1 03/12/2025 BID ADDENDUM No. 3

BEDFORD CENTRAL DISTRICT

DISTRICT ADMINISTRATION OFFICES

632 SOUTH BEDFORD ROAD, BEDFORD, NY 10506

PHASE 2 - BOND IMPROVEMENTS

AT

FOX LANE HIGH SCHOOL

632 SOUTH BEDFORD ROAD,
BEDFORD, NY 10506
SED No.: 66-01-02-06-0-003-024 (23-131a)

FOX LANE MIDDLE SCHOOL

SOUTH BEDFORD ROAD
BEDFORD, NY 10506
SED No.: 66-01-02-06-0-007-013 (23-131b)

ADMINISTRATION BUILDING

632 SOUTH BEDFORD ROAD
BEDFORD, NY 10506
SED No.: 66-01-02-06-1-008-014 (23-131c)

VOLUME I OF II

FOX LANE HIGH SCHOOL

CIP0.01 SITE PLAN - CONTRACTOR ACCESS and TEMPORARY FACILITIES
CIP0.02 CONSTRUCTION IMPLEMENTATION PLANS

CIVIL

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CS2.01 SITE ALIGNMENT and SCHEDULE PLAN
CS2.02 SITE PLAN - FIELD No. 4 RESTROOM BUILDING

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A0.02 BASEMENT CODE COMPLIANCE KEY PLAN
A0.03 SECOND FLOOR CODE COMPLIANCE KEY PLAN
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S1.01 PARTIAL ROOF FRAMING PLANS - AREAS 'A', 'B', 'C'
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S1.03 STAIR FOUNDATION and FRAMING PLANS - SECTIONS and DETAILS
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FOX LANE HIGH SCHOOL (CONT.)

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M1.04 FIRST FLOOR HYDRONIC PIPING DEMOLITION PLAN - AREA 'B'
M1.05 ROOF DEMOLITION PLAN - AREAS 'A and B'
M1.06 BASEMENT DUCTWORK and EQUIPMENT DEMOLITION PLAN - AREA 'C'
M1.07 BASEMENT HYDRONIC PIPING DEMOLITON PLAN - AREA 'C'
M1.08 FIRST FLOOR DUCTWORK and EQUIPMENT DEMOLITION PLAN - AREA 'C'
M1.09 ROOF DEMOLITION PLAN - AREA 'C'
M2.01 FIRST FLOOR DUCTWORK LAYOUT PLAN - AREA 'A'
M2.02 FIRST FLOOR HYDRONIC PIPING PLAN - AREA 'A'
M2.03 FIRST FLOOR VRF and CONDENSATE PIPING PLAN - AREAS 'A and B'
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M2.05 FIRST FLOOR HYDRONIC PIPING PLAN - AREA 'B'
M2.06 FIRST FLOOR VRF and CONDENSATE PIPING PLAN - AREA 'B'
M2.07 FIRST FLOOR DUCTWORK LAYOUT PLAN - AREAS 'A and B'
M2.08 BASEMENT DUCTWORK LAYOUT PLAN - AREA 'C'
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M6.07 CABINET HEATER and UNIT HEATER SCHEDULES and DETAILS
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E1.03 DEMOLITION PLAN - AREA 'C'
E1.04 DEMOLITION PLAN - AREAS 'A,'B','C'
E2.01 SITE PLAN - FIELD #4 RESTROOM BUILDING
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E4.01 PROPOSED POWER PLAN - AREA 'A'
E4.02 PROPOSED POWER PLAN - AREA 'B'
E4.03 PROPOSED POWER PLAN - AREA 'C'
E4.04 PROPOSED MECHANICAL POWER PLAN - AREA 'A'
E4.05 PROPOSED MECHANICAL POWER PLAN - AREA 'B'
E4.06 PROPOSED MECHANICAL POWER PLAN - AREA 'C'
E4.07 PROPOSED MECHANICAL POWER PLAN - ROOF AREAS 'A' and 'B'
E4.08 PROPOSED MECHANICAL POWER PLAN - ROOF AREA 'C'
E4.09 PROPOSED MECHANICAL POWER PLAN - BASEMENT AREA 'C'
E4.10 PROPOSED SMOKE DAMPER POWER PLAN - AREA 'A'
E5.01 PROPOSED SPECIAL SYSTEMS PLAN - AREA 'A'
E5.02 PROPOSED SPECIAL SYSTEMS PLAN - AREA 'B'
E5.03 PROPOSED SPECIAL SYSTEMS PLAN - AREA 'C'
E5.04 PROPOSED SPECIAL SYSTEMS ROOF PLAN - AREA S 'A', 'B'
E5.05 PROPOSED SPECIAL SYSTEMS ROOF PLAN - AREA 'C'
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E9.02 FIRST FLOOR SECURITY PLANS
E9.03 FIRST FLOOR TECHNOLOGY PLAN - AREA 'C'
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E10.02 SECURITY DETAILS

FOX LANE MIDDLE SCHOOL

CIVIL

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CS0.02 EROSION and SEDIMENT CONTROL PLAN - NEW ADDITION AREA
CS1.01 EXISTING CONDITIONS and DEMOLITION PLANS
CS1.02 EXISTING CONDITIONS and DEMOLITION PLANS - SOFTBALL PARKING AREA
CS2.01 ALIGNMENT and SCHEDULE PLAN
CS2.02 ALIGNMENT and SCHEDULE PLAN - SOFTBALL PARKING AREA ACCESS
CS2.03 SITE PLAN - SOFTBALL FIELD RESTROOM BUILDING
CS3.01 ENLARGED PLANS - NEW ADDITION and NORTH SIDE SECURITY FENCING
CS3.02 ENLARGED PLANS - COURTYARD AMPITHEATER and WALKWAY RAMP
CS3.03 GRADING, DRAINAGE and SEWER ENLARGEMEMT PLANS
CS3.04 GRADING, DRAINAGE ENLARGEMEMT PLANS - COURTYARD AMPITHEATER
CA6.01 SITE DETAILS
CS6.02 SITE DETAILS
CS6.03 SITE DETAILS
CS6.04 SITE DETAILS

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A0.01 LOWER LEVEL CODE COMPLIANCE KEY PLAN
A0.02 FIRST FLOOR CODE COMPLIANCE KEY PLAN
A0.03 SECOND FLOOR CODE COMPLIANCE KEY PLAN
A0.04 THIRD AND FOURTH FLOOR CODE COMPLIANCE KEY PLANS
A1.01 DEMOLITION FLOOR PLANS
A2.00 PARTITION TYPES
A2.01 PROPOSED FLOOR PLANS
A2.02 ENLARGED ADDITION PROPOSED FLOOR PLAN and PLAN DETAILS
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A3.02 TAPERED INSULATION PLAN
A4.01 EXTERIOR ELEVATIONS
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A6.01 WALL SECTIONS and DETAILS
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A6.03 WALL SECTIONS and DETAILS
A6.04 WALL SECTIONS and DETAILS
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A7.02 RAMP and CANOPY SECTIONS and DETAILS
A8.01 DOOR SCHEDULE and ELEVATIONS
A8.02 DOOR DETAILS
A9.00 FINISH SCHEDULE and DETAILS
A9.01 FINISH FLOOR PLANS
A10.01 REFLECTED CEILING PLANS
A11.01 ENLARGED TOILET ROOM PLANS and DETAILS
A11.02 CASEWORK PLANS
A11.03 CASEWORK ELEVATIONS
A12.01 MISCELLANEUOUS DETAILS

STRUCTURAL

S0.01 DESIGN DATA and GENERAL NOTES
S0.02 DESIGN DATA and GENERAL NOTES
S0.03 SPECIAL INSPECTION NOTES and SCHEDULE
S1.00 FOUNDATION PLAN
S1.01 CANOPY FOUNDATION and ROOF FRAMING PLANS
S2.00 HIGH and LOW ROOF FRAMING PLANS
S3.00 FOUNDATION SECTIONS and DETAILS
S3.01 FOUNDATION SECTIONS, PIER and BASEPLATE DETAILS
S3.02 CANOPY FOUNDATION SECTIONS, PIER and BASEPLATE DETAILS
S4.00 MASONRY ELEVATIONS, SECTIONS and DETAILS
S5.00 STEEL FRAMING SECTIONS and DETAILS
S5.01 STEEL FRAMING SECTIONS and DETAILS
S5.01 STEEL FRAMING SECTIONS and DETAILS

FOX LANE MIDDLE SCHOOL (CONT.)

MECHANICAL

M0.01 GENERAL NOTES, LEGENDS, ETC.
M1.01 DEMOLITION PLANS
M2.01 PROPOSED FIRST and SECOND FLOOR PLANS
M2.02 PROPOSED FIRST and SECOND FLOOR PLANS
M2.03 PROPOSED THIRD FLOOR and ROOF PLANS
M6.01 SCHEDULES and DETAILS
M6.02 SCHEDULES and DETAILS
M6.03 SCHEDULES and DETAILS
M6.04 SCHEDULES and DETAILS
M6.05 SCHEDULES and DETAILS

PLUMBING

P0.01 GENERAL NOTES, LEGENDS, ETC.
P1.01 DEMOLITION PLANS
P2.01 PROPOSED PLANS
P6.01 SCHEDULES and DETAILS

ELECTRICAL

E0.01 GENERAL NOTES, LEGENDS and ABBREVIATIONS
E0.02 SWITCHGEAR, PANELS and RISER DIAGRAMS
E1.01 DEMOLITION PLANS
E1.02 DEMOLITION PLAN - WALKWAY CANOPY
E2.01 SITE PLAN - SOFTBALL FIELD RESTROOM BUILDING and TRAFFIC GATE
E3.01 PROPOSED LIGHTING PLANS
E3.02 PROPOSED LIGHTING PLAN - WALKWAY CANOPY
E4.01 PROPOSED POWER PLANS
E4.02 PROPOSED POWER PLANS - COURTYARD AMPITHEATER
E4.03 PROPOSED MECHANICAL POWER PLANS
E4.04 PROPOSED ROOF PLANS
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E10.01 TECHNOLOGY DETAILS
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ADMINISTRATION BUILDING

CIVIL

CS0.01 ADMINISTRATION BUILDING TOPOGRAPHIC SURVEY
CS4.01 SITE SEWER PLAN

ARCHITECTURAL

A2.00 OVERALL KEY PLANS and PARTITION TYPE DETAILS
A2.01 TOILET ROOM PLANS and DETAILS
A8.01 DOOR SCHEDULE and DETAILS
A9.01 REFLECTED CEILING PLAN and FINISH FLOOR PLAN

MECHANICAL

M2.01 LOWER LEVEL MECHANICAL PLAN
M4.01 BOILER ROOM DEMOLITION PLAN and NEW BOILER ROOM LAYOUT
M4.02 BOILER ROOM DETAILS

PLUMBING

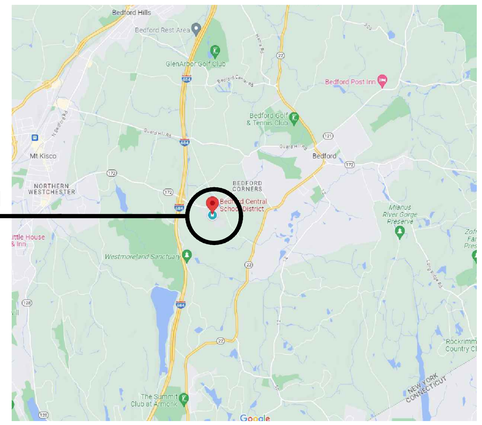
P2.01 TOILET ROOM PLANS and DETAILS
P6.01 PLUMBING DEMOLITION / NEW PLUMBING WORK

ELECTRICAL

E0.01 GENERAL NOTES, SYMBOLS and ABBREVIATIONS
E1.01 PROPOSED FLOOR PLAN
E6.01 SCHEDULES

LOCATION MAP

PROJECT LOCATION



MAP DATA ©GOOGLE

BBS ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

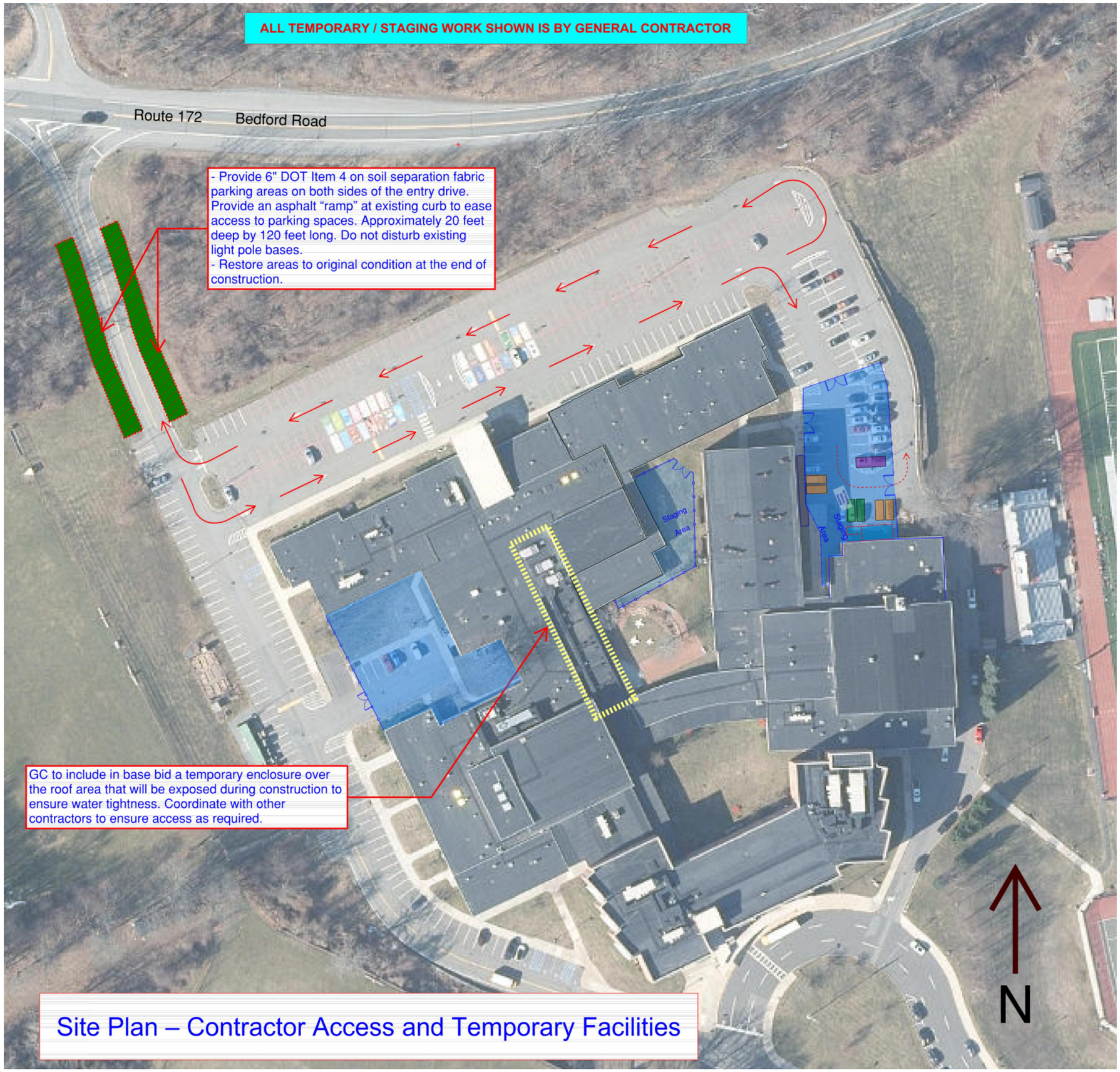
244 EAST MAIN STREET I PATCHOGUE I NEW YORK 11772 I T. 631.475.0349 I F. 631.475.0361
100 GREAT OAKS BLVD., SUITE 115 I ALBANY I NEW YORK 12203 I T. 518.621.7650 I F. 518.621.7655

www.BBSARCHITECTURE.COM

ARCHITECTS CERTIFICATION
THE UNDERSIGNED CERTIFIES THAT TO THE BEST OF HIS KNOWLEDGE, INFORMATION, AND BELIEF, THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, THE CONSTRUCTION STANDARDS OF THE EDUCATION DEPARTMENT, NEW YORK STATE DEPARTMENT OF LABOR RULE 56, EPA AND AHERA REQUIREMENTS.

LAWRENCE SALVESEN, A.I.A. LIC. No. 020623

BBS FILE No. 23-131 a-c
BID PACKAGE No. 1: FEBRUARY 24, 2025
CONFORMED SET

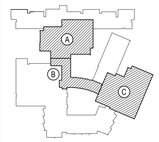


Site Plan – Contractor Access and Temporary Facilities

REV.	DATE	ITEM
1	03/19/2025	BID ADDENDUM No. 4
2	03/29/2025	BID CLARIFICATION No. 2

NOTICE

THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBG ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. AND, THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.



KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

SITE PLAN - PREPARED BY ARRIS CONTRACTING COMPANY, INC.
CONTRACTOR ACCESS and TEMPORARY FACILITIES

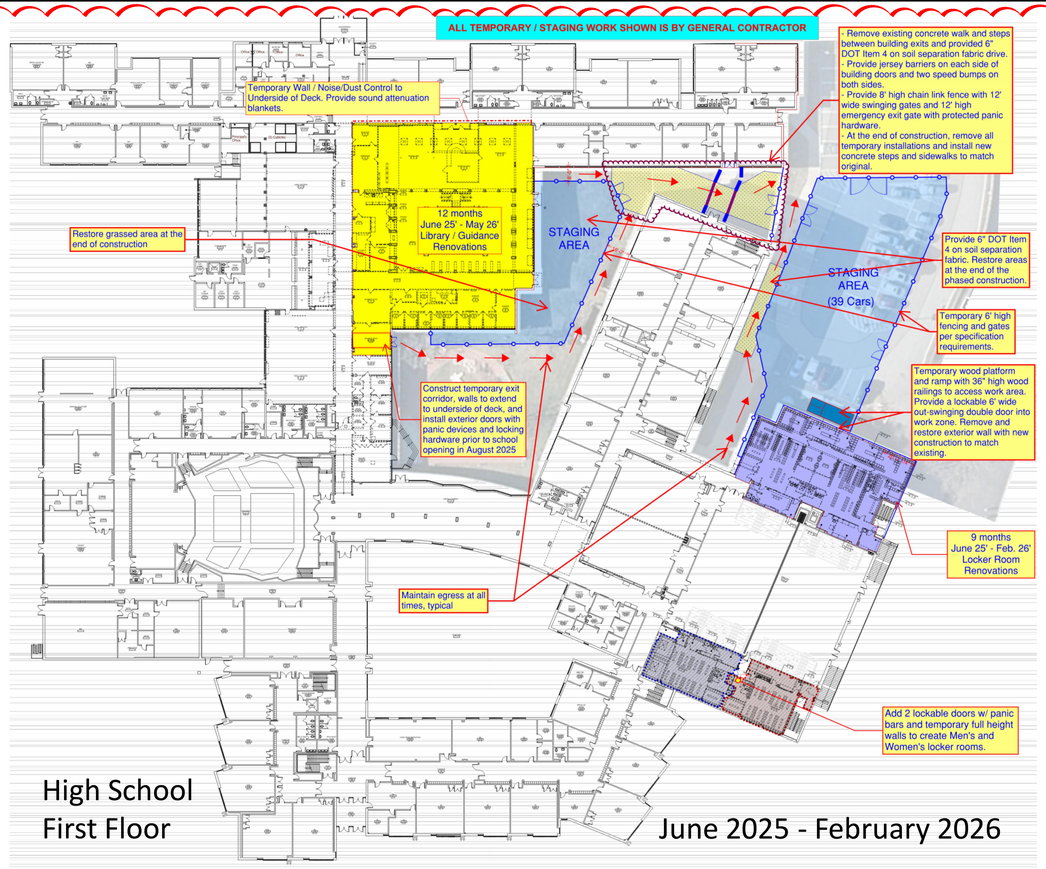
DRAWING BY:

