. REFER TO PLANS FOR QUANTITIES, NECK SIZE, CFM, AND PATTERN.

HYDRONIC RADIANT CEILING PANEL SCHEDULE					
UNIT TAG	BTUH/FT	AVERAGE WATER TEMP °F	NO. OF PASSES	PANEL WIDTH, IN.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
RCP-1	190	160	2	12	TWA LINEAR PANEL

- REFER TO PLANS FOR QUANTITIES.
- PERFORMANCE BASED ON 70°F ROOM TEMPERATURE.
- PROVIDE WITH FACTORY PROVIDED PIPING INTERCONNECTORS AS REQUIRED.
- INTERLOCK PANEL CONTROL VALVES WITH ASSOCIATED VAV BOX CONTROLS.
- COORDINATE MOUNTING AND INSTALLATION WITH CEILING TYPE.
- PROVIDE ALL UNITS WITH FIELD PROVIDED AND INSTALLED 1" THICK FOIL BACKED FIBERGLASS BLANKET INSULATION ON TOP OF PANELS.
- PANEL MANUFACTURER IS A REPLACEMENT IN KIND TO MATCH EXISTING PANEL LOOK AND FINISH.

VENTILATION SCHEDULE																				
ROOM NAME	ROOM TYPE	ZONE AREA (ft²), A _z	INTERNATIONAL MECHANICAL CODE 2021 TABLE 403.3.1.1						BREATHING ZONE OUTSIDE AIR, V _{BZ}	REQUIRED ZONE OUTSIDE AIRFLOW, V _{OZ}	ZONE SUPPLY AIRFLOW, V _{SP} or V _{SD}	ZONE AIR DISTRIBUTION EFFECTIVENESS, E _z	ACTUAL OA CFM PROVIDED TO SPACE	ACTUAL EA CFM TAKEN DIRECTLY FROM SPACE	AHU SYSTEM	EXHAUST SYSTEM	REMARKS			
			NO. OF FIXTURES	PEOPLE/1000 SQ.FT.	PEOPLE	ZONE POPULATION, P _z	OUTSIDE AIR											EXHAUST AIR		
							CFM/PERSON, R _D	CFM/ft², R _B										CFM/ft²	CFM/ft²	TOTAL EXHAUST
248G OFFICE	Office Space	140	N/A	5	1	1	5	0.06	N/A	N/A	N/A	15	20	100	0.8	20	N/A	(E)AHU-5	N/A	1
248D OFFICE	Office Space	140	N/A	5	1	1	5	0.06	N/A	N/A	N/A	15	20	100	0.8	20	N/A	(E)AHU-5	N/A	1
248C OFFICE	Office Space	140	N/A	5	1	1	5	0.06	N/A	N/A	N/A	15	20	100	0.8	20	N/A	(E)AHU-5	N/A	1
248D OFFICE	Office Space	120	N/A	5	1	1	5	0.06	N/A	N/A	N/A	15	20	100	0.8	20	N/A	(E)AHU-5	N/A	1
248F OFFICE	Office Space	230	N/A	5	1	1	5	0.06	N/A	N/A	N/A	25	35	250	0.8	50	N/A	(E)AHU-5	N/A	1
248E OFFICE	Office Space	140	N/A	5	1	1	5	0.06	N/A	N/A	N/A	15	20	150	0.8	30	N/A	(E)AHU-5	N/A	1

1. ACTUAL VENTILATION AIR SUPPLIED TO SPACES SERVED BY COMMON SYSTEM CALCULATED IN ACCORDANCE WITH IMC-2021 SECTION 403.3.1, EQUATION 4-8.



VAV BOX 2-39

VAV BOX (VAV 2-39) POINTS LIST												
POINT TAG	POINT DESCRIPTION	INPUTS				OUTPUTS				FUNCTION	REMARKS	
		SAFETY SHUT DOWN	DIGITAL	ANALOG	POSITION	DIGITAL	ANALOG	TEMPERATURE	SETPOINT			
AO-2	VAV REHEAT COIL VALVE											
AI-2	VAV REHEAT COIL VALVE FEEDBACK				X							
AI-1	VAV BOX AIRFLOW							X				
AO-1	VAV DAMPER ACTUATOR									X	X	
AI-3	VAV BOX SUPPLY AIR TEMPERATURE							X			X	
DO-1	RADIANT CEILING PANEL VALVE								X			
COM	SETPOINT ADJUSTMENT						X					
COM	ZONE TEMPERATURE					X						X

VAV BOX SEQUENCE OF OPERATION:

SEAMLESSLY INTEGRATE NEW VAV BOX INTO EXISTING AUTOMATED LOGIC CONTROL SYSTEM.
 EXISTING VAV BOXES SHALL OPERATE VIA EXISTING SEQUENCE.

A. VAV BOX WITH REHEAT CONTROL: VAV BOXES WILL BE CONTROLLED BY LOCAL DDC CONTROLLERS. ON A RISE IN TEMPERATURE ABOVE THE CONTROLLER'S SETPOINT (ADJUSTABLE VIA WALL SENSOR), THE VAV BOXES WILL MODULATE THE AIRFLOW BETWEEN MINIMUM AND MAXIMUM SETPOINTS. ON A DROP IN TEMPERATURE BELOW SETPOINT, THE VAV BOX WILL MODULATE ITS DAMPER TO MINIMUM POSITION. ON A FURTHER DROP IN TEMPERATURE, THE VAV BOX WILL MODULATE ITS DAMPER TO THE REHEAT AIRFLOW POSITION AND THE HOT WATER REHEAT COIL CONTROL VALVE WILL MODULATE TO MAINTAIN SPACE TEMPERATURE. THE BMS WILL PLACE EACH VAV BOX IN EITHER THE OCCUPIED OR UNOCCUPIED MODE BASED ON AN OPERATOR ADJUSTABLE TIME SCHEDULE. THE HOT WATER REHEAT COIL CONTROL VALVE SHALL FAIL IN PLACE.

B. SPACE TEMPERATURE ADJUSTMENT: THE SPACE TEMPERATURE SENSOR WILL HAVE AN ADJUSTMENT CAPABILITY THAT WILL ALLOW THE SPACE TEMPERATURE SETPOINT TO BE ADJUSTED +/- 2 DEGREES F.

C. RADIANT CEILING PANEL: IF THE VAV BOX IS IN HEATING MODE AND UPON A FURTHER DROP IN SPACE TEMPERATURE BELOW SETPOINT, THE RADIANT PANEL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE. UPON A RISE IN SPACE TEMPERATURE ABOVE SETPOINT, THE CONTROL VALVE SHALL CLOSE.

1 VAV 2-39 CONTROL DIAGRAM
 SCALE: NOT TO SCALE

10/09/23	Permit and Construction
09/15/23	Permit and Construction
No. / Date	Description
Revisions / Issues	

DIGroupArchitecture
 ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
 1417 N. 2nd St, Ste 3M • Philadelphia, PA 19122 • T: 215.634.3400

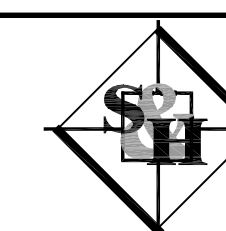
Vincent A. Myers, AIA
 NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Montclair State University
 1 Normal Avenue
 Montclair, NJ 07043

Project:
 Renovation of Provost's Office at Cole Hall
 Lot # _____ Block # _____
 MSU Project No: PR 23C064
 Drawn By: AH
 Checked By: RLD

M/E/P Engineer:



