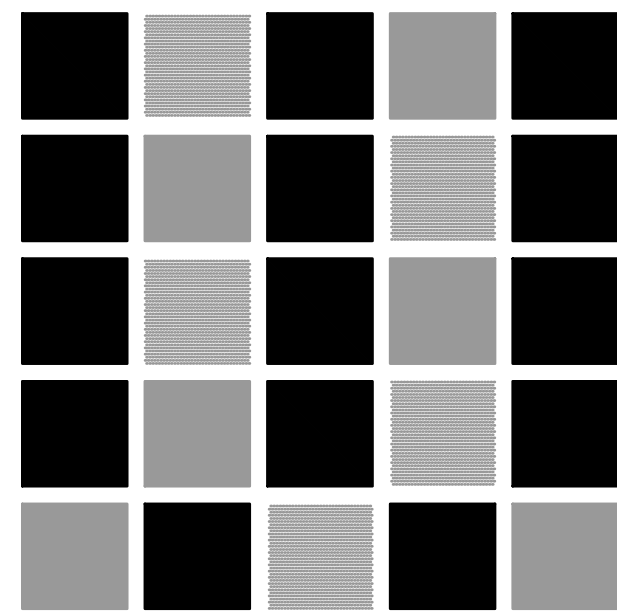


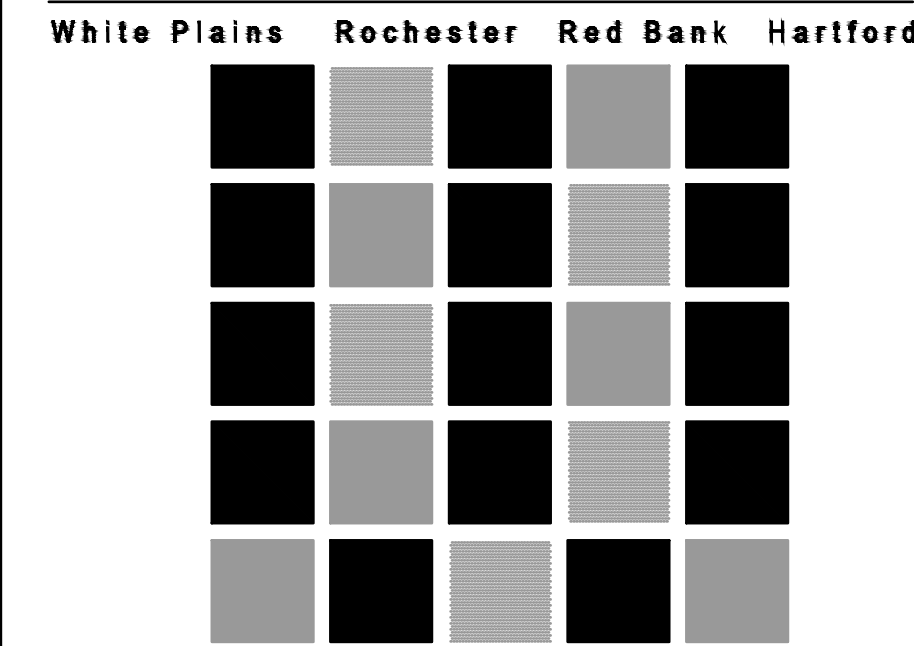


Westchester
Community College
State University of New York



Lothrop

Lothrop Associates LLP Architects
333 Westchester Avenue
White Plains, New York 10604
914-741-1115



Westchester
Community College
State University of New York

CYBER SECURITY LABORATORY RENOVATIONS

75 GRASSLAND RD, VALHALLA, NY 10595

WCC PROJECT # WCC-22-680

ARCHITECT:
LOTHROP ASSOCIATES LLP
333 WESTCHESTER AVENUE, WHITE PLAINS, NEW YORK 10604
510 CLINTON SQUARE, ROCHESTER, NEW YORK 14620
125 HALF MILE ROAD, SUITE 200, RED BANK, NEW JERSEY 07701
100 PEARL STREET, 14TH FLOOR, HARTFORD, CONNECTICUT 06103

MEP CONSULTANT:
COLLADO ENGINEERING
445 HAMILTON AVE SUITE 608
WHITE PLAINS, NY 10601

6	7-22-2022	BID ISSUE
5	6-24-2022	100% PROGRESS ISSUE
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2	12-23-2021	ISSUED FOR PROGRESS
1	12-16-2021	DESIGN PROGRESS OPTIONS
ISSUE NO.	ISSUE DATE	DESCRIPTION

VICINITY MAP

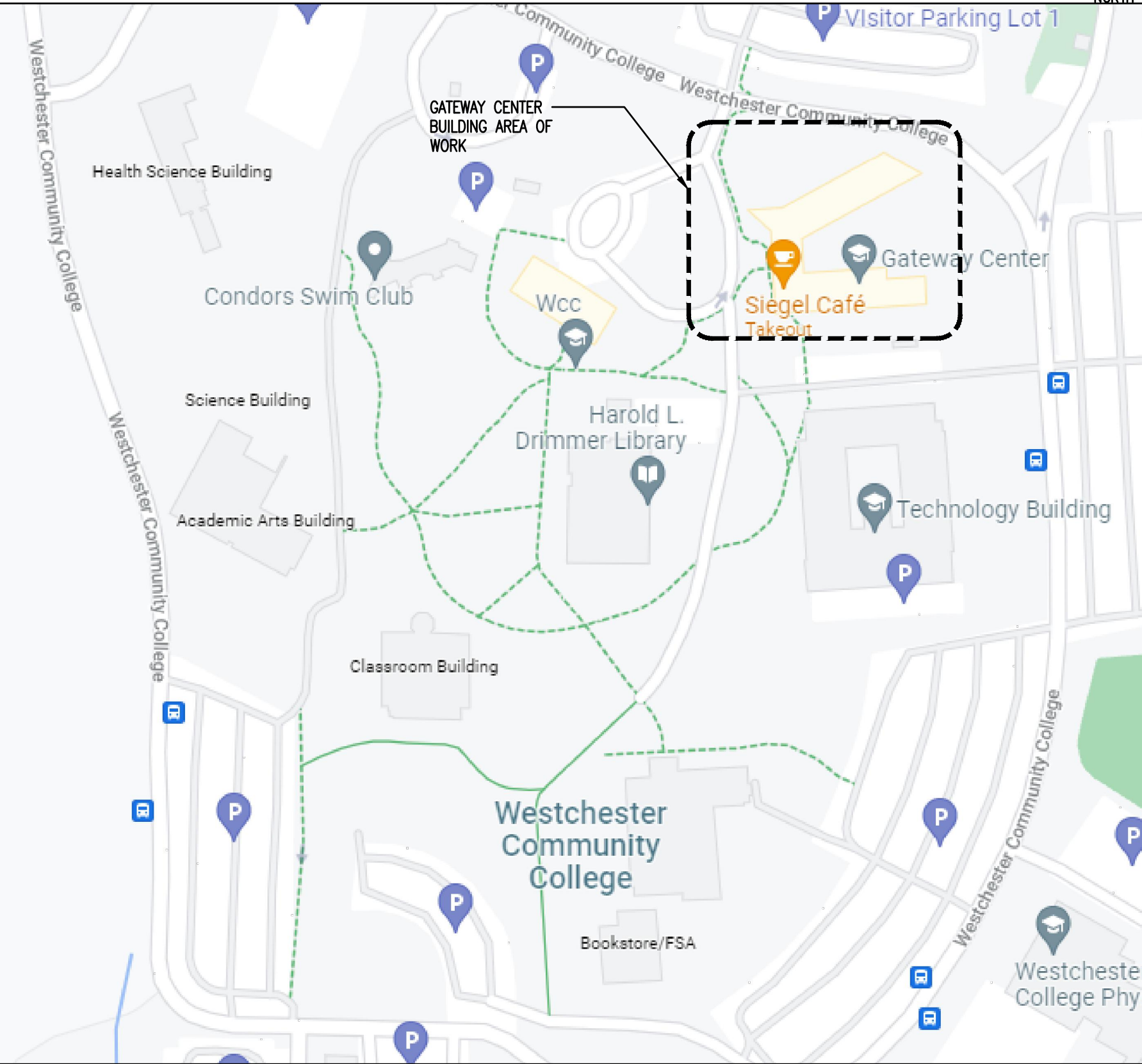
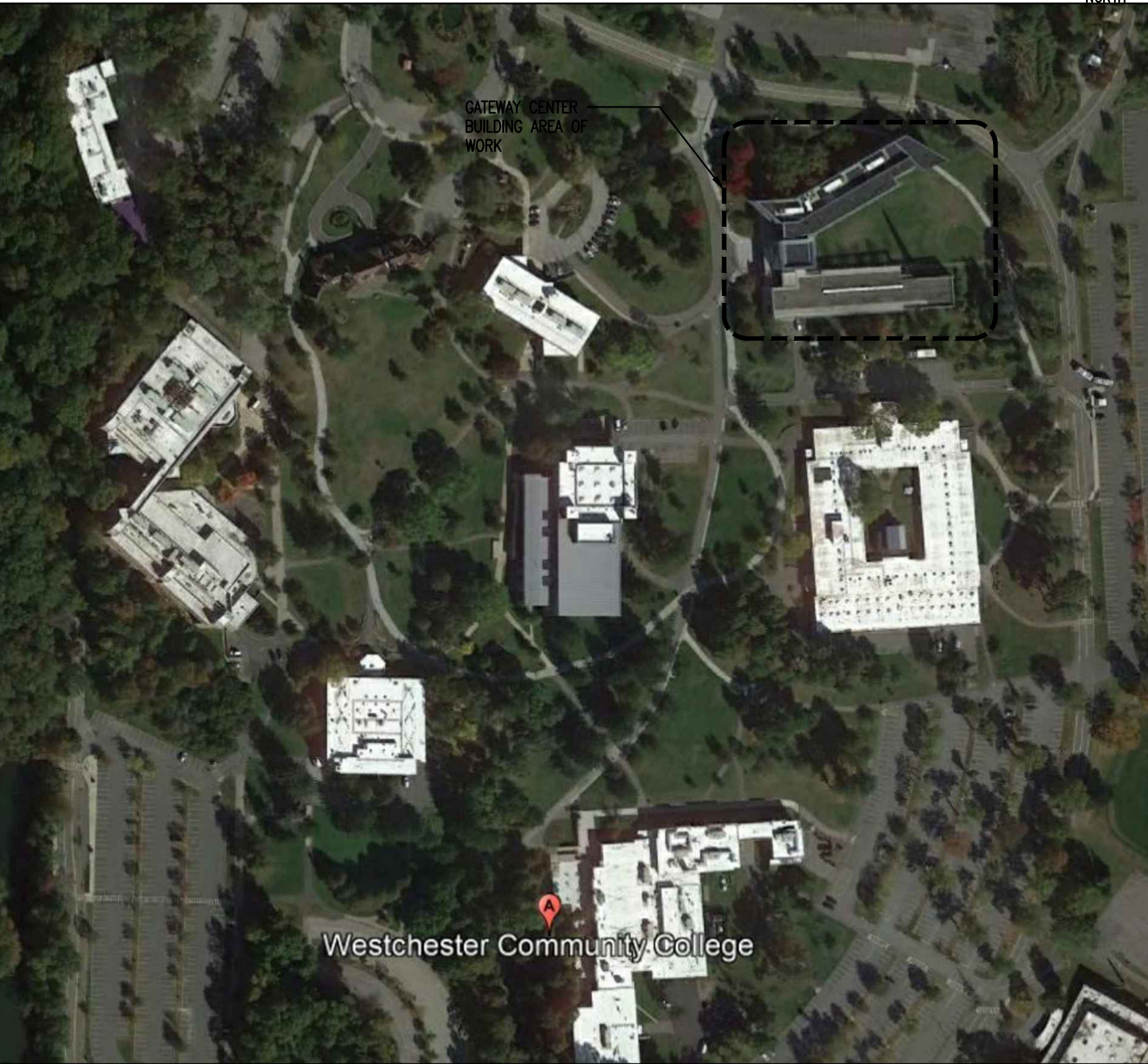


IMAGE MAP



LIST OF DRAWINGS

<u>ARCHITECTURAL</u>	
A000	COVER SHEET
A001	CAMPUS MAP, STAGING DETAILS, AND GENERAL NOTES
A101	DEMOLITION PLAN
A102	DEMOLITION REFLECTED CEILING PLAN
A111	CONSTRUCTION FLOOR PLAN
A121	CONSTRUCTION REFLECTED CEILING PLAN
A201	DEMOLITION ELEVATION
A211	CONSTRUCTION ELEVATION
A501	PARTITION TYPES
A801	DOOR SCHEDULE AND DETAILS
<u>MECHANICAL</u>	
M001	MECHANICAL COVER SHEET
M100	MECHANICAL EXISTING/CONSTRUCTION PLAN
M200	MECHANICAL SCHEDULES
M300	MECHANICAL DETAILS
<u>ELECTRICAL</u>	
E001	ELECTRICAL COVER SHEET
ED100	ELECTRICAL DEMOLITION PLAN
E100	ELECTRICAL POWER AND TEL/DATA PLAN
E200	ELECTRICAL RCP
E300	ELECTRICAL SCHEDULES AND DETAILS
E301	ELECTRICAL DETAILS

WESTCHESTER
COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

75 GRASSLAND RD
VALHALLA, NY 10595

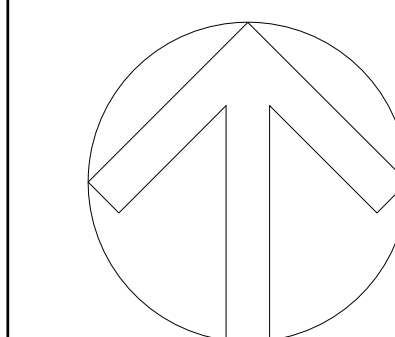
COVER SHEET

PROJECT NO.: 2467-00

DRAWING NO.:

A000

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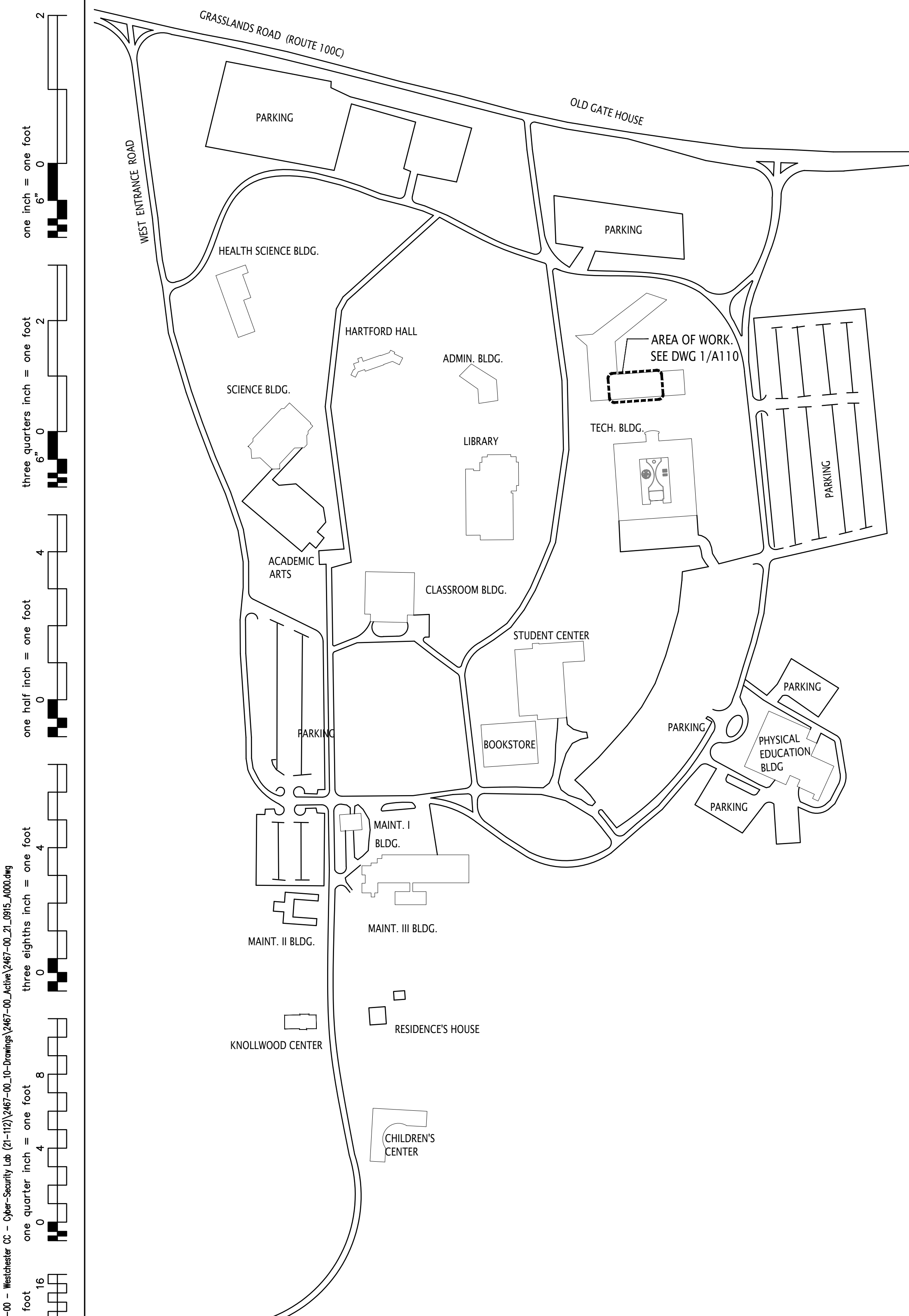
75 GRASSLAND RD
VALHALLA, NY 10595

CAMPUS MAP, STAGING DETAILS, AND GENERAL NOTES

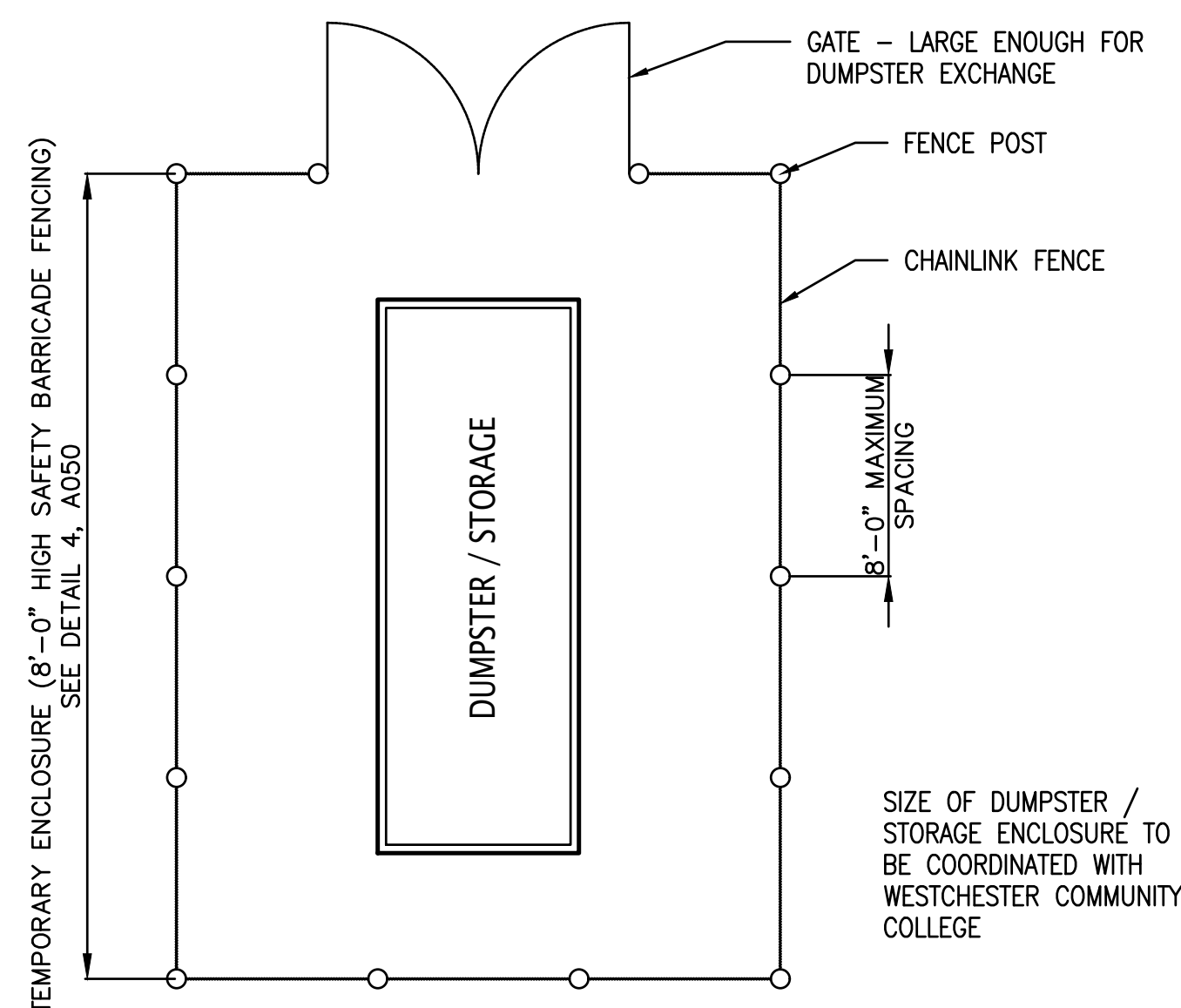
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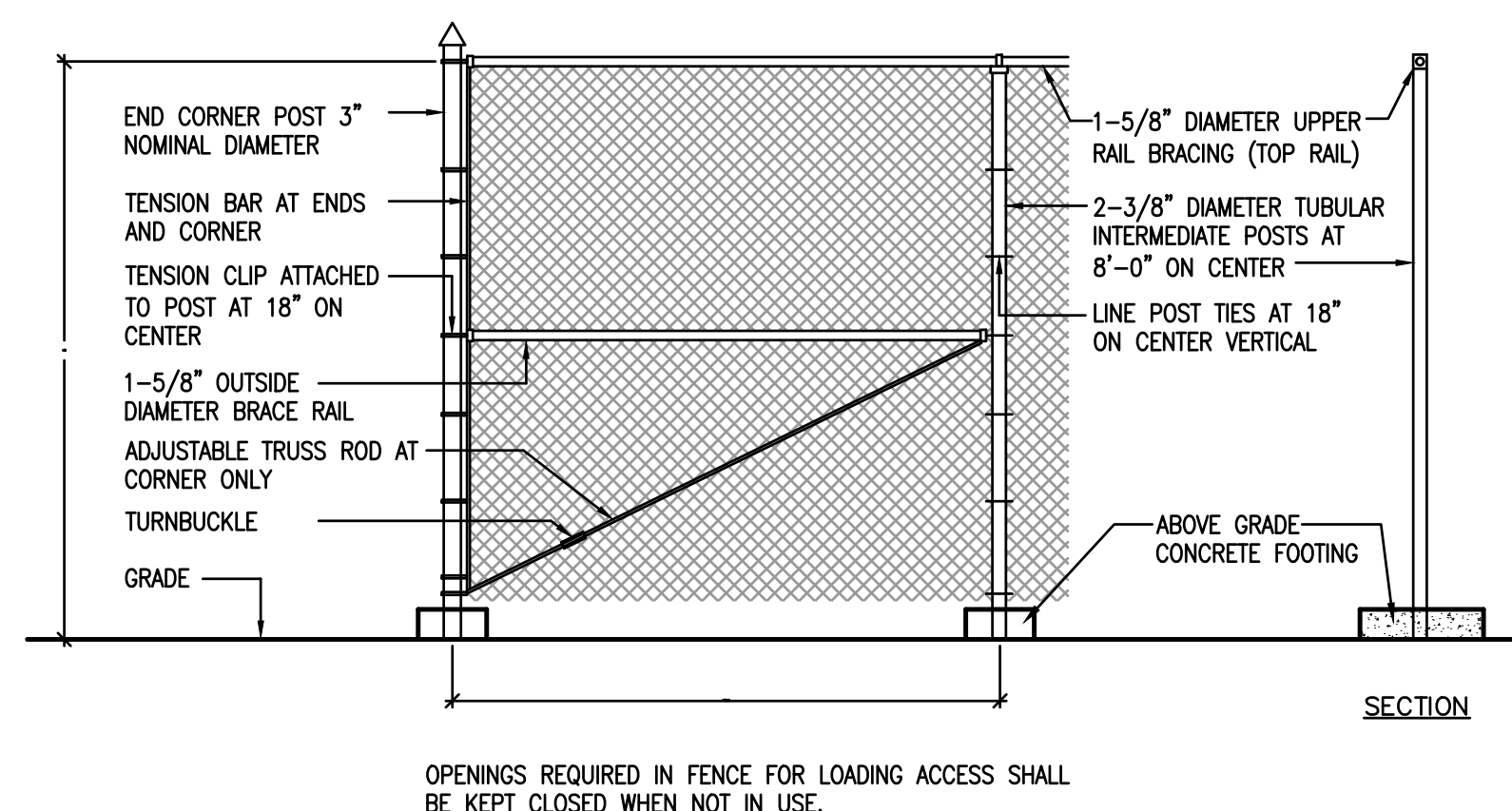
A001