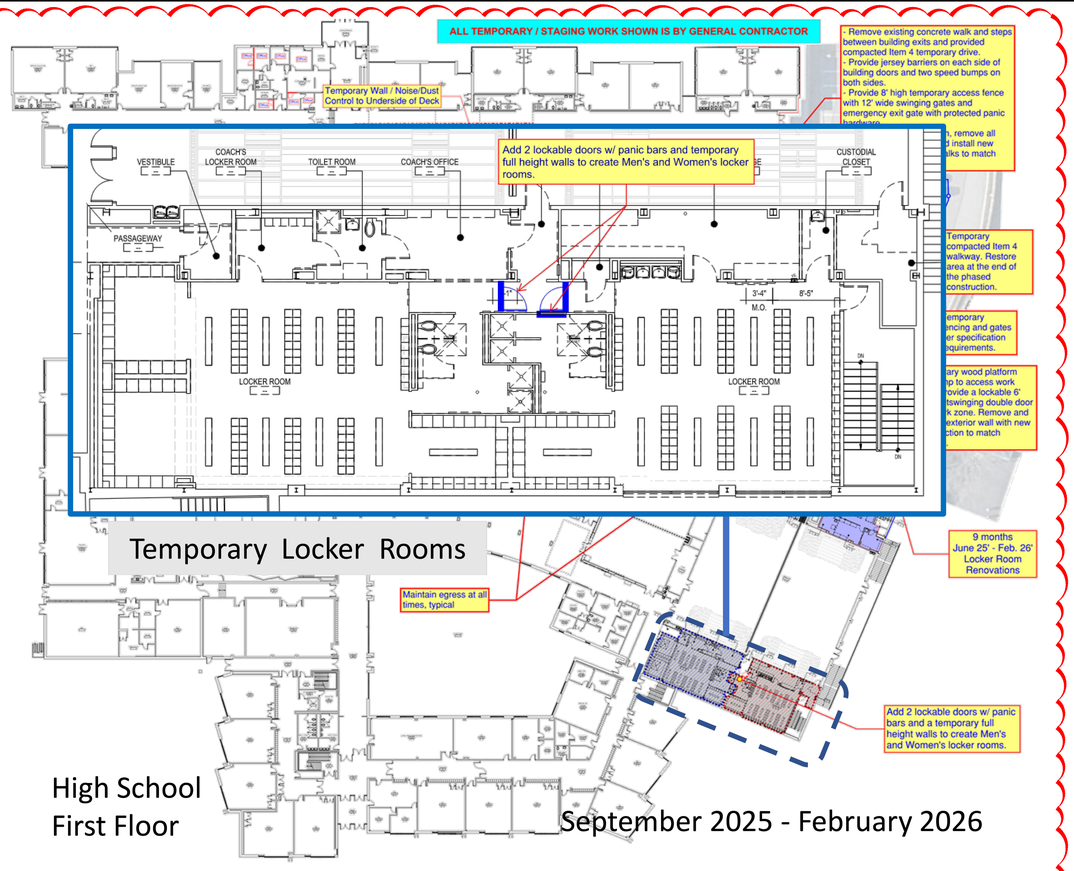
CHECK BY:

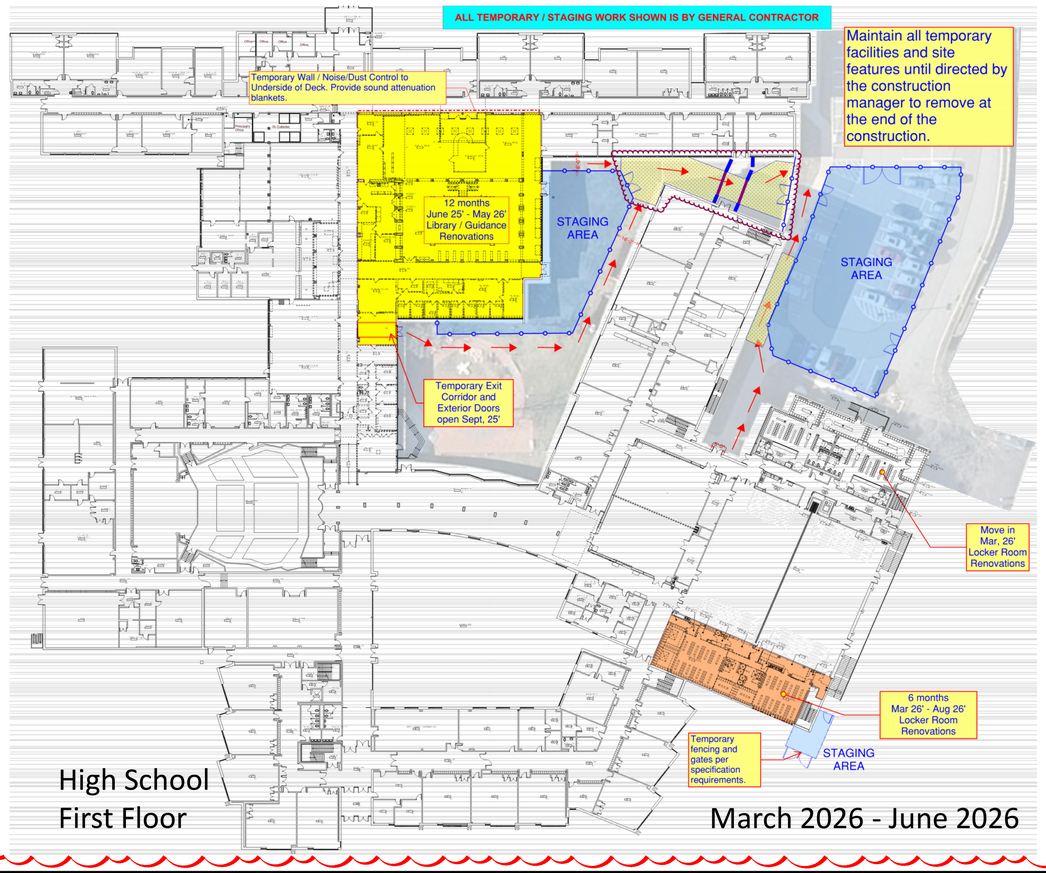
ACCI

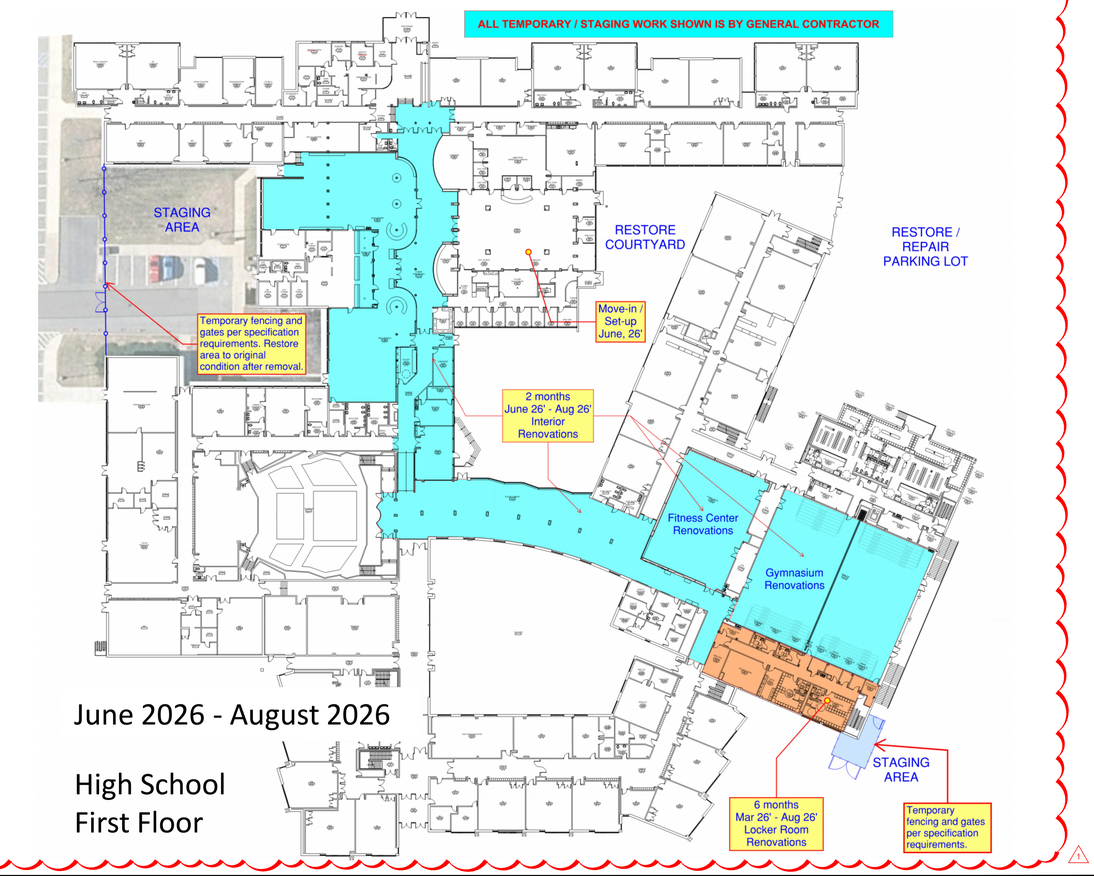
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	SITE PLAN - CONTRACTOR ACCESS and TEMPORARY FACILITIES
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

CIP0.01









REV.	DATE	ITEM
1	03/29/2025	BID CLARIFICATION No. 2

NOTICE

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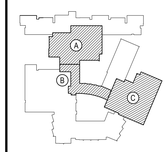


KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FLOOR PLANS - PREPARED BY ARRIS CONTRACTING COMPANY, INC.
CONSTRUCTION IMPLEMENTATION PLANS

DRAWING BY:

CHECK BY:

ACCI

SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	CONSTRUCTION IMPLEMENTATION PLANS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

CIP0.02

BBS PROJECT 23-131A - DWG. CS0.01 FLHS FIELD #4 TOPOGRAPHIC SURVEY

+	INDICATES SPOT ELEVATION
t.c.	TOP CURB
b.c.	BOTTOM CURB
t.w.	TOP WALL
b.w.	BOTTOM WALL
b.o.b.	BOTTOM OF BANK
t.o.b.	TOP OF BANK
F.F.	FINISHED FLOOR
S.M.R.W.	STONE MASONRY RETAINING WALL
S.R.W.	STONE RETAINING WALL
C.B.R.W.	CONC. BLOCK RETAINING WALL
C.R.W.	CONC. RETAINING WALL
	LEADER DRAIN
	2'x 4' STORM DRAIN
	CATCH BASIN (TYP.)
	4'x 4' STORM DRAIN
	2'x 2' DRAIN INLET
	1'x 1' DRAIN INLET
D.C.	DROP CURB
I.C.B	IRRIGATION CONTROL BOX
I.C.V.	IRRIGATION CONTROL VALVE
	FIRE HYDRANT
	WATER SHUT OFF VALVE
C	MANHOLE (COMMUNICATIONS)
CABLE BOX	
D	STORM DRAIN
D	MANHOLE (DRAINAGE)
E	MANHOLE (ELEC. CON ED)
M	MANHOLE (TYPE UNKNOWN)
S	MANHOLE (SEWER)
	SEWER CLEANOUT
W	MANHOLE (WATER)
	PARKING BOLLARDS
	MONITORING WELL
	UTILTIY POLE
	UTILTIY POLE W/ GUY WIRE
	LIGHT POLE
	LIGHT FIXTURE
	GAS VALVE
	ELECTRICAL OUTLET
	CHAIN LINK FENCE
	TRAFFIC SIGNS
	PORTABLE TOILET (RESTROOM)
	TRASH DUMPSTER
	DECIDUOUS TREE
	EVERGREEN TREE
	EDGE OF WOODED AREA / BRUSH
	HANDICAP SPACE

Abbreviations & Symbols

No.	Revision/Issue	Date
1		

North Direction

N

Firm Name and Address

Link Land Surveyors P.C.

21 Park Place, Suite 3
Mahopac N.Y. 10541

Phone 845-628-5857
Fax 845-621-0013

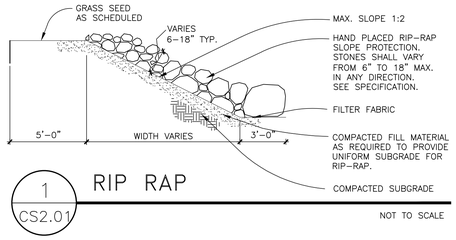
ERIK J. LINK
NEW YORK STATE LICENSED
LAND SURVEYOR NO. 050542

UNDERGROUND UTILITIES MARK-OUT BY
ENVIROPROBE SERVICES, INC.
81 Market Avenue, Lake, NJ.
(856) 858-8584 (800) 596-7472

FOX LANE HIGH SCHOOL
&
FOX LANE MIDDLE SCHOOL

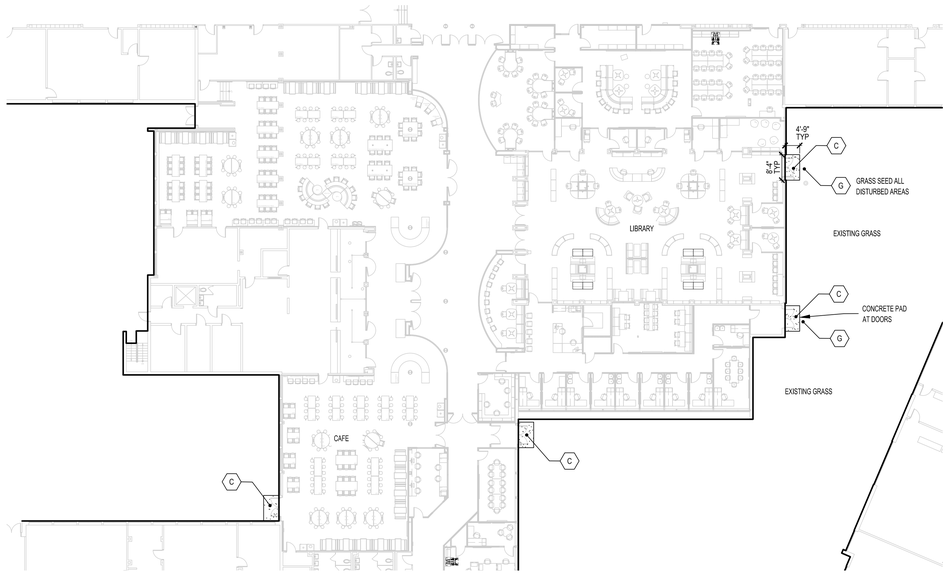
632 South Bedford Rd, Bedford, NY 10506

Project	Sheet
RKL JOB # 9241	3
Date: JUNE 21, 2023	
Scale: 1inch = 80 feet	



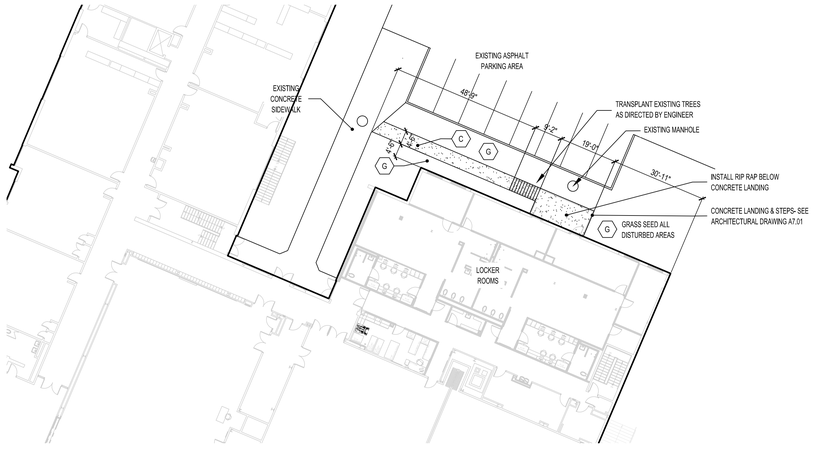
1 / CS2.01 RIP RAP

NOT TO SCALE



SITE ALIGNMENT & SCHEDULE PLAN - AREA A

SCALE: 1" = 20'-0"



SITE ALIGNMENT & SCHEDULE PLAN - AREA C

SCALE: 1" = 20'-0"

GENERAL NOTES - ALIGNMENT

1. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, DIMENSIONS, SIZES AND QUANTITIES OF ALL MATERIALS PRIOR TO THE START OF ANY WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR A DECISION. ALL WORK SHALL BE LOCATED AND MARKED OUT FOR APPROVAL BY THE ARCHITECT PRIOR TO THE START OF ANY CONSTRUCTION.
2. THE CONTRACTOR SHALL EXECUTE THE WORK IN SUCH MANNER THAT NO DAMAGE OR INJURY SHALL OCCUR TO PERSONS, EXISTING BUILDINGS AND STRUCTURES, CURBS, ROADS, ATHLETIC FIELDS, WALKS, PIPES, CONDUITS, POLES AND ANY AND ALL OTHER PROPERTY ABOVE AND BELOW GRADE. ANY DAMAGE OR INJURY RESULTING FROM THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL MAKE GOOD SUCH DAMAGE AND ASSUME ALL RESPONSIBILITY FOR EACH INJURY WITHOUT ADDITIONAL COST TO THE OWNER.
3. THE ARCHITECT AND THEIR CONSULTANTS SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS OR PROCEDURES UTILIZED BY THE CONTRACTOR; NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES; OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO START OF WORK.
5. IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED AND PROTECTED DURING THE CONSTRUCTION PERIOD.
6. CONTRACTORS SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL EXISTING DIMENSIONS AND CONDITIONS.
7. ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENT NECESSARY TO THE APPROVAL OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO OWNER.
8. CONTRACTOR TO PROTECT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
9. ALL PROJECT WASTE MATERIAL AND RUBBISH TO BE DISPOSED IN CONTAINERS PROVIDED BY THE CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE CONSTRUCTION MANAGER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
10. ALL DEBRIS, DUST AND DIRT CAUSED BY WORK OF THIS CONTRACT SHALL BE REMOVED FROM SITE BY APPROPRIATE MEANS. RESTORE ALL CONDITIONS TO THE STATE OF CLEANLINESS THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
11. ALL DEMOLITION AND CONSTRUCTION WORK TO BE PREFORMED WITHOUT INTERRUPTION OF OWNER OPERATIONS. IF INTERRUPTION IS NECESSARY, WORK MUST NOT PROCEED UNTIL WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE OWNER.