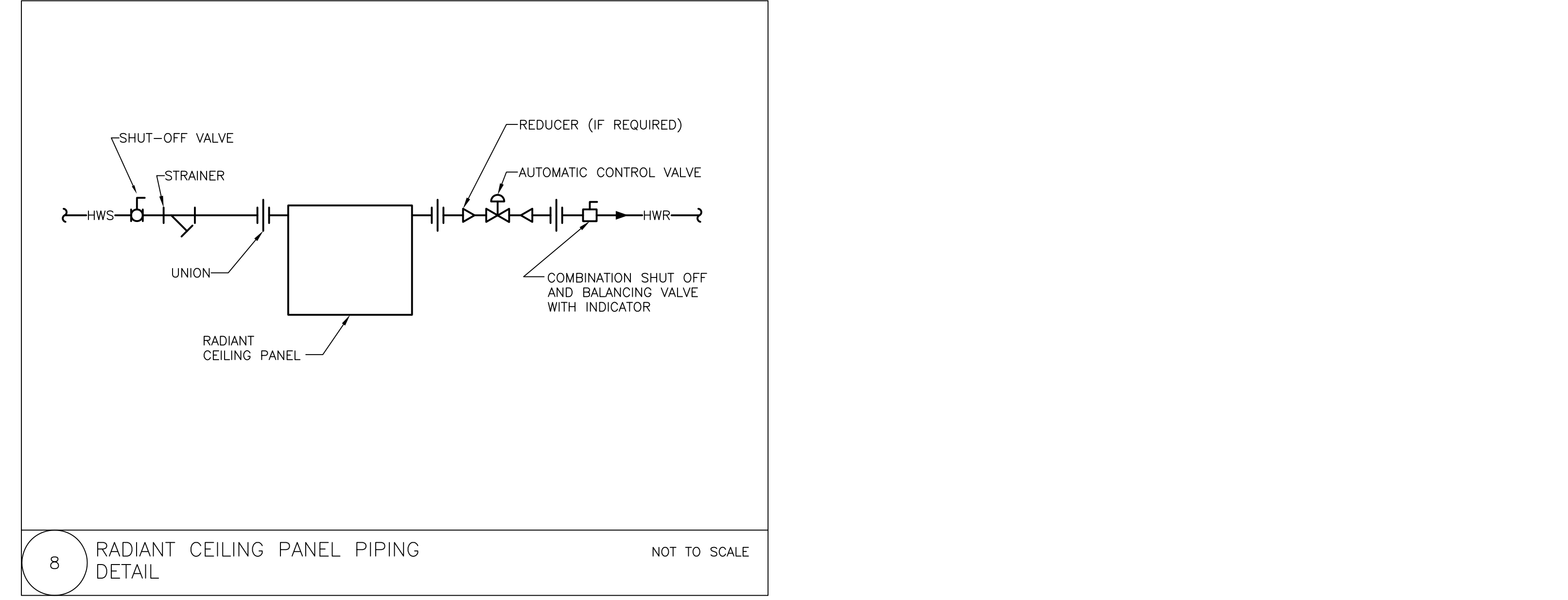
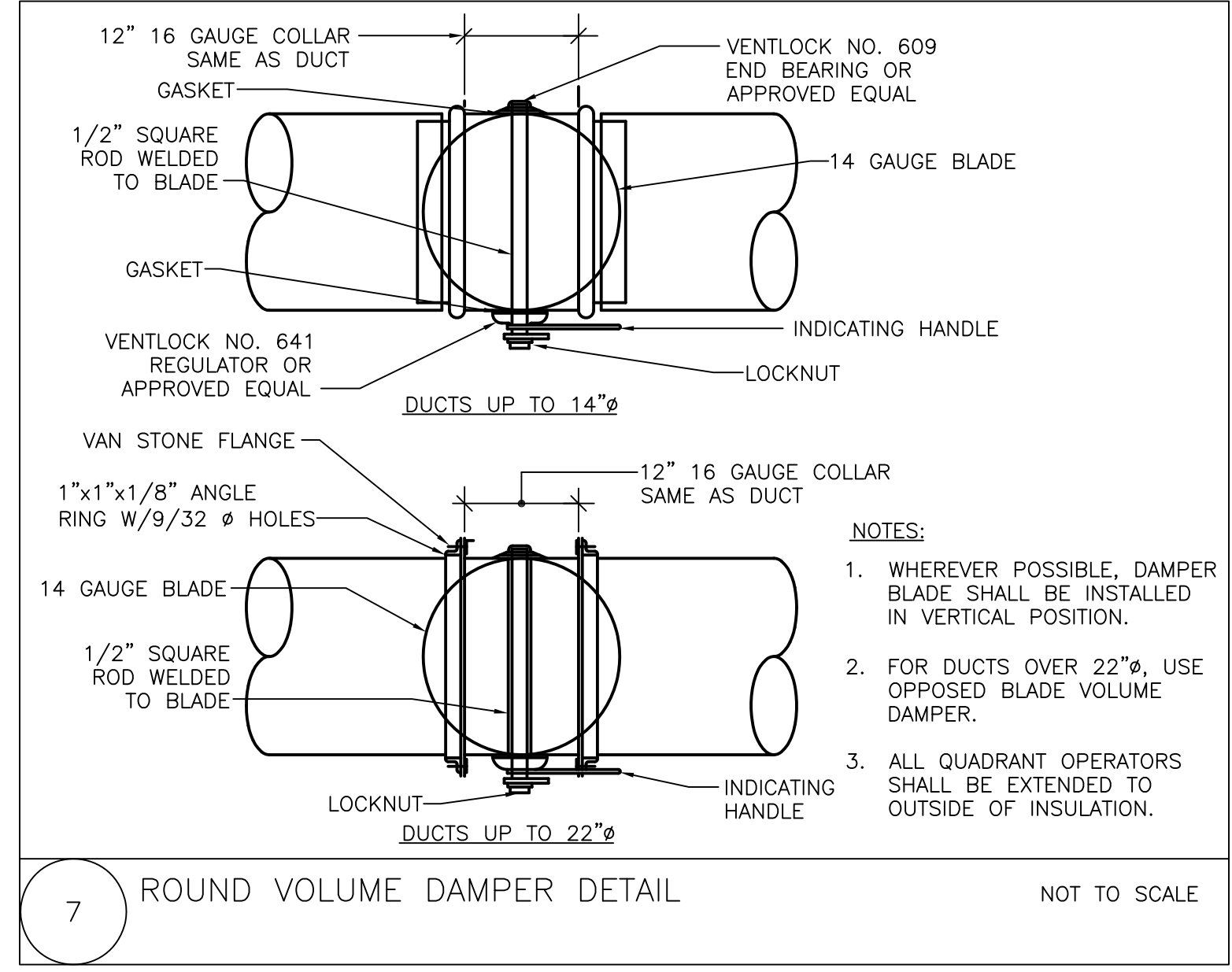
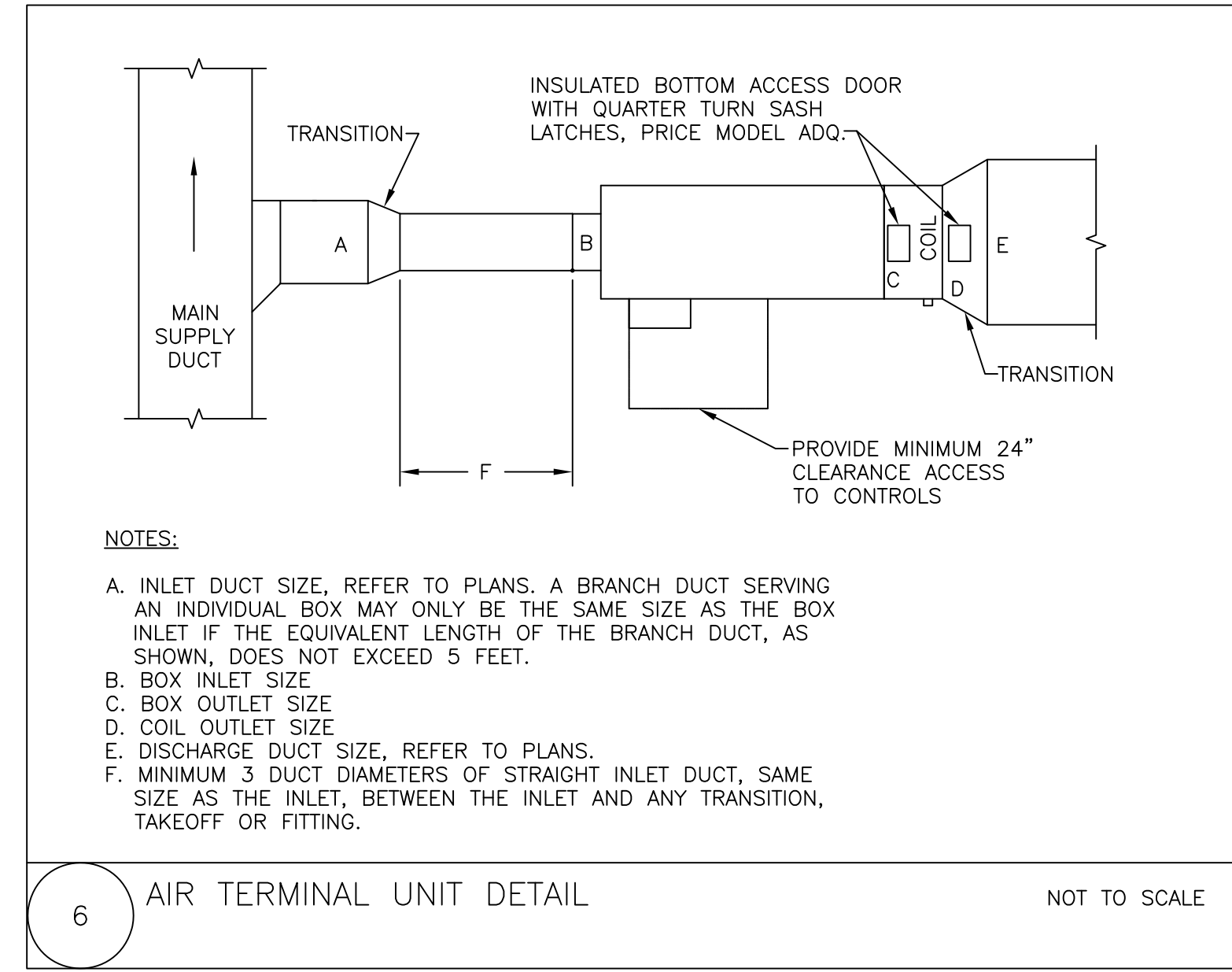
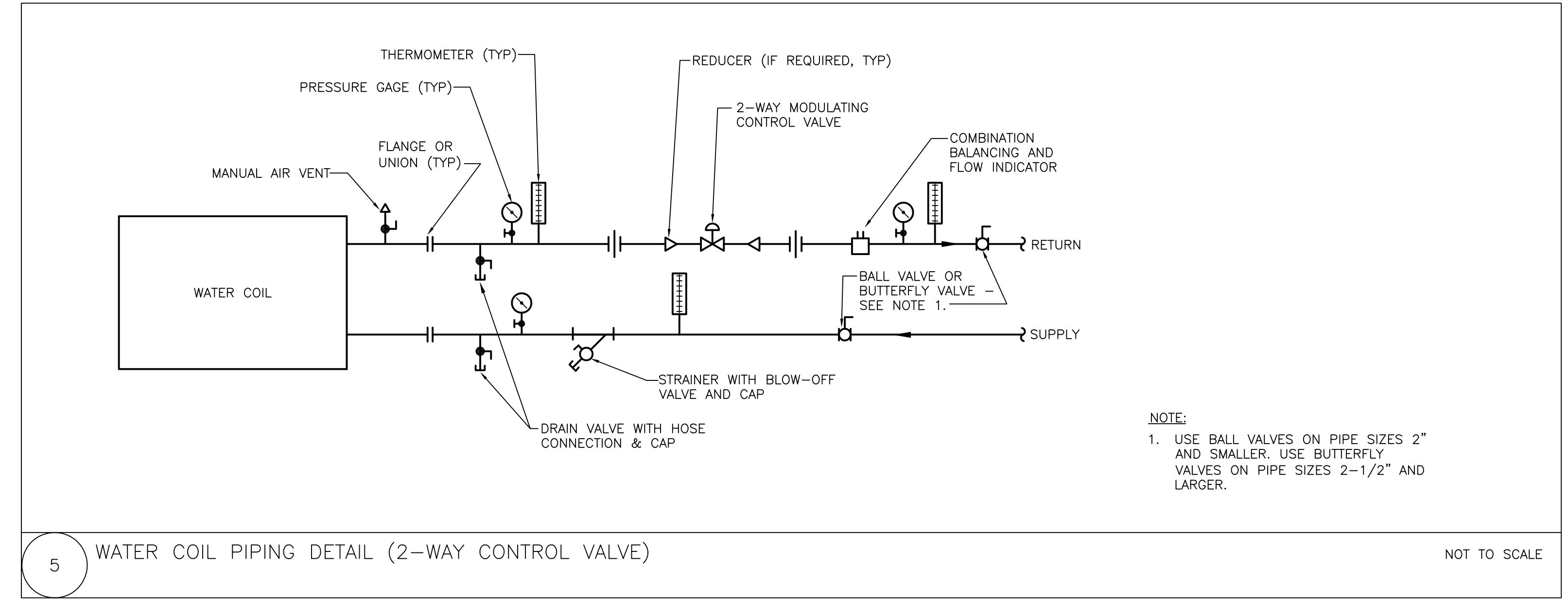
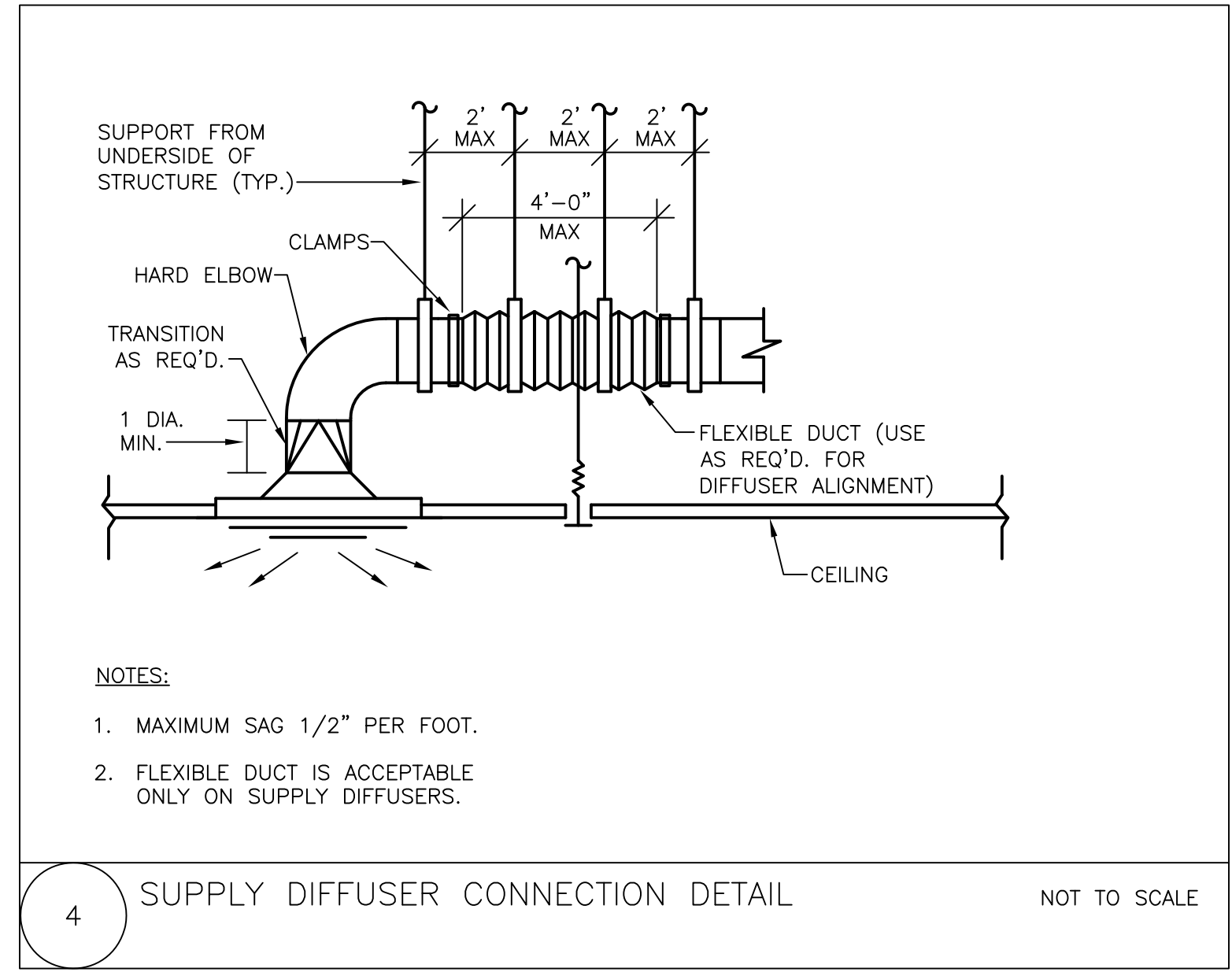
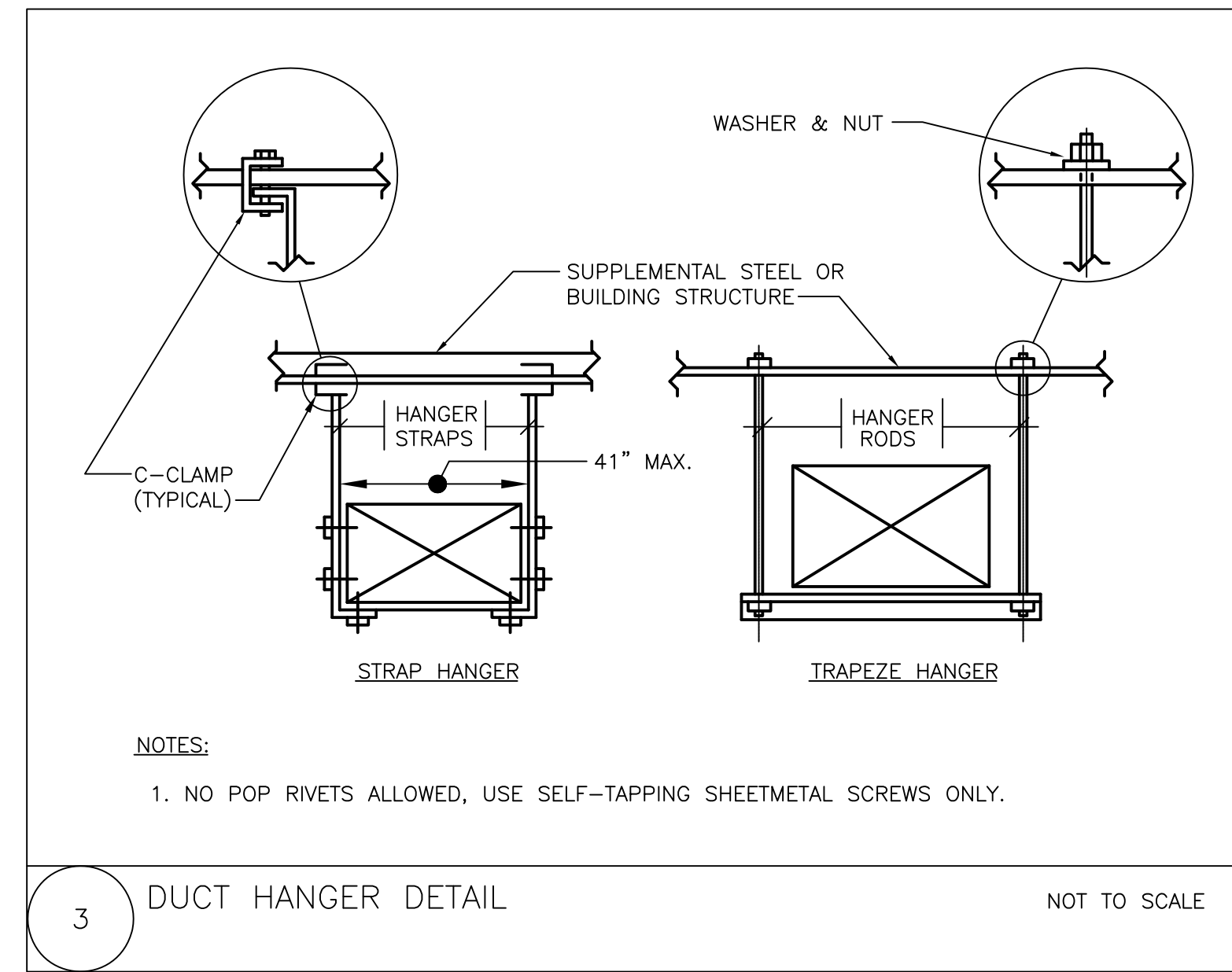