1 WESTCHESTER COMMUNITY COLLEGE CAMPUS MAP
NTS



2 STAGING AREA DETAIL
N.T.S.



3 TEMPORARY FENCE DETAIL (TYPICAL FOR DUMPSTER AND STAGING AREA)
N.T.S.

- GENERAL CODE DATA:

OWNER: WESTCHESTER COMMUNITY COLLEGE
ADDRESS: VALHALLA, NEW YORK 10595
OCCUPANCY: MIXED OCCUPANCY - SEPARATED USE
BUSINESS - GROUP B
- OFFICES
- CLASSROOMS
- SEMINAR
- CAFE (ACCESSORY USE)
ASSEMBLY GROUP A-1
- LECTURE HALL

CONSTRUCTION CLASS:	2B	
NUMBER OF STORIES:	ALLOWED:	5 (WITH SPRINKLER)
ACTUAL:	3	
TOTAL BUILDING HEIGHT:	ALLOWED:	75'-0"
ACTUAL:	53'-6"	
MAXIMUM FLOOR AREA:	ALLOWED:	69,000 GSF (WITH SPRINKLER)
ACTUAL:	28,300 GSF	(TERRACE LEVEL)

FIRE RESISTANCE RATING: STRUCTURAL = 0
INTERIOR BEARING WALL = 0
FLOOR CONSTRUCTION = 0
ROOF CONSTRUCTION = 0

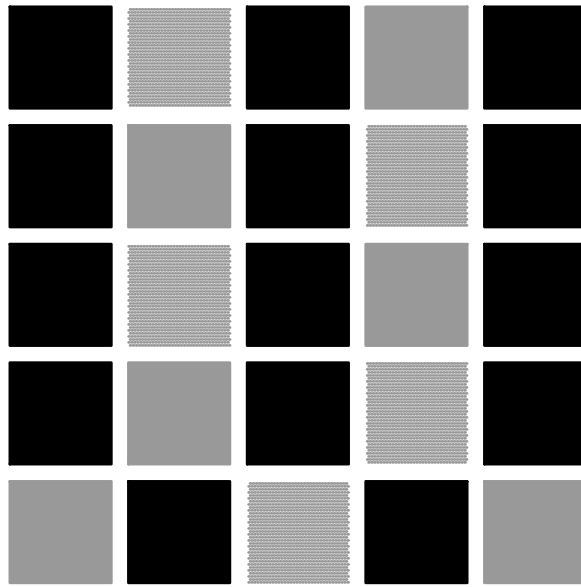
MAX TRAVEL DISTANCE: GROUP B (WITH SPRINKLER) = 300'-0"
GROUP A-1 (WITH SPRINKLER) = 250'-0"

MAX COMMON PATH OF TRAVEL: 100'-0"

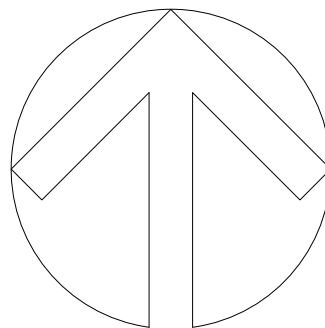
TOTAL OCCUPANT LOAD:	CAMPUS LEVEL=	880
	TERRACE LEVEL=	751
	THIRD LEVEL=	457
	TOTAL BUILDING=	2088

- GENERAL NOTES:

1. DO NOT OBSTRUCT VEHICLE ENTRANCES TO THE SITE OR OCCUPANT ACCESS TO BUILDINGS. MAINTAIN PEDESTAL ACCESS AT ALL TIMES.
2. PROTECT ALL PEDESTRIAN AREAS FROM POSSIBLE OVERHEAD FALLING DEBRIS.
3. SUBMIT PROPOSED STAGING AREA PLAN AND TEMPORARY PROTECTION BARRIER LAYOUT FOR APPROVAL PRIOR TO START OF PROJECT. COORDINATE LOCATION AND REQUIREMENTS WITH WESTCHESTER COMMUNITY COLLEGE REPRESENTATIVE.
4. MAINTAIN EXISTING SITE ELEMENTS (PAVING, FENCES, BUILDINGS, PLANTINGS, LAWNS, AND OTHER ELEMENTS). REPLACE OR REPAIR, ELEMENTS AND PLANTINGS DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF OWNER.
5. LEAVE SITE, AT THE END OF EACH WORK DAY, IN SAFE CONDITION.
6. MAINTAIN A SECURED AREA FOR CONSTRUCTION MATERIALS AND EQUIPMENT STORED ON SITE.
7. MAINTAIN ACCESS TO EMERGENCY EQUIPMENT AND ESCAPE ROUTES DURING CONSTRUCTION PERIOD.
8. EMPLOY SAFE CONSTRUCTION METHODS AND TAKE PRECAUTIONS DURING CONSTRUCTION AS REQUIRED BY LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION.
9. ACTIVE SERVICES, SUCH AS ELECTRICAL, PLUMBING, GAS, TELEPHONE, ETC. TO REMAIN UNINTERRUPTED UNLESS OTHERWISE COORDINATED WITH THE COLLEGE.
10. PROVIDE TARPED DUMPSTER FOR REMOVAL OF RUBBISH AND DEBRIS. ADEQUATELY PROTECT DUMPSTER DURING CONSTRUCTION.
11. CONSTRUCTION METHODS SHALL CONFORM TO STATE AND LOCAL RULES, REGULATIONS AND ORDINANCES AND WESTCHESTER COMMUNITY COLLEGE REQUIREMENTS.
12. PROVIDE AND MAINTAIN ANY AND ALL TEMPORARY PROTECTION REQUIRED BY WORK BEING PERFORMED TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AND PROTECTION OF PROPERTY;
13. KEEP EXTERIOR PUBLIC AREAS, ENTRANCES AND STAIR TOWER EXITS OF BUILDINGS FREE OF CONSTRUCTION MATERIALS AND DEBRIS.
14. AT PROJECT COMPLETION, REMOVE ALL CONSTRUCTION DEBRIS AND PATCH/REPAIR SURFACES DAMAGED BY CONSTRUCTION ACTIVITIES. THOROUGHLY CLEAN ALL WORK AREAS OF ALL DEBRIS RESULTING FROM WORK OF THIS PROJECT.
15. CONTRACTOR TO CONFIRM CONFIGURATION AND LOCATIONS OF OVERHEAD PROTECTION AND STAGING AREA WITH CAMPUS. OVERHEAD PROTECTION AND STAGING TO BE MODIFIED AS NEEDED TO AVOID EXISTING TREES.
16. DISCONNECTS, TEMPORARILY REMOVALS, RECONNECTS AND REINSTALLATION OF EQUIPMENT AND UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.



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WESTCHESTER
COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

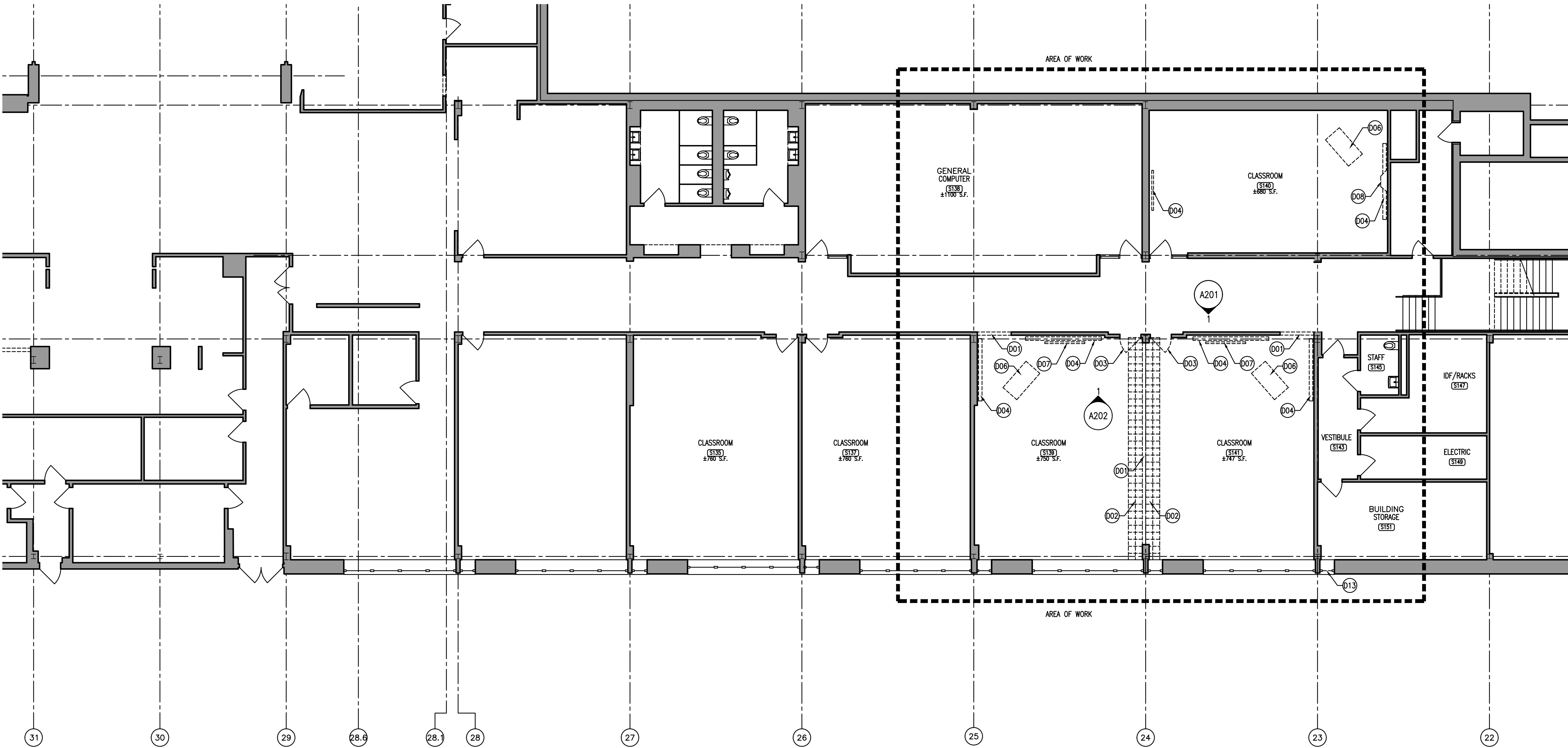
75 GRASSLAND RD
VALHALLA, NY 10595

DEMOLITION
PLAN

PROJECT NO.: 2467-00 SCALE: 1/8" = 1'-0"

DRAWING NO.:

A101



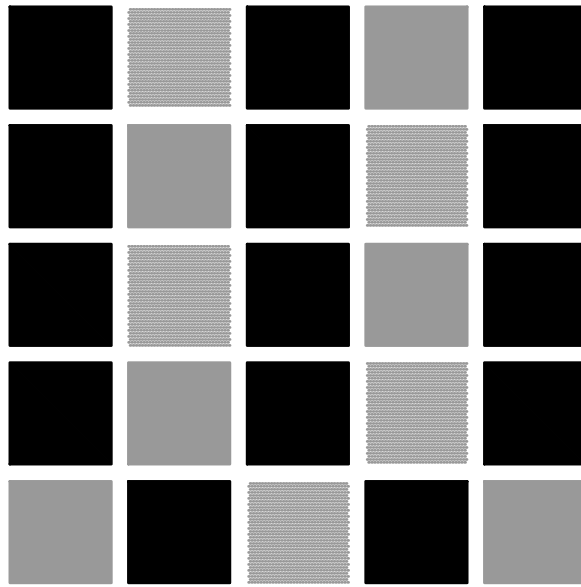
1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION LEGEND

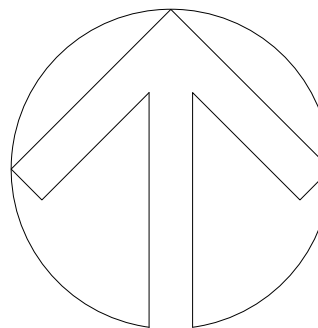
- EXISTING PARTITIONS TO BE REMOVED
- ===== EXISTING PARTITIONS AND ELEMENTS TO REMAIN
- EXISTING ITEMS TO BE REMOVED

DEMOLITION KEYED NOTES

- (D01) REMOVE WALL/PARTITION SYSTEM, BASE AND ACCESSORIES.
- (D02) REMOVE VINYL COMPOSITE TILE FLOORING.
- (D03) REMOVE DOOR, FRAME AND ASSOCIATED ELEMENTS. SALVAGE MORTISE LOCK, CYLINDER THUMB TURN AND CARD ACCESS READER.
- (D04) REMOVE AND SALVAGE WALL MOUNTED WHITE BOARD.
- (D06) REMOVE AND SALVAGE WALL MOUNTED MONITOR.
- (D06) REMOVE FLOOR MOUNTED LECTERN AND CONDUITS. SEE "E" DRAWINGS.
- (D07) REMOVE AND SALVAGE PROJECTOR SCREEN.
- (D08) REMOVE AND SALVAGE WALL MOUNTED PROJECTOR. SEE "E" DRAWINGS.
- (D09) REMOVE ROOM SIGN.
- (D10) REMOVE AND SALVAGE EMERGENCY LIGHT. SEE "E" DRAWINGS
- (D11) REMOVE AND SALVAGE ROOM SIGN.
- (D12) REMOVE AND SALVAGE FIRE ALARM DEVICE. SEE "E" DRAWINGS.
- (D13) REMOVE GLAZING. WINDOW FRAMING TO REMAIN. SEE 5,6/A801



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WESTCHESTER
COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

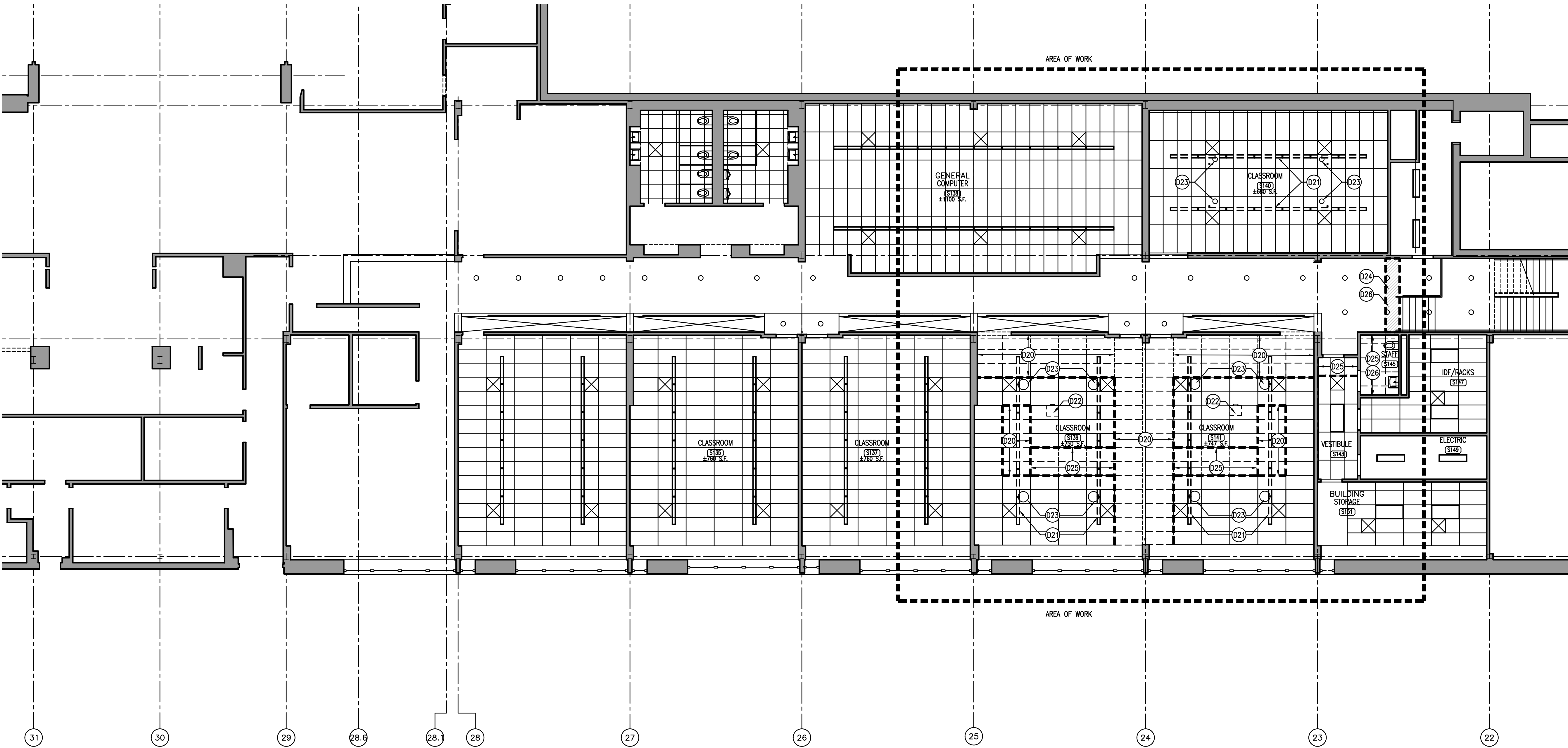
75 GRASSLAND RD
VALHALLA, NY 10595

DEMOLITION
REFLECTED CEILING
PLAN

PROJECT NO.: 2467-00 SCALE: 1/8" = 1'-0"

DRAWING NO.:

A102



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING DEMOLITION KEYED NOTES	
D20	REMOVE SUSPENDED CEILING SYSTEM INCLUDING GRID, HANGERS, AND TIES. SPRINKLER HEAD AND PIPE TO REMAIN.
D21	REMOVE LIGHT FIXTURES.
D22	REMOVE AND SALVAGE PROJECTOR.
D23	EXISTING SPEAKER TO REMAIN.
D24	REMOVE SECTION OF GYPSUM CEILING. SEE X/XXX
D25	REMOVE AND SALVAGE CEILING TILES FOR ACCESS FOR MECHANICAL INSTALLATION. SEE MEP DRAWINGS.
D26	REMOVE AND SALVAGE LIGHT FIXTURE.