NEW WORK KEY NOTES

1. REFER TO DRAWING CS600 SERIES DRAWINGS FOR SITE DETAILS AND PAVEMENT SCHEDULE.
2. REFER TO SYMBOL LEGEND FOR NEW WORK TAGS AND SYMBOLS.
3. WALKS STRUCTURES AND OTHER MAJOR ITEMS SHALL BE STAKED FOR THE APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
4. N.Y.S. LICENSED LAND SURVEYOR SHALL PERFORM ALL LAYOUT WORK, INCLUDING BASELINE ESTABLISHMENT. LAYOUT OF THE WORK MAY BE ADJUSTED IN THE FIELD TO MEET SITE CONDITIONS AS APPROVED BY THE ENGINEER.
5. LOOSEN TOPSOIL, TOP-DRESS AND SEED ALL DISTURBED AREAS NOT SCHEDULED FOR IMPROVEMENT.
6. CONTRACTOR SHALL REMOVE ALL TEMPORARY FENCING AND EROSION AND SEDIMENT CONTROL UPON COMPLETION OF THE WORK. RESTORE PROJECT SITE TO ITS EXISTING CONDITION INCLUDING REPAIRS TO PAVEMENT, TOP DRESSING AND SEEDING OF DISTURBED AREAS.
7. CONTRACTOR SHALL CONTINUE TO MAINTAIN ALL NEWLY SEEDED AREAS UNTIL SEED IS FULLY GROWN AND DEEMED USEABLE FOR RECREATION BY ARCHITECT.
8. ALL EXISTING RAILINGS AT PERIMETER OF CAFETERIA PLAZA SHALL BE REMOVED, PAINTED & REINSTALLED AFTER CONCRETE WORK IS COMPLETED. CONTRACTOR SHALL CUT AND WELD SPLICE TUBES TO PROPERLY SECURE THE EXISTING RAILINGS INTO NEW SLEEVES.
9. CONTRACTOR IS SPECIFICALLY NOTIFIED THAT THE EXISTING CONCRETE DECK AT THE CAFETERIA PLAZA HAS SOME CRACKS AND HAS SETTLED IN CERTAIN AREAS. ONCE THE CONCRETE IS REMOVED ALL VOIDS SHALL BE BACKFILLED WITH STRUCTURAL FILL AND COMPACTED TO PROPOSED SUBGRADE AT NO ADDITIONAL COST. THE CONTRACTOR SHALL SHORE EXISTING CONCRETE WALLS TO INSURE THEY ARE NOT DISPLACED DURING COMPACTION ACTIVITIES.
10. CONTRACTOR SHALL PITCH CONCRETE AT CAFETERIA PLAZA TO MEET SURROUNDING PAVEMENTS, DOORS & GRATINGS FLUSH.
11. CONTRACTOR SHALL SAWCUT & REPAVE ASPHALT AT BOTTOM OF RECONSTRUCTED STAIRWAYS TO MEET EXISTING PAVEMENT FLUSH

SYMBOL LEGEND

SYMBOL	DESCRIPTION
EJ	EXPANSION JOINT
A	NEW PAVEMENT TYPE SCHEDULE - SEE SCHEDULE ON CS6.01
CS6.01	NEW ITEM DETAIL TAG - SEE DETAILS ON CS600 SERIES
A	NEW ASPHALT PAVEMENT WALKWAYS
C	NEW CONCRETE PAVEMENT

LIST OF ABBREVIATIONS

ALT.	ALTERNATE	LG	LONG
ASPH.	ASPHALT	LP	LIGHT POLE
BC	BOTTOM CURB	N	NORTH
CB	CATCH BASIN	OPN.	OPENING
CONC.	CONCRETE	PAVT	PAVEMENT
DEMO.	DEMOLITION	S	SOUTH
E	EAST	SC	SITEWORK CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR	TC	TOP CURB
ENC.	ENCLOSURE	TEMP.	TEMPORARY
EX.	EXISTING	(TYP.)	TYPICAL
GALV.	GALVANIZED	VIF	VERIFY IN FIELD
G.C	GENERAL CONSTRUCTION CONTRACTOR	W	WEST
		WD	WIDE
HT.	HEIGHT	&	AND
LB	LEACHING BASIN		
LF	LINEAR FEET		

PAVEMENT SCHEDULE

MARK	CONSTRUCTION	NOTES
C	LIGHT BROOM FINISH EXPANSION JOINT AS SHOWN 4" CONC. SLAB w/ 6"x6" W4.0 x W4.0 WWF 6" MIN. SELECT GRANULAR FILL COMPACTED SUBGRADE (MIN. 95% DRY DENSITY)	CEMENT CONCRETE PAVEMENT AND WALKWAYS
C1	STIFF BROOM FINISH 6" CONC. SLAB W/ #4 BARS AT 12" O.C.E.W. EXPANSION JOINT AS SHOWN 6" MIN. RCA BASE COURSE (MIN. 95% DRY DENSITY) COMPACTED SUBGRADE (MIN. 95% DRY DENSITY)	CEMENT CONCRETE BLEACHER PADS AND CONTAINER, DUMPSTER OR SERVICE ACCESS PADS
G	GRASS SEED (GENERAL MIX) 6" REHANDLED TOPSOIL (LIGHTLY ROLLED) ROLLED SUBGRADE (MAX. 80% DRY DENSITY)	NEW FIELD AREAS RE-HANDLED TOPSOIL IS EXISTING STRIPPED TOPSOIL FROM STOCKPILE(S)

REV.	DATE	ITEM

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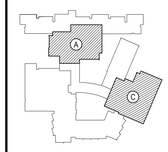

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

SITE ALIGNMENT and SCHEDULE PLAN

DRAWING BY: CTC

CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: SITE ALIGNMENT and SCHEDULE PLAN

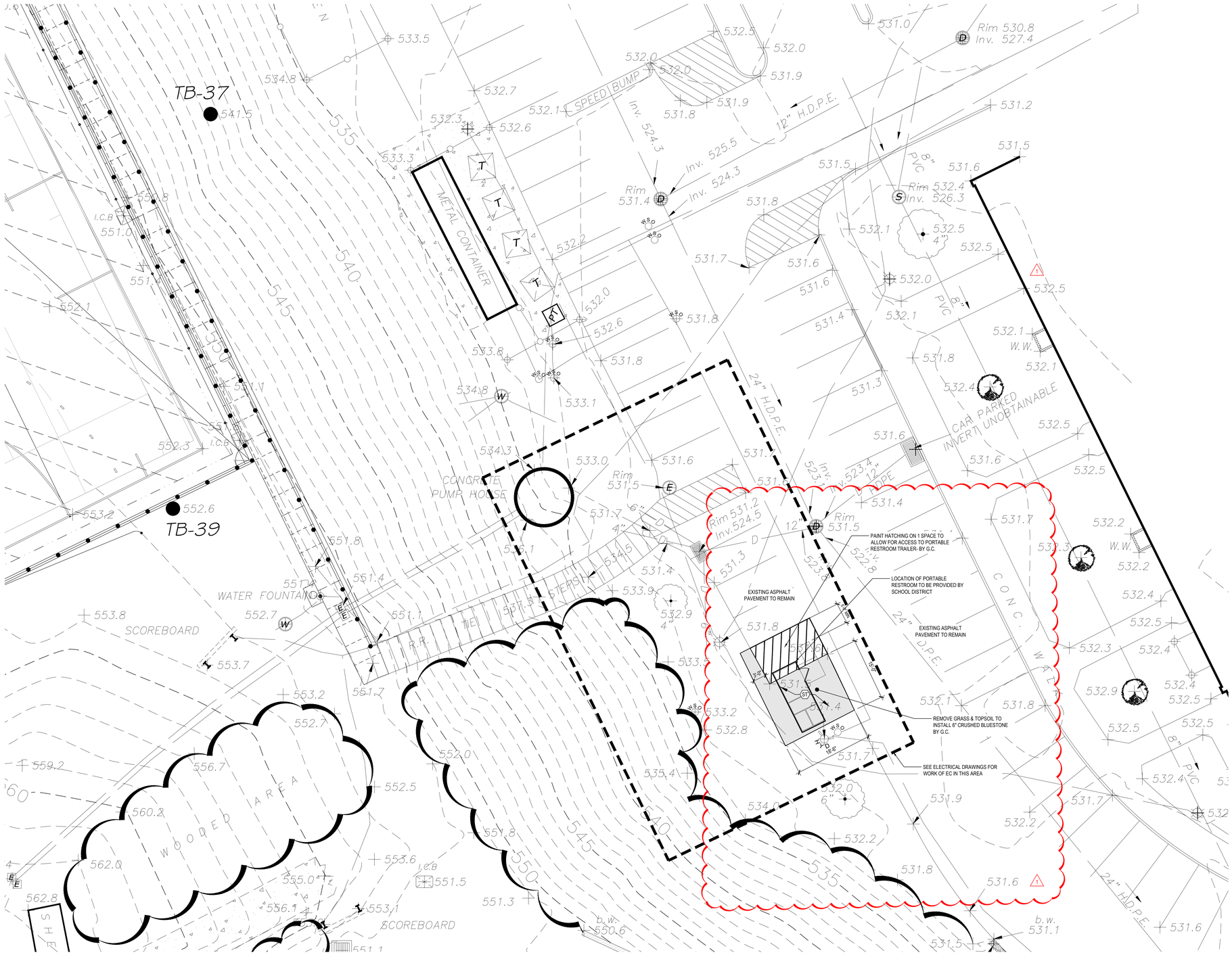
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

CS2.01



1 SITE PLAN - FIELD #4 REST ROOM BUILDING

SCALE: 1"=10'-0"

PAVEMENT SCHEDULE

MARK	CONSTRUCTION	NOTES
ST	6" OF #1/2" CRUSHED BLUESTONE FILTER FABRIC (8 OZ / SY) COMPACTED SUBGRADE (MAX. 80% DRY DENSITY)	STONE FILL

REV.	DATE	ITEM
01	03/12/25	BID ADDENDUM #3

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KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: SITE PLAN
FIELD #4 REST ROOM BUILDING

DRAWING BY: CTC
CHECK BY: J.P.

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: SITE PLAN

SCALE: AS NOTED
DATE: APRIL 2024
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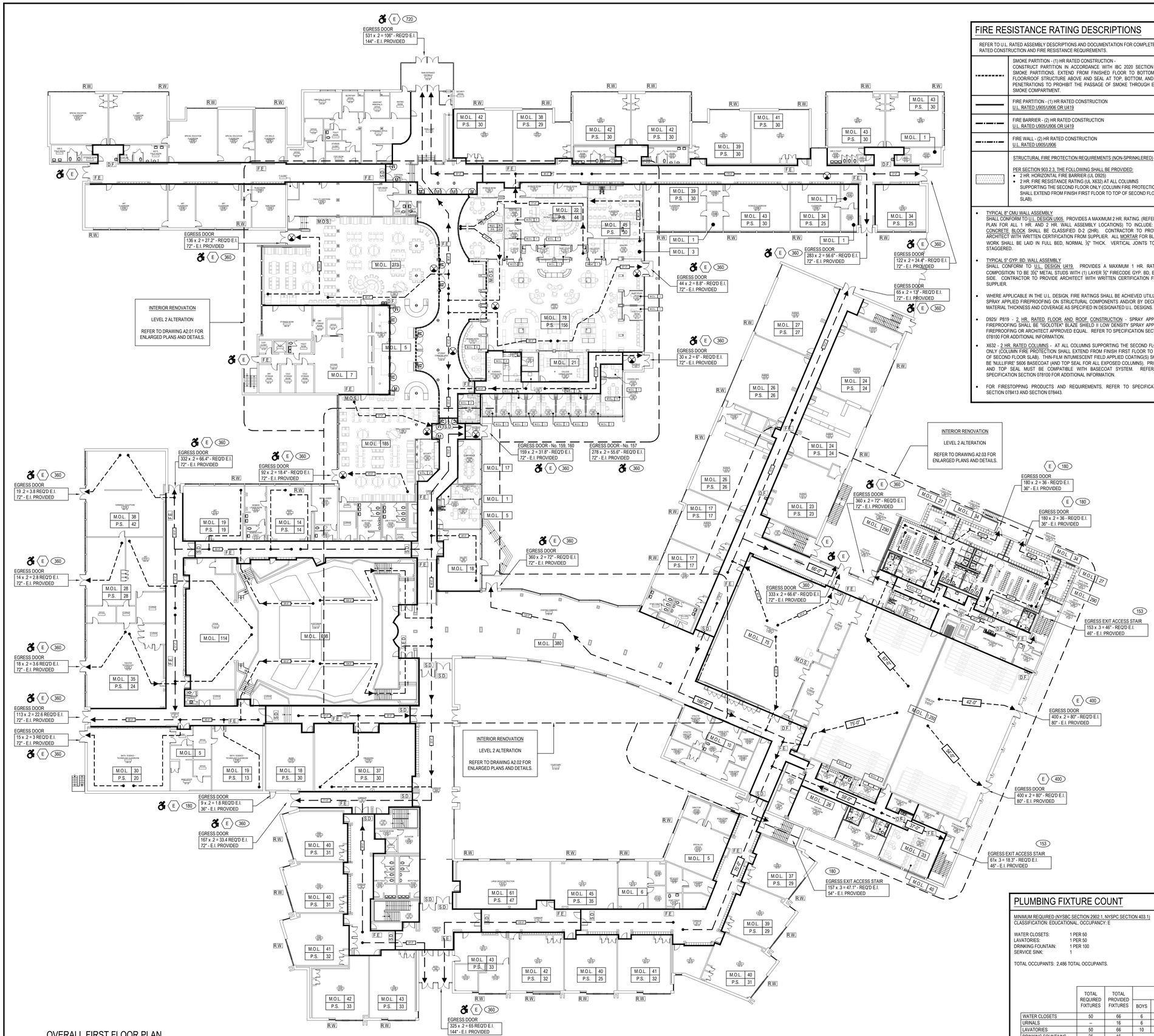
CS2.02



OVERALL FIRST FLOOR PLAN

SCALE: 1" = 20'-0"

FIRE RESISTANCE RATING DESCRIPTIONS

REFER TO U.L. RATED ASSEMBLY DESCRIPTIONS AND DOCUMENTATION FOR COMPLETE RATED CONSTRUCTION AND FIRE RESISTANCE REQUIREMENTS.

	SMOKE PARTITION - (1) HR RATED CONSTRUCTION - CONSTRUCT PARTITION IN ACCORDANCE WITH IBC 2020 SECTION 710 SMOKE PARTITIONS. EXTEND FROM FINISHED FLOOR TO BOTTOM OF FLOOR/ROOF STRUCTURE ABOVE AND SEAL AT TOP, BOTTOM, AND ALL PENETRATIONS TO PROHIBIT THE PASSAGE OF SMOKE THROUGH EACH SMOKE COMPARTMENT.
	FIRE PARTITION - (1) HR RATED CONSTRUCTION U.L. RATED U905/U906 OR U419
	FIRE BARRIER - (2) HR RATED CONSTRUCTION U.L. RATED U905/U906 OR U419
	FIRE WALL - (2) HR RATED CONSTRUCTION U.L. RATED U905/U906
	STRUCTURAL FIRE PROTECTION REQUIREMENTS (NON-SPRINKLERED) PER SECTION 903.2.3, THE FOLLOWING SHALL BE PROVIDED: • 2 HR. HORIZONTAL FIRE BARRIER (UL D925). • 2 HR. FIRE RESISTANCE RATING (UL X532) AT ALL COLUMNS SUPPORTING THE SECOND FLOOR ONLY (COLUMN FIRE PROTECTION SHALL EXTEND FROM FINISH FIRST FLOOR TO TOP OF SECOND FLOOR SLAB).

- TYPICAL 8" CMU WALL ASSEMBLY SHALL CONFORM TO U.L. DESIGN U905. PROVIDES A MAXIMUM 2 HR. RATING. (REFER TO PLAN FOR ALL 1 HR. AND 2 HR. WALL ASSEMBLY LOCATIONS) TO INCLUDE: ALL CONCRETE BLOCK SHALL BE CLASSIFIED D-2 (2HR). CONTRACTOR TO PROVIDE ARCHITECT WITH WRITTEN CERTIFICATION FROM SUPPLIER. ALL MORTAR FOR BLOCK WORK SHALL BE LAID IN FULL BED, NORMAL ⅜" THICK. VERTICAL JOINTS TO BE STAGGERED.
- TYPICAL 6" GYP. BD WALL ASSEMBLY SHALL CONFORM TO U.L. DESIGN U419. PROVIDES A MAXIMUM 1 HR. RATING. COMPOSITION TO BE 3⅝" METAL STUDS WITH (1) LAYER ⅝" FIRECODE GYP. BD, EACH SIDE. CONTRACTOR TO PROVIDE ARCHITECT WITH WRITTEN CERTIFICATION FROM SUPPLIER.
- WHERE APPLICABLE IN THE U.L. DESIGN, FIRE RATINGS SHALL BE ACHIEVED UTILIZING SPRAY APPLIED FIREPROOFING ON STRUCTURAL COMPONENTS AND/OR BY DECKING MATERIAL THICKNESS AND COVERAGE AS SPECIFIED IN DESIGNATED U.L. DESIGNS.
- D925/ P819 - 2 HR. RATED FLOOR AND ROOF CONSTRUCTION - SPRAY APPLIED FIREPROOFING SHALL BE "ISOLOTEK® BLAZE SHIELD II LOW DENSITY SPRAY APPLIED FIREPROOFING OR ARCHITECT APPROVED EQUAL. REFER TO SPECIFICATION SECTION 078100 FOR ADDITIONAL INFORMATION.
- X632 - 2 HR. RATED COLUMNS - AT ALL COLUMNS SUPPORTING THE SECOND FLOOR ONLY (COLUMN FIRE PROTECTION SHALL EXTEND FROM FINISH FIRST FLOOR TO TOP OF SECOND FLOOR SLAB). THIN-FILM INTUMESCENT FIELD APPLIED COATING(S) SHALL BE 'NULLIFIRE' S606 BASECOAT (AND TOP SEAL FOR ALL EXPOSED COLUMNS). PRIMER AND TOP SEAL MUST BE COMPATIBLE WITH BASECOAT SYSTEM. REFER TO SPECIFICATION SECTION 078100 FOR ADDITIONAL INFORMATION.
- FOR FIRESTOPPING PRODUCTS AND REQUIREMENTS, REFER TO SPECIFICATION SECTION 078413 AND SECTION 078443.

CODE COMPLIANCE SYMBOL LEGEND

SYMBOL	DESCRIPTION
F.E.	NEW OR EXISTING FIRE EXTINGUISHER
D.F.	NEW OR EXISTING DRINKING FOUNTAIN
S.D.	NEW OR EXISTING SMOKE DOOR
R.W.	RESCUE WINDOW LOCATION
M.O.S.	MAXIMUM OCCUPANCY SIGN
360	DOOR / STAIR EXITING CAPACITY
E	INDICATES BUILDING ENTRANCE / EXIT
	INDICATES ACCESSIBLE ENTRANCE / EXIT
M	DOORS ON MAGNETIC AUTOMATIC HOLD OPEN DEVICE CONNECTED TO FIRE ALARM SYSTEM
	NEW EXIT SIGN. REFER TO E-SERIES DRAWINGS.
4.7	REQUIRED EXIT UNITS FOR PLACES OF ASSEMBLY.
M.O.L. 45 / P.S. 27	MAXIMUM OCCUPANCY LOAD AND PUPIL STATION COUNT (PER N.Y.S. BUILDING CODE) / PUPIL STATION COUNT

GENERAL CODE COMPLIANCE NOTES

1. REFER TO E-SERIES DRAWINGS FOR ALL NEW / EXISTING LIFE SAFETY INFORMATION INCLUDING BUT NOT LIMITED TO PULL STATIONS, EMERGENCY EXIT LIGHTS, EMERGENCY EXIT SIGNS, ETC.
2. ALL NEW CORRIDOR WALLS SHALL BE CONSTRICTED TO ACHIEVE ONE (1) HOUR FIRE SEPARATION FROM ADJACENT SPACES. HOLD CMU 1" FROM DECK, PACK ALL VOIDS WITH SAFING INSULATION AND SEAL EACH SIDE WITH SPEED SPRAY CP 672 (TO A THICKNESS APPLICABLE TO THE WALL RATING) AS MANUFACTURED BY "HILTI" TO PROVIDE AN UNDERWRITERS LABORATORY APPROVED FIRE RATED JOINT SYSTEM.
3. NEW CORRIDOR FINISHES SHALL BE CLASS 'A'.
4. NEW ROOF SYSTEM SHALL BE CLASS 'A'.

TRAVEL DISTANCE LEGEND

XXX'-XX" — COMMON PATH OF EGRESS TRAVEL DISTANCE - [XXX'-XX"] DENOTES TRAVEL DISTANCE FOR THE SEGMENT INDICATED PER IBC TABLE 1006.2.1

XXX'-XX" — EXIT ACCESS TRAVEL DISTANCE - [XXX'-XX"] DENOTES TRAVEL DISTANCE FOR THE SEGMENT INDICATED

APPLICABLE CODE

THE PROPOSED WORK IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE SED MANUAL OF PLANNING STANDARDS, THE 2020 COMPILATION OF THE INTERNATIONAL BUILDING CODE, NEW YORK STATE VERSION, IN CONJUNCTION WITH NEW YORK STATE 2016 AND 2017 CODE SUPPLEMENTS.

SPECIFIC CODE REFERENCES:

SECTION 716.3.2.1.2 - AREA LIMITATIONS

- THE TOTAL AREA OF THE GLAZING IN FIRE-PROTECTION-RATED WINDOW ASSEMBLIES SHALL NOT EXCEED 25 PERCENT OF THE AREA OF A COMMON WALL WITH ANY ROOM.

SECTION 1020.1 - CONSTRUCTION

- EXCEPTION No. 1: A FIRE RESISTANCE RATING IS NOT REQUIRED FOR CORRIDORS IN A OCCUPANCY IN GROUP E WHERE EACH ROOM THAT IS USED FOR INSTRUCTION HAS NOT LESS THAN ONE DOOR OPENING DIRECTLY TO THE EXTERIOR AND ROOMS FOR ASSEMBLY PURPOSES HAVE NOT LESS THAN ONE-HALF OF THE REQUIRED MEANS OF EGRESS DOORS OPENING DIRECTLY TO THE EXTERIOR.

ASSEMBLY SIGNAGE DETAIL

ASSEMBLY AREA -
[ROOM NAME]
MAXIMUM OCCUPANCY

MAXIMUM OCCUPANCY NOT TO EXCEED
[###] PERSONS

1. PROVIDE ONE (1) 12"X18" SIGNAGE AT EACH ASSEMBLY SPACE DENOTED BELOW:
   - [LARGE GYM] [1,250]
   - [FITNESS CENTER] [75]
   - [LIBRARY] [78]
   - [LARGE CAFETERIA] [273]
   - [SMALL CAFETERIA] [185]
2. ALL OCCUPANCY SIGNAGE SHALL BE PROVIDED AND INSTALLED BY THE G.C.
3. G.C. TO SUBMIT SHOP DRAWINGS OF MAXIMUM OCCUPANCY SIGNAGE FOR ARCHITECT APPROVAL OF FINAL DESIGNATIONS.
4. FINAL LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH OWNER / ARCHITECT.
5. REFER TO SPECIFICATION SECTION 101400 IN THE PROJECT MANUAL.