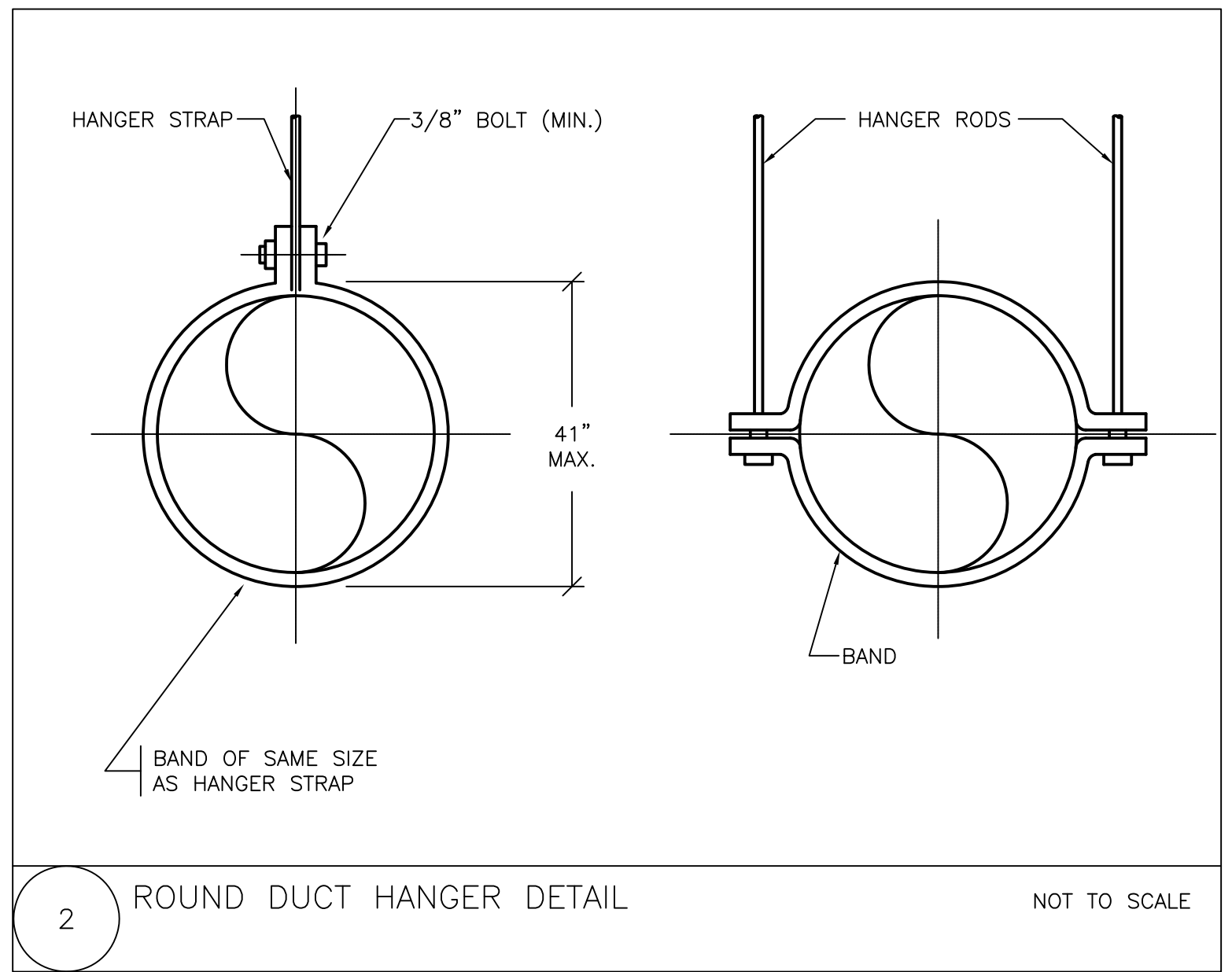
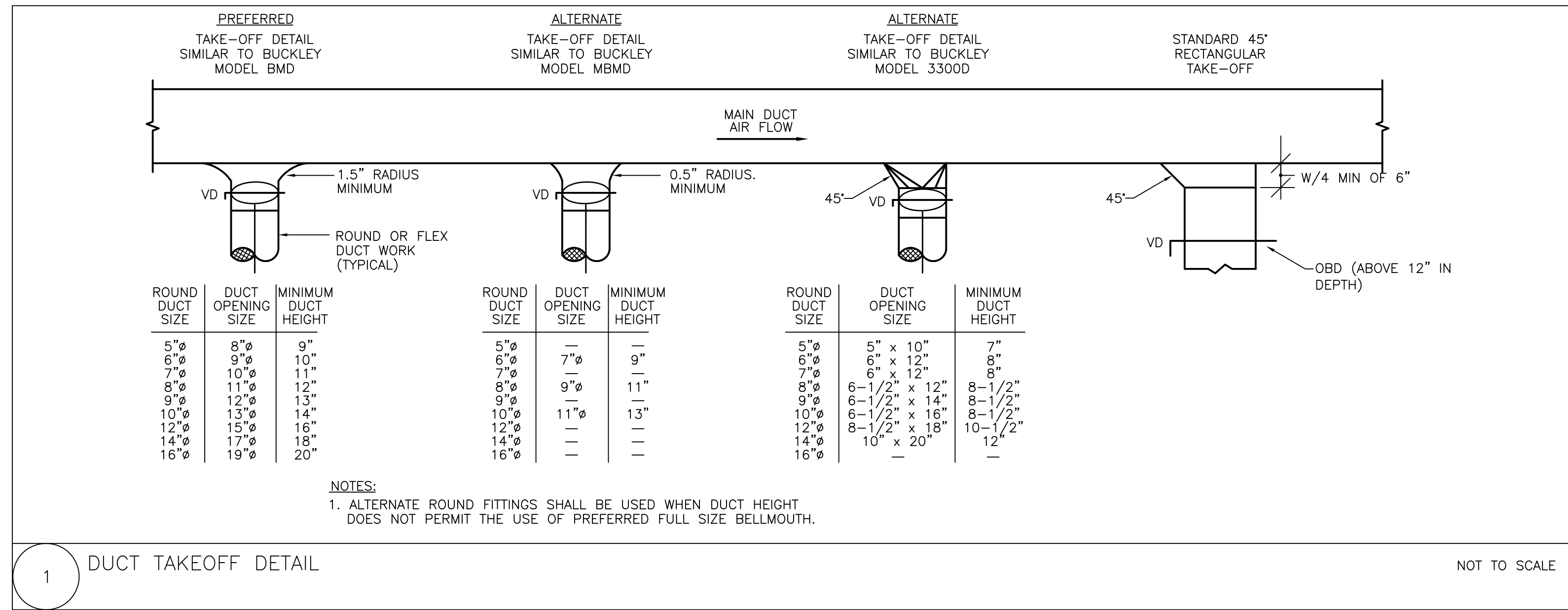
SCHILLER AND HERSH ASSOCIATES, INC.
 Consulting M/E/P Engineers
 636 Skippack Pike, Suite 200
 Blue Bell, PA 19422
 Certificate of Authorization: 24GA28014000
 S&H_JOB #2364A