REFLECTED CEILING DEMOLITION LEGEND	
---	EXISTING ITEMS TO REMAIN
----	EXISTING CEILING GRID TO BE REMOVED
----	EXISTING ITEMS TO BE REMOVED

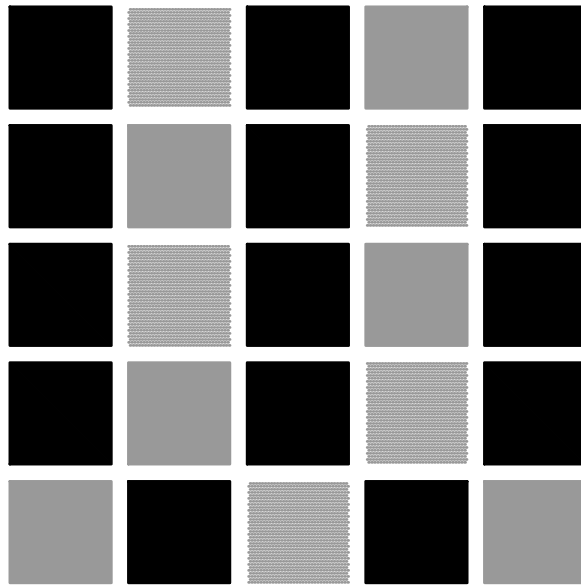
CONSTRUCTION FLOOR PLAN

A111

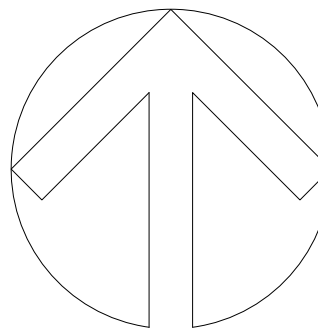


	ROOM NUMBER DESIGNATIONS
	1-HOUR RATED FIRE BARRIER
	2-HOUR RATED FIRE BARRIER
	1-HOUR RATED FIRE PARTITION
	WINDOW/LOUVER TAG - SEE WINDOW SCHEDULE
	WALL MOUNTED FIRE EXTINGUISHER CABINET
	SEMI-RECESSED FIRE EXTINGUISHER CABINET
	WALL TYPE
	FIXTURE TAG. REFER TO PLUMBING FIXTURE, ELECTRICAL FIXTURE AND TOILET ACCESSORY SCHEDULES
	FINISH TAG. REFER TO FINISH SCHEDULE
	GFCI RECEPTACLE
	LIGHT / FAN SWITCH
	INTERIOR ELEVATION TAG
	DOOR TAG. REFER TO DOOR SCHEDULE

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ISSUE NO.	ISSUE DATE	DESCRIPTION
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WESTCHESTER
COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

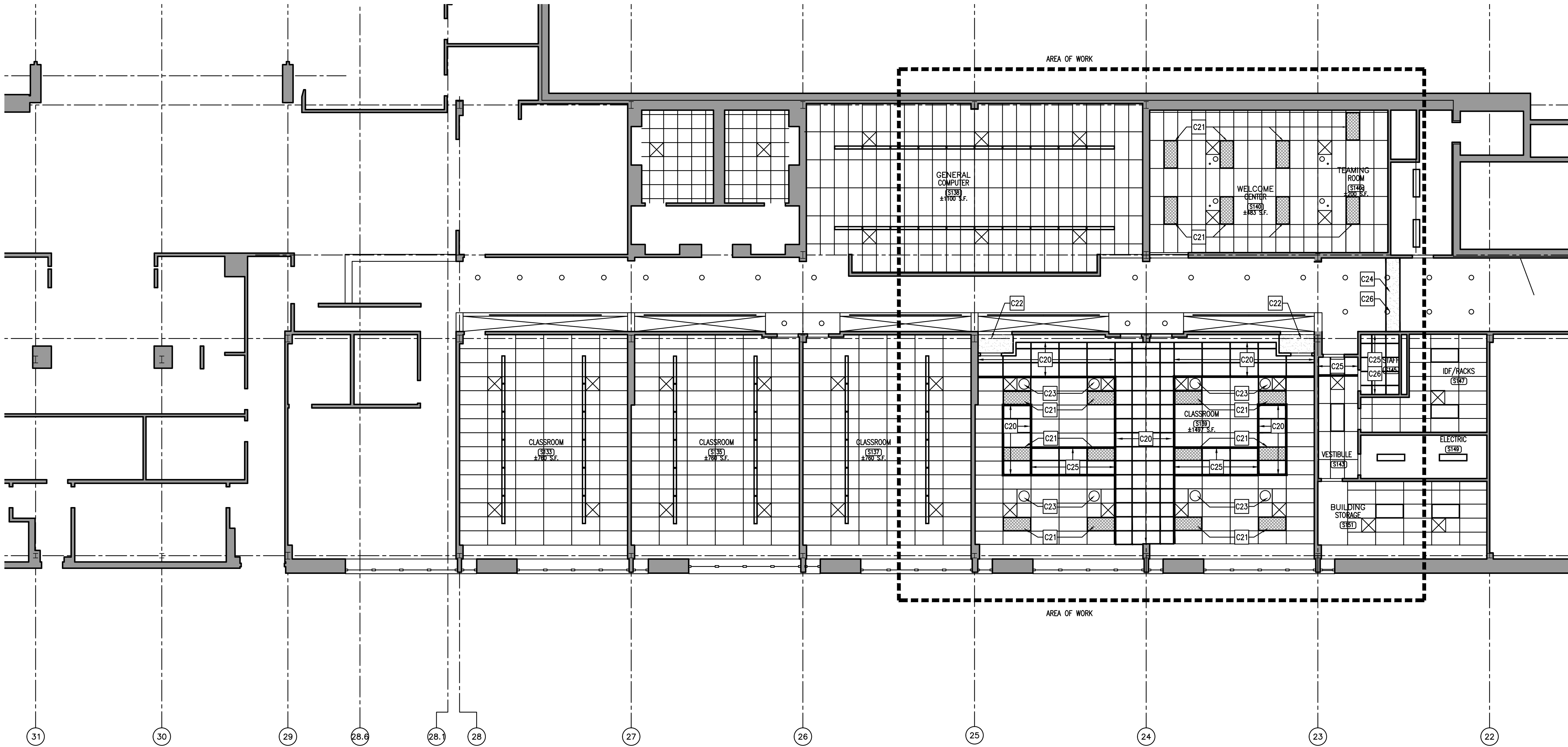
75 GRASSLAND RD
VALHALLA, NY 10595

CONSTRUCTION
REFLECTED CEILING
PLAN

PROJECT NO.: 2467-00 SCALE: 1/8" = 1'-0"

DRAWING NO.:

A121



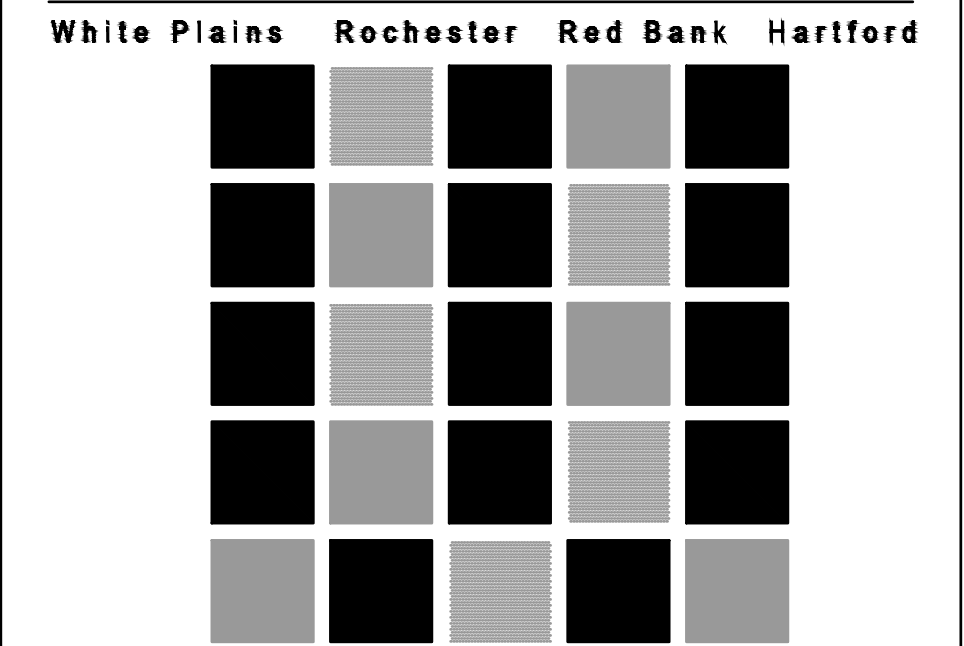
1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING CONSTRUCTION KEYED NOTES

C20	PROVIDE SUSPENDED CEILING SYSTEM INCLUDING GRID, HANGERS, AND TIES. MATCH EXISTING.
C21	PROVIDE LIGHT FIXTURE. SEE "E" DRAWINGS.
C22	GYPSUM CEILING. SEE 4/A801
C23	EXISTING SPEAKER TO REMAIN.
C24	PROVIDE NEW SECTION OF GYPSUM CEILING. SEE 3/A501
C25	REINSTALL SALVAGED CEILING TILES. REPLACE ALL DAMAGED CEILING TILES.
C26	REINSTALL SALVAGED LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

REFLECTED CEILING CONSTRUCTION LEGEND

	2'x2' CEILING RECESSED LED LIGHT FIXTURE
	SPEAKER
	WALL OR CEILING MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS. DIRECTIONAL ARROWS WHEN INDICATED.
	EXHAUST FAN (SEE MECHANICAL DRAWINGS)
	SWITCH 0 3'9" ABOVE FINISHED FLOOR. NUMBER OF SYMBOLS DOES NOT INDICATE QUANTITY
	AUDIO AND VISUAL FIRE ALARM
	FIRE ALARM PULL STATION
	SMOKE DETECTOR
	SPRINKLER HEAD
	MOTORIZED ROLLER SHADE
	MANUAL ROLLER SHADE
	GRID START - MAY BE LOCATED AT THE INTERSECTION OF CEILING GRID, THE CENTER OF A TILE OR THE CENTER EDGE OF A TILE - SEE PLANS
	CEILING MOUNTED PROJECTOR



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WESTCHESTER
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CYBER SECURITY LABORATORY
RENOVATIONS

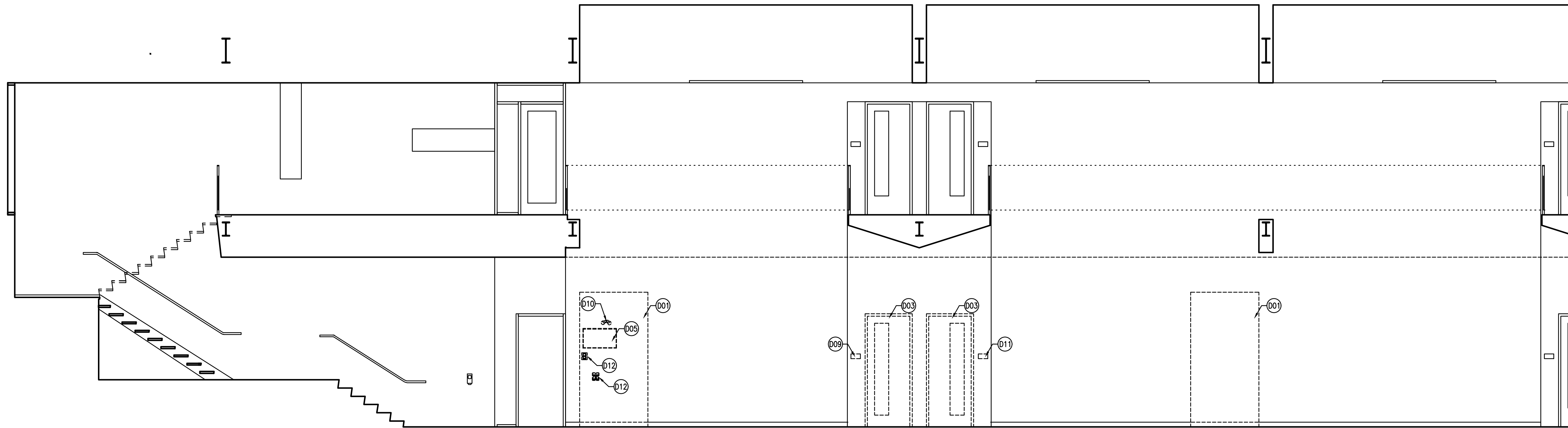
75 GRASSLAND RD
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DEMOLITION
ELEVATION

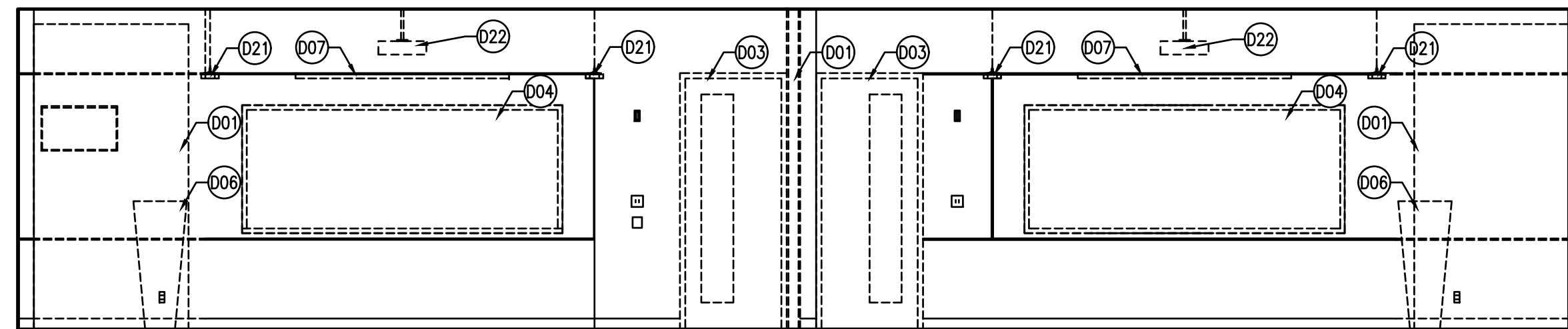
PROJECT NO.: 2467-00 SCALE: 1/4" = 1'-0"

DRAWING NO.:

A201



1 SOUTH CORRIDOR ELEVATION
SCALE: 1/4" = 1'-0"



2 S139 AND S141 CLASSROOM NORTH DEMOLITION ELEVATION
SCALE: 1/4" = 1'-0"

REFLECTED CEILING DEMOLITION KEYED NOTES

D20	REMOVE SUSPENDED CEILING SYSTEM INCLUDING GRID, HANGERS, AND TIES. SPRINKLER HEAD AND PIPE TO REMAIN.
D21	REMOVE LIGHT FIXTURES.
D22	REMOVE AND SALVAGE PROJECTOR.
D23	EXISTING SPEAKER TO REMAIN.
D24	REMOVE SECTION OF GYPSUM CEILING. SEE X/XXX
D25	REMOVE AND SALVAGE CEILING TILES FOR ACCESS FOR MECHANICAL INSTALLATION. SEE MEP DRAWINGS.
D26	REMOVE AND SALVAGE LIGHT FIXTURE.

DEMOLITION KEYED NOTES

D01	REMOVE WALL/PARTITION SYSTEM, BASE AND ACCESSORIES.
D02	REMOVE VINYL COMPOSITE TILE FLOORING.
D03	REMOVE DOOR, FRAME AND ASSOCIATED ELEMENTS. SALVAGE MORTISE LOCK, CYLINDER THUMB TURN AND CARD ACCESS READER.
D04	REMOVE AND SALVAGE WALL MOUNTED WHITE BOARD.
D05	REMOVE AND SALVAGE WALL MOUNTED MONITOR.
D06	REMOVE FLOOR MOUNTED LECTERN AND CONDUITS. SEE "E" DRAWINGS.
D07	REMOVE AND SALVAGE PROJECTOR SCREEN.
D08	REMOVE AND SALVAGE WALL MOUNTED PROJECTOR. SEE "E" DRAWINGS.
D09	REMOVE ROOM SIGN.
D10	REMOVE AND SALVAGE EMERGENCY LIGHT. SEE "E" DRAWINGS
D11	REMOVE AND SALVAGE ROOM SIGN.
D12	REMOVE AND SALVAGE FIRE ALARM DEVICE. SEE "E" DRAWINGS.
D13	REMOVE GLAZING. WINDOW FRAMING TO REMAIN. SEE 5,6/A801

DEMOLITION LEGEND

-----	EXISTING PARTITIONS TO BE REMOVED
=====	EXISTING PARTITIONS AND ELEMENTS TO REMAIN
-----	EXISTING ITEMS TO BE REMOVED

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one eighth inch = one foot

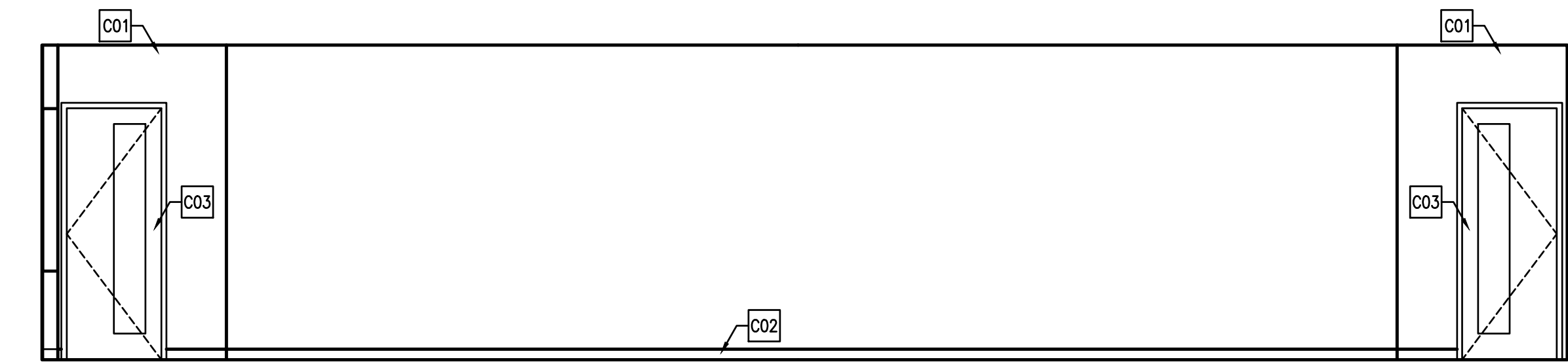
one quarter inch = one foot

three eighths inch = one foot

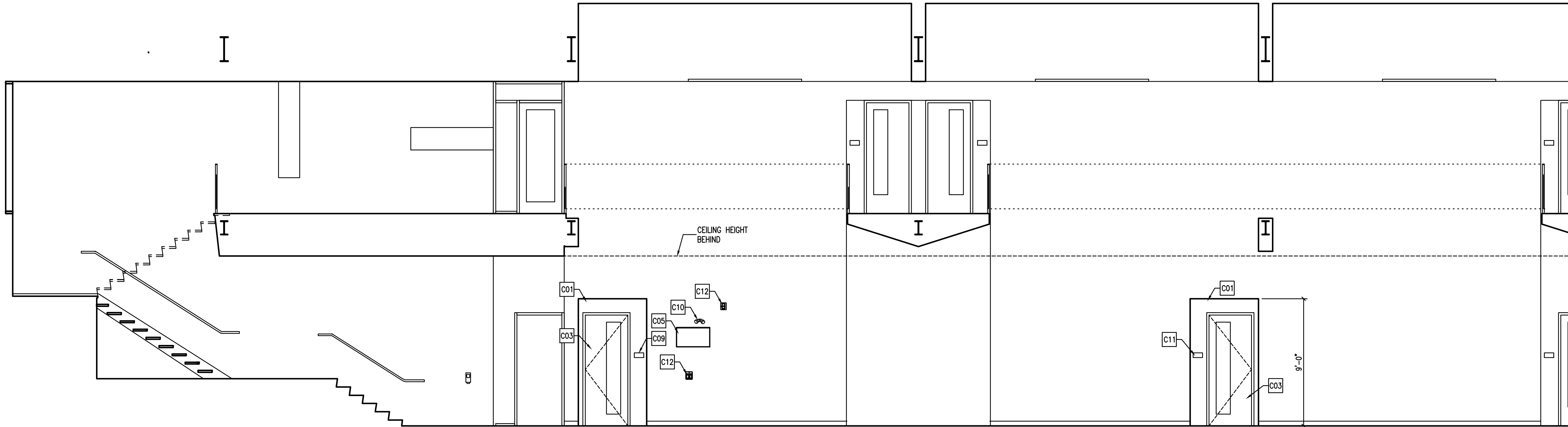
one half inch = one foot

three quarters inch = one foot

one inch = one foot



2 S139 CLASSROOM NORTH ELEVATION
SCALE: 1/4" = 1'-0"



1 SOUTH CORRIDOR ELEVATION
SCALE: 1/4" = 1'-0"

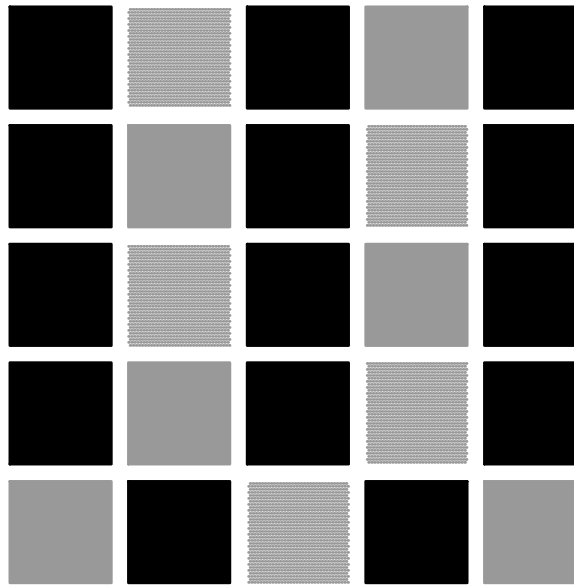
CONSTRUCTION KEYED NOTES

C01	PROVIDE NEW WALL/PARTITION SYSTEM. PAINT TO MATCH EXISTING.
C02	PROVIDE NEW VINYL COMPOSITE TILE FLOORING. MATCH EXISTING COLOR AND PATTERN.
C03	PROVIDE DOOR, FRAME AND ASSOCIATED ELEMENTS. REINSTALL SALVAGED HARDWARE. SEE A801
C04	NOT USED.
C05	REINSTALL SALVAGED MONITOR.
C06	NOT USED.
C07	NOT USED.
C08	REINSTALL SALVAGED WALL MOUNTED PROJECTOR. SEE ELECTRICAL DRAWINGS
C09	PROVIDE ROOM SIGN, MATCH EXISTING S139..
C10	INSTALL SALVAGED EMERGENCY LIGHT. SEE "E" DRAWINGS.
C11	INSTALL SALVAGED ROOM SIGN.
C12	INSTALL SALVAGED STROBE ALARM. SEE "E" DRAWINGS.
C13	PROVIDE METAL FACED INSULATED PANEL. SEE 6/A801
C14	ROOM DIVIDER BY OTHERS.