PLUMBING FIXTURE COUNT

MINIMUM REQUIRED (NYSBC SECTION 2902.1, NYSPC SECTION 403.1)
CLASSIFICATION: EDUCATIONAL, OCCUPANCY: E

WATER CLOSETS: 1 PER 50
LAVATORIES: 1 PER 50
DRINKING FOUNTAIN: 1 PER 100
SERVICE SINK: 1

TOTAL OCCUPANTS: 2,486 TOTAL OCCUPANTS.

2020 NYS BUILDING CODE REFERENCES

SECTION 1109.2.2 WATER CLOSET COMPARTMENT - 5% OF THE TOTAL NUMBER SHALL BE WHEELCHAIR ACCESSIBLE.

SECTION 1109.2.3 LAVATORIES - 5% OF THE TOTAL NUMBER SHALL BE WHEELCHAIR ACCESSIBLE.

SECTION 1109.5.2 DRINKING FOUNTAINS - 50% OF THE TOTAL NUMBER PROVIDED SHALL COMPLY WITH ICC A117.1.

	TOTAL REQUIRED FIXTURES	TOTAL PROVIDED FIXTURES	DISTRIBUTION OF PROVIDED FIXTURES										MINIMUM 5% REQUIRED ACCESSIBLE FIXTURES	PROVIDED ACCESSIBLE FIXTURES
			BOYS	BOYS ADA	GIRLS	GIRLS ADA	UNISEX	UNISEX ADA	MEN	MEN ADA	WOMEN	WOMEN ADA		
WATER CLOSETS	50	66	6	8	16	7	10	8	8	--	3	--	4	23
URINALS	--	16	6	6	--	--	--	--	4	--	--	--	1	6
LAVATORIES	50	66	10	8	14	7	9	8	5	--	5	--	4	23
DRINKING FOUNTAINS	25	16	16											
SERVICE SINKS	1	3	3											

REV.	DATE	ITEM

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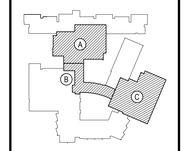

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
FIRST FLOOR CODE COMPLIANCE KEY PLAN

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR CODE COMPLIANCE KEY PLAN
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

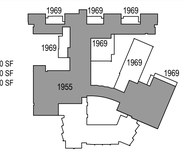
A0.01

OVERALL BASEMENT FLOOR PLAN

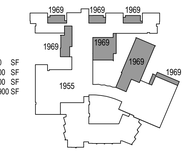
SCALE: 1" = 20'-0"

BUILDING ADDITION AREA KEY PLANS

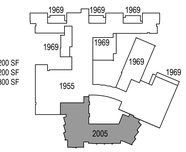
ORIGINAL BUILDING DATE: 1955
CONSTRUCTION TYPE: IIB
BASEMENT: +/- 16,000 SF
FIRST FLOOR: +/- 99,300 SF
GROSS BUILDING: +/- 15,300 SF



ORIGINAL BUILDING DATE: 1969
CONSTRUCTION TYPE: IIB
BASEMENT: +/- 7,100 SF
FIRST FLOOR: +/- 32,000 SF
SECOND FLOOR: +/- 13,500 SF
GROSS BUILDING: +/- 167,900 SF



ORIGINAL BUILDING DATE: 2005
CONSTRUCTION TYPE: IIB
FIRST FLOOR: +/- 30,200 SF
SECOND FLOOR: +/- 30,200 SF
GROSS BUILDING: +/- 228,300 SF



BUILDING FIRE AREA KEY PLAN

BUILDING '1' (EXISTING)
ONE STORY
CONSTRUCTION TYPE: IIB
FIRE AREA (1): +/- 28,400 SF

BUILDING '1' (EXISTING)
ONE STORY
CONSTRUCTION TYPE: IIB
FIRE AREA (1): +/- 27,000 SF

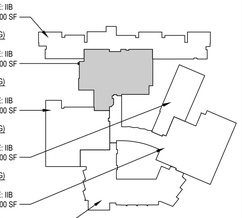
BUILDING '1' (EXISTING)
ONE STORY
CONSTRUCTION TYPE: IIB
FIRE AREA (1): +/- 26,500 SF

BUILDING '2' (EXISTING)
TWO STORIES
CONSTRUCTION TYPE: IIB
FIRE AREA (1): +/- 26,600 SF

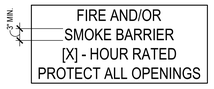
BUILDING '1' (EXISTING)
ONE STORY
CONSTRUCTION TYPE: IIB
FIRE AREA (1): +/- 36,300 SF

BUILDING '3' (EXISTING)
ONE STORIES
CONSTRUCTION TYPE: IIB
FIRE AREA (1): +/- 60,400 SF

GROSS BUILDING AREA: 202,800 SF



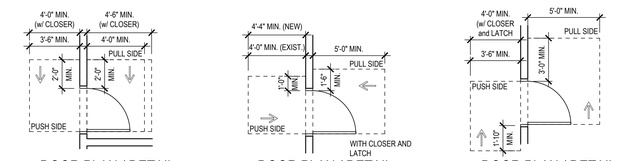
FIRE RATED WALL IDENTIFICATION DETAIL



1. AS REQUIRED BY IBC SECTION 703.7, THE G.C. SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MARKING AND IDENTIFICATION SIGNS INDICATING, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND OR SMOKE PARTITIONS AT ALL CONCEALED SPACES ABOVE ACCESSIBLE CEILINGS.
2. G.C. SHALL PROVIDE SIGNS WITHIN 15 FEET OF EACH END OF WALL AND AT INTERVALS OF 30 FEET MAX. HORIZONTALLY ALONG WALL.
3. PROVIDE SIGNS AS MANUFACTURED BY 'FIRE WALL SIGNS, INC.' OR ARCHITECT APPROVED EQUAL.
4. REFER TO CODE COMPLIANCE FLOOR PLANS FOR LOCATIONS AND APPLICABLE HOURLY DESIGNATIONS OF RATED WALL CONSTRUCTION.

TYPICAL ADA APPROACH CLEARANCES

CONFORM TO ANSI A117.1-2017 STANDARDS FOR APPROACH



A DOOR PLAN / DETAIL at LATCH APPROACH SCALE: N.T.S.

B DOOR PLAN / DETAIL at FRONT APPROACH w/ CLOSER and LATCH SCALE: N.T.S.

C DOOR PLAN / DETAIL at HINGE APPROACH SCALE: N.T.S.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

BASEMENT CODE COMPLIANCE KEY PLAN

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	BASEMENT CODE COMPLIANCE KEY PLAN
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A0.02

OVERALL SECOND FLOOR PLAN

SCALE: 1" = 20'-0"

REV.	DATE	ITEM

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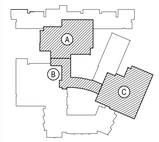

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

SECOND FLOOR CODE COMPLIANCE KEY PLAN

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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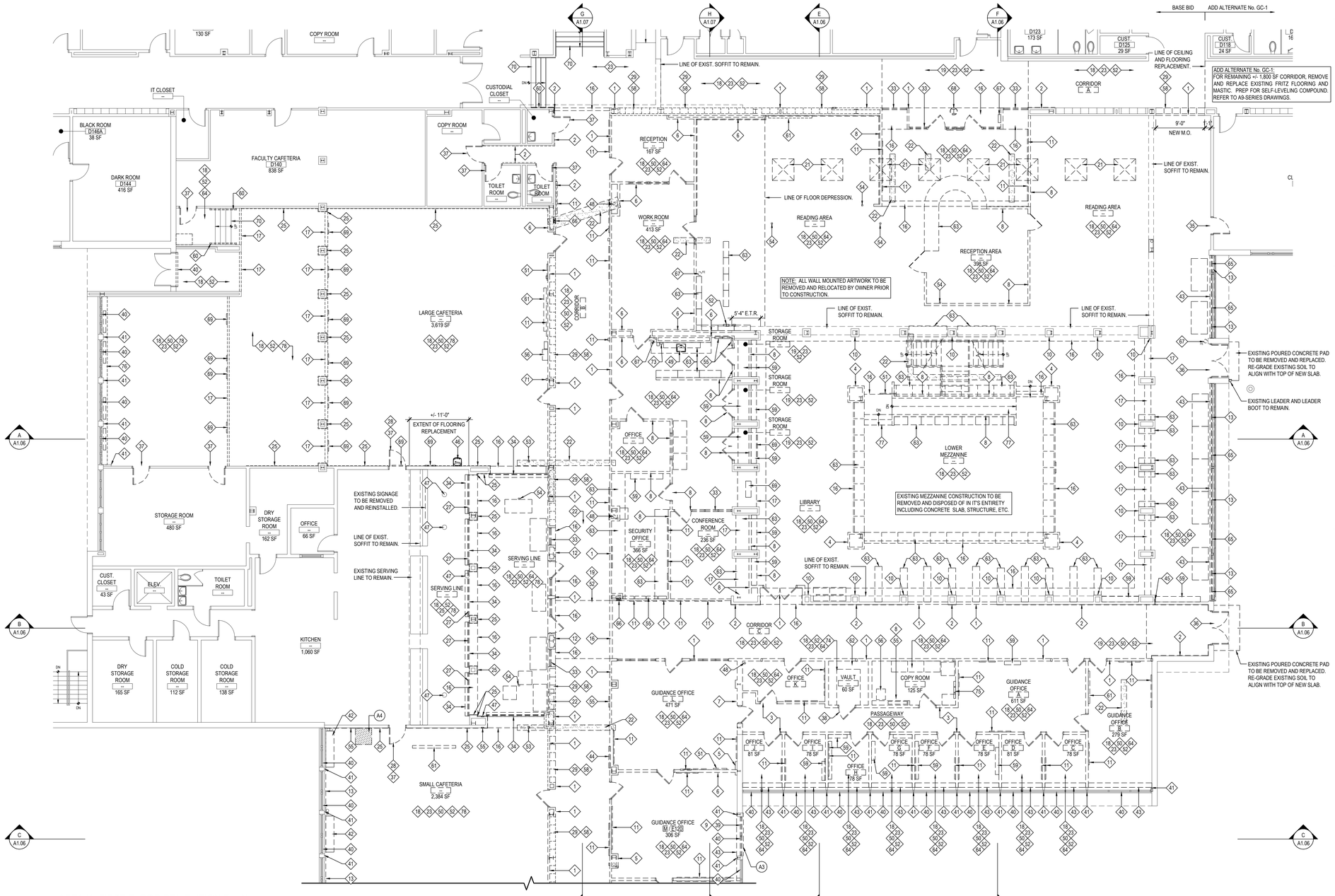
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	SECOND FLOOR CODE COMPLIANCE KEY PLAN
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A0.03



AREA 'A' FIRST FLOOR DEMOLITION PLAN

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

DEMOLITION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL REMAINING SURFACES)
	EXISTING FLOOR SLAB TO BE SAWCUT TO ACCOMMODATE NEW UNDER SLAB UTILITIES. REFER TO SAWCUT DETAIL FOR ADDITIONAL INFORMATION.
X	KEYED NOTE
# / AX.XX	DETAIL TAG — DETAIL NUMBER — DRAWING NUMBER
XX / XX.XX	SECTION / ELEVATION TAG — DETAIL NUMBER — DRAWING NUMBER
XXXX / XXX / XXX SF	ROOM TAG — ROOM NAME — ROOM NUMBER — ROOM AREA
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

DEMOLITION and REMOVAL NOTES

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVALS, UNLESS NOTED OTHERWISE. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C., AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR NOT SHOWN THIS DRAWING. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND / OR RECONSTRUCTION.
2. ALL OPENINGS IN EXISTING INTERIOR AND EXTERIOR WALLS SHALL BE PATCHED AS REQUIRED AND MASONRY TOOTHED-IN TO MATCH ADJACENT.
3. G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.
4. G.C. SHALL VERIFY ALL REMOVALS WITH OWNERS REPRESENTATIVE / OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.
5. PROVIDE SELF-LEVELING TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE SLAB. SHOT-BLAST SUB-FLOOR AS REQUIRED FOR REMOVAL OF EXISTING FLOORING. PREP FOR NEW FINISH FLOORING. ALIGN FOR NEW FINISHES TO BE FLUSH WITH ADJACENT. REFER TO SPECIFICATIONS.
6. PROVIDE FLASH PATCHING AND / OR SELF-LEVELING TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE FLOOR SLAB AT LOCATIONS OF WALL REMOVALS.
7. THROUGHOUT ALL AREAS OF WORK, E.C. SHALL ORGANIZE ALL EXISTING WIRES TO REMAIN AT UNDERSIDE OF ROOF DECK ABOVE NEW FINISHED CEILING. SECURE TO BOTTOM OF EXISTING ROOF DECK, STEEL JOISTS, ETC. REFER TO E-SERIES DRAWINGS.

HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NYS INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS AND THE EPA'S RRP RULE. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES CORRESPOND TO THE CONSTRUCTION DRAWINGS:
    - A1 ASBESTOS CONTAINING CERAMIC FLOOR TILE MORTAR.
    - A2 ASBESTOS CONTAINING CEILING PLASTER.
    - A3 ASBESTOS CONTAINING RESIDUAL WINDOW CAULKING
    - A4 ASBESTOS CONTAINING FLOOR TILE AND MASTIC.
    - A5 ASSUMED ASBESTOS ROOFING MATERIALS.
    - A6 ASSUMED ASBESTOS CONTAINING CEMENT ASBESTOS PANELS
    - L1 LEAD CONTAINING PAINT ON GLAZED WALL BLOCK OR MASONRY WALLS.

DEMOLITION KEY NOTES - AREAS 'A', 'B'

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. EXISTING MASONRY AND GLAZED TILE WAINSCOT WALL TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. PREP REMAINING FLOORS AND WALLS FOR NEW FINISHES.
2. EXISTING +/- 7'-0" GLAZED TILE WAINSCOT TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR EXISTING PLASTER WALL SUBSTRATE AND PREP TO RECEIVE NEW WALL FINISH.
3. EXISTING MASONRY WALL TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. AS INDICATED ON FLOOR PLANS.
4. EXISTING PLASTER AND METAL LATH AND / OR GYP. BD. AND METAL STUD COLUMN ENCLOSURE TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY, INCLUDING ALL FRAMING.
5. EXISTING MASONRY AND / OR PLASTER WALL TO BE REMOVED AND DISPOSED. PATCH AND REPAIR REMAINING ADJACENT PLASTER TO MATCH ADJACENT TEXTURE AND THICKNESS.
6. PORTION OF EXISTING PLASTER AND / OR MASONRY WALL TO BE REMOVED AND DISPOSED OF INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. AS INDICATED ON FLOOR PLANS.
7. EXISTING ORIGINAL EXTERIOR MASONRY WALL TO BE REMOVED AND DISPOSED OF.
8. EXISTING GYP. BD. AND METAL STUD OR WOOD FRAMED WALL TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. AS INDICATED ON FLOOR PLANS.
9. PORTION OF EXTERIOR MASONRY WALL CONSTRUCTION BELOW WINDOW SYSTEM TO BE REMOVED AND DISPOSED OF FOR NEW MASONRY OPENING.
10. EACH TRADE SHALL MODIFY PORTION OF EXISTING GYP. BD. OR PLASTER WALL FOR INSTALLATION OF NEW ELECTRIC, PLUMBING OR MECHANICAL SCOPE OF WORK.
11. EXISTING WALL MOUNTED DISPLAY CASE, CHALKBOARD. MARKERBOARD, TACKBOARD, WOOD PANELS, OR MIRROR TO BE REMOVED AND DISPOSED OF.
12. EXISTING RECESSED DISPLAY CASE TO BE REMOVED AND TURNED OVER TO OWNER.
13. EXISTING GRANITE / WOOD WINDOW STOOL TO BE REMOVED AND REPLACED. PREP EXISTING SURFACE FOR INSTALLATION OF NEW WINDOW STOOL.
14. EXISTING GLASS BLOCK WALL TO BE REMOVED AND DISPOSED OF. PREP REMAINING ADJACENT SURFACES TO RECEIVE NEW FINISHES.
15. EXISTING WINDOW SYSTEM TO REMAIN. PREP, PRIME AND PAINT. COLOR AS SELECTED BY ARCHITECT.
16. EXISTING GYP. BOARD OR PLASTER SOFFIT CONSTRUCTION TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY, INCLUDING ALL ASSOCIATED FRAMING AND SUPPORTS.
17. EXISTING GYP. BOARD AND/OR PLASTER AND METAL LATHE TO BE REMOVED FROM EXISTING SOFFIT IN IT'S ENTIRETY. EXISTING FRAMING TO REMAIN. RE-SECURE FRAMING AND MODIFY FOR NEW SOFFIT CONSTRUCTION.
18. EXISTING ACOUSTICAL CEILING TILE AND GRID TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
19. EXISTING PLASTER CEILING AND ASSOCIATED STRUCTURE TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
20. NOT USED
21. EXISTING SKYLIGHT WELL TO BE CUT BACK TO BOTTOM OF EXISTING ROOF DECK. EXISTING ROOF CURB TO BE REMOVED AND DISPOSED OF DOWN TO EXISTING ROOF DECK. REFER TO A3-SERIES DRAWINGS FOR COMPLETE WORK SCOPE.
22. EACH TRADE SHALL SAWCUT EXISTING CONCRETE FLOOR AS REQUIRED FOR MECHANICAL, ELECTRICAL AND / OR PLUMBING SCOPE OF WORK. REFER TO M-,P- OR E- SERIES DRAWINGS. COORDINATE IN FIELD.
23. EXISTING FRITZ FLOORING, CARPET, RUBBER COVE BASE AND ANY ADHESIVE AND / OR MASTIC TO BE REMOVED AND DISPOSED OF. EXISTING FLOOR SLAB SHALL BE CLEANED OF ALL DEBRIS AND PREPPED FOR SELF LEVELING COMPOUND.
24. NOT USED
25. EXISTING QUARRY TILE FLOORING, COVE BASE AND THINSET MORTAR TO BE REMOVED AND DISPOSED OF TO EXTENTS SHOWN. PROVIDE SELF-LEVELING FOR NEW FINISH FLOORING.
26. EXISTING CERAMIC FLOOR TILE AND MUD BASE TO BE REMOVED AND DISPOSED OF. PREP FLOOR AS REQUIRED FOR SELF-LEVELING FOR A FLUSH ADJACENT FINISH.
27. EXISTING ALUMINUM FLOOR THRESHOLD TO BE REMOVED AND REPLACED.
28. EXISTING MARBLE SADDLE TO BE REMOVED AND REPLACED.
29. EXISTING CONCRETE LOCKER BASE TO BE SAWCUT AND REMOVED FLUSH TO ADJACENT CONCRETE SLAB. PREP FOR FLASH PATCHING AND / OR SELF-LEVELING.
30. NOT USED
31. NOT USED
32. NOT USED
33. EXISTING HOLLOW METAL AND GLASS STOREFRONT TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
34. EXISTING OVERHEAD DOOR, TRACK SYSTEM, AND ASSOCIATED BRACKETS TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
35. EXISTING DOOR AND HOLLOW METAL FRAME TO BE REMOVED AND DISPOSED OF. PREP OPENING FOR NEW MASONRY INFILL (TOOTH-IN)
36. EXISTING DOOR AND HOLLOW METAL FRAME TO BE REMOVED AND REPLACED. PREP OPENING FOR INSTALLATION OF NEW ALUMINUM FRAME.
37. EXISTING DOOR TO BE REMOVED AND DISPOSED OF. EXISTING FRAME TO REMAIN. MODIFY FOR NEW DOOR HARDWARE. PREP, PRIME AND PAINT. COLOR AS SELECTED BY ARCHITECT.
38. EXISTING STEEL VAULT DOOR AND FRAME TO BE REMOVED AND DISPOSED OF.
39. PORTION OF EXISTING WINDOW SYSTEM TO BE REMOVED AND DISPOSED OF FOR INSTALLATION OF NEW DOOR. PREP OPENING FOR INSTALLATION OF NEW STOREFRONT SYSTEM.
40. EXISTING WINDOW TREATMENTS AND SUPPORTS TO BE REMOVED AND DISPOSED OF. PATCH ALL ADJACENT FINISHES TO MATCH EXISTING.
41. EXISTING ALUMINUM COLUMN ENCLOSURES TO REMAIN.
42. EXISTING UNIT VENTILATOR AND ASSOCIATED PIPING TO BE DISCONNECTED, REMOVED AND REINSTALLED BY M.C. FOR INSTALLATION OF NEW FINISH FLOORING AND WALL TREATMENTS.
43. EXISTING FIN TUBE, ENCLOSURE AND ASSOCIATED PIPING TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
44. EXISTING RECESSED CABINET HEATER AND ASSOCIATED PIPING TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
45. EXISTING CEILING MOUNTED HVAC SUPPLY AND ASSOCIATED DUCTWORK THROUGH ROOF TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY BY M.C.
46. EXISTING DRINKING FOUNTAIN TO BE REMOVED AND DISPOSED OF BY P.C. G.C. SHALL PATCH AND REPAIR EXISTING CMU WALL FOR INSTALLATION OF NEW DRINKING FOUNTAIN. (TOOTH-IN CMU INFILL)
47. EXISTING CLEANOUT COVER AND / OR FLOOR DRAIN TO BE REMOVED AND REPLACED BY P.C.
48. EXISTING ROOF DRAIN PIPING TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY P.C.
49. EXISTING PLUMBING / SANITARY FIXTURES AND ASSOCIATED PIPING TO BE REMOVED AND DISPOSED OF BY P.C.
50. EXISTING WALL MOUNTED EMERGENCY LIGHTING, CONDUIT, WIRE MOLD, SPEAKERS, ETC. TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY BY E.C.
51. EXISTING WALL MOUNTED TV MONITOR AND ASSOCIATED CONDUITS TO BE REMOVED AND DISPOSED OF BY E.C.
52. ALL EXISTING RECESSED OR SURFACE MOUNTED LIGHT FIXTURES, FIRE ALARM APPURTENANCES, EXIT SIGNS, ETC. SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY E.C.
53. E.C. TO REMOVE AND DISPOSED OF EXISTING FLOOR RECESSED ELECTRICAL OUTLET AND SAWCUT AND INFILL OPENING FLUSH WITH ADJACENT. G.C. TO PREP FOR NEW FINISH FLOORING.
54. E.C. TO DISCONNECT, REMOVE AND DISPOSE OF EXISTING ELECTRICAL POWER POLE AND INFILL OPENINGS IN EXISTING CONCRETE FLOOR SLAB. G.C. TO PREP FOR NEW FINISH FLOORING.
55. EXISTING ELECTRICAL PANEL AND / OR ELECTRICAL DEVICES TO BE DISCONNECTED AND REMOVED BY E.C.
56. EXISTING SERVER RACK AND / OR PA SYSTEM CONTROLS ASSOCIATED WIRING TO BE DISCONNECTED, REMOVED AND RELOCATED BY E.C. COORDINATE IN FIELD.
57. EXISTING WALL MOUNTED HANDRAILS TO BE REMOVED AND REPLACED.
58. EXISTING CORRIDOR LOCKERS AND TRIM TO BE REMOVED AND TURNED OVER TO OWNER.
59. EXISTING WALL MOUNTED SHELVING TO BE REMOVED AND DISPOSED OF.
60. EXISTING WALL MOUNTED HANDRAIL TO BE REMOVED AND REINSTALLED. PREP, PRIME AND POWDERCOAT. CUSTOM COLOR AS SELECTED BY ARCHITECT.
61. EXISTING PROJECTION SCREEN AND MOUNTING BRACKETS TO BE REMOVED AND DISPOSED OF.
62. EXISTING WOOD OR METAL BUILT-IN SHELVING AND MOUNTING BRACKETS TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY.
63. EXISTING CASEWORK (BASE CABINETS, WALL CABINETS, TALL CABINETS, ETC.) TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY BY THE G.C. DISCONNECTS BY P.C. AND E.C. AS REQUIRED. COORDINATE IN FIELD.
64. ALL LOOSE FURNISHINGS, FILE CABINETS, DESKS, SHELVING, ETC. TO BE REMOVED BY OWNER.
65. EXISTING WOODEN RAILING TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR ADJACENT GYP. BD.
66. EXISTING RECESSED FIRE EXTINGUISHER CABINET TO BE REMOVED AND TURNED OVER TO DISTRICT.
67. EXISTING WALL MOUNTED FIRE EXTINGUISHER AND / OR AED CABINET TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
68. EXISTING COLUMN ENCLOSURE TO BE REMOVED AND DISPOSED OF.
69. EXISTING HVAC TRANSFER, SUPPLY OR RETURN GRILLE TO BE REMOVED AND REPLACED BY M.C.
70. EXISTING STAIR TREAD AND RISER COVERS TO BE REMOVED AND REPLACED.
71. EXISTING WALL MOUNTED THERMOSTAT TO BE REMOVED AND REPLACED BY M.C.
72. EXISTING ACOUSTIC CEILING TILE GRID PERIMETER TRACK TO BE REMOVED AND DISPOSED OF.
73. EXISTING WALL MOUNTED TOILET ROOM ACCESSORIES TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
74. EXISTING VAULT AND ASSOCIATED CONSTRUCTION TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR ADJACENT SURFACES TO RECIEVE NEW FINISHES.
75. EXISTING HVAC CONTROLS AND ASSOCIATED CONDUITS TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
76. EXISTING FIN TUBE AND ASSOCIATED PIPING TO REMAIN. EXISTING ENCLOSURE TO BE REMOVED AND REPLACED BY M.C.
77. EXISTING POURED CONCRETE STAIR AND RAMP CONSTRUCTION TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY, INCLUDING STYROFOAM SUBSTRATE. PREP REMAINING CONCRETE SLAB FOR NEW INFILL.
78. P.C. TO EXTEND EXISTING SPRINKLER PIPING FLUSH WITH NEW FINISH CEILING. COORDINATE IN FIELD.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: DEMOLITION PLAN - AREA 'A'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DEMOLITION PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