RICHARD L. DELP, PE
 NEW JERSEY PROFESSIONAL
 ENGINEER
 LICENSE NO.: GE45368

Sheet Name:
**MECHANICAL EQUIPMENT
 SCHEDULES AND CONTROL
 DIAGRAMS**

Sheet No:

M-300



No.	Date	Description
10/09/23	Permit and Construction	
09/15/23	Permit and Construction	

DIGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA #11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: **Montclair State University**
1 Normal Avenue
Montclair, NJ 07043

Project: **Renovation of Provost's Office at Cole Hall**
Lot # _____ Block # _____
1 Normal Avenue
Montclair, NJ 07043

Drawing Information:
Project No: 23.067
MSU Project No: PR 23C064
Date: 09/15/2023
Drawn By: AH
Checked By: RLD

Sheet Name: **MECHANICAL DETAILS**

Sheet No: _____

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H_JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL
ENGINEER
LICENSE NO.: GE45368

M-400

REQUIREMENT NOTES

PART 1 - GENERAL
1.1 DESCRIPTION:
A. WORK INCLUDED:
1. DESIGN, FABRICATE, INSTALL, AND SECURE REQUIRED APPROVALS FOR A COMPLETE FIRE PROTECTION AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING AND/OR AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION IN ACCORDANCE WITH PERTINENT REQUIREMENTS OF THE FIRE RATING BUREAU AND GOVERNMENTAL AGENCIES HAVING JURISDICTION.
2. PROVIDE CURRENT CODE COMPLIANT HYDRANT WATER FLOW TEST.
1.2 QUALITY ASSURANCE:
A. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THIS SECTION.
B. IN ADDITION, COMPLYING WITH PERTINENT CODES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION COMPLY WITH:
1. RECOMMENDATIONS OF THE FIRE RATING BUREAU HAVING JURISDICTION.
2. PERTINENT RECOMMENDATIONS CONTAINED IN NFPA PAMPHLET NO. 13 "STANDARDS FOR SPRINKLER SYSTEM INSTALLATIONS."
1.3 SUBMITTALS:
A. SPRINKLER CONTRACTOR SHALL PROVIDE PIPING MAINS WITH SIZES AS SHOWN, OR LARGER (WHEN SHOWN) AND WITH BRANCH PIPING SIZED AS REQUIRED BY SPRINKLER CONTRACTORS HYDRAULIC CALCULATIONS.
B. PRODUCT DATA:
1. WITHIN 35 CALENDAR DAYS AFTER THE CONTRACTOR HAS RECEIVED THE OWNER'S NOTICE TO PROCEED, SUBMIT:
a. MATERIALS LIST OF ITEMS PROPOSED UNDER THIS SECTION.
b. DESIGN DRAWINGS, STAMPED AS HAVING BEEN APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD AS WELL AS THE FIRE RATING BUREAU HAVING JURISDICTION, SHOWING THE COMPLETE OVERHEAD SPRINKLER SYSTEM AND INDICATING CEILING AIR DIFFUSERS, LIGHTING FIXTURES, AND BEAMS.
c. DETAILS AND SECTIONS AS REQUIRED TO CLARIFY THE DESIGN.
C. RECORD DRAWINGS:
1. INCLUDE A COPY OF THE RECORD DRAWINGS IN EACH COPY OF THE OPERATION AND MAINTENANCE MANUAL DESCRIBED BELOW.
2. UPON COMPLETION OF THIS PORTION OF WORK, AND AS A CONDITION OF ITS ACCEPTANCE, DELIVER TO THE ARCHITECT TWO COPIES OF AN OPERATION MANUAL COMPLIED IN ACCORDANCE WITH THE PROVISIONS OF THESE SPECIFICATIONS.

ADDITIONAL SPRINKLER HEADS TO BE INSTALLED AS TO PROVIDE ADEQUATE COVERAGE DUE TO ANY MECHANICAL AND/OR ARCHITECTURAL OBSTRUCTIONS, DUCTWORK, PIPING, ETC. INSTALLED DURING CONSTRUCTION WHICH MAY ALTER THE ORIGINAL SPRINKLER DESIGN.
F. SPRINKLER CONTRACTOR SHALL DESIGN SPRINKLER PIPING TO INCLUDE A 20% MARGIN OF SAFETY FOR BOTH AVAILABLE WATER FLOW AND PRESSURE.
G. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIREWALLS AND WALLS WHICH REQUIRE SEALING. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL WALL PENETRATIONS WITH FIRE RATED SEALANT BEFORE FINAL PAYMENT. PROVIDE CODE APPROVED FIRE STOP SYSTEMS AT ALL OPENINGS (CORRIDOR WALLS 2 HOUR RATED). FIRE STOP INSTALLATION MUST MEET REQUIRED ASTM E814 AND UL1479 TESTED ASSEMBLIES, THAT PROVIDE A FIRE RATING EQUAL TO THE CONSTRUCTION BEING PENETRATED.
3.3 TESTING AND ACCEPTANCE:
A. UPON COMPLETION OF THE INSTALLATION, PROVIDE NECESSARY PERSONEL AND EQUIPMENT AND TEST AND RETEST THE COMPLETE SYSTEM, MAKING ADJUSTMENTS AS REQUIRED, AND SECURE ALL NECESSARY APPROVALS.
B. WHEN THE SYSTEM HAS BEEN COMPLETELY APPROVED, SECURE A LETTER OF FINAL ACCEPTANCE FROM THE FIRE RATING BUREAU HAVING JURISDICTION, AND FORWARD TWO COPIES OF THE LETTER TO THE ARCHITECT.
C. SPRINKLER CONTRACTOR SHALL FLUSH, TEST, AND INSPECT SPRINKLER PIPING SYSTEM ACCORDING TO NFPA 13.
D. SPRINKLER CONTRACTOR SHALL PROVIDE ALL REQUIRED TESTING OF WATER SUPPLIES FOR POTENTIAL (MIC) MICROBIOLOGICALLY INFLUENCED CORROSION PER NFPA 13 (WATER SUPPLY TREATMENT).

PART 4 - SEISMIC DETAILS OF CONSTRUCTION:
4.1 VIBRATION ISOLATION & SEISMIC DETAILS OF CONSTRUCTION 2021 IBC.
A. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL SPRINKLER EQUIPMENT SHALL BE MOUNTED ON SEISMIC RESTRAINTS AND VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF VIBRATION AND MECHANICALLY TRANSMITTED SOUND TO THE BUILDING STRUCTURE. SEISMIC RESTRAINTS AND VIBRATION ISOLATORS SHALL BE SELECTED IN ACCORDANCE WITH SPECIFICATIONS AND ON ACTUAL WEIGHT DISTRIBUTION OF THE EQUIPMENT FURNISHED, SO AS TO PRODUCE REASONABLY UNIFORM DEFLECTION. DEFLECTIONS SHALL BE AS NOTED ON THE EQUIPMENT SHOP DRAWINGS SUBMITTALS. ALL VIBRATION ISOLATORS AND SEISMIC RESTRAINTS WILL BE IN STRICT ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE. THE MANUFACTURERS OF THE VIBRATION AND SEISMIC CONTROL EQUIPMENT WILL DESIGN AND CALCULATE THE VIBRATION ISOLATION AND SEISMIC RESTRAINT TYPES, SIZES, LOCATIONS, DEFLECTIONS, DEAD LOADS, ANCHORING METHODS, BOLT DIAMETERS, IMBEDMENT AND WELD LENGTHS BASED ON ACTUAL EQUIPMENT BEING INSTALLED. THIS MANUFACTURER WILL SUBMIT THESE CALCULATIONS STAMPED AND APPROVED BY A PROFESSIONAL ENGINEER. AS PART OF THE VIBRATION ISOLATION AND SEISMIC RESTRAINTS SHOP DRAWINGS, ALSO SUBMIT A SEISMIC DESIGN ERRORS AND OMISSIONS INSURANCE CERTIFICATE AS PART OF THIS SHOP DRAWING. THE MANUFACTURER WILL PROVIDE INSTALLATION INSTRUCTIONS, DRAWINGS, DETAILS, AND FIELD SUPERVISION.