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914-741-1115

White Plains Rochester Red Bank Hartford



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WESTCHESTER COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

75 GRASSLAND RD
VALHALLA, NY 10595

CONSTRUCTION ELEVATION

PROJECT NO.: 2467-00 SCALE: 1/4" = 1'-0"

DRAWING NO.:

A211

K:\PROJECTS\LIBRARY\2467-00 - Westchester CC - Cyber-Security Lab (21-112)\2467-00-10-Drawings\2467-00_Active\2467-00_22_0117_A500 - WALLS AND DETAILS.dwg

one eighth inch = one foot

one quarter inch = one foot

0

4

8

16

three eighths inch = one foot

0

4

8

16

one half inch = one foot

0

4

8

16

three quarters inch = one foot

0

4

8

16

one inch = one foot

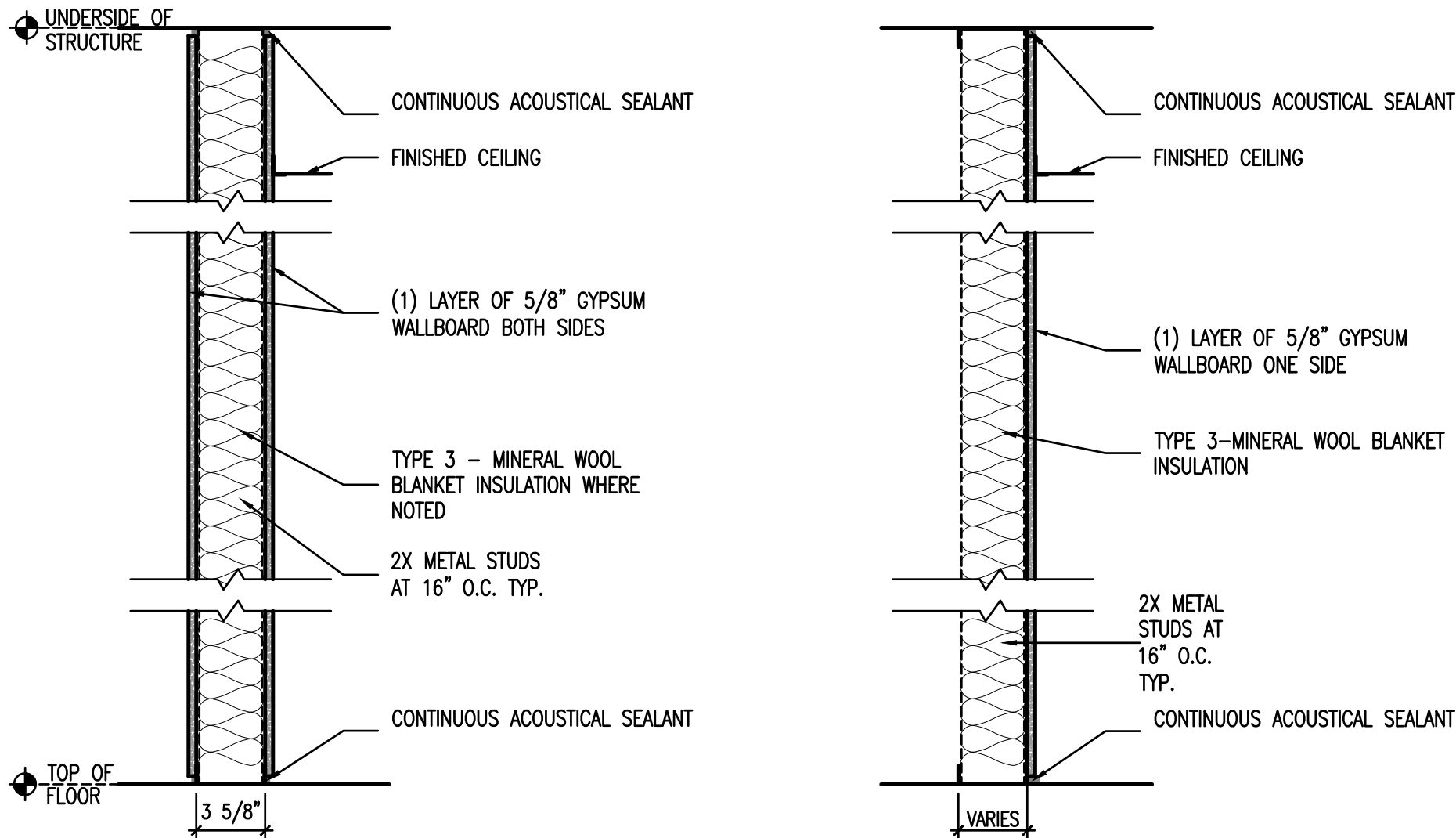
0

4

8

16

2



TYPICAL INTERIOR PARTITION

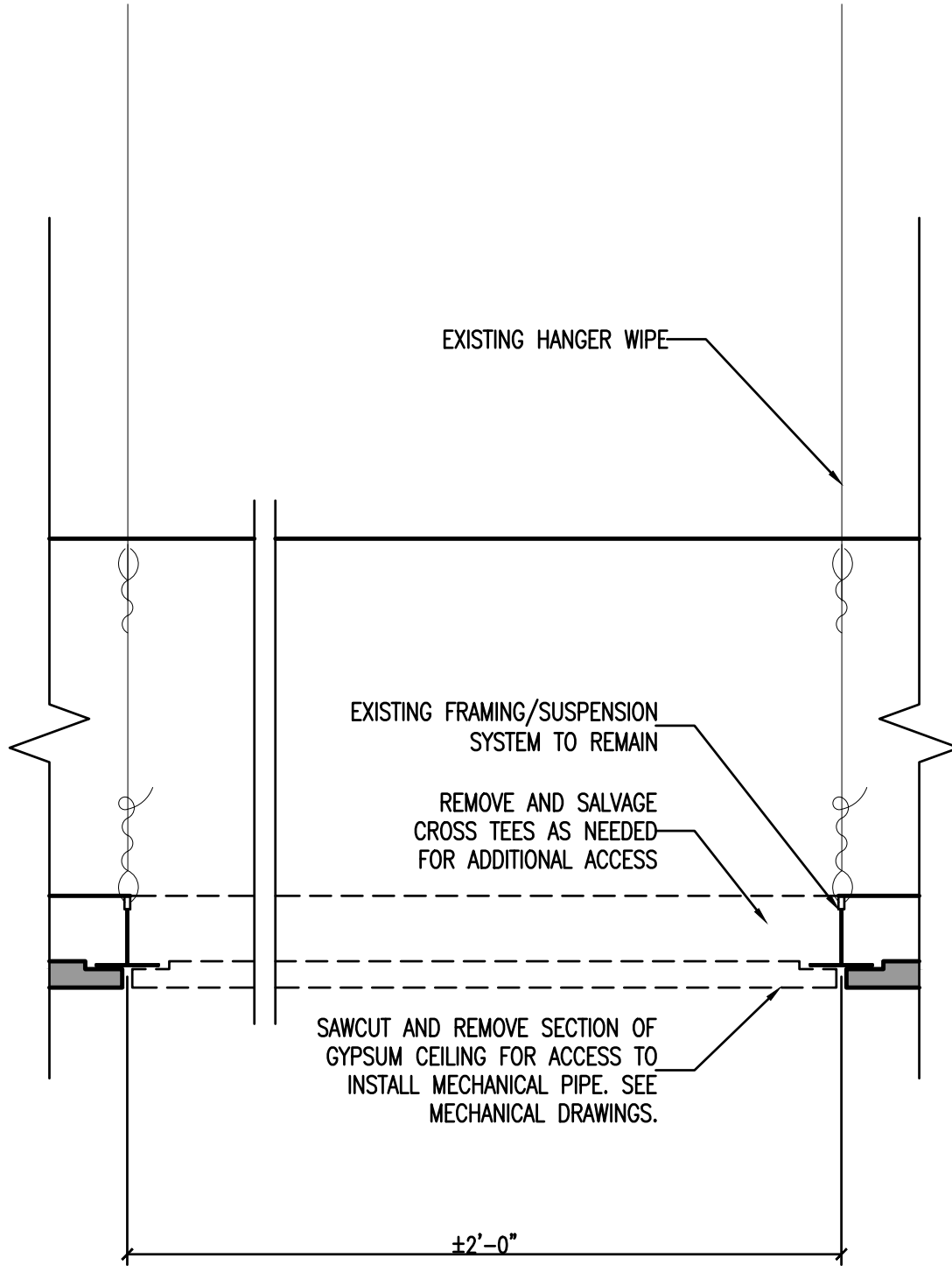
FURRING WALL

P1 5/8" GWB, 3-5/8" METAL STUD STC 34- NO INSULATION

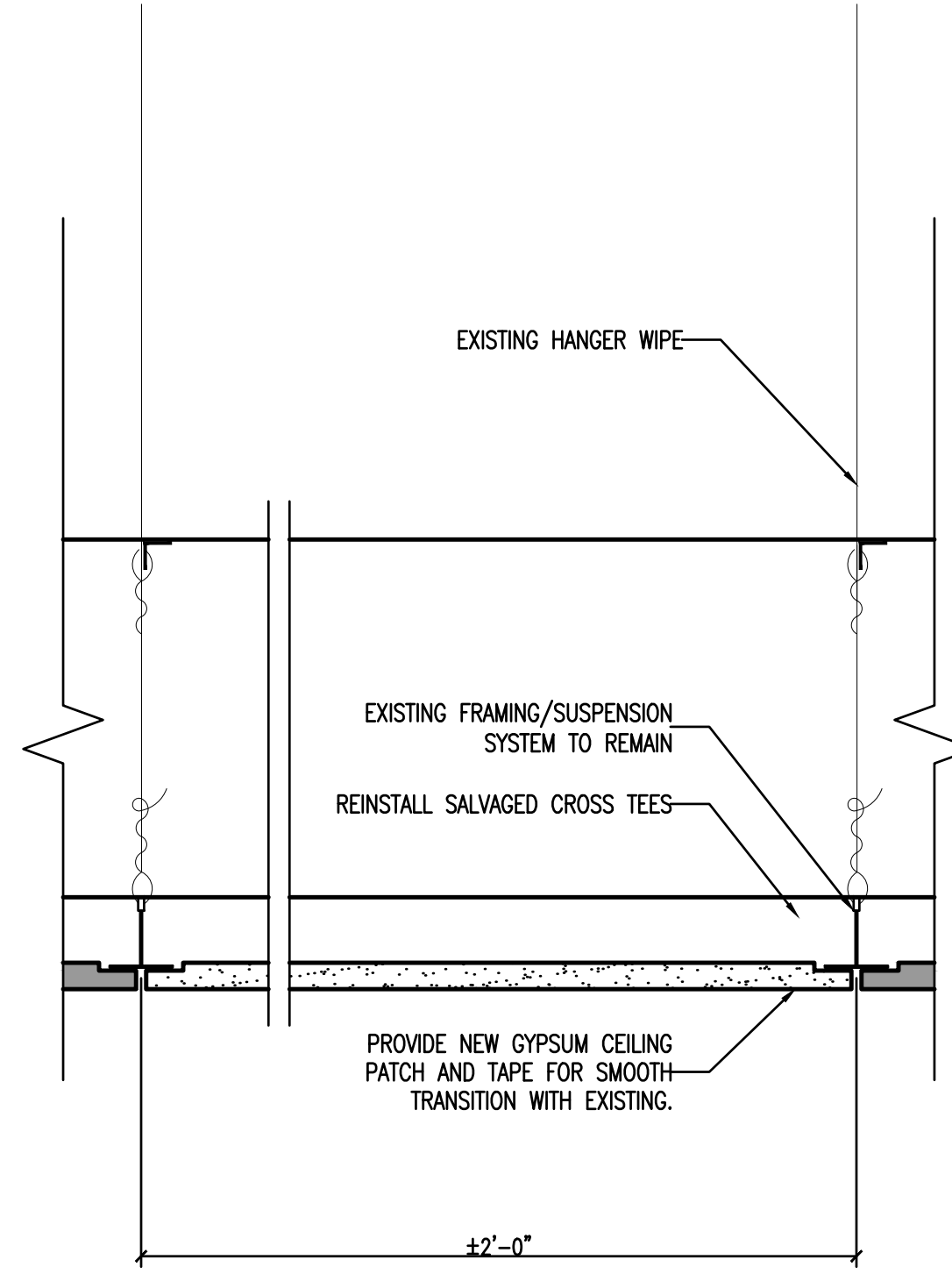
FR1 5/8" GWB, 3-5/8" METAL STUDS, 3" MINERAL WOOL

P1a 5/8" GWB, 3-5/8" METAL STUDS 3" MINERAL WOOL 1 HR. RATING, UL DES U495, STC46

1 PARTITION SCHEDULE
1" = 1'-0"



2 GWB - CEILING DEMOLITION DETAIL
3" = 1'-0"

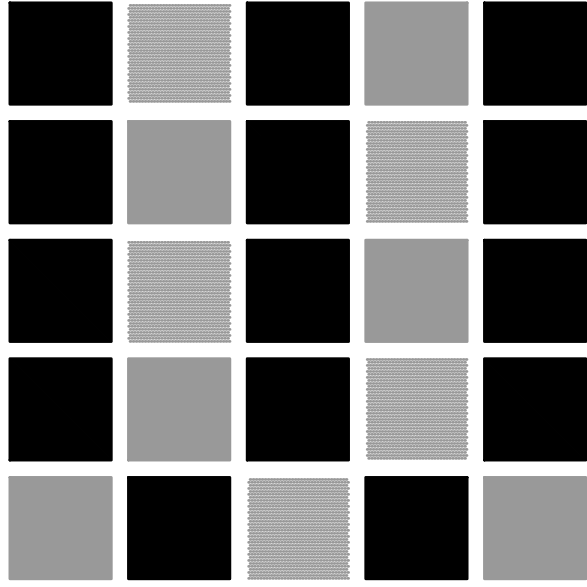


3 GWB - CEILING CONSTRUCTION DETAIL
3" = 1'-0"

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5	6-24-2022	100% PROGRESS ISSUE
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2	12-23-2021	ISSUED FOR PROGRESS
1	12-16-2021	DESIGN PROGRESS OPTIONS
ISSUE NO.	ISSUE DATE	DESCRIPTION

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PARTITION TYPES AND
DETAILS

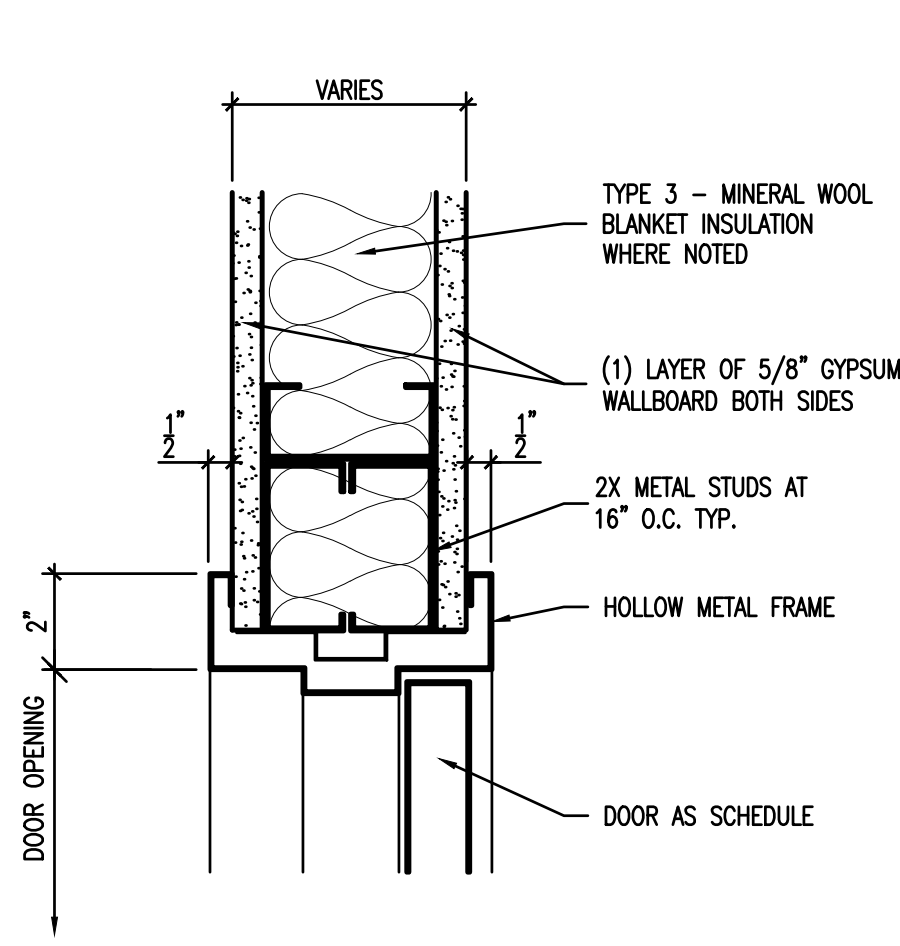
PROJECT NO.: 2467-00 SCALE: N.T.S.

DRAWING NO.:

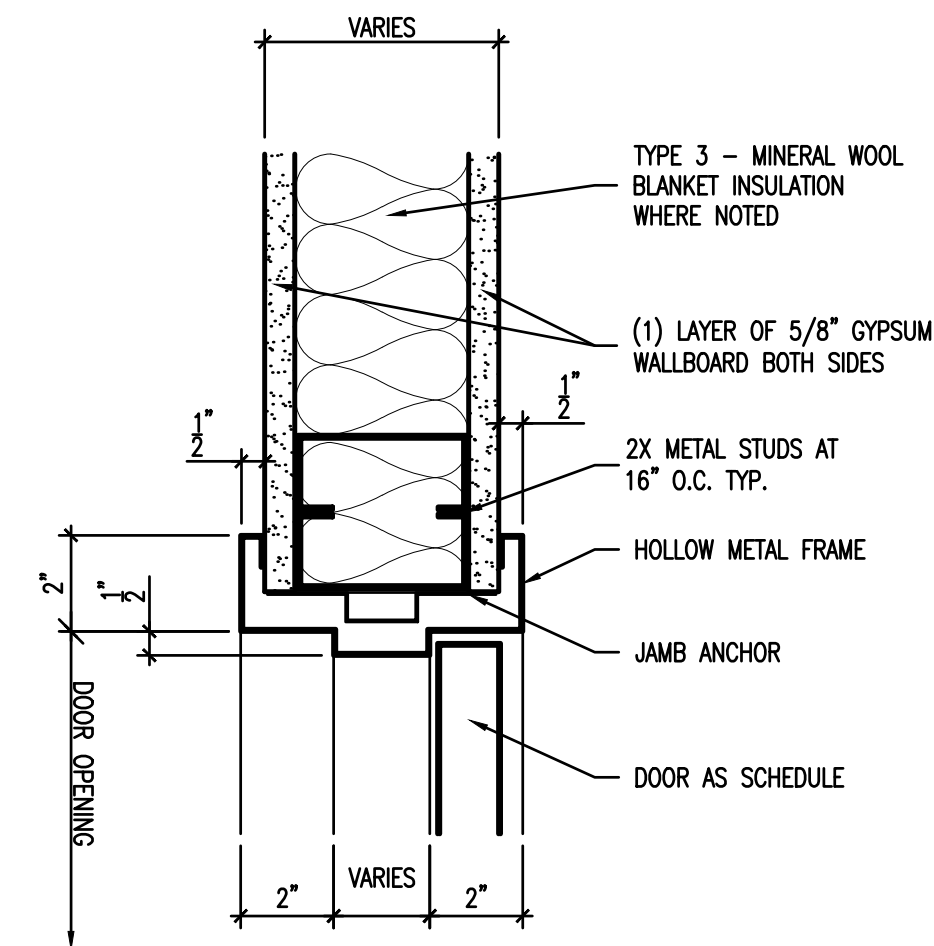
A501

K:\PROJECTS\LIBRARY\2467-00 - Westchester CC - Cyber-Security Lab (21-112)\2467-00-10-Drawings\2467-00_Active\2467-00_22_0117_A801 - DOOR SCHEDULE.dwg
one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4 8
three eighths inch = one foot
0 4 8
one half inch = one foot
0 4
one inch = one foot
0 1 2 3 4
two inches = one foot
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

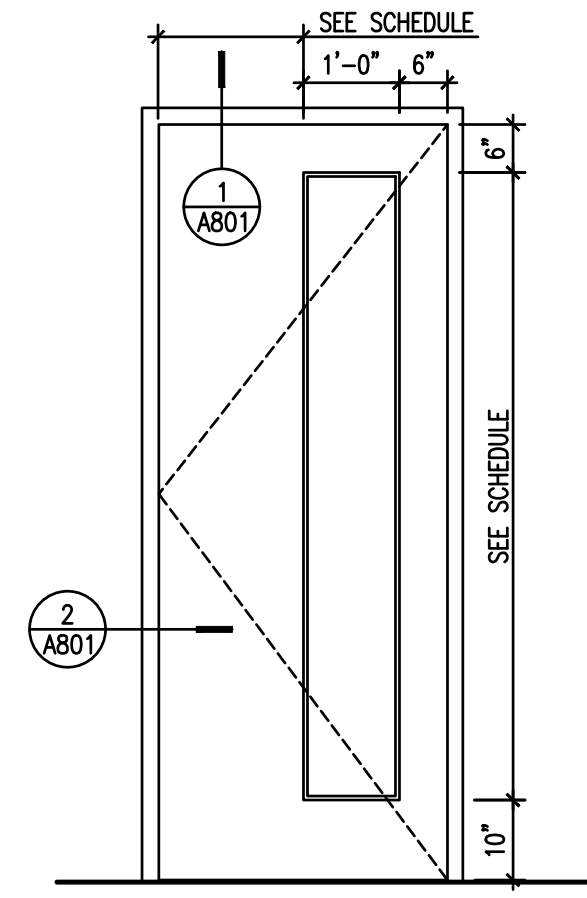
DOOR SCHEDULE											
DOOR #	DOOR TYPE	LOCATION		SIZE (VIF)		MATERIAL		FIRE RATING	DOOR HARDWARE	DETAILS	REMARKS
		FROM	TO	WIDTH	HEIGHT	DOOR	FRAME				
S139A	A	CORRIDOR	CLASSROOM	3'-0"	8'-0"	WOOD	METAL	1HR	1	1,2/A801	
S139B	A	CORRIDOR	CLASSROOM	3'-0"	8'-0"	WOOD	METAL	1HR	1	1,2/A801	



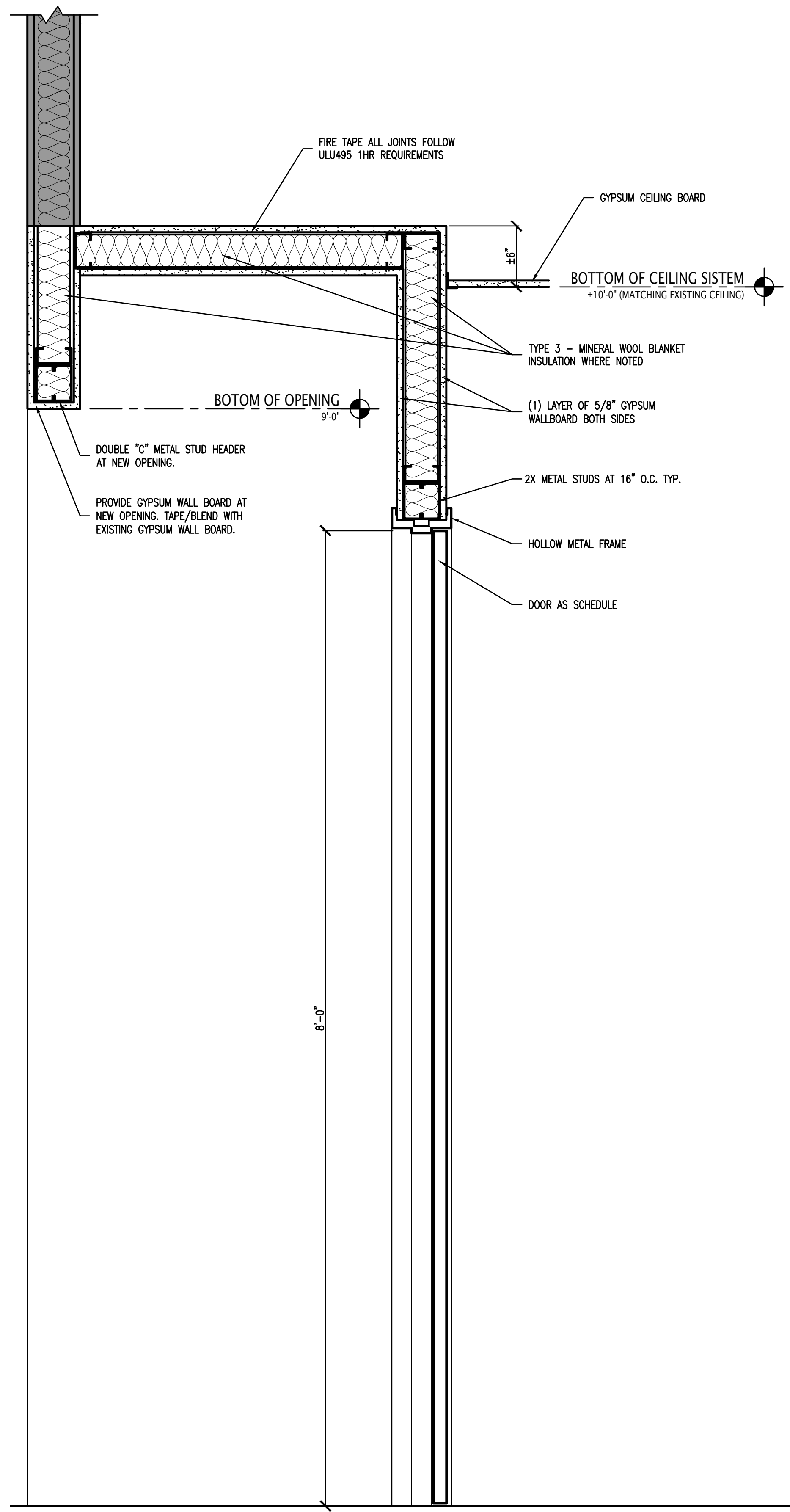
1 TYPICAL DOOR HEAD DETAIL
3" = 1'-0"