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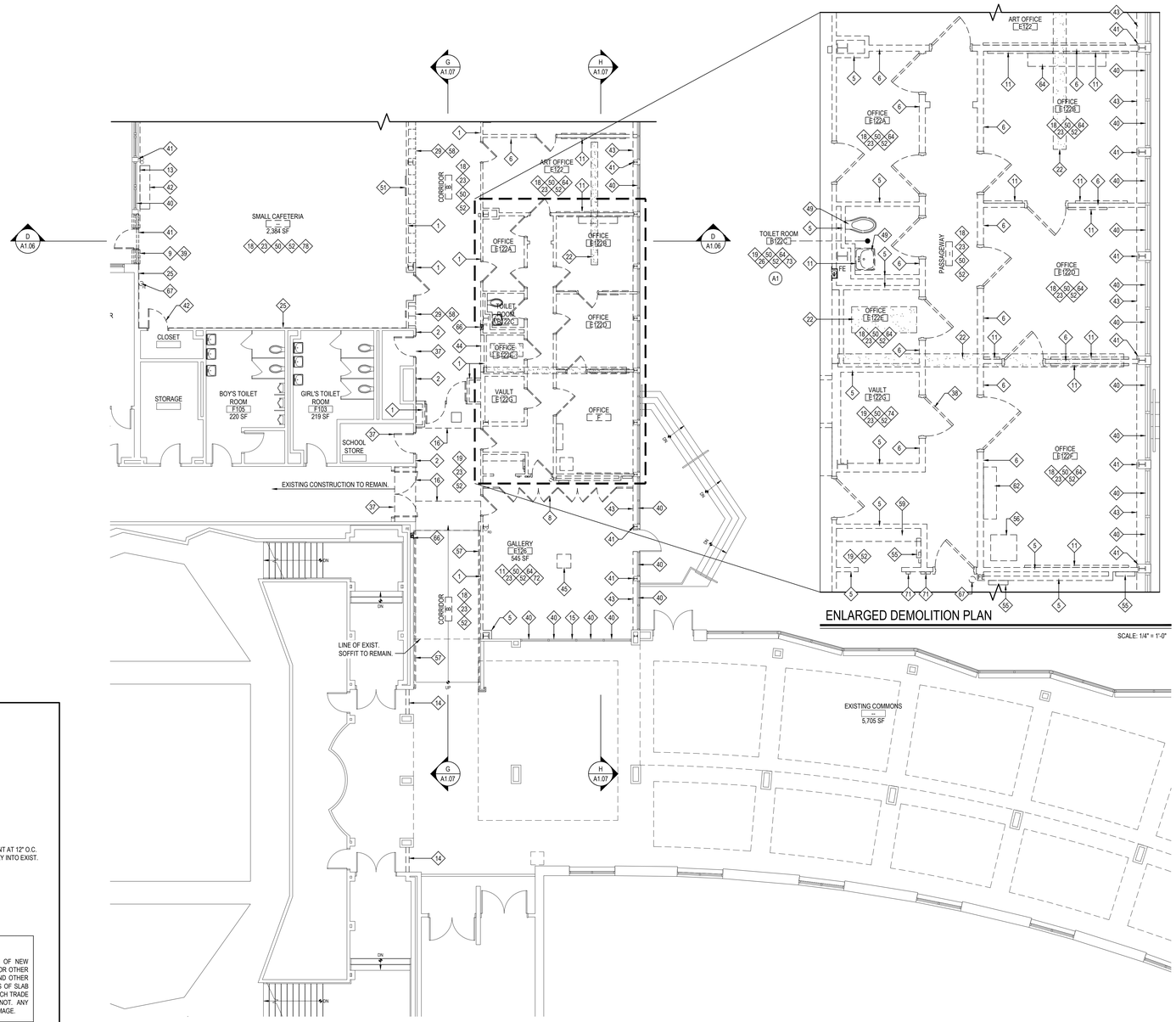

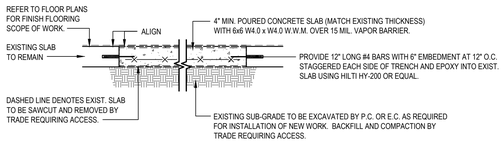

TYPICAL SLAB SAWCUT NOTE

EACH TRADE SHALL SAWCUT AND REMOVE PORTIONS OF EXISTING CONCRETE SLAB-ON-GRADE TO ACCOMMODATE INSTALLATION OF NEW UNDER-SLAB UTILITIES AND PATCH SLAB AND FINISH FLOORING. SLAB SHALL BE SCANNED VIA GROUND PENETRATING RADAR (GPR) AND/OR OTHER METHODS AS DEEMED APPROPRIATE AND MARKED-OUT FOR BURIED AND/OR EMBEDDED PIPING, DUCT BANKS, ELECTRICAL CONDUIT, AND OTHER UTILITIES. EACH CONTRACTOR SHALL EXERCISE CARE IN SLAB DEMOLITION IN THE VICINITY OF LOCATED UTILITIES AND ALTER METHODS OF SLAB DEMOLITION AS APPROPRIATE. FINAL EXTENT AND LOCATIONS OF SLAB REMOVAL TO BE COORDINATED BETWEEN TRADES IN THE FIELD. EACH TRADE WILL BE RESPONSIBLE FOR REPAIR OF ANY UTILITIES CUT OR DAMAGED BY THEIR SLAB REMOVAL WHETHER REVEALED BY SCANNING OR NOT. ANY DAMAGE TO UTILITIES CAUSED DURING EXCAVATION BY OTHER TRADES WILL BE THE RESPONSIBILITY OF THE TRADE WHICH CAUSED THE DAMAGE.

1 TYPICAL SLAB ON GRADE SAWCUT INFILL DETAIL

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

DEMOLITION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL REMAINING SURFACES)
	EXISTING FLOOR SLAB TO BE SAWCUT TO ACCOMMODATE NEW UNDER SLAB UTILITIES. REFER TO SAWCUT DETAIL FOR ADDITIONAL INFORMATION.
X	KEYED NOTE
# / AX.XX	DETAIL TAG DETAIL NUMBER DRAWING NUMBER
XX / XX.XX	SECTION / ELEVATION TAG DETAIL NUMBER DRAWING NUMBER
XXXX / XXX / XXX SF	ROOM TAG ROOM NAME ROOM NUMBER ROOM AREA
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

DEMOLITION and REMOVAL NOTES

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVALS, UNLESS NOTED OTHERWISE. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C., AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR NOT SHOWN THIS DRAWING. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND / OR RECONSTRUCTION.
2. ALL OPENINGS IN EXISTING INTERIOR AND EXTERIOR WALLS SHALL BE PATCHED AS REQUIRED AND MASONRY TOOTHED-IN TO MATCH ADJACENT.
3. G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.
4. G.C. SHALL VERIFY ALL REMOVALS WITH OWNERS REPRESENTATIVE / OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.
5. PROVIDE SELF-LEVELING TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE SLAB. SHOT-BLAST SUB-FLOOR AS REQUIRED FOR REMOVAL OF EXISTING FLOORING. PREP FOR NEW FINISH FLOORING. ALIGN FOR NEW FINISHES TO BE FLUSH WITH ADJACENT. REFER TO SPECIFICATIONS.
6. PROVIDE FLASH PATCHING AND / OR SELF-LEVELING TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE FLOOR SLAB AT LOCATIONS OF WALL REMOVALS.
7. THROUGHOUT ALL AREAS OF WORK, E.C. SHALL ORGANIZE ALL EXISTING WIRES TO REMAIN AT UNDERSIDE OF ROOF DECK ABOVE NEW FINISHED CEILING. SECURE TO BOTTOM OF EXISTING ROOF DECK, STEEL JOISTS, ETC. REFER TO E-SERIES DRAWINGS.

HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NYS INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS AND THE EPA'S RRP RULE. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES CORRESPOND TO THE CONSTRUCTION DRAWINGS:
    - A1 ASBESTOS CONTAINING CERAMIC FLOOR TILE MORTAR.
    - A2 ASBESTOS CONTAINING CEILING PLASTER.
    - A3 ASBESTOS CONTAINING RESIDUAL WINDOW CAULKING
    - A4 ASBESTOS CONTAINING FLOOR TILE AND MASTIC.
    - A5 ASSUMED ASBESTOS ROOFING MATERIALS.
    - A6 ASSUMED ASBESTOS CONTAINING CEMENT ASBESTOS PANELS
    - L1 LEAD CONTAINING PAINT ON GLAZED WALL BLOCK OR MASONRY WALLS.

DEMOLITION KEY NOTES - AREAS 'A', 'B'