PART 2 - PRODUCTS DESIGN:
2.1 PROVIDE A DESIGN WHICH IS COMPLETE IN ALL REGARDS INCLUDING, BUT NOT NECESSARILY LIMITED TO:
A. CONNECTION TO UTILITY MAIN INCLUDING REQUIRED VALVES, FITTINGS, AND SIMILAR ITEMS.
B. OVERHEAD SPRINKLER SYSTEM. SPRINKLER CONTRACTOR SHALL PROVIDE PIPING MAINS WITH SIZES AS SHOWN, OR LARGER (WHEN SHOWN), WITH BRANCH PIPING SIZED AS REQUIRED BY SPRINKLER CONTRACTORS HYDRAULIC CALCULATIONS.
1. SPRINKLER CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR EACH TYPE SPRINKLER HEAD, VALVE, PIPING SPECIALTY, AND FIRE PROTECTION SPECIALTY.
2. SPRINKLER PROTECTION SHALL BE BASED ON LIGHT HAZARD OCCUPANCY FOR CLASSROOMS, OFFICE SPACES, ETC. AND ORDINARY HAZARD OCCUPANCY FOR STORAGE, STAGES, KITCHENS, AND EQUIPMENT ROOMS.
2.2 ARRANGEMENT:
A. IN AREAS HAVING CEILINGS, CONCEAL ALL PIPES.
B. IN STORAGE AND SERVICE AREAS, PIPES MAY BE EXPOSED BUT HOLD TO THE MINIMUM PRACTICABLE DISTANCE BELOW THE CEILING.
2.3 MATERIALS:
A. SPRINKLER HEADS:
1. ABOVE CEILINGS AND/OR IN AREAS WITHOUT FINISHED CEILINGS, PROVIDE STANDARD UPRIGHT TYPE.
2. IN FINISHED CEILINGS, PROVIDE CONCEALED TYPE SPRINKLER HEADS WITH WHITE COVER PLATE.
B. PROVIDE SUPPORTS, HANGERS, INSERTS, AND ASSOCIATED ITEMS TO PROPERLY SUPPORT SPRINKLER PIPING IN ACCORDANCE WITH PERTINENT PROVISIONS OF NFPA 13.
C. VALVE SEALS, SIGNS, TAGS, AND CHARTS:
1. SEALS: PROVIDE BRASS CROSS-LINKS CHAIN. ALL BRASS PADLOCK AND TWO KEYS FOR EACH MANUALLY OPERATED SHUTOFF VALVE REQUIRED TO BE SEALED IN THE OPEN POSITION.
2. SIGNS: PROVIDE IDENTIFICATION SIGNS OF STANDARD DESIGN, FASTENED SECURELY AT DESIGNATED LOCATIONS IN ACCORDANCE WITH NFPA PAMPHLET NO. 13. PROVIDE PERMANENT ENGRAVED STEEL PLACARD CHAINED TO SPRINKLER VALVE WITH HYDRAULIC "BASIS OF DESIGN."
3. TAGS: PROVIDE 2" DIAMETER BRASS TAGS, STAMPED WITH DESIGNATION NUMBERS, AND ATTACHED WITH 12 GAGE COPPER WIRE TO SPINDLE OF THE CONTROL VALVES.
4. CHARTS:
a. PROVIDE TWO COPIES OF THE APPROVED "AS-BUILT" SPRINKLER SYSTEM DIAGRAM AND VALVE CHART GIVING DESIGNATION NUMBER, FUNCTION, AND LOCATION OF EACH VALVE.
b. MOUNT IN PAINTED FRAMES UNDER GLASS AND LOCATED WHERE DIRECTED BY THE ARCHITECT.
2.4 OTHER MATERIALS:
A. PROVIDE OTHER MATERIALS NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ARCHITECT.
B. FURNISH EXTRA SPRINKLER HEADS AND SPRINKLER HEAD CABINETS WITH ASSOCIATED WRENCHES PER THE FOLLOWING SCHEDULE:
1. FOR SYSTEMS HAVING LESS THAN 300 SPRINKLERS, NOT FEWER THAN 6 SPRINKLERS.
2. FOR SYSTEMS WITH 300 TO 1000 SPRINKLERS, NOT FEWER THAN 12 SPRINKLERS.
3. FOR SYSTEMS WITH OVER 1000 SPRINKLERS, NOT FEWER THAN 24 SPRINKLERS.
C. PROVIDE INSPECTORS TEST CONNECTION AND DRAIN ACCORDING TO NFPA 13.
D. PROVIDE FLOW SWITCHES, PRESSURE GAUGES, AND SUPERVISORY SWITCHES PER NFPA 13.

PART 3 - EXECUTION
3.1 SURFACE CONDITIONS:
A. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
B. SPRINKLER CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING IN ALL AREAS AS REQUIRED UNDER THIS CONTRACT. PATCH ALL WALL, CEILING, AND FLOOR OPENINGS AS NECESSARY.
3.2 INSTALLATION:
A. COORDINATE AS NECESSARY WITH OTHER TRADES TO ASSURE PROPER AND ADEQUATE PROVISION IN THE WORK OF THOSE TRADES FOR INTERFACE WITH THE WORK OF THIS SECTION.
B. INSTALL THE WORK OF THIS SECTION IN STRICT ACCORDANCE WITH THE APPROVED DESIGN DRAWINGS AND THE REQUIREMENTS OF THE FIRE MARSHAL, GOVERNMENTAL AGENCIES, AND FIRE RATING BUREAU HAVING JURISDICTION.
C. PROVIDE HOODS OR SHIELDS ABOVE ALL ELECTRICAL EQUIPMENT IN ELECTRIC ROOMS.
D. PROVIDE SPRINKLER GUARDS FOR ALL SPRINKLER HEADS ABOVE GYMNASIUM AND/OR BELOW STAGE AREA.
E. THE SPRINKLER CONTRACTOR SHALL MAKE AN ALLOWANCE TO INSTALL A MINIMUM OF 20%

GENERAL NOTES

1. THE FOLLOWING NOTES APPLY TO ALL FIRE PROTECTION DRAWINGS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 13-2019 AND ALL OTHER APPLICABLE CODES AND STANDARDS.
3. ALL DRAWINGS ARE DIAGRAMMATIC. FIRE PROTECTION CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK.
5. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATIONS PRIOR TO THE START OF CONSTRUCTION. WHEN CONFLICTS ARISE, MAKE ANY NECESSARY CHANGES TO ROUTING OF SPRINKLER PIPING AT NO ADDITIONAL COST.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COORDINATION DRAWINGS SHOWING ALL TRADES. NO EQUIPMENT, PIPING, DUCTWORK, ETC. IS TO BE INSTALLED WITHOUT APPROVAL BY THE ENGINEER.
7. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. FIRE PROTECTION CONTRACTOR SHALL PROVIDE FIREPROOF PIPE SLEEVES AT ALL NEW PIPING PENETRATIONS THRU FIRE RATED WALLS AND FLOORS.
9. INDICATED SPRINKLER HEAD AND PIPING ARE DIAGRAMMATIC. CONTRACTOR SHALL DETERMINE ALL REQUIRED LOCATIONS AND BRANCH/MAIN DIRECTION CHANGES BEFORE FABRICATION AND INSTALLATION TO AVOID INTERFERENCE WITH OTHER TRADES AND EXISTING STRUCTURES.
10. UNLESS OTHERWISE NOTED, ALL SPRINKLER PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB/STEEL.
11. PRIOR TO BIDDING, THE CONTRACTOR SHALL EXAMINE ALL PROJECT DRAWINGS AND SPECIFICATIONS TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING. FAILURE TO DO THIS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM ALL REQUIRED WORK. THE CONTRACTOR SHALL ADVISE THE PROFESSIONAL OF ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED.

GENERAL DEMOLITION NOTES

1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
3. PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER OPT TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE, AND BE DISPOSED OF IN A LEGAL MANNER.
4. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
5. MAINTAIN EXISTING UTILITIES INDICATED OR WHERE REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.
6. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
7. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
8. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
9. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERRECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
10. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY, THEY SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ENGINEER FOR DIRECTIONS.
11. EXTREME CARE SHALL BE EXERCISED FOR ALL EXISTING ITEMS THAT ARE TO REMAIN IN SERVICE UNTIL NEW ITEMS ARE INSTALLED FOR THE SAME SERVICE. ALL SHUTDOWNS OF ANY SYSTEM SHALL BE COORDINATED WITH THE OWNER.
12. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK

FIRE WATCH AND SCHEDULING REQUIREMENTS

1. PROJECT SCHEDULING MUST BE COORDINATED WITH THE LOCAL AUTHORITIES HAVING JURISDICTION 2 WEEKS BEFORE PROJECT IS TO START.
2. CONTRACTOR IS TO SUBMIT CONSTRUCTION SCHEDULE AND TIMES TO BOTH ENGINEER/ARCHITECT AND LOCAL AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL.
3. A FIRE WATCH WILL BE REQUIRED DURING SYSTEM DOWNTIME. CONTRACTOR IS RESPONSIBLE FOR DEACTIVATING SYSTEM AND ACTIVATING SYSTEM ONCE PROJECT IS COMPLETE AND APPROVED.
4. FIRE WATCH REQUIREMENTS ARE AS OUTLINED BY THE LOCAL AUTHORITIES HAVING JURISDICTION. THE PROCEDURES, AS OUTLINED BY THE LOCAL AUTHORITIES HAVING JURISDICTION, MUST BE FOLLOWED EXACTLY.
5. CONTRACTOR IS RESPONSIBLE FOR FIRE ALARM SYSTEM DEACTIVATION AND ACTIVATION ASSOCIATED WITH THE SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES.
6. MAXIMUM SYSTEM DOWN TIME IS 8HRS (FROM 8AM TO 4PM ON A WEEKDAY). CONTRACT REQUIREMENTS INCLUDE FULL COORDINATION WITH THE OWNER AND THE LOCAL AUTHORITIES HAVING JURISDICTION.

LIST OF DRAWINGS

FP-001 FIRE PROTECTION COVER SHEET
FP-100 FIRE PROTECTION NEW WORK FLOOR PLAN

SYMBOL AND ABBREVIATION LEGEND

Table with 4 columns: Symbol, Abbreviation, Description, and Symbol. Includes entries for BFP (Back Flow Preventer), CA (Compressed Air), DN (Down), DW (Dishwasher), EC (Electrical Contractor), FD-A (Floor Drain), FS (Flow Switch), GC (General Contractor), MAX (Maximum), MIN (Minimum), MC (Mechanical Contractor), M (Monitored), N (New Work), NC (Normally Closed), NO (Normally Open), NTS (Not to Scale), NIC (Not in Contract), OS&Y (Outside Screw & Yoke Gate Valve), PC (Plumbing Contractor), PRV (Pressure Reducing Valve).