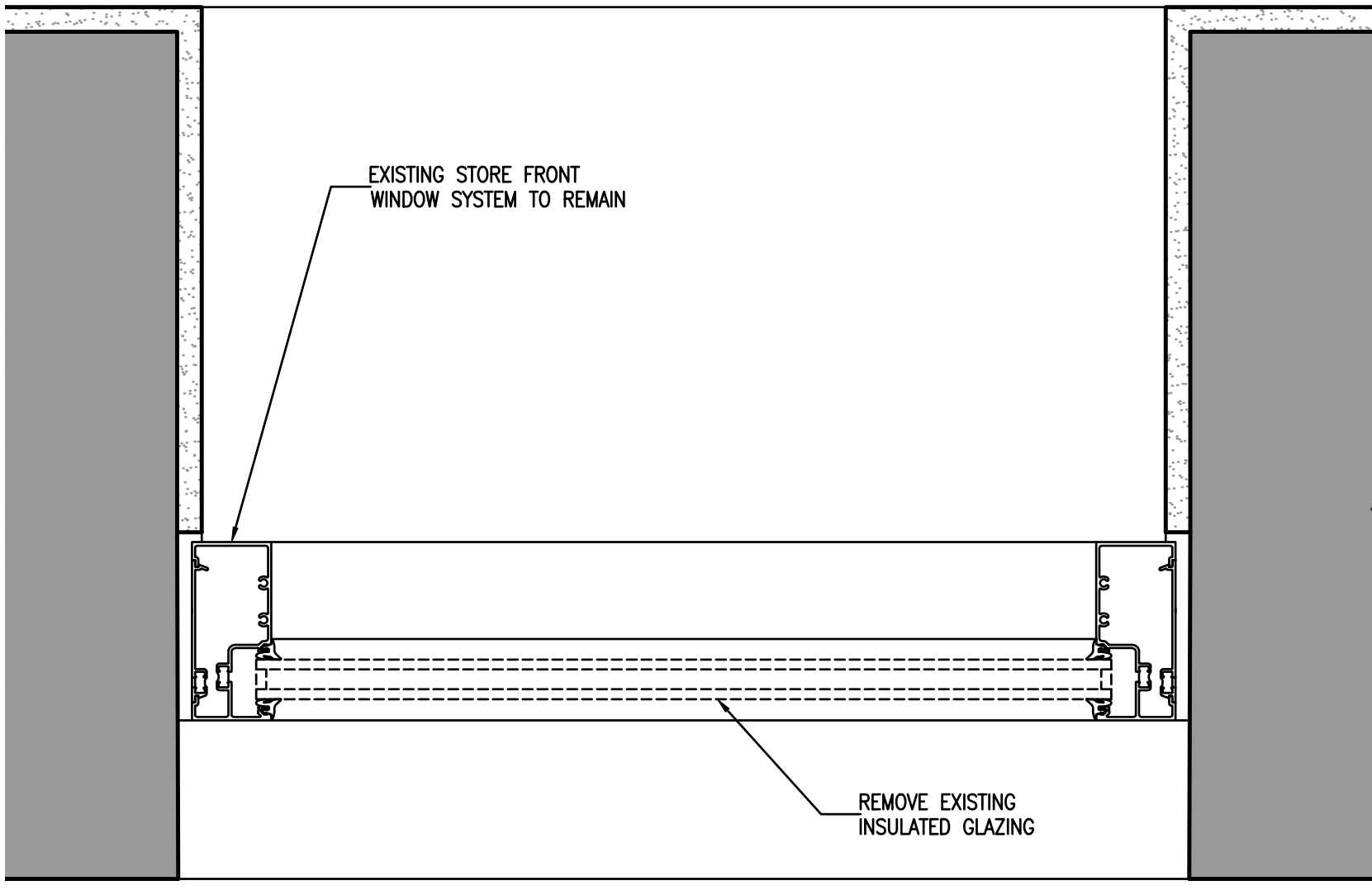
2 TYPICAL DOOR JAMB DETAIL
3" = 1'-0"



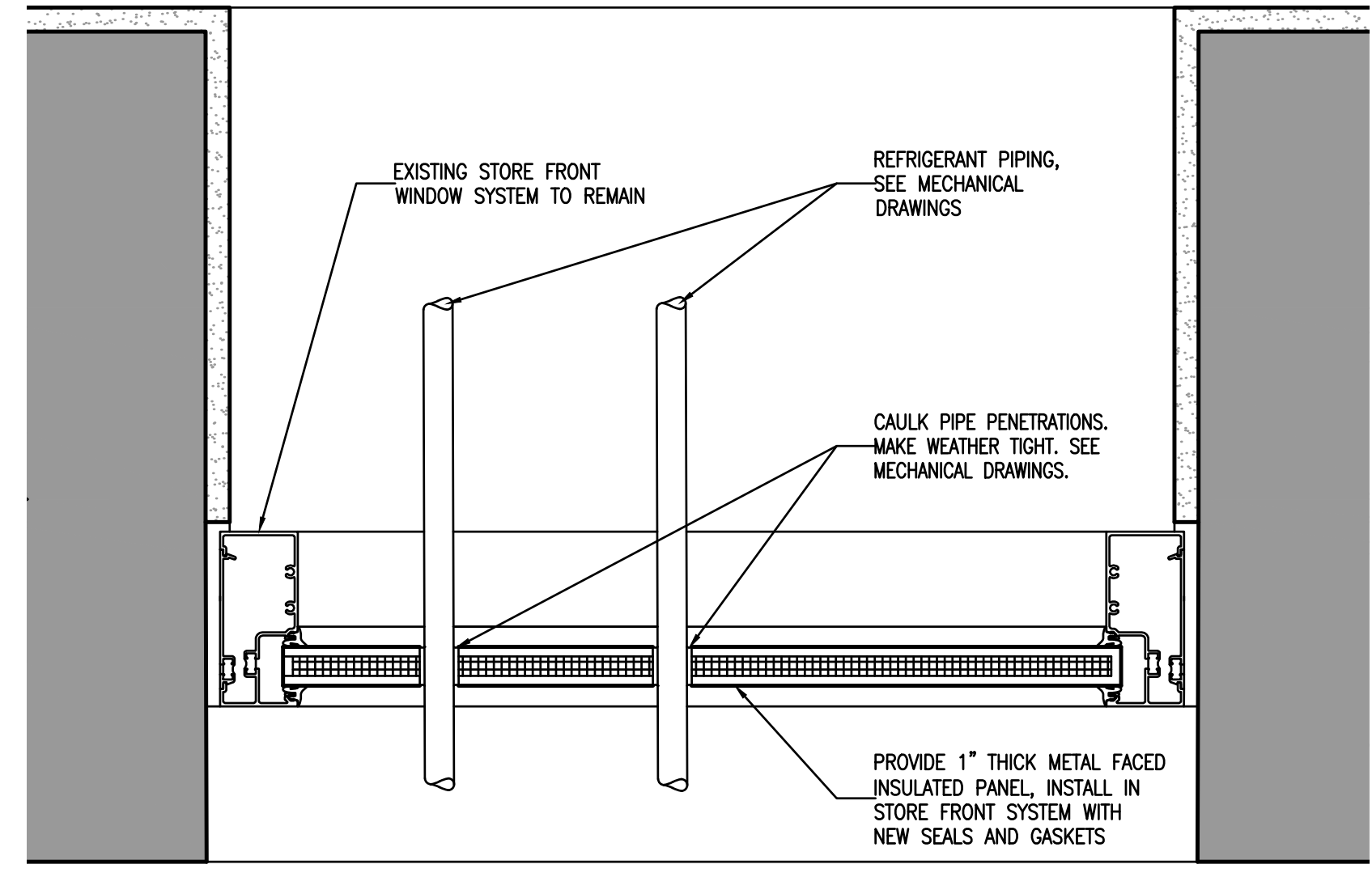
3 DOOR TYPE - A
1/2" = 1'-0"



4 S139A/B DOOR SECTION DETAIL
1 1/2" = 1'-0"



5 DEMOLITION WINDOW JAMB DETAIL
3" = 1'-0"



6 CONSTRUCTION WINDOW JAMB DETAIL
3" = 1'-0"

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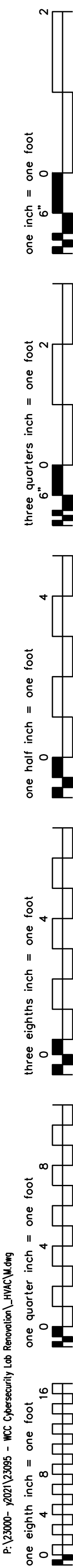
CYBER SECURITY LABORATORY RENOVATIONS

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DOOR SCHEDULE AND DETAILS

PROJECT NO.:	2467-00	SCALE:	N.T.S.
DRAWING NO.:	A801		

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ABBREVIATIONS

A	AMPERES
AC	AIR CONDITIONING
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTICAL LINING
AP	ACCESS PANEL
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTUH PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CLG	CEILING
COND	CONDENSATE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
DWG	DRAWING
CV	CONSTANT VOLUME
D	DROP
DB	DRY BULB
DIAM	DIAMETER
DN	DOWN
(E)	EXISTING TO REMAIN
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRIC
EQ	EQUAL
EWB	ENTERING WET BULB
EXH	EXHAUST
EXP	EXPANSION
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FA	FREE AREA (SQ.FT.)
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPERES
FPM	FEET PER MINUTE
FPS	FEET PER SECOND

FT	FEET
G	GAUGE
HR	HOUR
HT	HEIGHT
HZ	FREQUENCY
IN	INCH OR INCHES
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBD	LEAVING DRY BULB TEMPERATURE
LIN FT	LINEAR FEET
LRA	LOCKED ROTOR AMPS
MAX	MAXIMUM
MBH	THOUSAND BTUH PER HOUR
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
NO.	NUMBER
NTS	NOT TO SCALE
OED	OPEN ENDED DUCT
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
R	RISE
RA	RETURN AIR
REFR	REFRIGERANT
RG	REFRIGERANT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
ROT	ROTATION
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
SPEC	SPECIFICATION
TEMP	TEMPERATURE
TYP	TYPICAL
V	VOLTS

SYMBOL LIST

	SINGLE LINE DUCTWORK OR EQUIPMENT – NEW
	SINGLE LINE DUCTWORK OR EQUIPMENT – EXISTING
	DUCTWORK OR EQUIPMENT TO BE REMOVED
	DUCTWORK WITH ACOUSTICAL LINING
	DUCTWORK UNDER POSITIVE PRESSURE (SUPPLY AIR OR FAN DISCHARGE)
	DUCT UNDER NEGATIVE PRESSURE (RETURN,EXHAUST, OR OUTSIDE AIR)
	VOLUME DAMPER
	CUBIC FEET PER MINUTE
	DIAMETER
	AIRFLOW DIRECTION
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	VANED ELBOW
	RADIUS ELBOW
	SEE DUCT DETAILS FOR TYPE OF BRANCH CONNECTION
	VERTICAL DUCT DROP (IN DIRECTION OF AIRFLOW)
	VERTICAL DUCT RISE (IN DIRECTION OF AIRFLOW)
	THERMOSTAT
	NEW PIPE WITH DIRECTION OF FLOW
	EXISTING PIPING
	PIPING TO BE REMOVED
	PIPE DROP
	PIPE RISE

MECHANICAL DRAWING LIST

M001	MECHANICAL COVER SHEET
M100	MECHANICAL EXISTING/CONSTRUCTION PLAN
M200	MECHANICAL SCHEDULES
M300	MECHANICAL DETAILS

GENERAL NOTES

- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
- DRAWINGS ARE DIAGRAMMATIC. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
- COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
- DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL EXCEPT IN WAY OF STRUCTURAL STEEL. DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
- NEITHER ACCURACY NOR COMPLETENESS OF SERVICES AND UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING SERVICES AND UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURER'S REQUIREMENTS.
- PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES SERVICE OR MAINTENANCE.
- PROVIDE HANGERS, ANCHORS, INSERTS, SUPPLEMENTAL STEEL, AND SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING, AND EQUIPMENT FROM STRUCTURE.
- RUN PIPING CONCEALED WITHIN WALLS, CEILINGS, OR SOFFITS, UNLESS OTHERWISE SPECIFIED AND CLEAR OF CEILING INSERTS. COORDINATE ROUTING WITH ARCHITECT AND CONSTRUCTION METHODS.
- INSTALL THERMOSTATS 4'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE DIRECTED BY ARCHITECT.
- SPECIFICATIONS ARE PART OF THESE DOCUMENTS AND SCOPE OF WORK.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
- PROVIDE 36" CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND MFG. REQUIREMENTS.

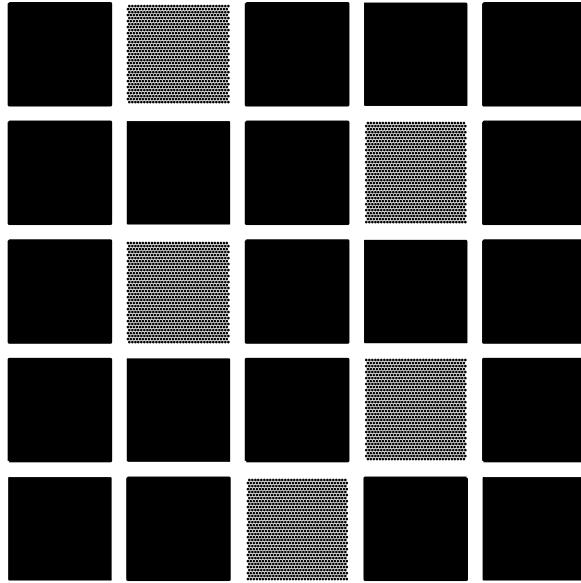
DEMOLITION NOTES

- THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE TO FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL DUCT AND PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS AS NECESSARY.
- ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- PORTIONS OF PIPING AND DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
- THE CONTRACTOR SHALL NOTIFY THE OWNER, AT THE APPROPRIATE TIME, OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE OWNER.
- ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
- THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.
- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS REGARDING DISPOSAL OR REFRIGERANTS.



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2	6/02/2022	ISSUED FOR ARCH COORDINATION
1	5/10/2022	ISSUED FOR PROGRESS

ISSUE NO.	ISSUE DATE	DESCRIPTION
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WESTCHESTER
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CYBER SECURITY LABORATORY
RENOVATIONS

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MECHANICAL COVER
SHEET

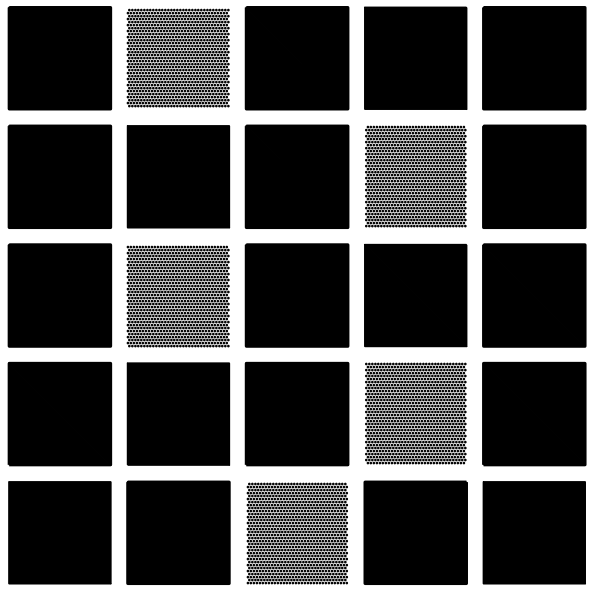
PROJECT NO.: 23095

DRAWING NO.:

M001



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CYBER SECURITY LABORATORY RENOVATIONS

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MECHANICAL EXISTING/ CONSTRUCTION PLAN

PROJECT NO.:	23095
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DRAWING NO.:

M100

GENERAL NOTES:

1. ALL EXISTING MECHANICAL SYSTEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. PITCH CONDENSATE DRAIN (CD) PIPING 1/2" FOR EVERY 10' OF PIPE IN THE DIRECTION OF FLOW.

KEY NOTES:

- ① DISCHARGE CD PIPING INTO MOP SINK AT LEAST 3" ABOVE SINK TOP.
- ② COMBINATION TEMPERATURE (T5) AND CO2 SENSOR IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- ③ FURNISH AND INSTALL ACCU WITH A MANUFACTURER APPROVED UNIT STAND. INSTALL UNIT AT LEAST 18" ABOVE GRADE.
- ④ NEW PARTITION IS NOT FULL HEIGHT - REFER TO ARCHITECTURAL DRAWINGS.
- ⑤ PROVIDE 4'-2"W x 3'-6"D x 0'-4" H CONCRETE PAD. INSTALL PAD ON GRADE AND DEAD LEVEL IN BOTH DIRECTIONS. PAD SHALL EXTEND AT LEAST 3" BEYOND UNIT STAND FOOT PLATES ALL AROUND.
- ⑥ REFINET BRANCH PIPING KIT. TYPICAL.
- ⑦ DAISY CHAIN ALL FCU-A AND WIRE TO ONE REMOTE CONTROLLER.

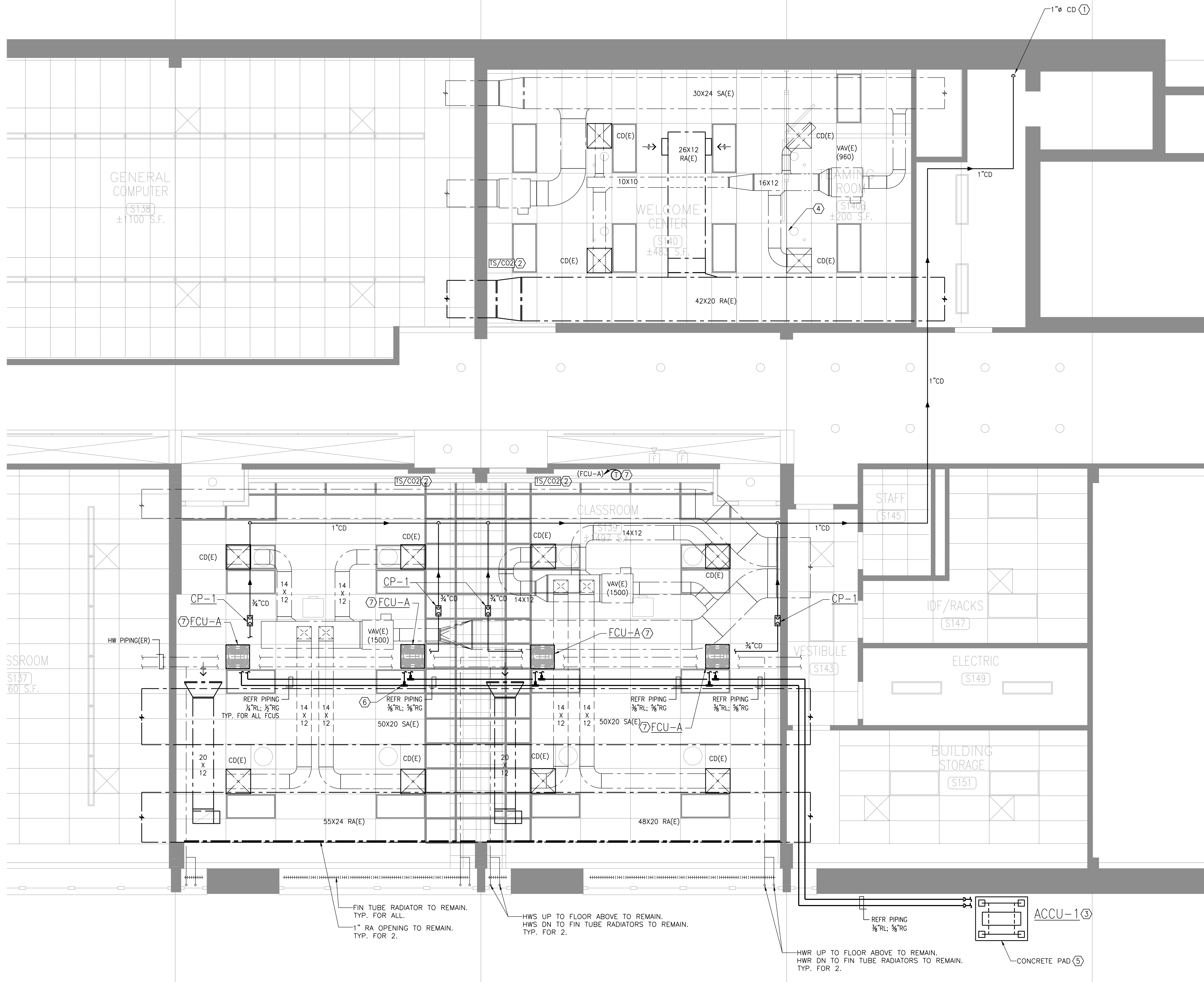
SEQUENCE OF OPERATION:

- 1) ACCU-1/FCU-A
INDOOR UNIT SHALL OPERATE TO MAINTAIN SET POINT TEMPERATURE. A LOCAL 7-DAY PROGRAMMABLE WALL MOUNTED CONTROLLER SHALL ALLOW FOR SPACE TEMPERATURE ADJUSTMENT AND SCHEDULING OF SPACE. ONE CONTROLLER SHALL BE DAISY CHAINED TO (4) INDOOR UNITS.

COOLING MODE
SPACE SETPOINT TEMPERATURE SHALL BE SET AT
75°F (ADJUSTABLE).

HEATING MODE
SPACE SETPOINT TEMPERATURE SHALL BE SET AT
60°F (ADJUSTABLE).

VRF SYSTEM TO NOT RUN IN COOLING MODE WHEN
EXISTING FIN TUBE RADIATOR IS IN OPERATION.