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. EXISTING MASONRY AND GLAZED TILE WAINSCOT WALL TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. PREP REMAINING FLOORS AND WALLS FOR NEW FINISHES.
2. EXISTING +/- 7'-0" GLAZED TILE WAINSCOT TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR EXISTING PLASTER WALL SUBSTRATE AND PREP TO RECEIVE NEW WALL FINISH.
3. EXISTING MASONRY WALL TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. AS INDICATED ON FLOOR PLANS.
4. EXISTING PLASTER AND METAL LATH AND / OR GYP. BD. AND METAL STUD COLUMN ENCLOSURE TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY, INCLUDING ALL FRAMING.
5. EXISTING MASONRY AND / OR PLASTER WALL TO BE REMOVED AND DISPOSED. PATCH AND REPAIR REMAINING ADJACENT PLASTER TO MATCH ADJACENT TEXTURE AND THICKNESS.
6. PORTION OF EXISTING PLASTER AND / OR MASONRY WALL TO BE REMOVED AND DISPOSED OF INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. AS INDICATED ON FLOOR PLANS.
7. EXISTING ORIGINAL EXTERIOR MASONRY WALL TO BE REMOVED AND DISPOSED OF.
8. EXISTING GYP. BD. AND METAL STUD OR WOOD FRAMED WALL TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. AS INDICATED ON FLOOR PLANS.
9. PORTION OF EXTERIOR MASONRY WALL CONSTRUCTION BELOW WINDOW SYSTEM TO BE REMOVED AND DISPOSED OF FOR NEW MASONRY OPENING.
10. EACH TRADE SHALL MODIFY PORTION OF EXISTING GYP. BD. OR PLASTER WALL FOR INSTALLATION OF NEW ELECTRIC, PLUMBING OR MECHANICAL SCOPE OF WORK.
11. EXISTING WALL MOUNTED DISPLAY CASE, CHALKBOARD, MARKERBOARD, TACKBOARD, WOOD PANELS, OR MIRROR TO BE REMOVED AND DISPOSED OF.
12. EXISTING RECESSED DISPLAY CASE TO BE REMOVED AND TURNED OVER TO OWNER.
13. EXISTING GRANITE / WOOD WINDOW STOOL TO BE REMOVED AND REPLACED. PREP EXISTING SURFACE FOR INSTALLATION OF NEW WINDOW STOOL.
14. EXISTING GLASS BLOCK WALL TO BE REMOVED AND DISPOSED OF. PREP REMAINING ADJACENT SURFACES TO RECEIVE NEW FINISHES.
15. EXISTING WINDOW SYSTEM TO REMAIN. PREP, PRIME AND PAINT. COLOR AS SELECTED BY ARCHITECT.
16. EXISTING GYP. BOARD OR PLASTER SOFFIT CONSTRUCTION TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY, INCLUDING ALL ASSOCIATED FRAMING AND SUPPORTS.
17. EXISTING GYP. BOARD AND/OR PLASTER AND METAL LATHE TO BE REMOVED FROM EXISTING SOFFIT IN IT'S ENTIRETY. EXISTING FRAMING TO REMAIN. RE-SECURE FRAMING AND MODIFY FOR NEW SOFFIT CONSTRUCTION.
18. EXISTING ACOUSTICAL CEILING TILE AND GRID TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
19. EXISTING PLASTER CEILING AND ASSOCIATED STRUCTURE TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
20. NOT USED
21. EXISTING SKYLIGHT WELL TO BE CUT BACK TO BOTTOM OF EXISTING ROOF DECK. EXISTING ROOF CURB TO BE REMOVED AND DISPOSED OF DOWN TO EXISTING ROOF DECK. REFER TO A3-SERIES DRAWINGS FOR COMPLETE WORK SCOPE.
22. EACH TRADE SHALL SAWCUT EXISTING CONCRETE FLOOR AS REQUIRED FOR MECHANICAL, ELECTRICAL AND / OR PLUMBING SCOPE OF WORK. REFER TO M-,P- OR E- SERIES DRAWINGS. COORDINATE IN FIELD.
23. EXISTING FRITZ FLOORING, CARPET, RUBBER COVE BASE AND ANY ADHESIVE AND / OR MASTIC TO BE REMOVED AND DISPOSED OF. EXISTING FLOOR SLAB SHALL BE CLEANED OF ALL DEBRIS AND PREPPED FOR SELF LEVELING COMPOUND.
24. NOT USED
25. EXISTING QUARRY TILE FLOORING, COVE BASE AND THINSET MORTAR TO BE REMOVED AND DISPOSED OF TO EXTENTS SHOWN. PROVIDE SELF-LEVELING FOR NEW FINISH FLOORING.
26. EXISTING CERAMIC FLOOR TILE AND MUD BASE TO BE REMOVED AND DISPOSED OF. PREP FLOOR AS REQUIRED FOR SELF-LEVELING FOR A FLUSH ADJACENT FINISH.
27. EXISTING ALUMINUM FLOOR THRESHOLD TO BE REMOVED AND REPLACED.
28. EXISTING MARBLE SADDLE TO BE REMOVED AND REPLACED.
29. EXISTING CONCRETE LOCKER BASE TO BE SAWCUT AND REMOVED FLUSH TO ADJACENT CONCRETE SLAB. PREP FOR FLASH PATCHING AND / OR SELF-LEVELING.
30. NOT USED
31. NOT USED
32. NOT USED
33. EXISTING HOLLOW METAL AND GLASS STOREFRONT TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
34. EXISTING OVERHEAD DOOR, TRACK SYSTEM, AND ASSOCIATED BRACKETS TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
35. EXISTING DOOR AND HOLLOW METAL FRAME TO BE REMOVED AND DISPOSED OF. PREP OPENING FOR NEW MASONRY INFILL (TOOTH-IN)
36. EXISTING DOOR AND HOLLOW METAL FRAME TO BE REMOVED AND REPLACED. PREP OPENING FOR INSTALLATION OF NEW ALUMINUM FRAME.
37. EXISTING DOOR TO BE REMOVED AND DISPOSED OF. EXISTING FRAME TO REMAIN. MODIFY FOR NEW DOOR HARDWARE. PREP, PRIME AND PAINT. COLOR AS SELECTED BY ARCHITECT.
38. EXISTING STEEL VAULT DOOR AND FRAME TO BE REMOVED AND DISPOSED OF.
39. PORTION OF EXISTING WINDOW SYSTEM TO BE REMOVED AND DISPOSED OF FOR INSTALLATION OF NEW DOOR. PREP OPENING FOR INSTALLATION OF NEW STOREFRONT SYSTEM.
40. EXISTING WINDOW TREATMENTS AND SUPPORTS TO BE REMOVED AND DISPOSED OF. PATCH ALL ADJACENT FINISHES TO MATCH EXISTING.
41. EXISTING ALUMINUM COLUMN ENCLOSURES TO REMAIN.
42. EXISTING UNIT VENTILATOR AND ASSOCIATED PIPING TO BE DISCONNECTED, REMOVED AND REINSTALLED BY M.C. FOR INSTALLATION OF NEW FINISH FLOORING AND WALL TREATMENTS.
43. EXISTING FIN TUBE, ENCLOSURE AND ASSOCIATED PIPING TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
44. EXISTING RECESSED CABINET HEATER AND ASSOCIATED PIPING TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
45. EXISTING CEILING MOUNTED HVAC SUPPLY AND ASSOCIATED DUCTWORK THROUGH ROOF TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY BY M.C.
46. EXISTING DRINKING FOUNTAIN TO BE REMOVED AND DISPOSED OF BY P.C. G.C. SHALL PATCH AND REPAIR EXISTING CMU WALL FOR INSTALLATION OF NEW DRINKING FOUNTAIN. (TOOTH-IN CMU INFILL.)
47. EXISTING CLEANOUT COVER AND / OR FLOOR DRAIN TO BE REMOVED AND REPLACED BY P.C.
48. EXISTING ROOF DRAIN PIPING TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY P.C.
49. EXISTING PLUMBING / SANITARY FIXTURES AND ASSOCIATED PIPING TO BE REMOVED AND DISPOSED OF BY P.C.
50. EXISTING WALL MOUNTED EMERGENCY LIGHTING, CONDUIT, WIRE MOLD, SPEAKERS, ETC. TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY BY E.C.
51. EXISTING WALL MOUNTED TV MONITOR AND ASSOCIATED CONDUITS TO BE REMOVED AND DISPOSED OF BY E.C.
52. ALL EXISTING RECESSED OR SURFACE MOUNTED LIGHT FIXTURES, FIRE ALARM APPURTENANCES, EXIT SIGNS, ETC. SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY E.C.
53. E.C. TO REMOVE AND DISPOSED OF EXISTING FLOOR RECESSED ELECTRICAL OUTLET AND SAWCUT AND INFILL OPENING FLUSH WITH ADJACENT. G.C. TO PREP FOR NEW FINISH FLOORING.
54. E.C. TO DISCONNECT, REMOVE AND DISPOSE OF EXISTING ELECTRICAL POWER POLE AND INFILL OPENINGS IN EXISTING CONCRETE FLOOR SLAB. G.C. TO PREP FOR NEW FINISH FLOORING.
55. EXISTING ELECTRICAL PANEL AND / OR ELECTRICAL DEVICES TO BE DISCONNECTED AND REMOVED BY E.C.
56. EXISTING SERVER RACK AND / OR PA SYSTEM CONTROLS ASSOCIATED WIRING TO BE DISCONNECTED, REMOVED AND RELOCATED BY E.C. COORDINATE IN FIELD.
57. EXISTING WALL MOUNTED HANDRAILS TO BE REMOVED AND REPLACED.
58. EXISTING CORRIDOR LOCKERS AND TRIM TO BE REMOVED AND TURNED OVER TO OWNER.
59. EXISTING WALL MOUNTED SHELVING TO BE REMOVED AND DISPOSED OF.
60. EXISTING WALL MOUNTED HANDRAIL TO BE REMOVED AND REINSTALLED. PREP, PRIME AND POWDERCOAT. CUSTOM COLOR AS SELECTED BY ARCHITECT.
61. EXISTING PROJECTION SCREEN AND MOUNTING BRACKETS TO BE REMOVED AND DISPOSED OF.
62. EXISTING WOOD OR METAL BUILT-IN SHELVING AND MOUNTING BRACKETS TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY.
63. EXISTING CASEWORK (BASE CABINETS, WALL CABINETS, TALL CABINETS, ETC.) TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY BY THE G.C. DISCONNECTS BY P.C. AND E.C. AS REQUIRED. COORDINATE IN FIELD.
64. ALL LOOSE FURNISHINGS, FILE CABINETS, DESKS, SHELVING, ETC. TO BE REMOVED BY OWNER.
65. EXISTING WOODEN RAILING TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR ADJACENT GYP. BD.
66. EXISTING RECESSED FIRE EXTINGUISHER CABINET TO BE REMOVED AND TURNED OVER TO DISTRICT.
67. EXISTING WALL MOUNTED FIRE EXTINGUISHER AND / OR AED CABINET TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
68. EXISTING COLUMN ENCLOSURE TO BE REMOVED AND DISPOSED OF.
69. EXISTING HVAC TRANSFER, SUPPLY OR RETURN GRILLE TO BE REMOVED AND REPLACED BY M.C.
70. EXISTING STAIR TREAD AND RISER COVERS TO BE REMOVED AND REPLACED.
71. EXISTING WALL MOUNTED THERMOSTAT TO BE REMOVED AND REPLACED BY M.C.
72. EXISTING ACOUSTIC CEILING TILE GRID PERIMETER TRACK TO BE REMOVED AND DISPOSED OF.
73. EXISTING WALL MOUNTED TOILET ROOM ACCESSORIES TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
74. EXISTING VAULT AND ASSOCIATED CONSTRUCTION TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR ADJACENT SURFACES TO RECIEVE NEW FINISHES.
75. EXISTING HVAC CONTROLS AND ASSOCIATED CONDUITS TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
76. EXISTING FIN TUBE AND ASSOCIATED PIPING TO REMAIN. EXISTING ENCLOSURE TO BE REMOVED AND REPLACED BY M.C.
77. EXISTING POURED CONCRETE STAIR AND RAMP CONSTRUCTION TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY, INCLUDING STYROFOAM SUBSTRATE. PREP REMAINING CONCRETE SLAB FOR NEW INFILL.
78. P.C. TO EXTEND EXISTING SPRINKLER PIPING FLUSH WITH NEW FINISH CEILING. COORDINATE IN FIELD.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION PLAN - AREA 'B'

DRAWING BY:	P.J.H.
CHECK BY:	P.J.H.

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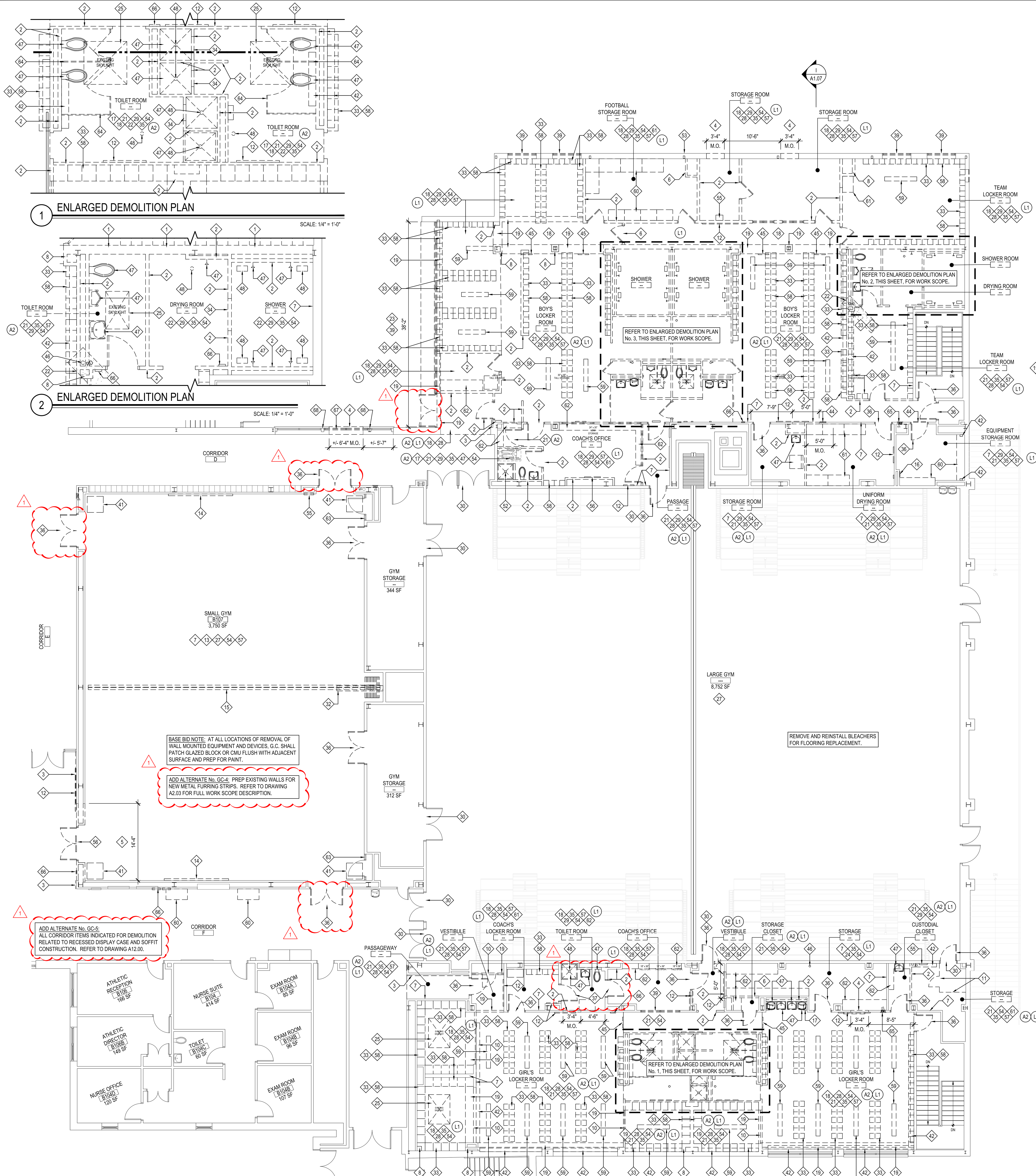
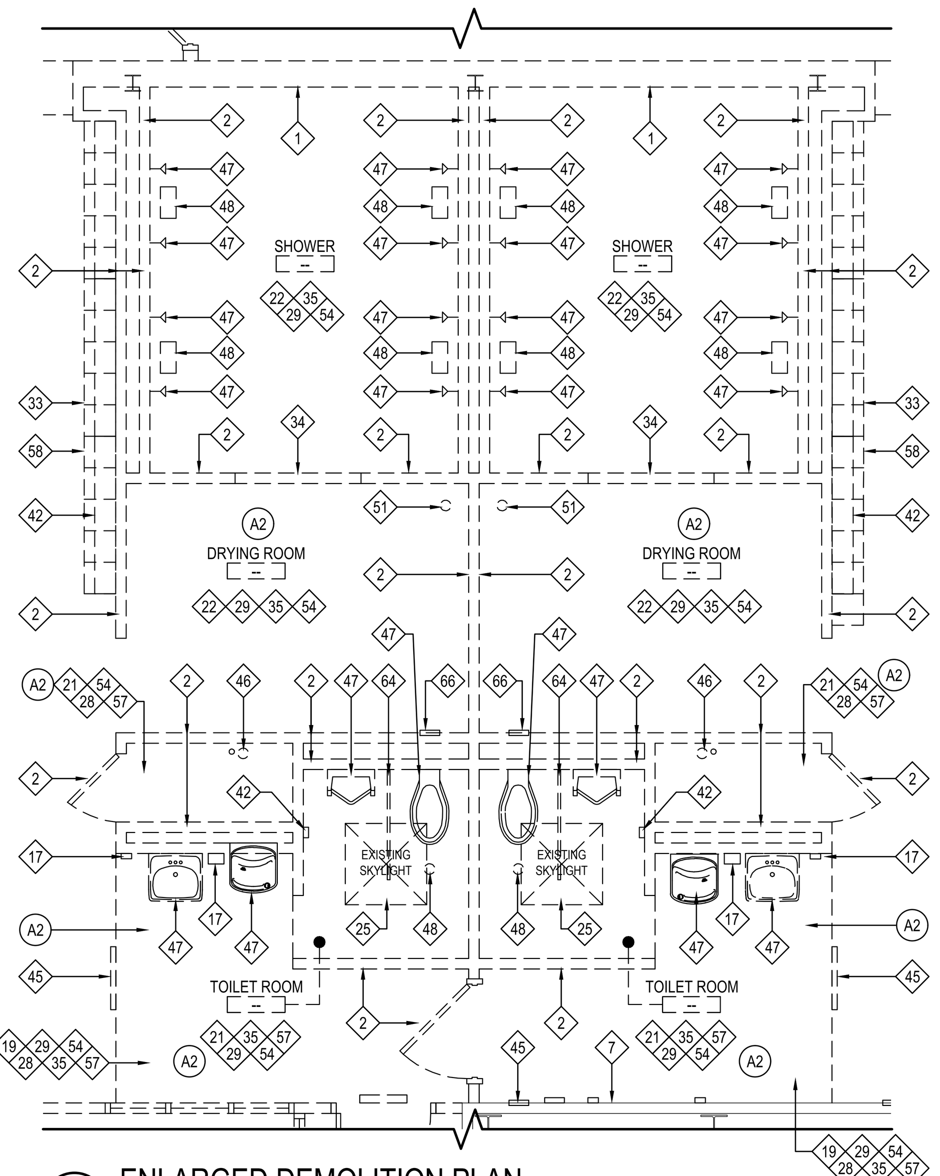


1 ENLARGED DEMOLITION PLAN

2 ENLARGED DEMOLITION PLAN

AREA 'C' FIRST FLOOR DEMOLITION PLAN



3 ENLARGED DEMOLITION PLAN

HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NYS INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS AND THE EPA'S RRP RULE. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES CORRESPOND TO THE CONSTRUCTION DRAWINGS:
    - A1 ASBESTOS CONTAINING CERAMIC FLOOR TILE MORTAR.
    - A2 ASBESTOS CONTAINING CEILING PLASTER.
    - A3 ASBESTOS CONTAINING RESIDUAL WINDOW CAULKING
    - A4 ASBESTOS CONTAINING FLOOR TILE AND MASTIC.
    - A5 ASSUMED ASBESTOS CONTAINING ROOFING MATERIALS. (TYPICAL THROUGHOUT)
    - A6 ASSUMED ASBESTOS CONTAINING CEMENT ASBESTOS PANELS
    - L1 LEAD CONTAINING PAINT ON GLAZED WALL BLOCK OR MASONRY WALLS.

REV. 12-2022

DEMOLITION KEY NOTES - AREA 'C'