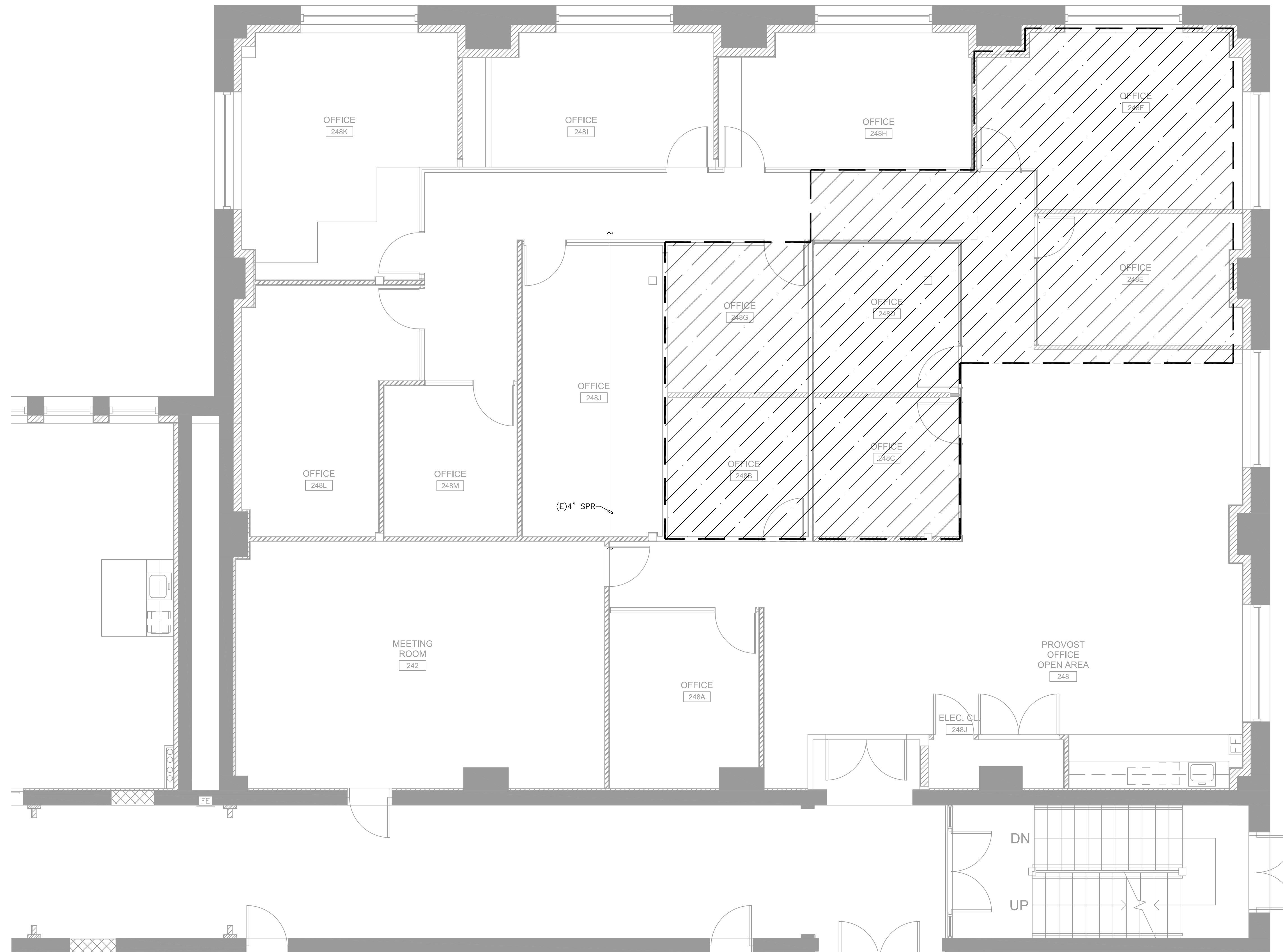
Revisions / Issues table with columns: No., Date, Description.

DIGroupArchitecture ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA #11415, NY RA #41541
Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043
Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043
Drawing Information:
Project No: 23.067
MSU Project No: PR 230064
Date: 09/15/2023
Drawn By: AH
Checked By: RLD
Sheet Name:
FIRE PROTECTION COVER SHEET
Sheet No:

M/E/P Engineer:
SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A
RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL
ENGINEER
LICENSE NO.: GE45368

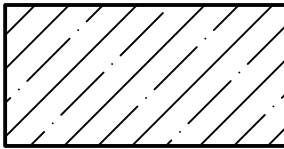
FP-001



SPRINKLER NOTES:

1. PIPING 2" AND SMALLER SHALL BE THREADED BLACK STEEL SCH. 40, 2-1/2" AND LARGER SHALL BE SCH. 40 GROOVED BLACK STEEL WITH VICTAULIC FITTINGS.
2. CONTRACTOR TO REMOVE SPRINKLER HEADS AND REMOVE, EXTEND AND MODIFY SPRINKLER MAIN AND BRANCH PIPING AS REQUIRED TO ACCOMMODATE NEW CEILING GRID, WALL LAYOUTS, AND DUCTWORK IN AREA INDICATED.
3. COORDINATE LOCATION OF PIPING AND SPRINKLER HEADS WITH ALL LIGHTING, EQUIPMENT DUCTWORK, STRUCTURAL, ETC.
4. SPRINKLER HEADS TO BE CONCEALED PENDENT QUICK RESPONSE TYPE.
5. ALL SPRINKLER HEADS INSTALLED IN CEILING TILES ARE TO BE CENTERED.
6. CONTRACTOR SHALL COMPLETE SPRINKLER REPLACEMENT IN ALL AREAS SHOWN AS HATCHED ON THE DRAWINGS. THE UNIVERSITY WILL NOT PROVIDE A FIRE WATCH FOR THIS PROJECT. THE EXISTING AND NEW SPRINKLER SYSTEMS SHALL REMAIN ACTIVE DURING CONSTRUCTION. THE SPRINKLER SYSTEM SHALL BE DRAINED ON A DAILY BASIS TO PERFORM THE DEMOLITION AND NEW SPRINKLER WORK, AS REQUIRED AND THE SPRINKLER SYSTEM SHALL BE RE-FILLED EACH NIGHT, PRIOR TO THE CONTRACTOR LEAVING THE SITE, SO THE SYSTEM IS ACTIVE OVERNIGHT.

COVERAGE LEGEND

 REMOVE SPRINKLER HEADS AND PIPING AND REPLACE WITH NEW LIGHT HAZARD COVERAGE AS REQUIRED TO ACCOMMODATE NEW LAYOUT IN THIS AREA. ALL NEW PIPING AND HEADS ARE TO BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA 13-2019.

No.	Date	Description
10/09/23	Permit and Construction	
09/15/23	Permit and Construction	

Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA AI 11415, NY RA 041541

1 FIRE PROTECTION DEMOLITION AND NEW WORK FLOOR PLAN
SCALE: 1/4"=1'-0"

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043

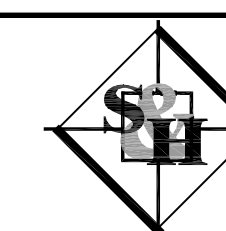
Drawing Information:
Project No: 23.067
MSU Project No: PR 23C064
Date: 09/15/2023
Drawn By: AH
Checked By: RLD

Sheet Name:
FIRE PROTECTION DEMOLITION AND NEW WORK FLOOR PLAN

Sheet No:

FP-100

M/E/P Engineer:



SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NO.: GE45368

ABBREVIATIONS

SPECIFICATIONS

GENERAL NOTES WORK NOTES

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes entries like 1P ONE POLE, 2P TWO POLE, 3P THREE POLE, etc.

Table with 2 columns: Abbreviation, Description. Includes entries like MCA MINIMUM CIRCUIT AMPACITY, MCB MAIN CIRCUIT BREAKER, MDF MAIN DISTRIBUTION FRAME, etc.

- 1. PRIOR TO BIDDING, THE CONTRACTOR SHALL EXAMINE ALL PROJECT DRAWINGS AND SPECIFICATIONS TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING. FAILURE TO DO THIS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM ALL REQUIRED WORK. THE CONTRACTOR SHALL ADVISE THE PROFESSIONAL OF ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED.

SYMBOL LEGEND

- [E] LIGHTING CIRCUITING INFORMATION. IN THIS EXAMPLE, FIXTURE SHALL BE CONTROLLED BY CONTROL LEG "a". ALL FIXTURES SHALL BE WIRED WITH 2#16AWG WIRING FOR 0-10V DIMMING WITH BRANCH CIRCUIT CONDUCTORS, OR USE OF METAL-CLAD LUMINARY CABLE MAY BE USED WHERE WIRING IS CONCEALED.

- A. BASIC ELECTRICAL MATERIALS AND METHODS
1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE AS ADOPTED BY THE NJUCC, ANY APPLICABLE LOCAL CODES, IBC, NFPA AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.

DEMOLITION NOTES

- 1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO DEMOLITION.
2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.

LIST OF DRAWINGS

Table with 2 columns: Drawing ID, Description. Includes entries like E-001 ELECTRICAL COVER SHEET, ED-100 ELECTRICAL DEMOLITION FLOOR PLAN, etc.

Professional Engineer information for Richard L. Delp, PE, New Jersey Professional Engineer License No. GE45368. Includes company logo for Schiller and Hersh Associates, Inc.

Table with 2 columns: No., Date, Description. Includes entries for 10/09/23 Permit and Construction, 09/15/23 Permit and Construction.



15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA #11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043

Drawing Information:
Project No: 23.067
MSU Project No: PR 230C064
Date: 09/15/2023
Drawn By: JDB
Checked By: RLD

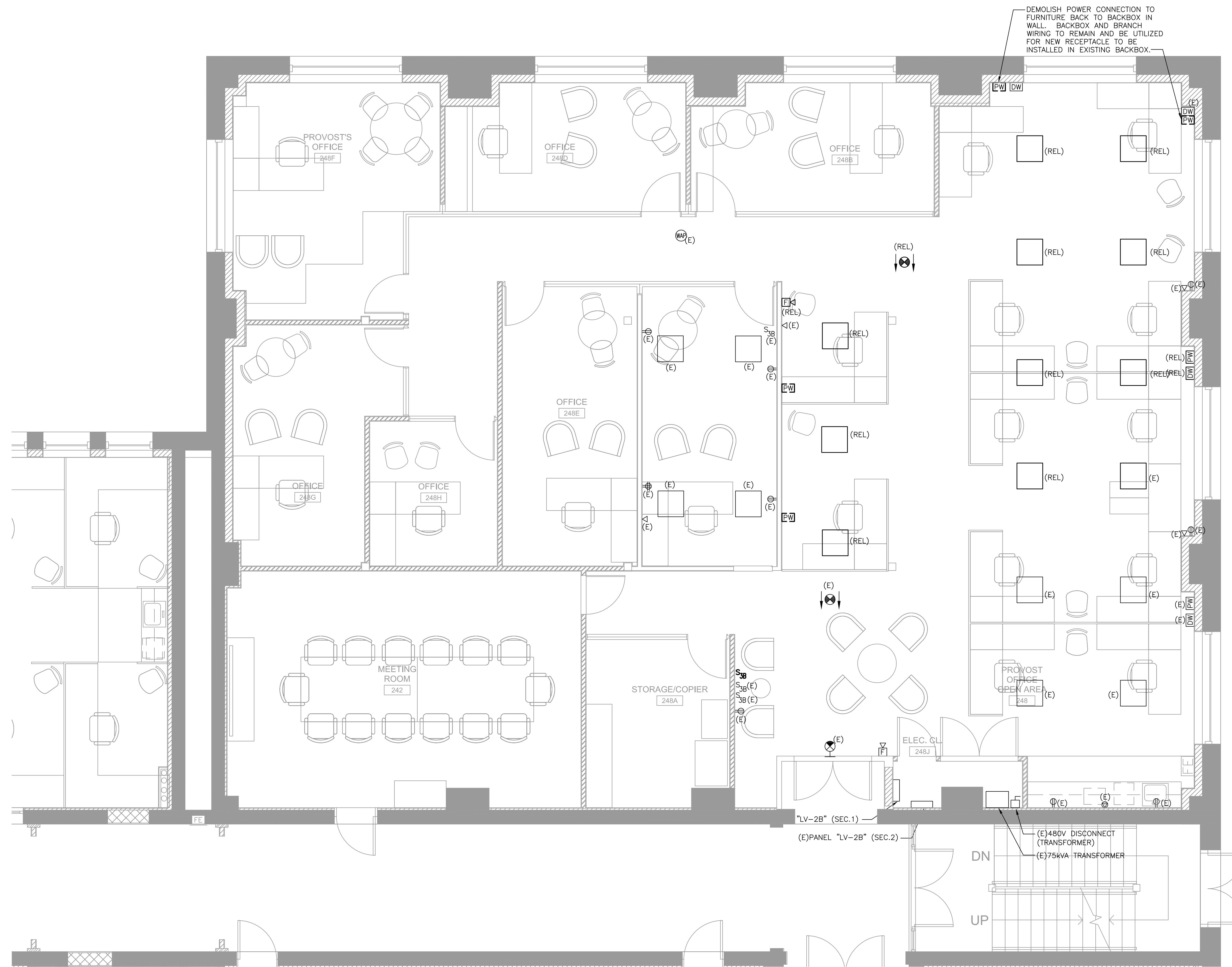
Sheet Name:
ELECTRICAL COVER SHEET

Sheet No:

E-001

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWINGS E-001 & E-002.
2. ALL WORK SHOWN ON THIS DRAWING IS TO BE DEMOLISHED, UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REINSTALL (RAR), OR RELOCATED (REL).
3. ALL DEVICES SHOWN TO BE REMOVED AND REINSTALLED (RAR) OR TO BE RELOCATED (REL), SHALL BE PROTECTED AND STORED BY THE CONTRACTOR DURING CONSTRUCTION, AND THEN SHALL BE REINSTALLED AFTER CEILING OR ABOVE CEILING WORK IS COMPLETED.
4. ALL DEVICES SHOWN TO BE DEMOLISHED SHALL HAVE ASSOCIATED WIRING REMOVED BACK TO SOURCE PANEL, UNLESS CONNECTED TO EXISTING-TO-REMAIN DEVICES/EQUIPMENT (NOT ALL DEVICES ARE SHOWN). AS NEEDED, MAINTAIN CIRCUIT INTEGRITY BY RE-WIRING OR MAINTAINING EXISTING WIRING TO KEEP EXISTING DEVICE(S) ACTIVE.
5. CONTRACTOR IS RESPONSIBLE TO REPLACE ANY WIRING NOTED ABOVE, THAT IS DAMAGED OR REMOVED BY THE CONTRACTOR.
6. CONTRACTOR IS RESPONSIBLE TO PATCH ALL HOLES OR OPENINGS IN EXISTING WALLS AFTER DEMOLITION, INCLUDING EXISTING FIRE RATED WALLS, ABOVE AND BELOW CEILING, TO MAINTAIN INTEGRITY OF THE FIRE RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED WALLS.



1 ELECTRICAL DEMOLITION WORK FLOOR PLAN
 SCALE: 1/4"=1'-0"

No.	Date	Description
10/09/23		Permit and Construction
09/15/23		Permit and Construction

DiGroupArchitecture
 ARCHITECTURE FOR CHANGE
 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
 1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
 NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Montclair State University
 1 Normal Avenue
 Montclair, NJ 07043

Project:
 Renovation of Provost's Office at Cole Hall
 Lot # _____ Block # _____
 1 Normal Avenue
 Montclair, NJ 07043

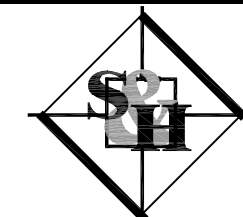
Drawing Information:
 Project No: 23.057
 MSU Project No: PR 23C064
 Date: 09/15/2023
 Drawn By: JDB
 Checked By: RLD

Sheet Name:
ELECTRICAL DEMOLITION FLOOR PLAN

Sheet No:

ED-100

M/E/P Engineer:



SCHILLER AND HERSH ASSOCIATES, INC.
 Consulting M/E/P Engineers
 636 Skippack Pike, Suite 200
 Blue Bell, PA 19422
 Certificate of Authorization: 24GA28014000
 S&H JOB #2364A

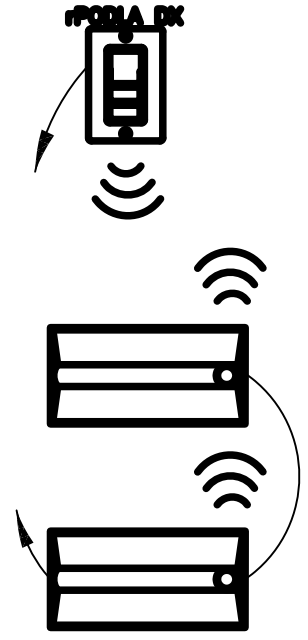
RICHARD L. DELP, PE
 NEW JERSEY PROFESSIONAL ENGINEER
 LICENSE NO.: GE45368

LIGHTING FIXTURE SCHEDULE													
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	ALTERNATE MANUFACTURERS	VOLTS	LIGHT ENGINE				DRIVER	MOUNTING	WARRANTY	REMARKS	
					LUMENS	WATTS	COLOR	HOURS	SLT	TYPE			
A1	FINEUTE	HPRL LED 2X2 DCO B 839 27 3C 1% ELDOLED EODRIVE 90 LED C2 NLIGHT AIR SENSOR - RECY G2	NO SUBSTITUTIONS TO MATCH EXISTING FIXTURES	277V	4367	37.1	35K	100,000	LED	0-10V	RECESSED	10 YEAR	2X2 ARCHITECTURAL TROFFER WITH CENTER CHANNEL LENS AND DOOR FRAME WITH INTEGRAL nLIGHT AIR OCCUPANCY SENSOR.
B1	H.E. WILLIAMS	60R-TL-15/835-DM-UV-0-W-0F-CS	OR APPROVED EQUAL	277V	1497	13.8	35K	60,000	LED	0-10V	RECESSED	5 YEAR	1" RECESSED LED DOWNLIGHT. MATCH FIXTURE DIAMETER AND FINISH WITH EXISTING RECESSED DOWNLIGHTS IN SPACE.

2 LIGHTING FIXTURE SCHEDULE
NO SCALE

- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWINGS E-001 & E-002.
 - ALL WORK SHOWN ON THIS DRAWING IS TO BE NEW WORK, UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REINSTALL (RAR), OR RELOCATED (REL).
 - RE-WIRE NEW AND RELOCATED (REL) LIGHTING TO EXISTING LIGHTING CIRCUITS VIA NEW LIGHTING CONTROLS.
 - CONTRACTOR SHALL BE RESPONSIBLE TO REPROGRAM ALL EXISTING ACUITY LIGHTING CONTROLS IN RENOVATED AREAS TO ACCOMMODATE NEW LIGHTING CONTROLS, RELOCATION OF FIXTURES, AND NEW WALL PARTITIONS.

- KEY NOTES:**
- EXISTING nLIGHT ENABLED FIXTURE TO BE WIRED TO EXISTING n-LIGHT LIGHTING CONTROL SYSTEMS IN OPEN OFFICE AREA.
 - EXISTING nLIGHT ENABLED FIXTURE TO BE WIRED TO NEW n-LIGHT LIGHTING CONTROL SYSTEM IN PRIVATE OFFICE.

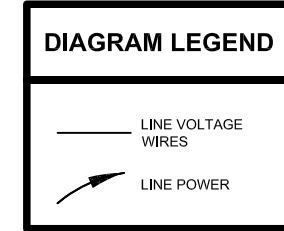


SEQUENCE OF OPERATION:

LIGHTS
- ALL LIGHTS ARE DIMMABLE
- ALL FIXTURES ARE CONTROLLED TOGETHER

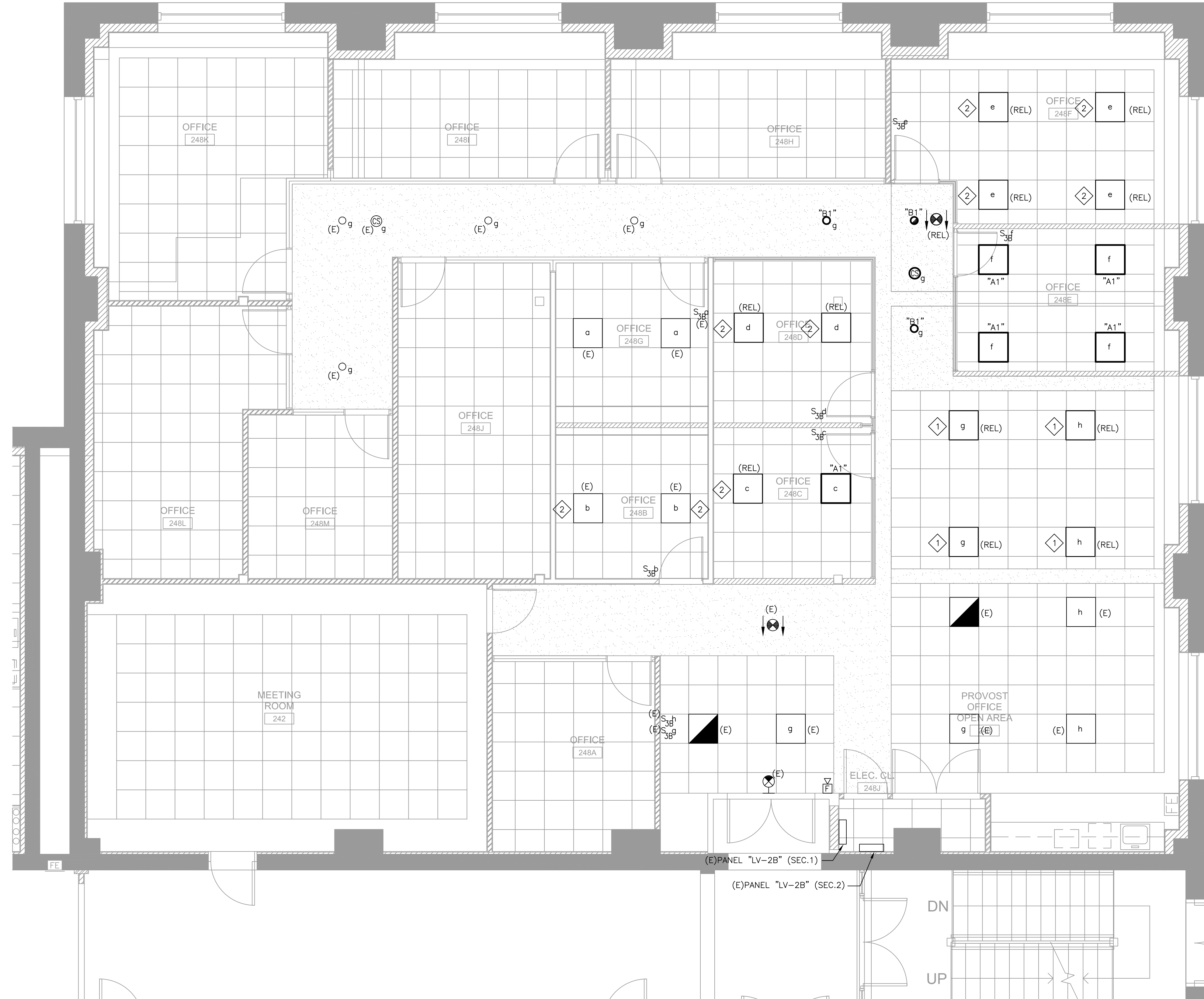
OCCUPANCY
- LIGHTS MUST BE TURNED ON MANUALLY
- LIGHTS AUTOMATICALLY TURN OFF WHEN ROOM BECOMES VACANT