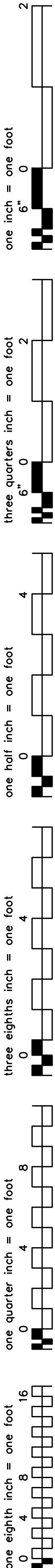


1 MECHANICAL CONSTRUCTION PLAN
SCALE: 1/4"=1'-0"



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AIR COOLED CONDENSING UNIT (HEAT PUMP) SCHEDULE																	
TAG	LOCATION	SERVICE	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATING CAPACITY (BTU/H)	EER	SEER	HSPF	ESP (IN. WC)	ELECTRICAL DATA				W X H X D (INCHES)	WEIGHT (LBS)	SOUND DATA (DBA)	MANUFACTURER AND MODEL	REMARKS
									V/P/C	MCA (AMPS)	MOP (AMPS)	RLA (AMPS)					
ACCU-1	GRADE - SEE PLANS	FCU-A	54,000	35,500	10.3	18.0	10	0.6	208/1/60	29.1	35.0	19.0	37.0 X 39.0 X 12.6	200	58	DAIKIN RXT048TAVJUA	SEE NOTES
NOTES:																	

FAN COIL UNIT SCHEDULE (INDOOR UNIT)																		
TAG	SERVICE	NOMINAL COOLING CAPACITY (BTU/H)	NOMINAL HEATING CAPACITY (BTU/H)	AIRFLOW (CFM)	FRESH AIR (CFM)	COOLING DATA			HEATING DATA		ELECTRICAL DATA			W X H X D (INCHES)	WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS	
						EAT		LAT	EAT		LAT	V/P/C	MCA (AMPS)					MOP (AMPS)
						DB (°F)	DB (°F)		DB (°F)	DB (°F)								
FCU-A	AIR CONDITIONING OF CLASSROOMS S139 & S141	15,015	17,057	405	0	80.0	67.0	56.1	70.0	108.2	208/1/60	0.4	15	22.6 X 10.2 X 22.6	50	DAIKIN FXZQ15TAVJU	SEE REMARKS	
NOTES: FURNISH AND INSTALL UNITS WITH THE FOLLOWING FEATURES AND ACCESSORIES																		
1. REMOTE CONTROLLER SIMILAR TO DAIKIN MODEL BRC1E73.																		
2. DECORATION PANEL WHITE SIMILAR TO DAIKIN MODEL BYFQ60C3W1W.																		
3. REFNET BRANCH PIPING KIT SIMILAR TO DAIKIN MODEL KHRP26A22T9.																		
4. PROVIDE BACNET CARD FOR TIE IN TO EXISTING BMS.																		

CONDENSATE PUMP									
TAG	LOCATION	GPH (10 FT.)	HEAD (FT.)	SUCTION TEMP (°F)	POWER (HP)	VOLTS/PHASE	WEIGHT (LB)	MANUFACTURER AND MODEL	NOTES
CP-A	SEE PLANS	42	15	45	1/30	115V/1	5.5	LITTLE GIANT VCMX-20UL	1,2
NOTES: FURNISH UNIT WITH THE FOLLOWING FEATURES AND OPTIONS									
1. THERMAL OVERLOAD PROTECTOR AND POLYETHYLENE SCREEN.									
2. INTEGRAL FLOAT SWITCH, COPPER CHECK VALVE FOR 1/2" COPPER TUBING.									
3. CONDENSATE PUMP TO BE HARD WIRED AND SUITABLE FOR USE IN PLENUMS.									

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MECHANICAL SCHEDULES

PROJECT NO.:23095

DRAWING NO.:M200



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one eighth inch = one foot
0 4 8 16

three eighths inch = one foot
0 4

one half inch = one foot
0 6

three quarters inch = one foot
0 6

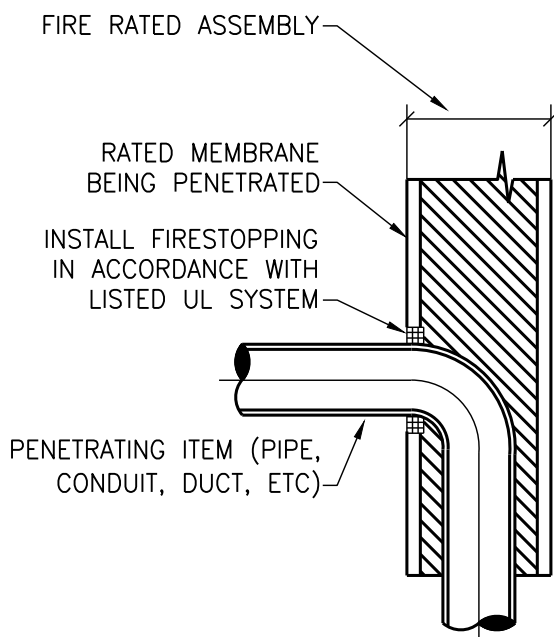
one inch = one foot
0 6

GENERAL GUIDELINE FOR SELECTING APPROPRIATE FIRESTOPPING SYSTEMS:

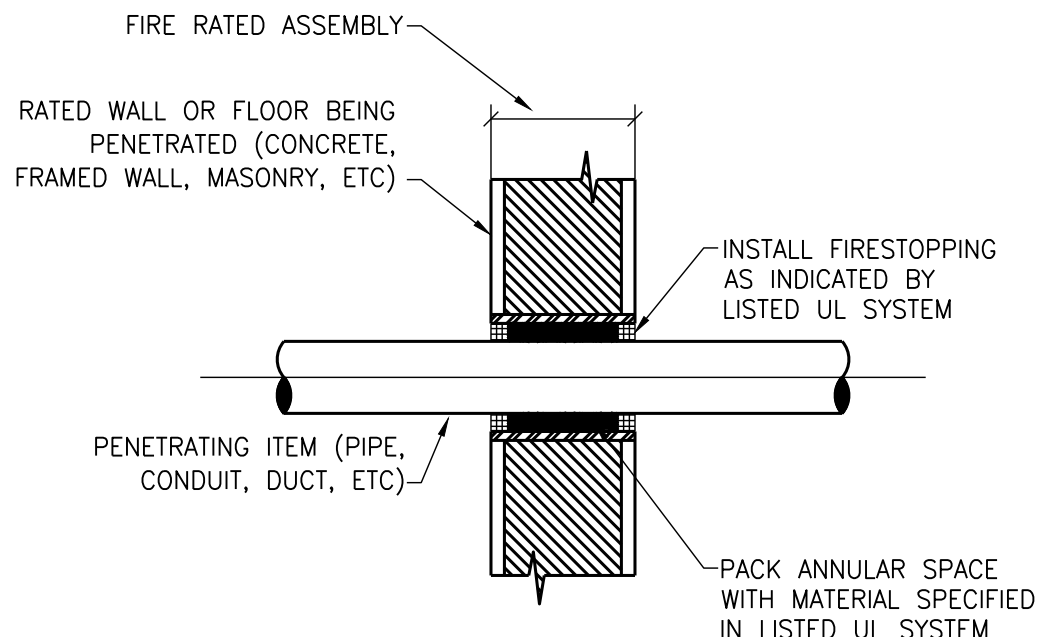
DETERMINE SYSTEM COMPONENTS:
-TYPE OF PENETRATION (MEMBRANE OR THROUGH)
-PENETRATING ITEM
-ASSEMBLY BEING PENETRATED
-MINIMUM AND MAXIMUM ANNULAR SPACES, POINTS OF CONTACT

DETERMINE RATING REQUIREMENTS:
-F-RATING, T-RATING, L-RATING, AND W-RATING

FOR EACH PENETRATION, SELECT A SYSTEM LISTED BY AN APPROVED TESTING AGENCY (UL, FM, ETC) THAT MEETS ALL OF THE ABOVE PARAMETERS



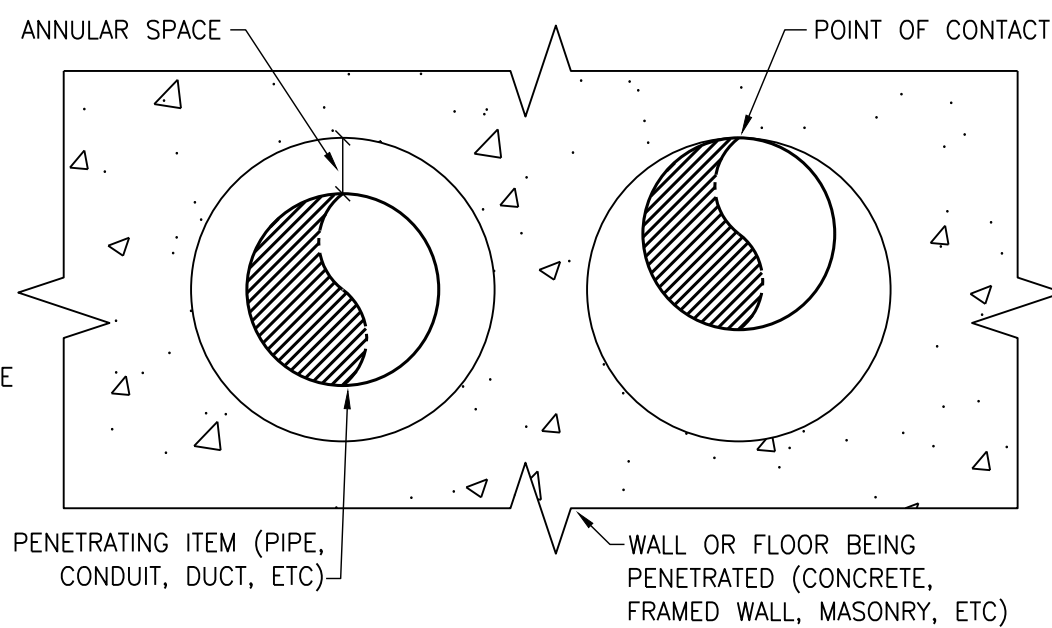
MEMBRANE PENETRATION



THROUGH PENETRATION

F-RATING: THE AMOUNT OF TIME (IN HOURS) BEFORE FLAMES CAN PASS THROUGH A PENETRATION FROM THE SIDE OF A WALL OR FLOOR EXPOSED TO FLAMES TO THE UNEXPOSED SIDE
T-RATING: THE AMOUNT OF TIME (IN HOURS) BEFORE THE SURFACE OF AN ASSEMBLY AND/OR PENETRATING ITEM ON THE SIDE OF A WALL OR FLOOR NOT EXPOSED TO FLAMES RISES TO A TEMPERATURE OF 325°F
L-RATING: THE AMOUNT OF AIR/SMOKE (IN CUBIC FEET PER MINUTE PER SQUARE FOOT) THAT CAN LEAK THROUGH THE PENETRATION
W-RATING: A FIRESTOPPING PRODUCT'S ABILITY TO RESIST THE PASSAGE OF WATER THROUGH FLOOR ASSEMBLIES

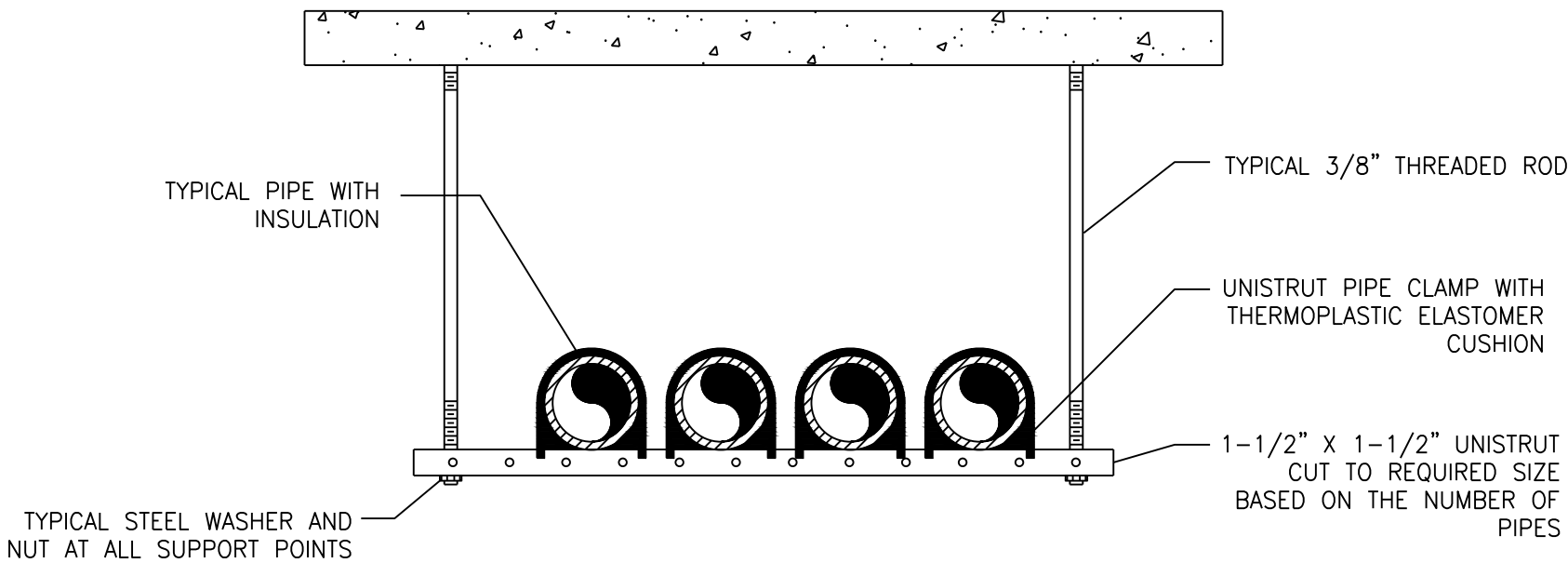
REFER TO PROJECT SPECIFICATIONS FOR RATINGS AND ADDITIONAL FIRESTOPPING REQUIREMENTS



ANNULAR SPACE

DEFINITIONS AND NOTES

FIRESTOPPING PENETRATIONS GUIDELINE

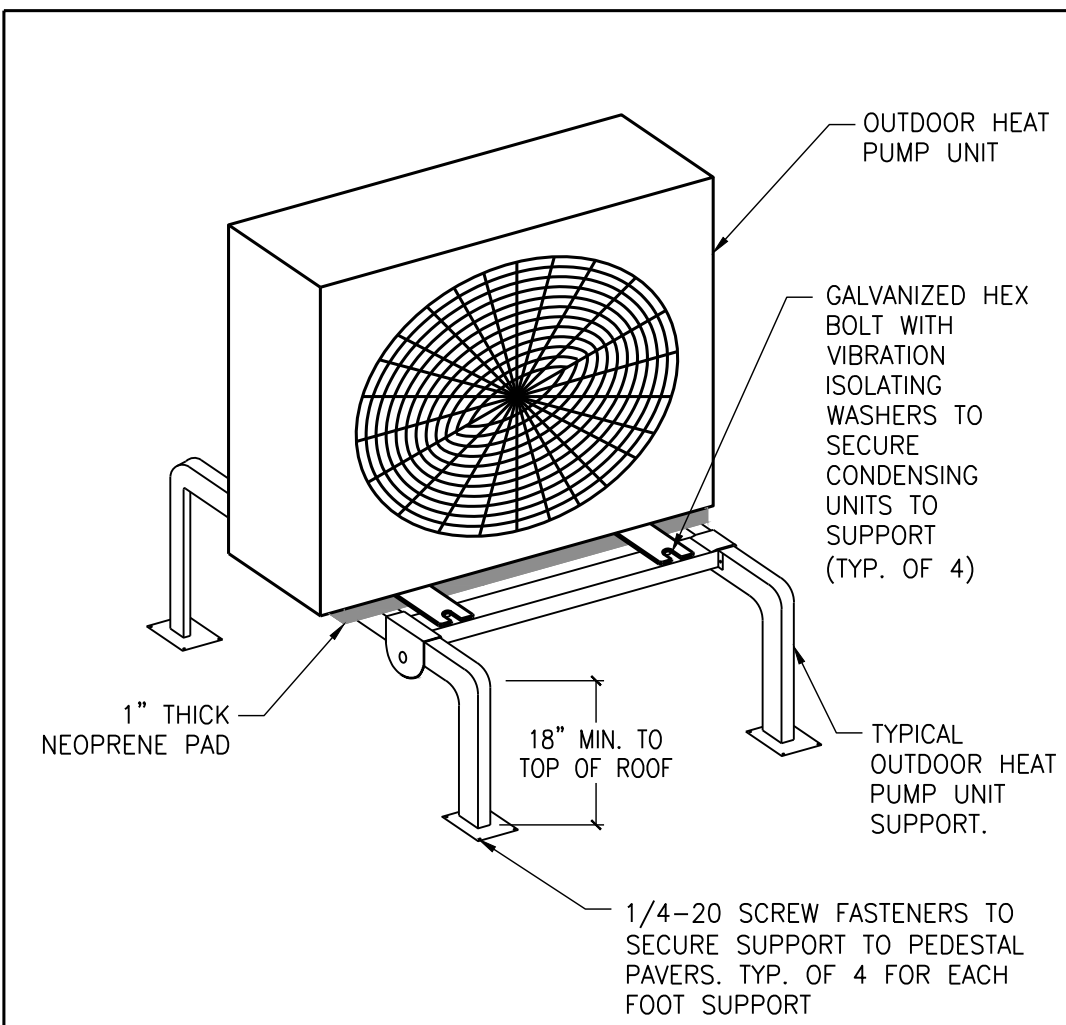


MULTIPLE REFRIGERANT PIPES SUPPORT

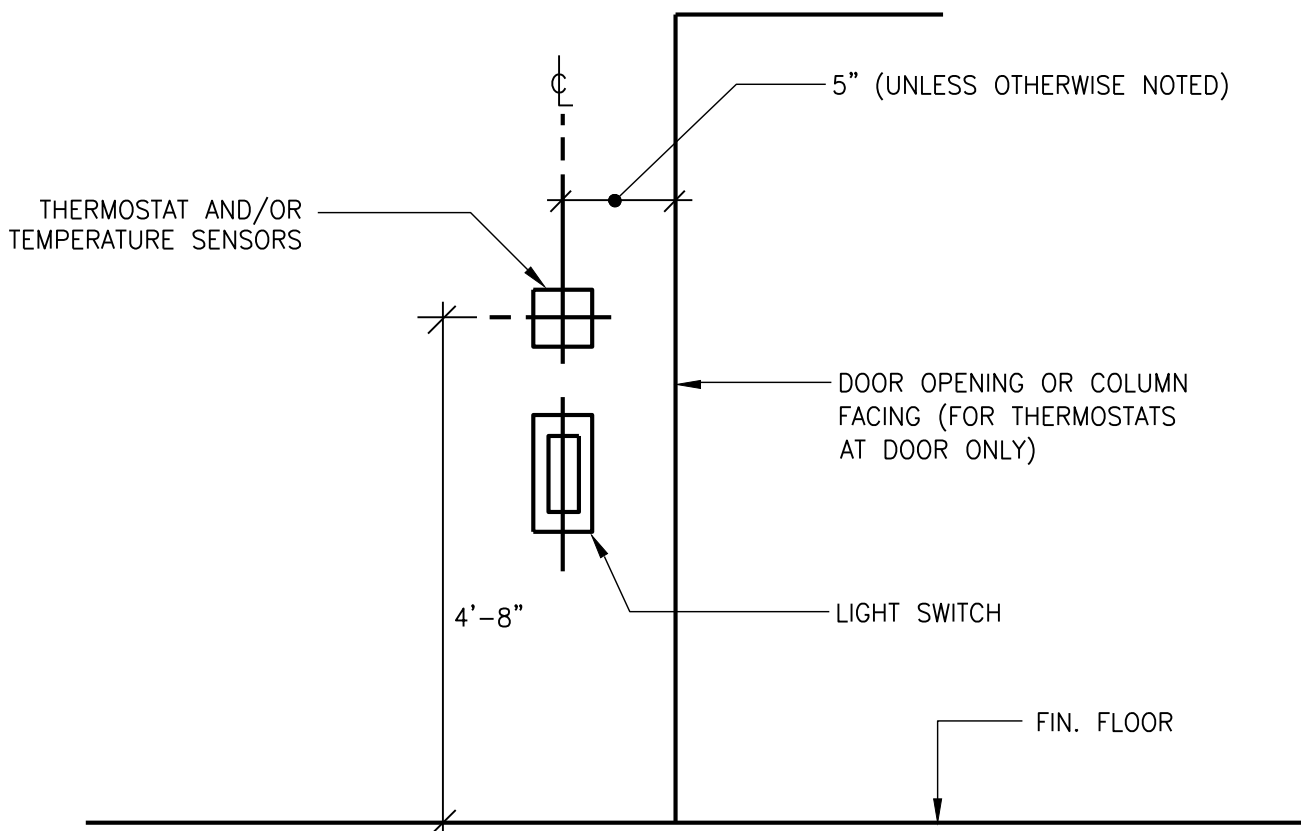
FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)	
	CONDUCTIVITY BTU-INCH/(H-FT²-°F)	MEAN RATING TEMPERATURE, °F		
251-350	0.29-0.32	200	<1	1 TO < 1½
201-250	0.27-0.30	150	3.0	4.0
141-200	0.25-0.29	125	2.5	2.5
105-140	0.21-0.28	100	1.5	1.5
40-60	0.21-0.27	75	1.0	1.0
<40	0.20-0.26	50	0.5	0.5

- A. FOR PIPING SMALLER THAN 1-1/2" AND LOCATED IN PARTITIONS WITHIN CONDITION SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH.)
- B. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED AS FOLLOWS: $T=R\{(L+1/R)/k-1\}$
- WHERE:
- T = MINIMUM INSULATION THICKNESS.
R = ACTUAL OUTSIDE RADIUS OF PIPE
L = INSULATION THICKNESS LISTED IN THE TABLE FOR APPLICABLE FLUID TEMPERATURE AND PIPE SIZE.
K = CONDUCTIVITY OF ALTERNATE MATERIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE FLUID TEMPERATURE (BTU-in/h-ft²-°F)
k = THE UPPER VALUE OF THE CONDUCTIVITY RANGE LISTED IN THE TABLE FOR THE APPLICABLE FLUID TEMPERATURE.