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. EXISTING ORIGINAL EXTERIOR WALL CONSTRUCTION TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY. PREP REMAINING FLOORS AND WALLS FOR NEW FINISHES.
2. EXISTING MASONRY AND / OR GLAZED BLOCK WALL TO BE REMOVED IN IT'S ENTIRETY INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. AS INDICATED ON FLOOR PLANS. PREP REMAINING FLOORS AND WALLS FOR NEW FINISHES.
3. EXISTING +/- 7'-0" GLAZED TILE WAINSCOT TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR EXISTING PLASTER WALL SUBSTRATE AND PREP TO RECEIVE NEW WALL FINISH.
4. PORTION OF EXISTING EXTERIOR MASONRY WALL TO BE SAWCUT, REMOVED AND DISPOSED OF FOR NEW MASONRY OPENING.
5. EXISTING MASONRY AND GLAZED TILE WAINSCOT WALL TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY INCLUDING ANY DOORS, FRAMES, VISION-LITES, ETC. PREP REMAINING FLOORS AND WALLS FOR NEW FINISHES.
6. EXISTING GYP. BD. OR PLASTER AND LATHE WALL TO BE REMOVED AND DISPOSED OF.
7. EXISTING GLAZED BLOCK WALL(S) TO REMAIN. PREP FOR NEW FINISHES. REFER TO A9-SERIES DRAWINGS.
8. EXISTING MASONRY AND / OR GLAZED BLOCK COLUMN OR DUCTWORK ENCLOSURE TO BE REMOVED AND DISPOSED OF AS REQUIRED FOR NEW CMU WALL CONSTRUCTION.
9. NOT USED
10. EXISTING CHAIN LINK FENCING AND ALL ASSOCIATED POSTS AND SUPPORTS TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY.
11. EXISTING PLYWOOD WALL AND WOODEN STRUCTURAL FRAMING TO BE REMOVED AND DISPOSED OF.
12. EXISTING WALL MOUNTED DISPLAY CASE, CHALKBOARD, MARKERBOARD, TACKBOARD, WOOD PANELS, OR MIRROR TO BE REMOVED AND DISPOSED OF.
13. EXISTING WALL MOUNTED SPORTS AND ATHLETIC EQUIPMENT, BASKETBALL HOOPS, CLIMBING WALLS, ETC. TO BE REMOVED AND DISPOSED OF.
14. EXISTING WALL PADDING AND MOUNTING BRACKETS TO BE REMOVED AND DISPOSED OF.
15. EXISTING FOLDING PARTITION AND ASSOCIATED STRUCTURE, ENCLOSURES, TRIM, ELECTRICAL COMPONENTS, ETC. SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF. E.C. TO DISCONNECT, G.C. TO REMOVE.
16. EXISTING ACCESS PANEL TO BE REMOVED AND REPLACED BY G.C. VERIFY SIZE IN FIELD.
17. EXISTING WALL MOUNTED TOILET ROOM ACCESSORIES TO BE REMOVED AND TURNED OVER TO THE DISTRICT.
18. EXISTING ACOUSTICAL CEILING TILE AND GRID TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
19. EXISTING GYP. BOARD OR PLASTER SOFFIT CONSTRUCTION TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY, INCLUDING ALL ASSOCIATED FRAMING AND SUPPORTS.
20. NOT USED
21. EXISTING PLASTER CEILING AND ASSOCIATED STRUCTURE TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
22. EXISTING CERAMIC TILE CEILING AND ASSOCIATED STRUCTURAL SUPPORTS TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY.
23. UNDERSIDE OF EXISTING EXTERIOR SOFFIT CONSTRUCTION TO BE REMOVED AND REPLACED AS NEEDED FOR DEMOLITION AND CONSTRUCTION OF NEW MASONRY EXTERIOR WALL.
24. EXISTING CONCEALED SPLINE CEILING SYSTEM AND ALL ASSOCIATED SUPPORTS TO BE REMOVED AND DISPOSED OF.
25. EXISTING SKYLIGHT AND ASSOCIATED FRAMING TO BE REMOVED AND DISPOSED OF IN ITS ENTIRETY. PATCH AND REPAIR EXISTING ROOF. MAINTAIN EXISTING WARRANTY.
26. NOT USED
27. EXISTING WOOD FLOOR SYSTEM, FRAMING, BASE ANGLE, AND METAL THRESHOLDS TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY. EXISTING CONCRETE SUBFLOOR TO REMAIN.
28. EXISTING FRITZ FLOORING, RAISED RUBBER FLOORING, RUBBER COVE BASE AND ANY ADHESIVE AND / OR MASTIC TO BE REMOVED AND DISPOSED OF. EXISTING FLOOR SLAB SHALL BE CLEANED OF ALL DEBRIS AND PREPPED FOR SELF LEVELING COMPOUND.
29. EXISTING CERAMIC FLOOR TILE AND MUD BASE TO BE REMOVED AND DISPOSED OF. PREP FLOOR AS REQUIRED FOR SELF-LEVELING FOR A FLUSH ADJACENT FINISH.
30. EXISTING ALUMINUM FLOOR THRESHOLD TO BE REMOVED AND REPLACED.
31. NOT USED.
32. EACH TRADE SHALL SAWCUT EXISTING CONCRETE FLOOR AS REQUIRED FOR MECHANICAL, ELECTRICAL AND / OR PLUMBING SCOPE OF WORK. REFER TO M-,P- OR E- SERIES DRAWINGS. COORDINATE IN FIELD.
33. EXISTING 4"H CONCRETE LOCKER BASE TO BE REMOVED AND DISPOSED OF IN IT'S ENTIRETY. PATCH AND REPAIR EXISTING FLOOR TO MATCH ADJACENT FLOOR TILE ELEVATION. PROVIDE SELF-LEVELING AND PREP FOR NEW FINISH FLOORING. REFER TO A9- SERIES DRAWINGS.
34. EXISTING RAISED CONCRETE AND TILE CURB TO BE REMOVED AND DISPOSED OF.
35. PROVIDE FLASH PATCHING AND / OR SELF-LEVELING TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE FLOOR SLAB. PREP FOR NEW FINISH FLOORING. REFER TO A9-SERIES DRAWINGS.
36. EXISTING DOOR TO BE REMOVED AND DISPOSED OF. EXISTING FRAME TO REMAIN. MODIFY FOR NEW DOOR HARDWARE. PREP, PRIME AND PAINT. COLOR AS SELECTED BY ARCHITECT.
37. EXISTING DOOR AND HOLLOW METAL FRAME TO BE REMOVED AND DISPOSED OF. PREP OPENING FOR NEW MASONRY INFILL. (TOOTH-IN)
38. NOT USED
39. EXISTING WINDOW AND LINTEL TO BE REMOVED AND DISPOSED OF. INFILL EXISTING MASONRY OPENING TO MATCH ADJACENT, EA. SIDE. (TOOTH-IN NEW BRICK AND CMU)
40. NOT USED
41. EXISTING WALL MOUNTED MECHANICAL UNIT AND ASSOCIATED PIPING, ENCLOSURES, ETC. TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
42. EXISTING FIN TUBE, ENCLOSURE AND ASSOCIATED PIPING TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
43. NOT USED.
44. EXISTING TRANSFER GRILLE TO BE REMOVED AND DISPOSED OF BY M.C. M.C. TO INFILL EXISTING OPENING TO MATCH EXISTING ADJACENT CONSTRUCTION.
45. EXISTING MECHANICAL GRILLE AND ASSOCIATED DUCTWORK TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C..
46. EXISTING PLUMBING PIPING TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY P.C.
47. EXISTING PLUMBING / SANITARY FIXTURES AND ASSOCIATED PIPING TO BE REMOVED AND DISPOSED OF BY P.C.
48. P.C. TO CAP, REMOVE AND DISPOSE OF EXISTING PIPE BELOW FLOOR SLAB AND INFILL EXISTING FLOOR SLAB. G.C. TO PREP FOR NEW FINISH FLOORING. REFER TO A9- SERIES DRAWINGS.
49. NOT USED
50. EXISTING CLEAN OUT COVER TO BE REMOVED AND REPLACED BY P.C. INSTALL AT CORRECT ELEVATION FOR NEW FINISH FLOORING. REFER TO P-SERIES DRAWINGS. COORDINATE IN FIELD.
51. EXISTING FLOOR DRAIN TO REMAIN. P.C. TO REMOVE EXISTING DRAIN COVER AND PROVIDE AND INSTALL NEW SOLID COVER PLATE TO ALIGN WITH ELEVATION OF NEW FINISH FLOORING. REFER TO P-SERIES DRAWINGS. COORDINATE WITH G.C.
52. EXISTING FLOOR DRAIN TO BE REMOVED AND REPLACED BY P.C. SAWCUT EXISTING FLOOR AS REQUIRED. COORDINATE IN FIELD.
53. EXISTING WALL MOUNTED CONDUIT TO BE REMOVED AND RELOCATED BY E.C. FOR INSTALLATION OF NEW MASONRY OPENINGS. COORDINATE IN FIELD.
54. ALL EXISTING RECESSED OR SURFACE MOUNTED LIGHT FIXTURES, FIRE ALARM APPURTENANCES, EXIT SIGNS, ETC. SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY E.C.
55. EXISTING ELECTRICAL PANEL AND / OR ELECTRICAL DEVICES TO BE DISCONNECTED, REMOVED AND REPLACED BY E.C. REFER TO E-SERIES DRAWINGS.
56. EXISTING WALL MOUNTED TV MONITOR AND ASSOCIATED CONDUITS TO BE REMOVED AND DISPOSED OF BY E.C..
57. EXISTING WALL MOUNTED EMERGENCY LIGHTING, CONDUIT, WIRE MOLD, SPEAKERS, ETC. TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY BY E.C..
58. EXISTING 72"H METAL LOCKERS TO BE REMOVED AND DISPOSED OF BY G.C.
59. EXISTING WOOD BENCH AND FLOOR MOUNTED POSTS TO BE REMOVED AND DISPOSED OF.
60. EXISTING CASEWORK (BASE CABINETS, WALL CABINETS, TALL CABINETS, ETC.) TO BE REMOVED AND DISPOSED OF IN THEIR ENTIRETY BY THE G.C. DISCONNECTS BY P.C. AND E.C. AS REQUIRED. COORDINATE IN FIELD.
61. ALL LOOSE FURNISHINGS, FILE CABINETS, DESKS, SHELVING, ETC. TO BE REMOVED BY OWNER.
62. EXISTING WALL MOUNTED SHELVING TO BE REMOVED AND DISPOSED OF.
63. EXISTING STOREFRONT TO REMAIN. SCRAPE, PREP, PRIME AND PAINT EXISTING DOOR, FRAME AND SIDE PANELS. COLOR AS SELECTED BY ARCHITECT.
64. EXISTING TOILET PARTITION TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR EXISTING CERAMIC WALL AND FLOOR TILE AT MOUNTING LOCATIONS.
65. EXISTING RECESSED FIRE EXTINGUISHER CABINET TO BE REMOVED AND TURNED OVER TO DISTRICT.
66. EXISTING HVAC CONTROLS AND ASSOCIATED CONDUITS TO BE DISCONNECTED, REMOVED AND DISPOSED OF BY M.C.
67. PORTION OF EXISTING WINDOW SYSTEM TO BE REMOVED AND DISPOSED OF FOR INSTALLATION OF NEW DOOR. PREP OPENING FOR INSTALLATION OF NEW STOREFRONT SYSTEM.
68. EXISTING ALUMINUM COLUMN ENCLOSURES TO REMAIN.

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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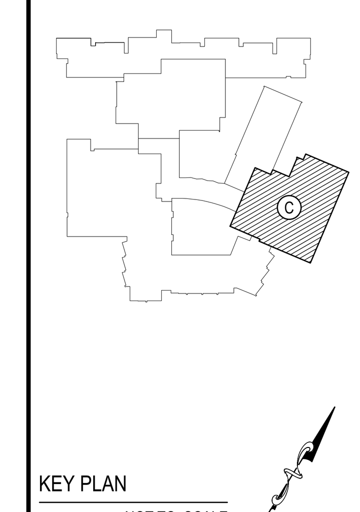

KEY PLAN
NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: DEMOLITION PLAN - AREA 'C'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DEMOLITION PLAN - AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

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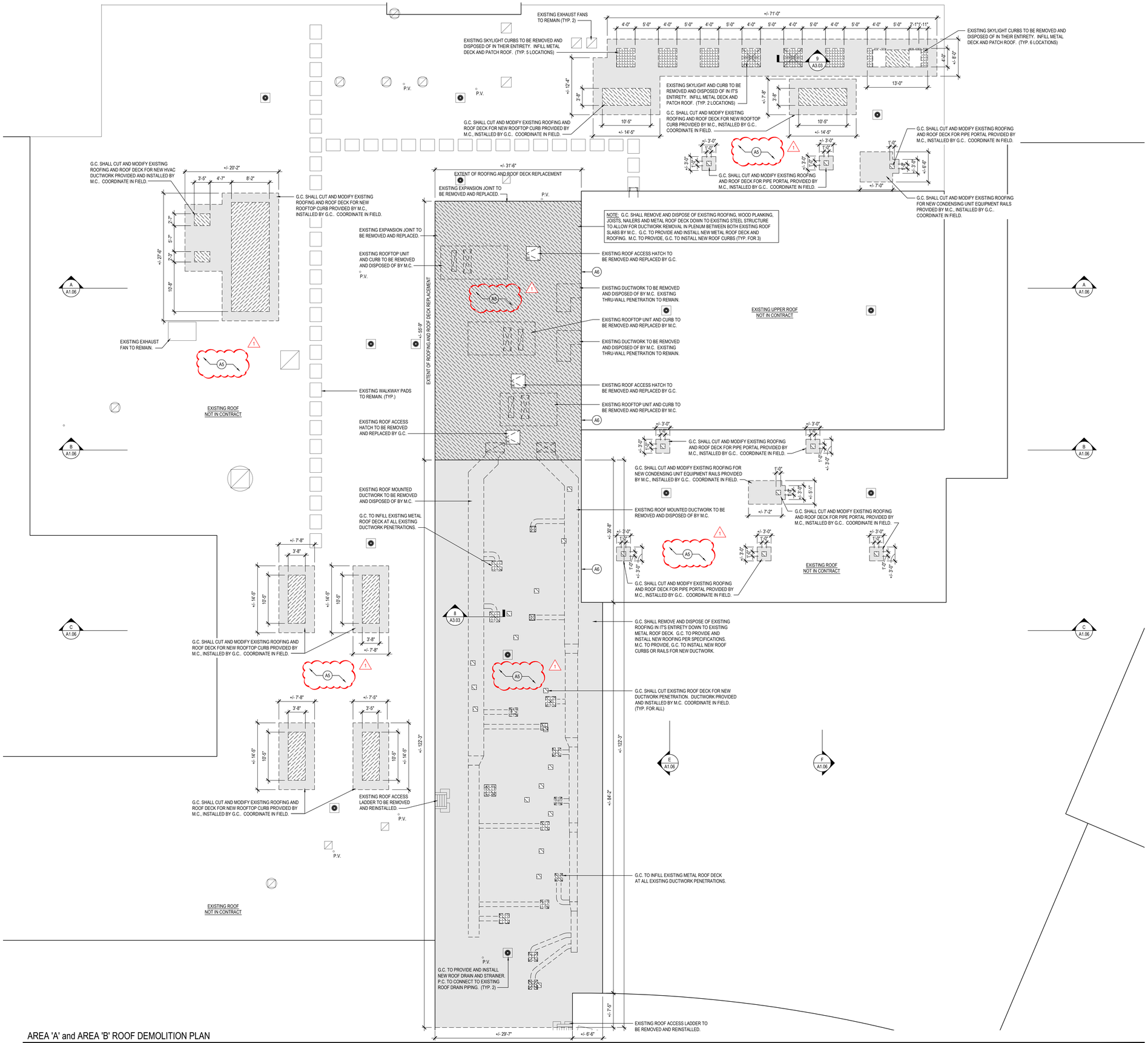

AREA 'A' and AREA 'B' ROOF DEMOLITION PLAN

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

DEMOLITION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL REMAINING SURFACES)
X	KEYED NOTE
# / AX.XX	DETAIL TAG DETAIL NUMBER DRAWING NUMBER
XX / XX.XX	SECTION / ELEVATION TAG DETAIL NUMBER DRAWING NUMBER
	PATCH AND REPAIR EXISTING ROOFING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL ROOF CURB.
	REMOVE AND DISPOSE OF ROOF AND DECK WITHIN NEW MECHANICAL CURB FOR ROOF PENETRATIONS.
	INFILL EXISTING ROOF PENETRATION.
	NEW ROOFTOP UNIT
P.V.	NEW OR EXISTING PIPE VENT
SLOPE	INDICATES ROOF SLOPE
H.P.	HIGH POINT
L.P.	LOW POINT
P.P.	PITCH POCKET PENETRATION
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

ROOF DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING ROOF HATCHES WITH NEW AS SPECIFIED, SIZE TO MATCH EXISTING ONE REMOVED.
2. CONTRACTOR SHALL REMOVE EXISTING ROOFING SYSTEMS AS INDICATED FULL DEPTH AND PREPARE DECK TO RECEIVE NEW ROOFING SYSTEM.
3. CONTRACTOR SHALL REMOVE EXISTING ROOF DRAIN DOME STRAINERS, FLASHING CLAMP RINGS AND INSTALL NEW C.I. OF THE SAME. CONTRACTOR TO FURNISH & INSTALL NEW 2" CAST IRON STATIC EXTENSION RINGS. THE CONTRACTOR SHALL SNAKE OUT EXISTING DRAIN LINES TO ENSURE PROPER FUNCTION OF DRAINAGE. TYPICAL AT ALL ROOF DRAIN LOCATIONS.
4. ALL ROOF AREAS MARKED N.I.C. (NOT IN CONTRACT) SHALL BE PROTECTED DURING ROOF REPLACEMENT SCOPE OF WORK. THE CONTRACTOR. SHALL BE HELD RESPONSIBLE TO REPAIR AND RESTORE THESE AREAS IF ANY DAMAGE HAS BEEN CAUSED AT NO ADDITIONAL COST TO THE OWNER.

HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREEDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NYS INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS AND THE EPA'S RRP RULE. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES CORRESPOND TO THE CONSTRUCTION DRAWINGS:
    - A1 ASBESTOS CONTAINING CERAMIC FLOOR TILE MORTAR.
    - A2 ASBESTOS CONTAINING CEILING PLASTER.
    - A3 ASBESTOS CONTAINING RESIDUAL WINDOW CAULKING
    - A4 ASBESTOS CONTAINING FLOOR TILE AND MASTIC.
    - A5 ASSUMED ASBESTOS CONTAINING ROOFING MATERIALS. (TYPICAL THROUGHOUT)
    - A6 ASSUMED ASBESTOS CONTAINING CEMENT ASBESTOS PANELS
    - L1 LEAD CONTAINING PAINT ON GLAZED WALL BLOCK OR MASONRY WALLS.

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION ROOF PLAN - AREA 'A' and AREA 'B'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DEMOLITION ROOF PLAN - AREA 'A' and AREA 'B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

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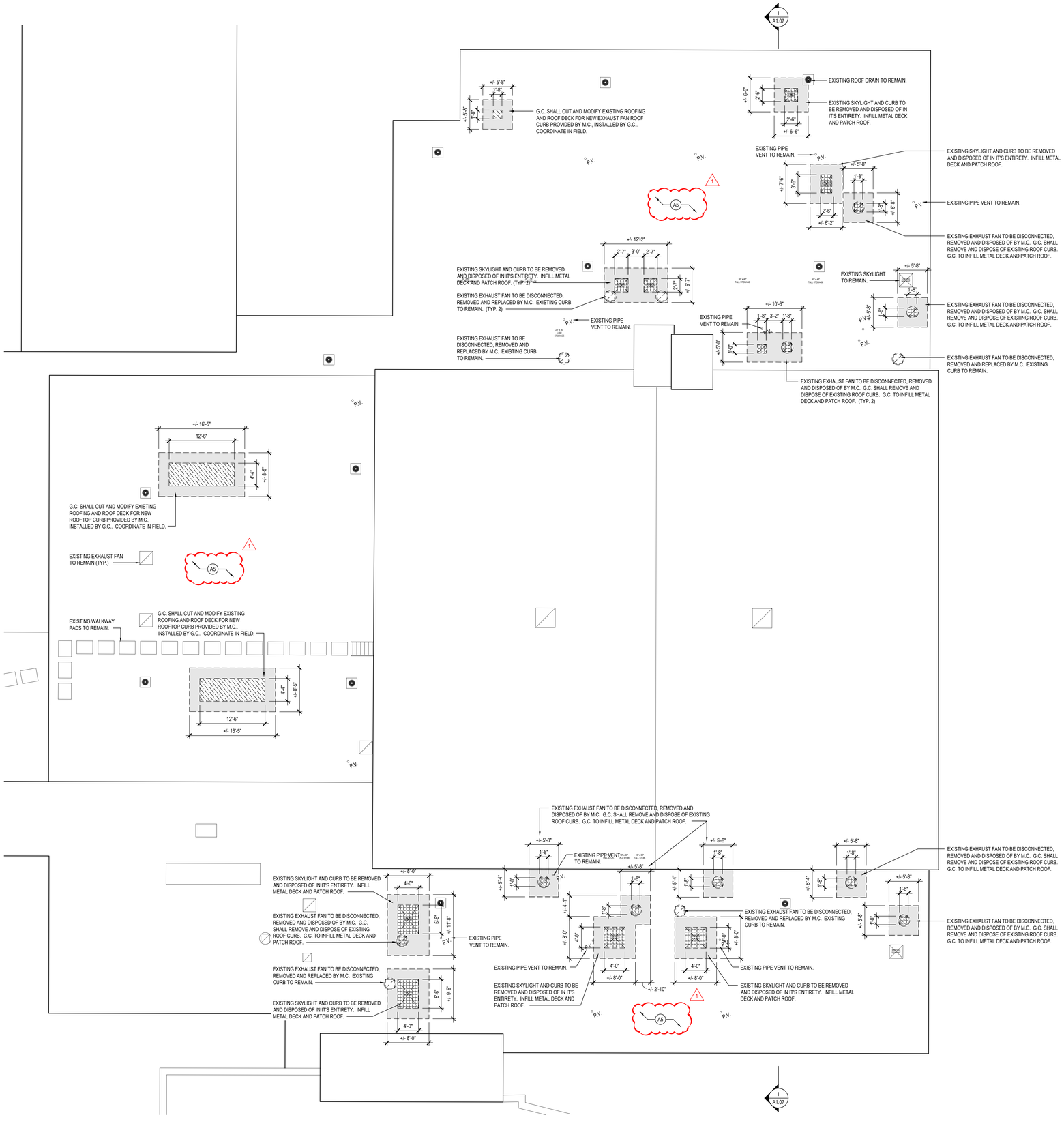

AREA 'C' ROOF DEMOLITION PLAN

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

DEMOLITION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL REMAINING SURFACES)
X	KEYED NOTE
# AX.XX	DETAIL TAG DETAIL NUMBER DRAWING NUMBER
XX XX.XX	SECTION / ELEVATION TAG DETAIL NUMBER DRAWING NUMBER
	PATCH AND REPAIR EXISTING ROOFING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL ROOF CURB.
	REMOVE AND DISPOSE OF ROOF AND DECK WITHIN NEW MECHANICAL CURB FOR ROOF PENETRATIONS.
	INFILL EXISTING ROOF PENETRATION.
	NEW ROOFTOP UNIT
P.V.	NEW OR EXISTING PIPE VENT
SLOPE	INDICATES ROOF SLOPE
H.P.	HIGH POINT
L.P.	LOW POINT
P.P.	PITCH POCKET PENETRATION
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

ROOF DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING ROOF HATCHES WITH NEW AS SPECIFIED, SIZE TO MATCH EXISTING ONE REMOVED.
2. CONTRACTOR SHALL REMOVE EXISTING ROOFING SYSTEMS AS INDICATED FULL DEPTH AND PREPARE DECK TO RECEIVE NEW ROOFING SYSTEM.
3. CONTRACTOR SHALL REMOVE EXISTING ROOF DRAIN DOME STRAINERS, FLASHING CLAMP RINGS AND INSTALL NEW C.I. OF THE SAME. CONTRACTOR TO FURNISH & INSTALL NEW 2" CAST IRON STATIC EXTENSION RINGS. THE CONTRACTOR SHALL SNAKE OUT EXISTING DRAIN LINES TO ENSURE PROPER FUNCTION OF DRAINAGE. TYPICAL AT ALL ROOF DRAIN LOCATIONS.
4. ALL ROOF AREAS MARKED N.I.C. (NOT IN CONTRACT) SHALL BE PROTECTED DURING ROOF REPLACEMENT SCOPE OF WORK. THE CONTRACTOR. SHALL BE HELD RESPONSIBLE TO REPAIR AND RESTORE THESE AREAS IF ANY DAMAGE HAS BEEN CAUSED AT NO ADDITIONAL COST TO THE OWNER.

HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREEDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NYS INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS AND THE EPA'S RRP RULE. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES CORRESPOND TO THE CONSTRUCTION DRAWINGS:
    - A1 ASBESTOS CONTAINING CERAMIC FLOOR TILE MORTAR.
    - A2 ASBESTOS CONTAINING CEILING PLASTER.
    - A3 ASBESTOS CONTAINING RESIDUAL WINDOW CAULKING
    - A4 ASBESTOS CONTAINING FLOOR TILE AND MASTIC.
    - A5 ASSUMED ASBESTOS CONTAINING ROOFING MATERIALS. (TYPICAL THROUGHOUT)
    - A6 ASSUMED ASBESTOS CONTAINING CEMENT ASBESTOS PANELS
    - L1 LEAD CONTAINING PAINT ON GLAZED WALL BLOCK OR MASONRY WALLS.