MANUAL
- ON/OFF & RAISE/LOWER CONTROL OF LIGHTS



BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
AS PER	SEE LIGHTING	nLIGHT AIR ENABLED TROFFER w/
WOOD PLANS	FIXTURE SCHEDULE	SENSOR DETECTOR
AS PER	MODEL# CK C2	ON/OFF & RAISE/LOWER LINE VOLTAGE
WOOD PLANS		CONTROL

3 TYPICAL LIGHTING CONTROL DIAGRAM
NO SCALE



1 ELECTRICAL NEW WORK FLOOR PLAN
SCALE: 1/4"=1'-0"

No.	Date	Description
10/09/23		Permit and Construction
09/15/23		Permit and Construction

DIGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:

Montclair State University
1 Normal Avenue
Montclair, NJ 07043

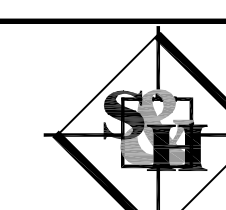
Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043

Drawing Information:
Project No: 23.057
MSU Project No: PR 23C064
Date: 09/15/2023
Drawn By: JDS
Checked By: RLD

Sheet Name:
**ELECTRICAL NEW WORK
LIGHTING
FLOOR PLAN**
Sheet No:

E-100

M/E/P Engineer:



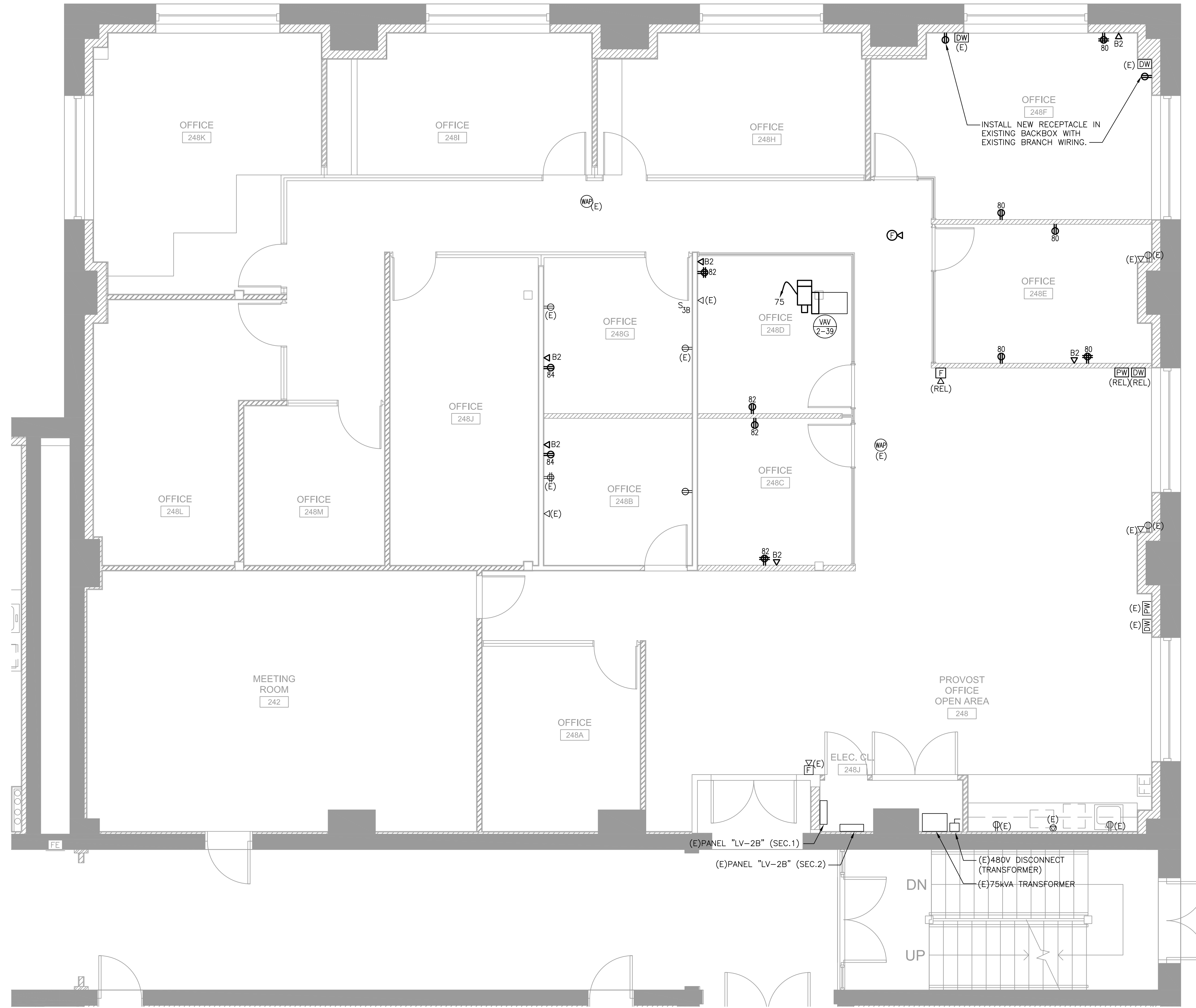
SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL
ENGINEER
LICENSE NO.: GE45368

PANEL SCHEDULE FOR (E) PANEL "LV-2B" (SEC.2) 120/200V, 3PH, 4W, 225A BUS, 225A MLO											SURFACE MOUNTED		
CKT NO	CIRCUIT POLE	AMP	REMARKS	A	B	C	A	B	C	REMARKS	AMP	CIRCUIT POLE	CKT NO
43	1	20	(E)COPIER-ROOM 223	1000						SPARE	20	1	44
45	1	20	SPARE		0				1200	(E)HAND DRYER-ROOM 2801	20	1	46
47	1	20	(E)HAND DRYER ROOM 225			1200			1200	(E)HAND DRYER-ROOM 2803	20	1	48
49	1	20	(E)COPIER-2801	1000					1200	(E)HAND DRYER-ROOM 2803	20	1	50
51	1	20	(E)HAND DRYER ROOM 2802		1200				1000	(E)RECEPTACLE-ROOM 241	20	1	52
53	1	20	(E)RECEPTACLES-ROOM 241			1000			1200	(E)VIDEO DISPLAY RECEPTACLES 241	20	1	54
55	1	20	(E)VIDEO DISPLAY RECEPTACLES-ROOM 2001	1000					1000	(E)RECEPTACLES-ROOM 242	20	1	56
57	1	20	(E)VIDEO DISPLAY RECEPTACLES 242		1200				1000	(E)VIDEO DISPLAY RECEPTACLES-ROOM 242	20	1	58
59	1	20	(E)VIDEO RECEPTACLES 242			1000			1000	(E)VIDEO DISPLAY RECEPTACLES-ROOM 242	20	1	60
61	1	20	(E)KITCHEN RECEPTACLES 249D	800					800	(E)COPIER	20	1	62
63	1	20	(E)RECEPTACLES 224B		600				800	(E)COPIER	20	1	64
65	1	20	(E)EXTERIOR RECEPTACLES (E-STAIR)			400			500	(E)MOTORIZED DOORS-ROOM 224	20	1	66
67	1	20	(E)VIDEO DISPLAY RECEPTACLE 249B	1000					800	UNKNOWN	20	1	68
69	1	20	(E)FLOOR BONES 224		1000				0	SPARE	20	1	70
71	1	20	(E)RECEPTACLES 224			800			800	UNKNOWN	20	1	72
73	1	20	(E)VAV-2-33 THRU VAV-2-32						1200	(E)COPY MACHINE #1	20	1	74
75	1	20	(E)VAV-2-33 THRU VAV-2-36 & VAV-2-39		600				1200	(E)COPY MACHINE #2	20	1	76
77	1	20	SPARE			0			0	SPARE	20	1	78
79				1000					1620	RECEPTACLES, OFFICE 248N AND 248M	20	1	80
81	2	20	(E)RANGE (LOCKABLE TYPE)		1000				1080	RECEPTACLES, OFFICE 248L AND 248K	20	1	82
RE	1	20	(E) ATM RECEPTACLE			800			180	RECEPTACLES, OFFICE 248C AND 248I	20	1	84
				6600	5600	5200	6620	6280	4880				
											PHASE A:	13.22	KVA
											PHASE B:	11.88	KVA
											PHASE C:	10.08	KVA
											TOTAL CONNECTED (SECTION 2):	35.18	KVA
											TOTAL CONNECTED (SECTION 1):	42.00	KVA
											NET DEMAND CALCULATION PER NEC 220-47:	43.89	KVA

- NOTES:**
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWINGS E-001 & E-002.
 - ALL WORK SHOWN ON THIS DRAWING IS TO BE NEW WORK, UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REINSTALL (RAR), OR RELOCATED (REL).
 - CONTRACTOR SHALL UNIVERSITY'S FIRE ALARM VENDOR TO PROVIDE ALL DEVICES, PROGRAMMING, AND TESTING OF EXISTING NOTIFIER FIRE ALARM PANEL. ALL NEW AND RELOCATED DEVICES SHALL BE TESTED PER NFPA 72 AT COMPLETION OF PROJECT. WIRE ALL NEW NOTIFICATION APPLIANCES WITH METALCLAD MC-FPLP FIRE ALARM CABLE, SIZING AS DETERMINED BY FIRE ALARM MANUFACTURER.

2 PANEL SCHEDULE
SCALE: NOT TO SCALE



1 ELECTRICAL NEW WORK FLOOR PLAN
SCALE: 1/4"=1'-0"

10/09/23 Permit and Construction
09/15/23 Permit and Construction
No. Date Description
Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
1417 N. 2nd St. Ste.3M • Philadelphia, PA 19122 • T: 215.634.3400

Vincent A. Myers, AIA
NJ RA AI 11415, NY RA 041541

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
Montclair State University
1 Normal Avenue
Montclair, NJ 07043

Project:
Renovation of Provost's Office at Cole Hall
Lot # Block #
1 Normal Avenue
Montclair, NJ 07043

Drawing Information:
Project No: 23.057
MSU Project No: PR 23C064
Date: 09/15/2023
Drawn By: JDB
Checked By: RLD

Sheet Name:
**ELECTRICAL NEW WORK
POWER/FIRE/COMM
FLOOR PLAN**

Sheet No:

M/E/P Engineer:

SCHILLER AND HERSH ASSOCIATES, INC.
Consulting M/E/P Engineers
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
Certificate of Authorization: 24GA28014000
S&H JOB #2364A

RICHARD L. DELP, PE
NEW JERSEY PROFESSIONAL
ENGINEER
LICENSE NO.: GE45368

E-200