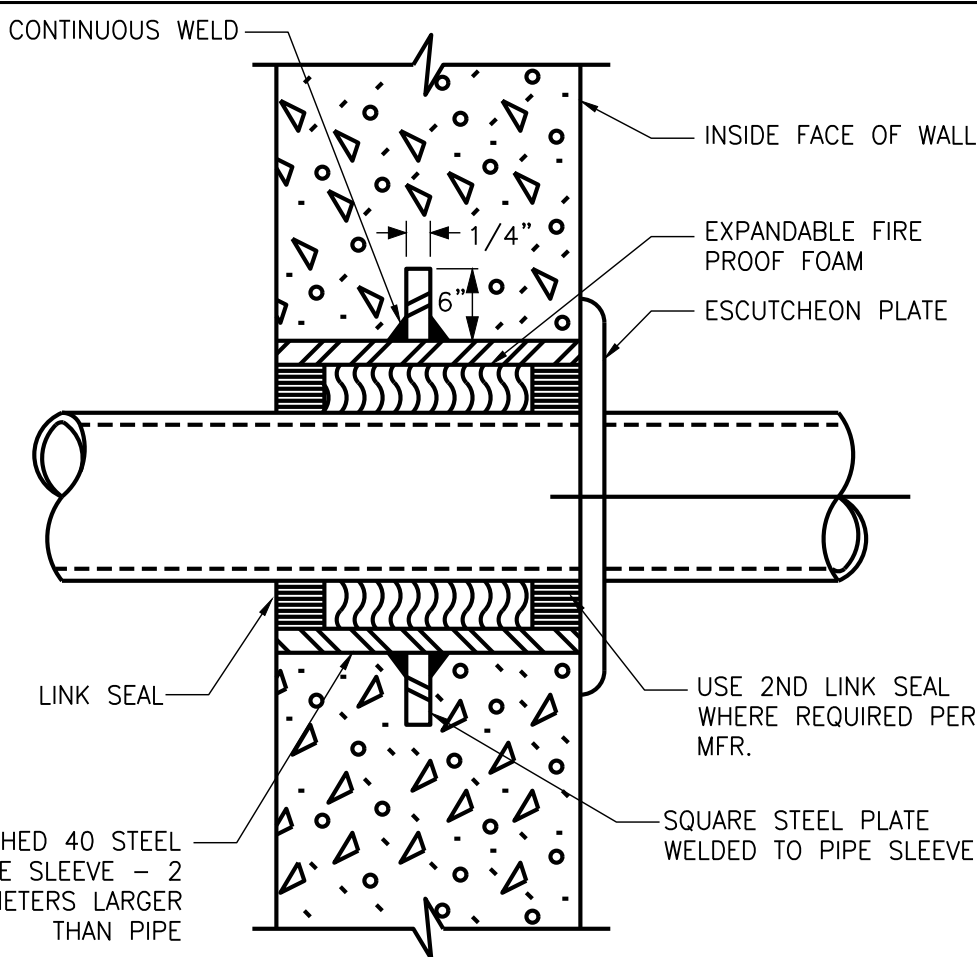
PIPING INSULATION DETAIL



TYPICAL OUTDOOR UNIT SUPPORT

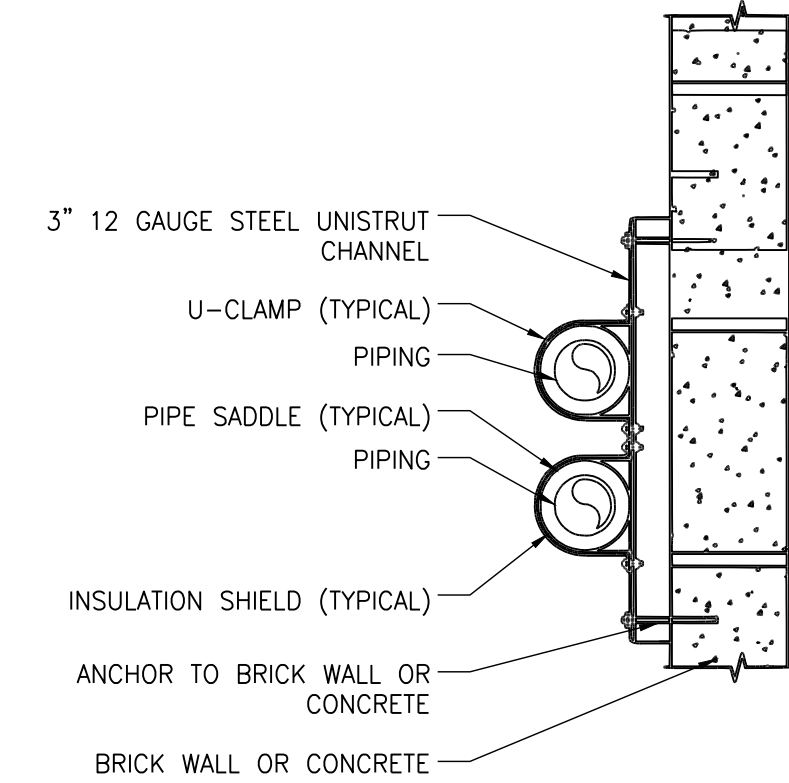


THERMOSTAT LOCATION



NOTES:
1. SLEEVE DETAIL APPLIES EQUALLY TO INSTALLATIONS BELOW OR ABOVE GRADE
2. SEE ARCHITECTURAL DRAWINGS FOR WALL THICKNESS.

PIPE SLEEVE AT OUTSIDE WALL

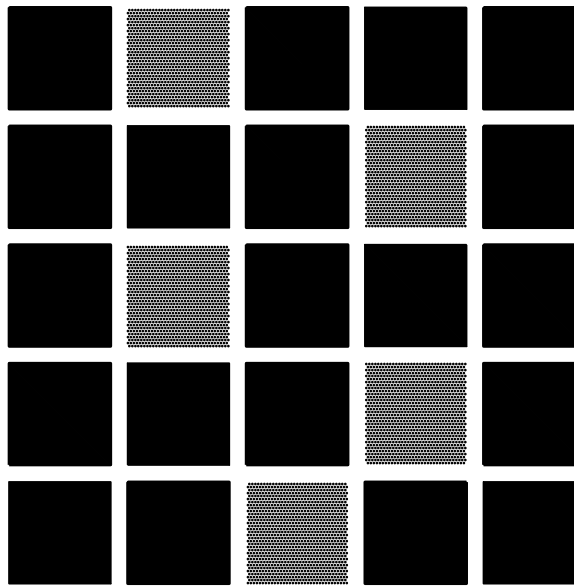


PIPE WALL SUPPORT

Lothrop

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333 Westchester Avenue
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White Plains Rochester Red Bank Hartford



Westchester
Community College
State University of New York

ISSUE NO.	ISSUE DATE	DESCRIPTION
4	7/22/2022	BID ISSUE
3	6/24/2022	100% PROGRESS ISSUE
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1	5/10/2022	ISSUED FOR PROGRESS

WESTCHESTER
COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

75 GRASSLAND RD
VALHALLA, NY 10595

MECHANICAL
DETAILS

PROJECT NO.: 23095

DRAWING NO.:

M300

collado
445 HAMILTON AVE, SUITE 608
White Plains, NY 10601
(914) 332-7658

P:\2000- 2021\2005 - MC Cybersecurity Lab Renovation\LF\LE.dwg
one eighth inch = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

SYMBOL LIST	
ELECTRICAL AND IT DEVICES	
	DISCONNECT SWITCH--TOGGLE TYPE HORSEPOWER RATED, WITH THERMAL OVERLOAD. LABEL SWITCH WITH LOAD SERVED.
	GFI = GROUND FAULT INTERRUPTOR WP = WEATHERPROOF ENCLOSURE USB = WITH USB-A AND USB-C CONNECTORS. LEGRAND RADIANT OR SIMILAR
	WALL DOUBLE DUPLEX EACH RECEPTACLE RATED AT 20 AMPS, 120 VOLTS IN ONE 4"x4" BOX
	RECEPTACLE PROVIDED ON ELECTRIFIED PARTITION. PROVIDED BY OTHERS.
	VOICE OUTLET BOX. PROVIDE (1) 1" EMT CONDUIT FROM OUTLET BOX TO ACCESSIBLE CEILING. U.O.N. "W" INDICATES WALL PHONE OUTLET "IT" INDICATES TO PROVIDE (1) CAT6A FROM OUTLET TO IDF/RACKS RM 147
	COMBINATION VOICE/DATA OUTLET BOX. PROVIDE (1) 1" EMT CONDUIT WITH DATA CABLE FROM OUTLET BOX TO ACCESSIBLE CEILING. U.O.N. "D" INDICATES QUANTITY OF DATA PORTS AND CAT6A CABLES TO PROVIDE FROM THE OUTLET TO THE IDF/RACKS RM 147
	PROVIDE 2X2 CEILING PANEL W/ DUPLEX OUTLET AND DATA OUTLETS. MANUFACTURER: PEERLESS-AV MODEL: CMJ455 COORDINATE LOCATION WITH CAMPUS. "2D" INDICATES PROVIDE (2) DATA PORTS W/ CAT6A CABLE TO IDF/RACKS ROOM 147 "4P" INDICATES TO PROVIDE (4) DATA PORTS W/ (2) CAT6A CABLES TO ROW 2 AND (2) CAT6A CABLES TO ROW 3
	CEILING MOUNTED JUNCTION BOX (J--BOX) WITH HOMERUN CIRCUIT AND FLEXIBLE CONNECTION TO EQUIPMENT. USE SEALTITE FOR OUTDOOR CONNECTIONS.
	WALL MOUNTED JUNCTION BOX (J--BOX) WITH HOMERUN CIRCUIT AND FLEXIBLE CONNECTION TO EQUIPMENT. USE SEALTITE FOR OUTDOOR CONNECTIONS.
ELECTRICAL DISTRIBUTION	
	PANEL BOARD
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT RISING UP AND TERMINATE IN ACCESSABLE HUNG CEILING.
	PULL BOX
	FUSED DISCONNECT SWITCH. FUSE TO BE EQUAL TO OR LESS THAN THE WIRING AMPACITY.
	UNFUSED DISCONNECT SWITCH; SWITCH SIZE TO BE GREATER THAN OR EQUAL TO OVER CURRENT PROTECTION. U.O.N.
	GROUND CONNECTION
	MOTOR, NUMBER INDICATES HORSEPOWER RATING
	CIRCUIT BREAKER
	SECTION A

LIGHTING FIXTURE SCHEDULE							
FIXTURE SYMBOL	FIXTURE TAG	FIXTURE DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMP TYPE	VOLTS	WATTS
	--	2x4 RECESSED LED TROFFER WITH 0 TO 10 VOLT DIMMING DRIVER	METALUX	24CZ2-50-HRP-UNV-L835-HCD-1	LED	UNV	39.6

	PP-KIT/21,23,25
	CIRCUIT NUMBER -----
HOMERUN NOTATION	
FIRE ALARM DEVICES	
	WALL MOUNTED COMBINATION HORN/STROBE
	WALL MOUNTED STROBE
AUDIO/VIDEO DEVICES	
	CLG. SPEAKER -- RECESSED (BACKBOX ONLY). SPEAKER BY CAMPUS.
	WALL MOUNTED SPEAKER BY CAMPUS. PROVIDE A PAIR OF #14AWG PLENUM RATED SPEAKER WIRE TO ROW 2. PROVIDE WALL PLATE WITH SPEAKER WIRE TERMINATIONS. COORDINATE MOUNTING HEIGHT WITH THE CAMPUS.
LIGHTING CONTROLS	
BASIS OF DESIGN: ACUITY CONTROLS	
ALTERNATE ACCEPTABLE MANUFACTURERS: WATTSTOPPER OR DOUGLAS LIGHTING CONTROLS	
	CEILING-MOUNTED MOTION SENSOR. REFER TO DRAWING E-301 FOR LIGHTING CONTROLS WIRING DIAGRAM MODEL nCM PDT 9 RJB LOWERCASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED
	POWER PACK. REFER TO DRAWING E-301 FOR LIGHTING CONTROLS WIRING DIAGRAM. "VS" INDICATES NON-DIMMING VACANCY-TYPE MODEL (nPP16 SA) "YSD" INDICATES 0-10V DIMMING VACANCY-TYPE MODEL (nPP16 D SA) LOWERCASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED.
	WALL SWITCH. REFER TO DRAWING E-301 FOR LIGHTING CONTROLS WIRING DIAGRAM. STANDARD MODEL: nPODMA "D" INDICATES SINGLE-POLE DIMMING MODEL (nPODMA DX WH) LOWERCASE LETTER INDICATES LIGHTING FIXTURES CONTROLLED.

ABBREVIATIONS	
Ⓢ	"AT" OR "EACH AT"
A	AMPERE
AC	ABOVE COUNTER
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
°C	DEGREE CELSIUS
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CLOS	CLOSET
COMM	COMMUNICATION
CONT	CONTINUATION
CT	CURRENT TRANSFORMER
CU	COPPER
DEG	DEGREE
DN	DOWN
DP	DISTRIBUTION PANELBOARD
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
EXT	EXTERIOR
°F	DEGREE FAHRENHEIT
FAP	FIRE ALARM PANEL
FDS	FUSED DISCONNECT SWITCH
FIXT	FIXTURE
FL	FLOOR
FT	FEET OR FOOT
G	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
HZ	HERTZ
INST	INSTANTANEOUS
JB	JUNCTION BOX

KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
MIN	MINIMUM
MLO	MAIN LUGS ONLY
N	NEUTRAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PB	PULLBOX
PH	PHASE
PWR	POWER
RECEPT	RECEPTACLE
REQ	REQUIRED
RM	ROOM
SECT	SECTION
SP	SINGLE POLE
SPEC	SPECIFICATION
SW	SWITCH
SYS	SYSTEMS
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPERATURE
TRANSF	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
W	WATT
WP	WEATHERPROOF

TELECOMMUNICATION GENERAL NOTES

- TERMINATE ALL RJ45 JACKS WITH T568B PINNING, UON.
- LABEL ALL CABLES WITH 12" OF FINAL TERMINATION.
- CONTRACTOR SHALL MAINTAIN THE TWIST OF INDIVIDUAL PAIRS TO WITHIN 1/2" O FINAL TERMINATION FOR ALL CATEGORY 3 OR HIGHER CABLES.
- TELECOMMUNICATION DRAWINGS ARE TO BE USED FOR CABLE SYSTEM INSTALLATION AND COORDINATION WITH OTHER CONTRACTORS AND SYSTEMS.
- PRIOR TO THE COMMENCEMENT OF INSTALLATION OF ANY ELEMENTS OF THE CABLE SYSTEM, THE CONTRACTOR SHALL MEET WITH OWNER'S REPRESENTATIVES AND SUBMIT FOR APPROVAL INSTALLATION DETAILS INCLUDING CABLE ROUTING, WORK SCHEDULING, MATERIALS DELIVERY AND ANY OTHER DETAILS PERTINENT TO THE WORK.
- USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES WITH HIGHER THAN CATEGORY 3 RATING.
- ALL CABLES RUN IN CEILING IN AREAS SHALL BE PROPERLY SUPPORTED WITH J-HOOKS MOUNTED TO SLAB AT MINIMUM OF 4" INTERVALS. NO CABLES SHALL REST OR TOUCH CEILING ASSEMBLIES.
- ALL LABELS SHALL BE MACHINE PRINTED. NO HAND LETTERED LABELS SHALL BE USED.
- USE ONLY PLENUM RATED CABLES.
- DO NOT RUN TELECOMMUNICATION CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
- MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
- COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH ARCHITECT.
- ALL OUTLET MOUNTING HEIGHTS SHALL BE COORDINATED WITH THE CAMPUS.
- OBTAINS AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURES AND SYSTEM WARRANTIES.
- CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES AND THEIR SUPPORTING FRAMEWORK STRUCTURE WITH MATCHING MATERIALS IN ACCESSIBLE CEILING AREAS.
- WHERE BACK TO BACK ELECTRIC/TELECOM OUTLETS ARE INDICATED ON EACH SIDE OF THE SAME PARTITION/WALL, OUTLET BOXES SHALL BE STAGGERED MINIMUM 16" FOR ACOUSTICS.

ELECTRICAL GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWING IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS, MAINTAIN HEADROOM AND SPACE CONDITIONS.
- RACEWAYS SHALL BE ALLOWED TO PASS OVER WATER, OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY SHALL BE ROUTED WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT PERPENDICULAR CROSSINGS WHERE RACEWAY SHALL BE A MINIMUM OF 1 INCH FROM PIPE COVER.
- FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
- SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
- RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- CUT CONDUIT ENDS SQUARE, REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
- HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED.
- PROVIDE PULLBOXES AS INDICATED, REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
- JUNCTION AND PULL BOXES SHOULD NOT BE LOCATED EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.
- COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
- CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT; MINIMUM 18 IN. IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
- COORDINATE ALL EXPOSED CONDUIT RUNS WITH ARCHITECT PRIOR TO EXPOSED CONDUIT INSTALLATION.
- FOR EACH MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE-WRITTEN DIRECTORY CARD TO REFLECT NEW CIRCUITING.
- LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. PROVIDE PULL CORD FOR ALL EMPTY CONDUITS.
- DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0°C) PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
- WIRE COLOR CODING: AS PER CODE. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
- SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART.
- SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
- ALL LIGHT FIXTURES AND INSTRUMENTS THAT ARE REMOVED SHOULD BE CAREFULLY STORED FOR FUTURE USE. COORDINATE REMOVAL AND STORAGE OF ALL EQUIPMENT WITH BUILDING MANAGEMENT.
- DO NOT SWITCH POWER TO BATTERY BALLAST FOR EMERGENCY FIXTURES SHOWN SWITCH CONTROLLED.
- FOR LIGHT FIXTURES SPECIFICATIONS SEE ARCHITECTURAL SPECIFICATIONS & DRAWINGS.
- VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO CAMPUS.
- LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
- HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET: RECEPTACLES AND TELEPHONES:
GENERALLY 1'-6"
OVER WORK BENCHES 3'-0"
WALL SWITCHES 4'-0"
- INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF CAMPUS. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
- POWER INTERRUPTIONS AND CORE DRILLING ONLY PERMITTED AS APPROVED BY BUILDING MANAGER.
- ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE RATED NEMA-3R.
- UPON COMPLETION OF THE WORK, A SET OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE BUILDING MANAGER AND TENANT.
- CABLING WITHIN CEILING SHALL BE PLENUM RATED

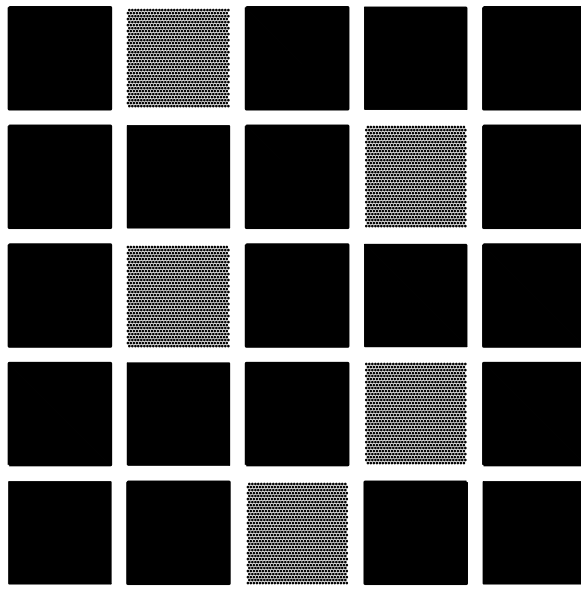
ELECTRICAL DRAWING LIST	
E-001	ELECTRICAL SYMBOL LIST, ABBREVIATIONS, GENERAL NOTES AND DRAWING LIST
ED-100	ELECTRICAL DEMOLITION PLAN
E-100	ELECTRICAL POWER AND TEL/DATA PLAN
E-200	ELECTRICAL LIGHTING PLAN
E-300	ELECTRICAL SCHEDULES AND DETAILS
E-301	ELECTRICAL DETAILS

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4	7/22/2022	BID ISSUE
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ISSUE NO.	ISSUE DATE	DESCRIPTION

WESTCHESTER COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

75 GRASSLAND RD
VALHALLA, NY 10595

ELECTRICAL COVER SHEET

PROJECT NO.: 23095

DRAWING NO.:

E001

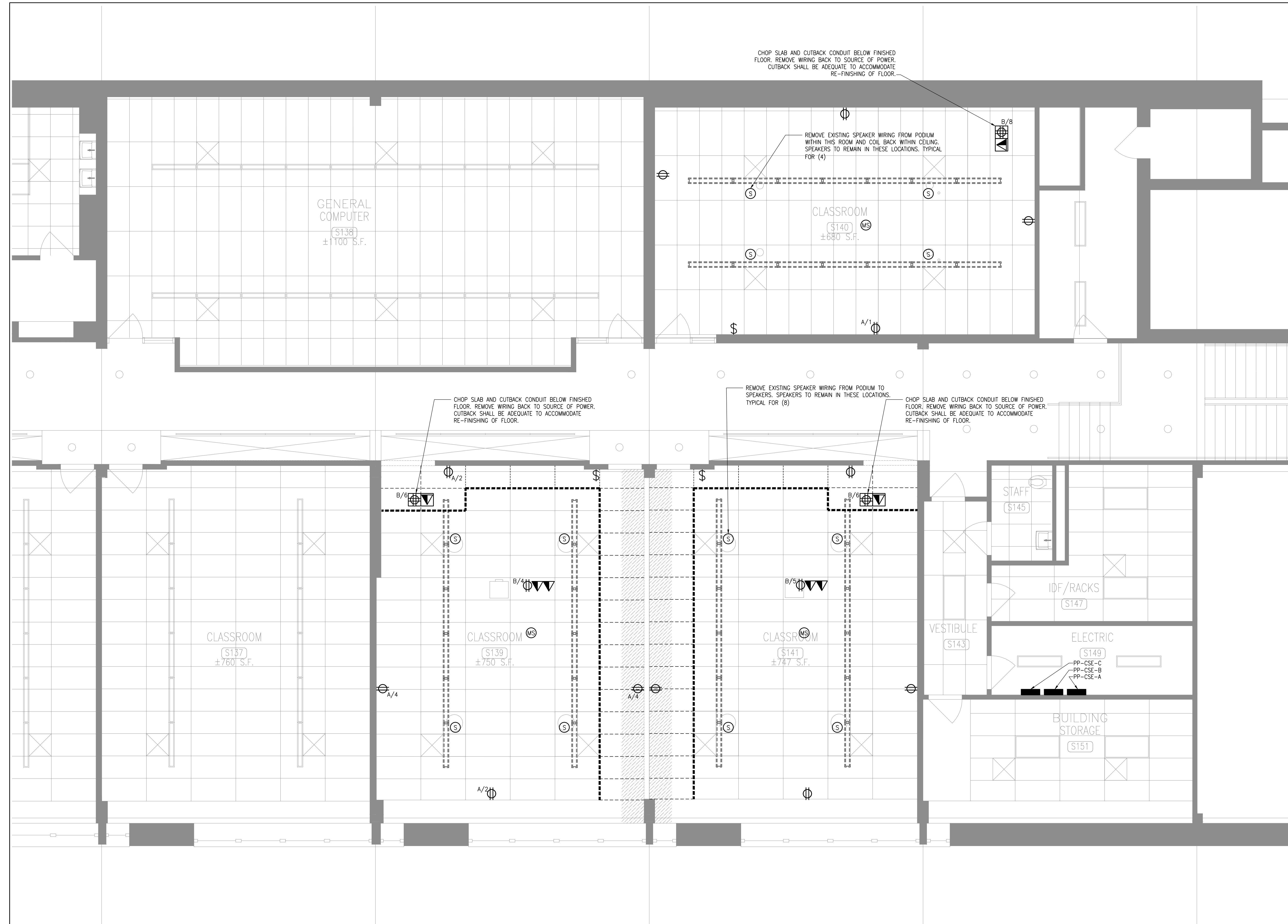
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75 GRASSLAND RD
VALHALLA, NY 10595

ELECTRICAL DEMOLITION PLAN

DRAWING NO.:

ED100



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

ELECTRICAL NOTES

1. REMOVE EQUIPMENT IDENTIFIED ON THIS PLAN WITH ASSOCIATED WIRING, RACEWAY, BOXES, ETC. UON.
2. EXISTING PANELS PP-CSE-A, B, AND C TO REMAIN.



4	7/22/2022	BID ISSUE
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WESTCHESTER
COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

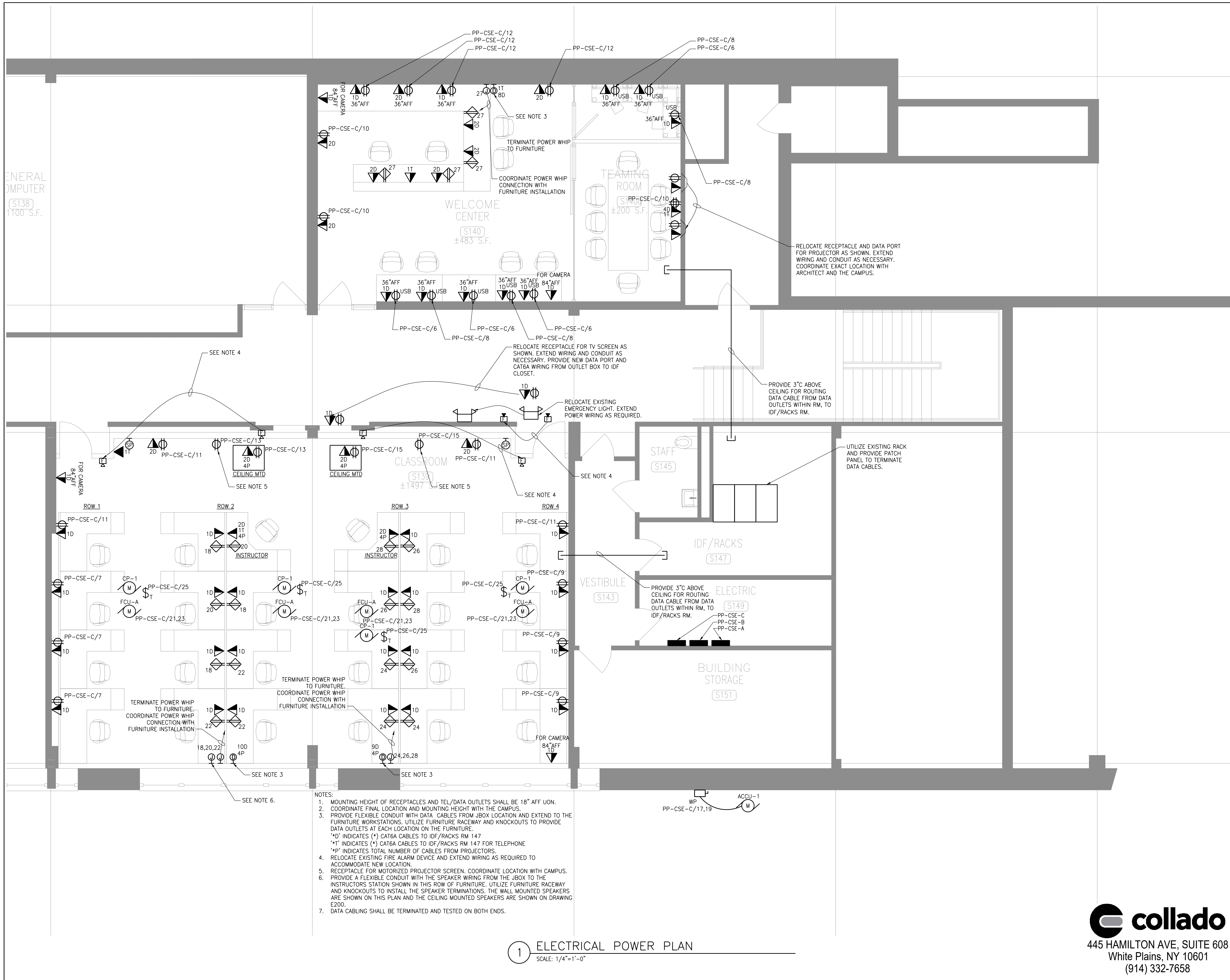
75 GRASSLAND RD
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ELECTRICAL
POWER AND TEL/DATA
PLAN

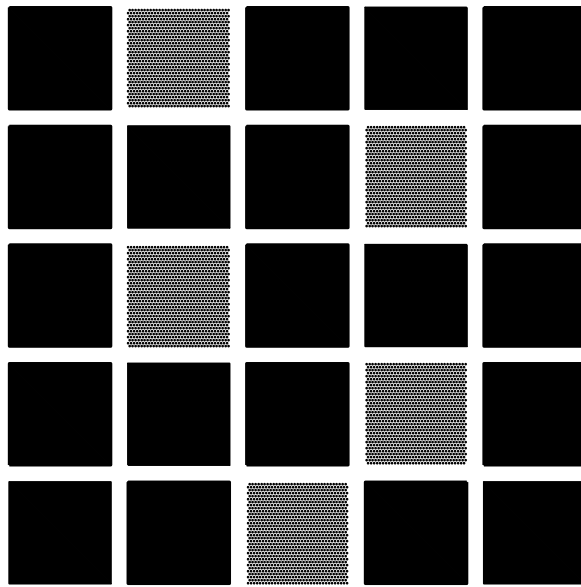
PROJECT NO.:	23095
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DRAWING NO.:

E100



1 ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"



4	7/22/2022	BID ISSUE
3	6/24/2022	100% PROGRESS ISSUE
2	6/02/2022	ISSUED FOR ARCH COORDINATION
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WESTCHESTER
COMMUNITY COLLEGE

CYBER SECURITY LABORATORY
RENOVATIONS

75 GRASSLAND RD
VALHALLA, NY 10595

ELECTRICAL SCHEDULES
AND DETAILS

PROJECT NO.: 23095

DRAWING NO.:

E300



445 HAMILTON AVE, SUITE 608
White Plains, NY 10601
(914) 332-7658

EXISTING PANEL											☐ RECESSED		☐ MAIN LUG ONLY	
PANEL NO. <u>PP-CSE-A</u> SECTION <u>-</u>											☐ SURFACE MOUNTED		☒ MAIN CB	
VOLTS <u>125A</u>		PH <u>3</u>		W <u>4</u>		G <u>1</u>		☒ SYMM.		☐ FEED THRU LUG				
MAIN CB <u>125A</u>		BUS <u>125A</u>		MIN. INTERRUPTING RATING <u>-</u>		SYMM.								
CKT NO.	TRIP (AMPS)		DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE KVA			LOAD (KVA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT NO.			
					A	B	C							
1	20		EXISTING CKT S130,S140,S151	0	0			0	EXISTING CKT S139,S141	20	2			
3	20		EXISTING CKT S149	0		0		0	EXISTING CKT S137,S139	20	4			
5	20		EXISTING CKTS145 GFI	0				0	EXISTING CKT S142 GFI	20	6			
7	20		EXISTING SPARE	0	0			0	EXISTING CKT SPARE	20	8			
9	20		EXISTING SPARE	0		0		0	EXISTING CKT S130,S138	20	10			
11	20		EXISTING SPARE	0				0	EXISTING CKT S138 QUAD	20	12			
13	20		EXISTING CKT S238,S240	0	0			0	EXISTING CKT S138 QUAD	20	14			
15	20		EXISTING CKT S230,S243,S243B	0		0		0	EXISTING CKT S241	20	16			
17	20		EXISTING CKT S239,S241	0			0	0	EXISTING CKT S241,S243C	20	18			
19	20		EXISTING CKT S245,S245H	0	0			0	EXISTING CKT S245 FAX/COPIER	20	20			
21	20		EXISTING CKT S245E,F,G	0		0		0	EXISTING CKT S245 FAX/COPIER	20	22			
23	20		EXISTING CKT S245B,C,D,E	0				0	EXISTING CKT S245 FAX/COPIER	20	24			
25	20		EXISTING CKT S245A,B	0	0			0	EXISTING CKT S147,S149 EXHAUST FAN	20	26			
27	20		EXISTING CKT S147 IDF	0		0		0	EXISTING SPARE	20	28			
29	20		EXISTING SPARE	0				0	EXISTING SPARE	20	30			
31	20		EXISTING SPARE	0	0			0	EXISTING SPARE	20	32			
33	20		EXISTING SPARE	0		0		0	EXISTING SPARE	20	34			
35	20		EXISTING SPARE	0			0	0	EXISTING SPARE	20	36			
37	20		EXISTING SPARE	0	0			0	EXISTING SPARE	20	38			
39	20		EXISTING SPARE	0		0		0	EXISTING SPARE	20	40			
41	20		EXISTING CKT A.C.1 FIRE ALARM SHUTDOWN	0				0	EXISTING SPARE	20	42			
					0	0	0							

EXISTING PANEL											☐ RECESSED	☐ MAIN LUG ONLY			
PANEL NO. <u>PP-CSE-C</u> SECTION <u>-</u>											☒ SURFACE MOUNTED	☒ MAIN CB			
VOLTS <u>120/208</u>		PH <u>3</u>	W <u>4</u>	G <u>1</u>							☐ FEED THRU LUG				
MAIN CB <u>125A</u>		BUS <u>125A</u>			MIN. INTERRUPTING RATING <u>-</u>			SYMM.							
CKT NO.	TRIP (AMPS)	DESCRIPTION OF LOAD			LOAD (KVA)	PER PHASE KVA			LOAD (KVA)	DESCRIPTION OF LOAD			TRIP (AMPS)	CKT NO.	
						A	B	C							
1	20	EXISTING CKT			0	0			0	EXISTING CKT			20	2	
3	20	EXISTING CKT			0		0		0	EXISTING CKT			20	4	
5	20	EXISTING CKT			0				0	CYBER SEC. WELCOME CENTER RECEPTACLES			20	6	
7	20	CYBER SEC. RM S139 ROW 1 RECEPTACLES			0	0			0	CYBER SEC. WELCOME CENTER RECEPTACLES			20	8	
9	20	CYBER SEC. RM S139 ROW4 RECEPTACLES			0		0		0	CYBER SEC. WELCOME CENTER RECEPTACLES			20	10	
11	20	CYBER SEC. RM S139 TV RECEPTACLES			0				0	CYBER SEC. WELCOME CENTER RECEPTACLES			20	12	
13	20	CYBER SEC. RM S139 PROJECTOR RECEPTACLES			0	0			0	CYBER SEC. RM S139 LTG			20	14	
15	20	CYBER SEC. RM S139 ROW 1 RECEPTACLES			0		0		0	CYBER SEC. RM S139 LTG			20	16	
17	35	CYBER SEC. ACCU-1 3#8+1#10G IN 3/4"			2				2	0	CYBER SEC. RM ROW 2 RECEPTACLES 4#12+1#12G IN 3/4"			20	18
19					2	2			0					20	20
21	15	CYBER SEC. FAN COIL UNITS FCU-A 3#12+1#12G IN 3/4"			.02		0.02		0	0	CYBER SEC. RM ROW 3 RECEPTACLES 4#12+1#12G IN 3/4"			20	22
23					.02			0.02	0					20	24
25	20	CYBER SEC. CONDENSATE PUMPS CP-1			0	0			0	CYBER SEC. RM ROW 3 RECEPTACLES 4#12+1#12G IN 3/4"			20	26	
27	20	CYBER SEC. WELCOME CENTER RECEPTACLES			0		0		0				20	28	
29		EXISTING SPACE			0				0	EXISTING SPACE				30	
31		EXISTING SPACE			0	0			0	EXISTING SPACE				32	
33		EXISTING SPACE			0		0		0	EXISTING SPACE				34	
35		EXISTING SPACE			0				0	EXISTING SPACE				36	
37		EXISTING SPACE			0	0			0	EXISTING SPACE				38	
39		EXISTING SPACE			0		0		0	EXISTING SPACE				40	
41		EXISTING SPACE			0				0	EXISTING SPACE				42	
						2	0.02	2.02							

ELECTRICAL KEYED NOTES:

① PROVIDE NEW CB.

EXISTING PANEL														☐ RECESSED		☐ MAIN LUG ONLY	
PANEL NO. <u>PP-CSE-B</u> SECTION <u>-</u>														☒ SURFACE MOUNTED		☒ MAIN CB	
VOLTS <u>120/208</u>		PH <u>3</u>		W <u>4</u>		G <u>1</u>										☐ FEED THRU LUG	
MAIN CB <u>125A</u>		BUS <u>125A</u>		MIN. INTERRUPTING RATING <u>-</u>		SYMM.											
CKT NO.	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE KVA			LOAD (KVA)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT NO.							
				A	B	C											
1	20	EXISTING CKT S149 IDF	0	0			0	EXISTING CKT S149 IDF	20	2							
3			0		0		0		20	4							
5	20	EXISTING CKT S149 IDF	0			0	0	EXISTING CKT S139 PROJECTOR	20	6							
7			0	0			0	EXISTING CKT S139,S141 PODIUM	20	8							
9	20	EXISTING CKT S141 PROJECTOR	0		0		0	EXISTING CKT S137 PROJECTOR	20	10							
11	20	EXISTING CKT S138 PROJECTOR	0			0	0	EXISTING CKT S138 QUAD	20	12							
13	20	EXISTING CKT S140 PROJECTOR	0	0			0	EXISTING CKT S138 QUAD	20	14							
15	20	EXISTING CKT S138 QUAD	0		0		0	EXISTING CKT S138 QUAD	20	16							
17	20	EXISTING CKT S138 QUAD	0			0	0	EXISTING CKT S138 QUAD	20	18							
19	20	EXISTING CKT S138 QUAD	0	0			0	EXISTING CKT S138 QUAD	20	20							
21	20	EXISTING CKT S138 QUAD	0		0		0	EXISTING CKT S239 PROJECTOR	20	22							
23	20	EXISTING CKT S138 QUAD	0			0	0	EXISTING CKT S241 QUAD	20	24							
25	20	EXISTING CKT S245H	0	0			0	EXISTING CKT S241 QUAD	20	26							
27	20	EXISTING CKT S245E,F,G,H	0		0		0	EXISTING CKT TV MONIORS 7+8	20	28							
29	20	EXISTING CKT S245A,B,C,D	0			0	0	EXISTING CKT S243	20	30							
31	20	EXISTING CKT S243,S243A,S245	0	0			0	EXISTING CKT S240 A/V RACK	20	32							
33	20	EXISTING CKT S238 PROJECTOR	0		0		0	EXISTING CKT S240 PROJECTOR	20	34							
35	20	EXISTING CKT S238 A/V RACK	0			0	0	EXISTING CKT S238,S240 FLOOR BOX	20	36							
37	20	EXISTING CKT S138,S140 PODIUM	0	0			0	EXISTING CKT TOWER LIGHTS	20	38							
39	20	EXISTING SPARE	0		0		0	EXISTING CKT SCAB HEATERS S142	20	40							
41	20	EXISTING SPARE	0			0	0	SPARE	20	42							
43	20	EXISTING SPARE	0	0			0	SPARE	20	44							
45	20	EXISTING SPARE	0		0		0			46							
47			0			0	0			48							
				0	0	0											

LIGHTING CONTROL WIRING DETAIL

WALL PHONE OUTLET

PATCH PANEL DETAIL

DATA OUTLET DETAIL

J-HOOK DETAIL

WALL-MOUNTED DATA OUTLET DETAIL

FIRESTOPPING PENETRATIONS GUIDELINE

GENERAL GUIDELINE FOR SELECTING APPROPRIATE FIRESTOPPING SYSTEMS:

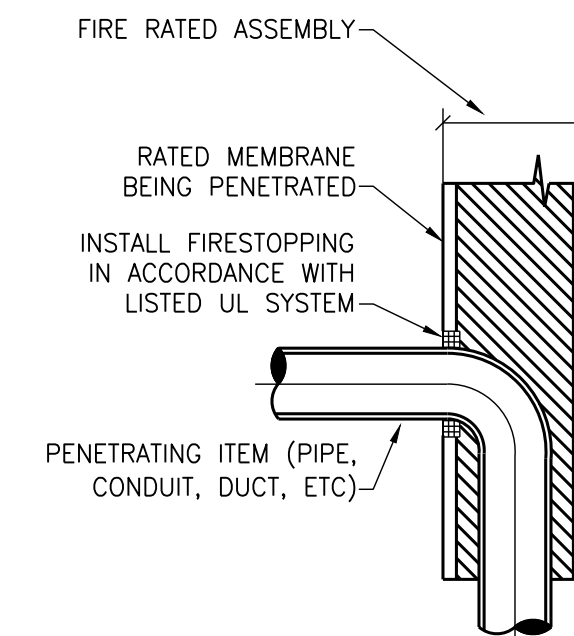
DETERMINE SYSTEM COMPONENTS:

- TYPE OF PENETRATION (MEMBRANE OR THROUGH)
- PENETRATING ITEM
- ASSEMBLY BEING PENETRATED
- MINIMUM AND MAXIMUM ANNULAR SPACES, POINTS OF CONTACT

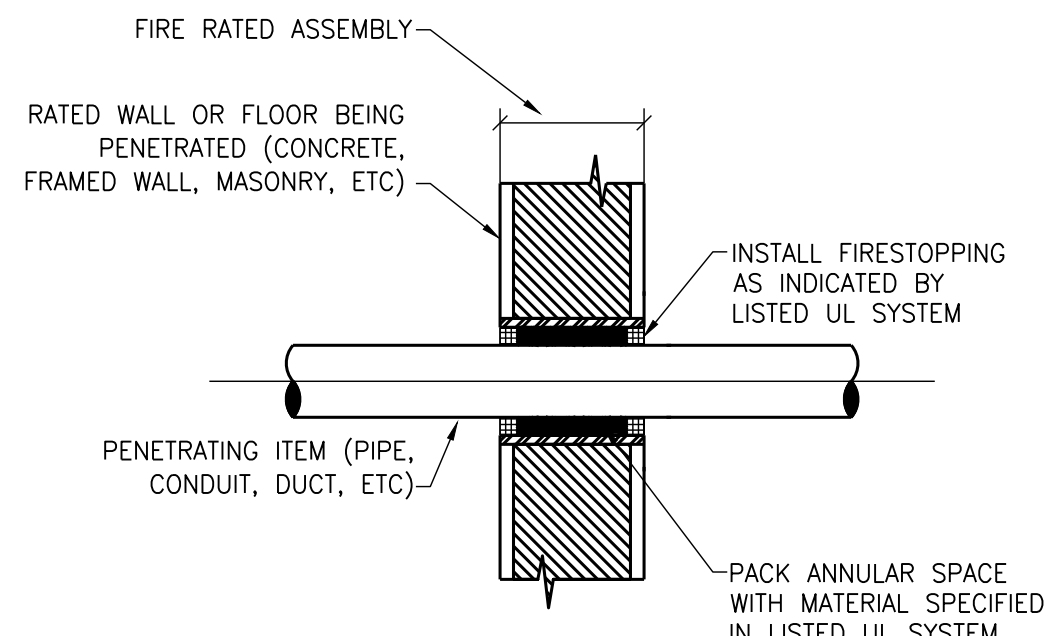
DETERMINE RATING REQUIREMENTS:

- ### -F-RATING, T-RATING, L-RATING, AND W-RATING

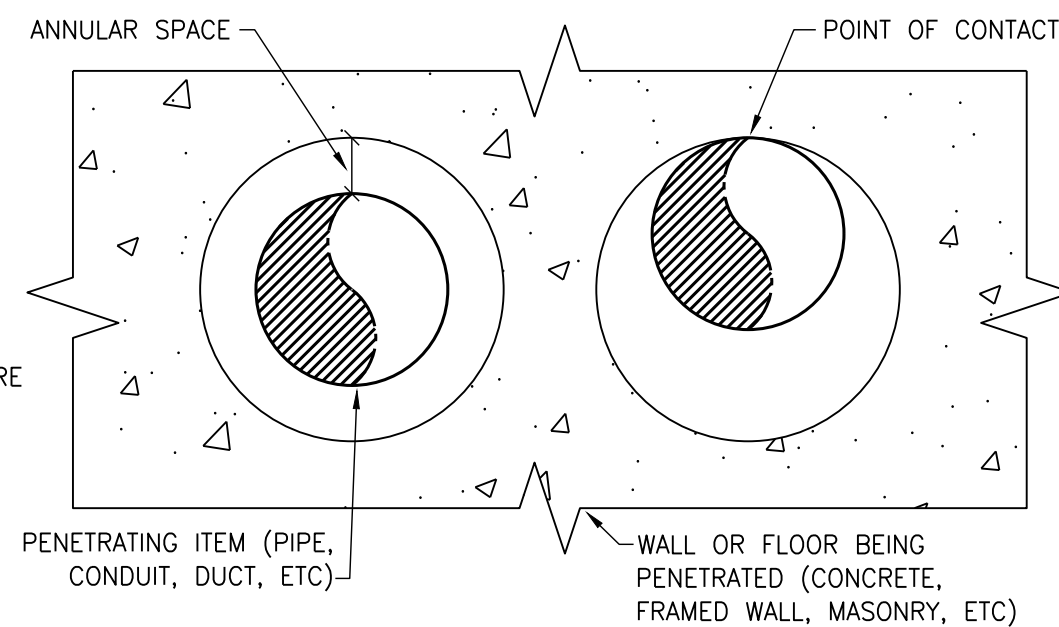
FOR EACH PENETRATION, SELECT A SYSTEM LISTED BY AN APPROVED TESTING AGENCY (UL, FM, ETC) THAT MEETS ALL OF THE ABOVE PARAMETERS



MEMBRANE PENETRATION



THROUGH PENETRATION



ANNULAR SPACE

F-RATING: THE AMOUNT OF TIME (IN HOURS) BEFORE FLAMES CAN PASS THROUGH A PENETRATION FROM THE SIDE OF A WALL OR FLOOR EXPOSED TO FLAMES TO THE UNEXPOSED SIDE

T-RATING: THE AMOUNT OF TIME (IN HOURS) BEFORE THE SURFACE OF AN ASSEMBLY AND/OR PENETRATING ITEM ON THE SIDE OF A WALL OR FLOOR NOT EXPOSED TO FLAMES RISES TO A TEMPERATURE OF 325°F

L-RATING: THE AMOUNT OF AIR/SMOKE (IN CUBIC FEET PER MINUTE PER SQUARE FOOT) THAT CAN LEAK THROUGH THE PENETRATION

W-RATING: A FIRESTOPPING PRODUCT'S ABILITY TO RESIST THE PASSAGE OF WATER THROUGH FLOOR ASSEMBLIES

REFER TO PROJECT SPECIFICATIONS FOR RATINGS AND ADDITIONAL FIRESTOPPING REQUIREMENTS

DEFINITIONS AND NOTES

4	7/22/2022	BID ISSUE
3	6/24/2022	100% PROGRESS ISSUE
2	6/02/2022	ISSUED FOR ARCH COORDINATION
1	5/10/2022	ISSUED FOR PROGRESS
ISSUE NO.	ISSUE DATE	DESCRIPTION