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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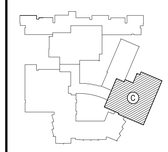

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION ROOF PLAN - AREA 'C'

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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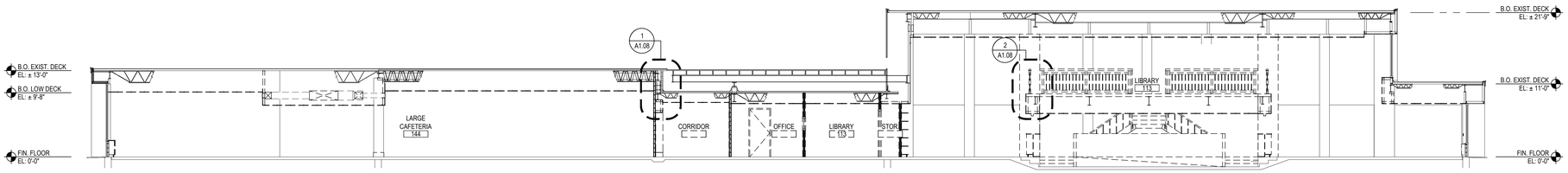
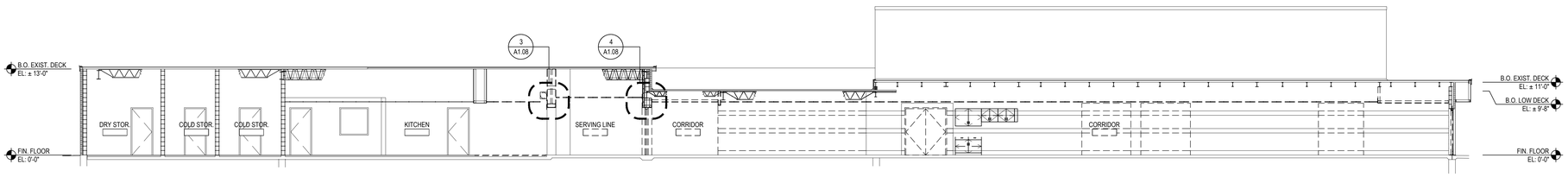
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A1.05



A DEMOLITION SECTION

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



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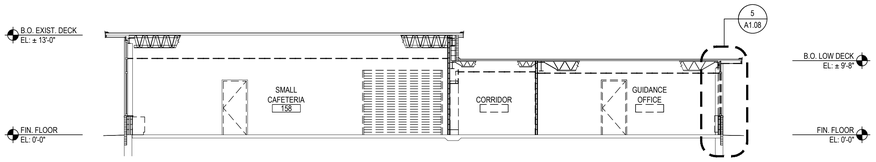

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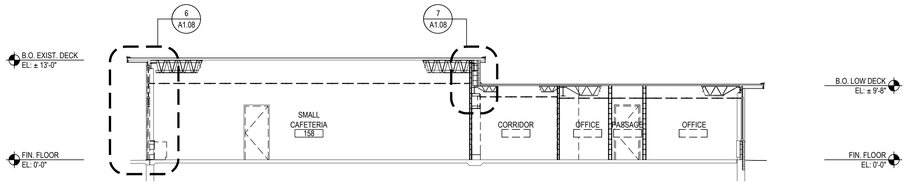

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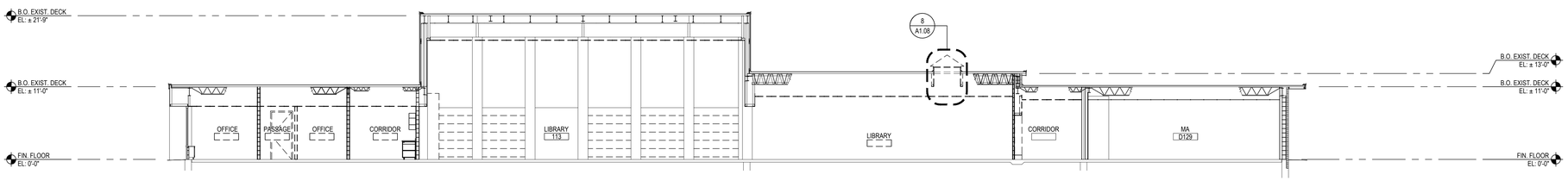
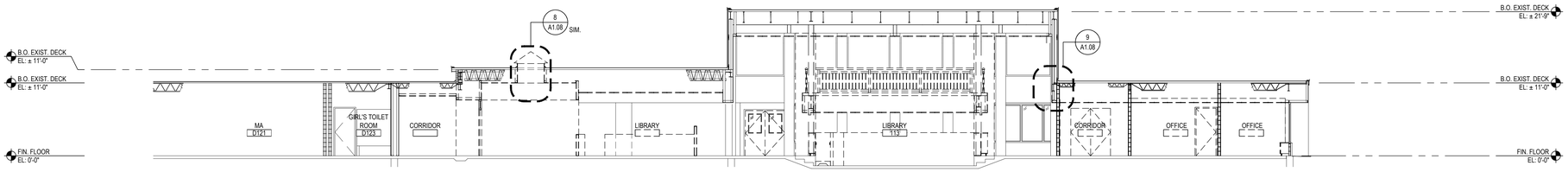
SCALE: 1/8" = 1'-0"



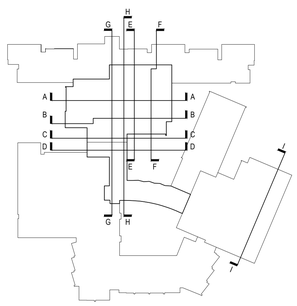
E DEMOLITION SECTION

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



F DEMOLITION SECTION

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



KEY PLAN

SCALE: N.T.S.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION SECTIONS

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE DEMOLITION SECTIONS

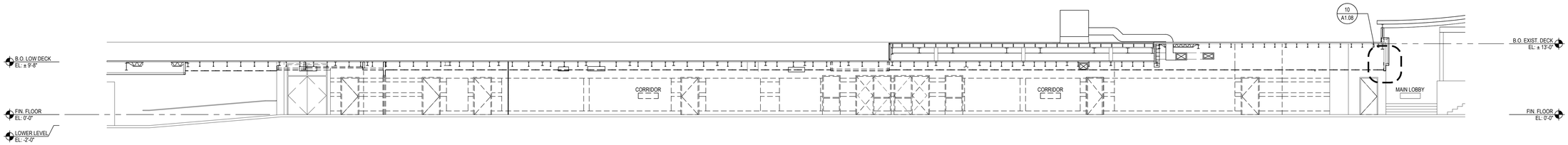
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

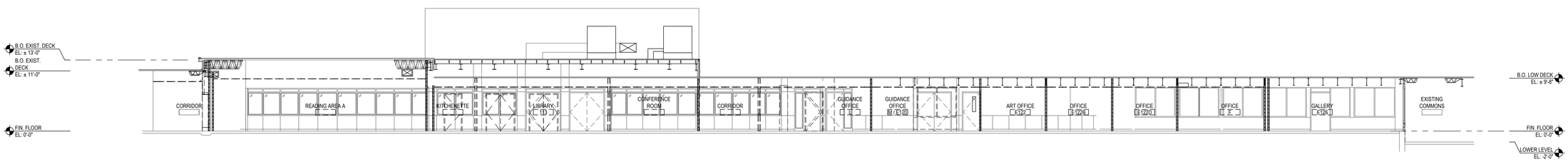
FILE No: 23-131a FLHS

A1.06



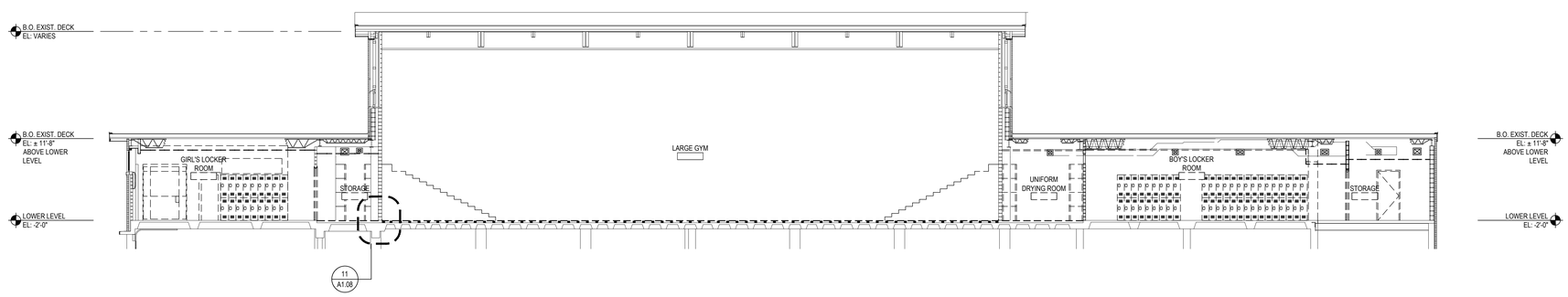
G DEMOLITION SECTION

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



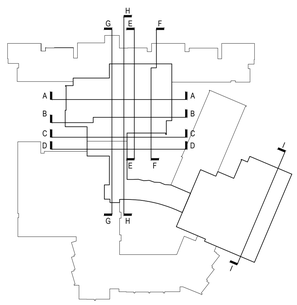
H DEMOLITION SECTION

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



I DEMOLITION SECTION

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



KEY PLAN

SCALE: N.T.S.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION SECTIONS

DRAWING BY:	P.J.H.
CHECK BY:	P.J.H.

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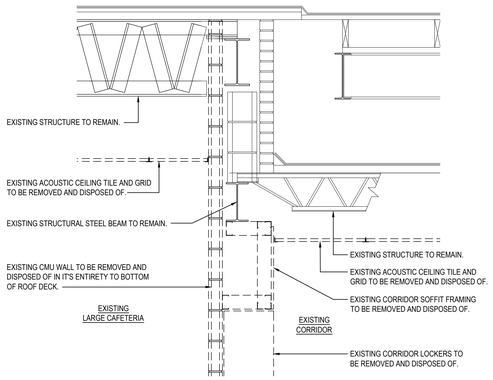
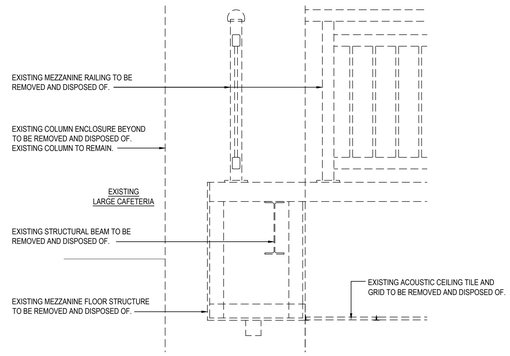
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DEMOLITION SECTIONS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

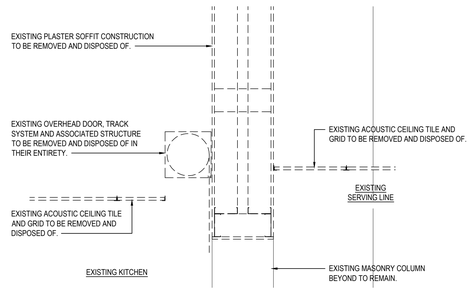
A1.07



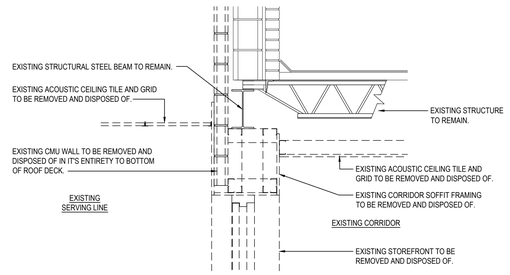
1 DEMOLITION SECTION DETAIL
at LARGE CAFETERIA CORRIDOR WALL — SCALE: 3/4" = 1'-0"



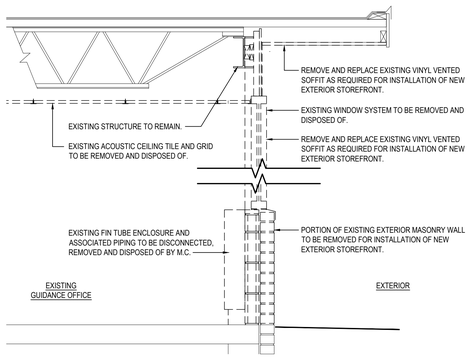
2 DEMOLITION SECTION DETAIL
at LIBRARY MEZZANINE — SCALE: 3/4" = 1'-0"



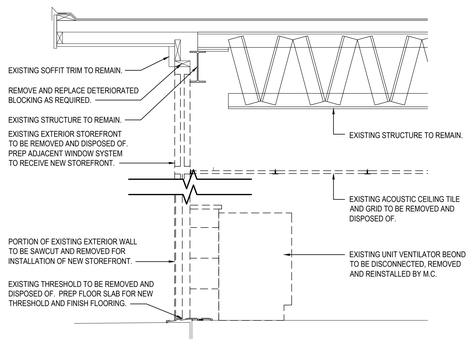
3 DEMOLITION SECTION DETAIL
at KITCHEN SERVING LINE — SCALE: 3/4" = 1'-0"



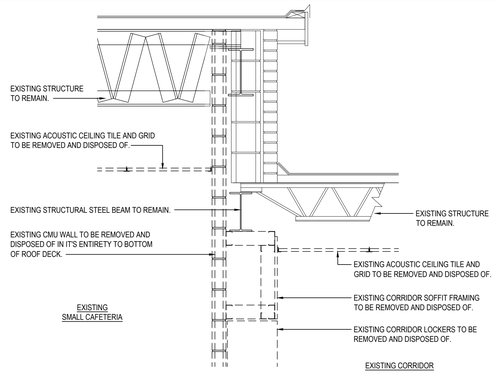
4 DEMOLITION SECTION DETAIL
at SERVING LINE CORRIDOR WALL — SCALE: 3/4" = 1'-0"



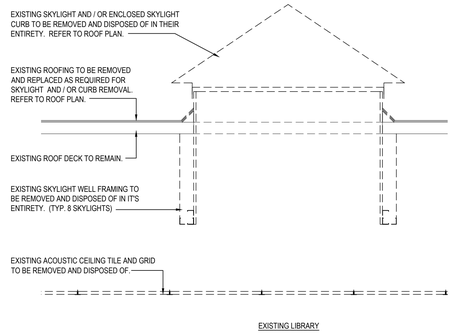
5 DEMOLITION SECTION DETAIL
at EXISTING GUIDANCE OFFICE EXTERIOR WALL — SCALE: 3/4" = 1'-0"



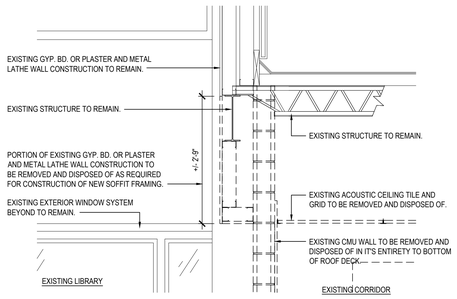
6 DEMOLITION SECTION DETAIL
at SMALL CAFETERIA — SCALE: 3/4" = 1'-0"



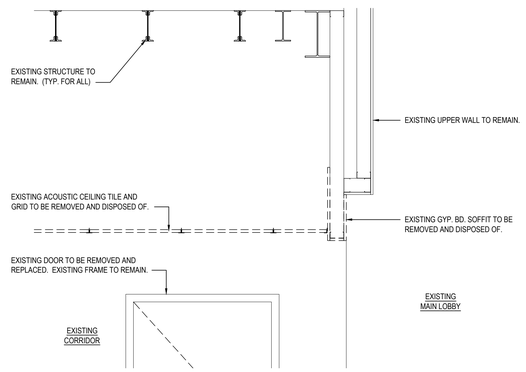
7 DEMOLITION SECTION DETAIL
at SMALL CAFETERIA CORRIDOR WALL — SCALE: 3/4" = 1'-0"



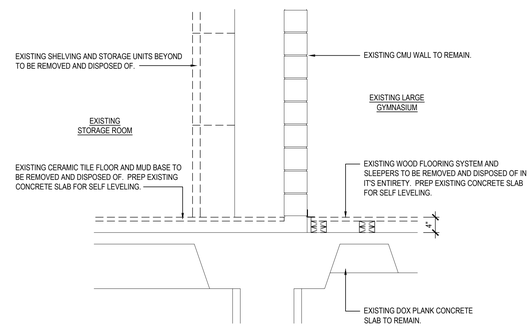
8 DEMOLITION SECTION DETAIL
at EXISTING LIBRARY — SCALE: 3/4" = 1'-0"



9 DEMOLITION SECTION DETAIL
at EXISTING LIBRARY — SCALE: 3/4" = 1'-0"



10 DEMOLITION SECTION DETAIL
at MAIN LOBBY — SCALE: 3/4" = 1'-0"



11 DEMOLITION SECTION DETAIL
at GIRL'S LOCKER ROOM STORAGE ROOMS — SCALE: 3/4" = 1'-0"

REV.	DATE	ITEM

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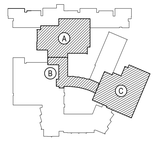

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
DEMOLITION DETAILS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DEMOLITION DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A1.08

REV.	DATE	ITEM

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A4 / A6 / A8 / A10 / A12

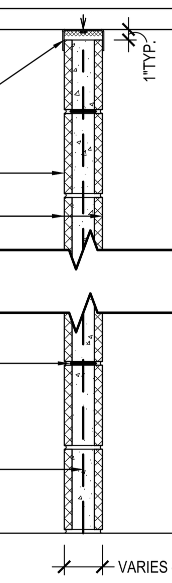
TOP OF PARTITION (VARIES) - HOLD MASONRY 1" BELOW BOTTOM OF DECK/SLAB. PROVIDE PARTITION TOP ANCHOR AT 48" O.C. MAX. SECURED TO DECK/SLAB. PROVIDE COMPRESSIBLE FILLER IN VOID BETWEEN PTA AND CMU

NEW CMU PARTITION - REFER TO TYPES FOR NOMINAL CONCRETE MASONRY UNIT SIZE

FINISH PARTITION AS SCHEDULED

HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAX. VERTICALLY (EVERY OTHER COURSE)

VERTICAL PARTITION REINFORCEMENT (WHERE SCHEDULED). ALL CELLS TO RECEIVE REINFORCEMENT SHALL BE GROUTED SOLID



TYPE A4 (3⅝" TOTAL THICKNESS):
4" NOM. CONCRETE MASONRY UNITS
TYPE A6 (5⅝" TOTAL THICKNESS):
6" NOM. CONCRETE MASONRY UNITS
TYPE A8 (7⅝" TOTAL THICKNESS):
8" NOM. CONCRETE MASONRY UNITS
TYPE A10 (9⅝" TOTAL THICKNESS):
10" NOM. CONCRETE MASONRY UNITS
TYPE A12 (11⅝" TOTAL THICKNESS):
12" NOM. CONCRETE MASONRY UNITS

A4 — 4" NOM. CMU PARTITION

A10 — 10" NOM. CMU PARTITION
GRAPHIC SIMILAR AS SHOWN

A6 — 6" NOM. CMU PARTITION
GRAPHIC SIMILAR AS SHOWN

A12 — 12" NOM. CMU PARTITION
GRAPHIC SIMILAR AS SHOWN

A8 — 8" NOM. CMU PARTITION
GRAPHIC SIMILAR AS SHOWN

REV. 1-2020

B4 / B6 / B8 / B10 / B12

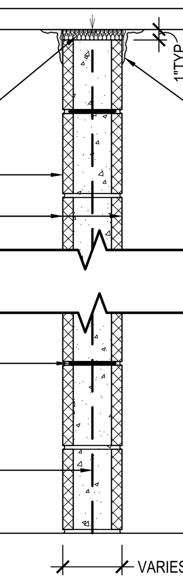
TOP OF PARTITION (VARIES) - HOLD MASONRY 1" BELOW BOTTOM OF DECK/SLAB. PROVIDE PARTITION TOP ANCHOR AT 48" O.C. MAX. SECURED TO DECK/SLAB. PACK ALL VOIDS WITH CONTINUOUS SOUND ATTENUATION FIRE BLANKET.

NEW CMU PARTITION - REFER TO TYPES FOR NOMINAL CONCRETE MASONRY UNIT SIZE

FINISH PARTITION AS SCHEDULED

HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAX. VERTICALLY (EVERY OTHER COURSE)

VERTICAL PARTITION REINFORCEMENT (WHERE SCHEDULED). ALL CELLS TO RECEIVE REINFORCEMENT SHALL BE GROUTED SOLID



NOTE:
EACH TRADE SHALL FIRE STOP AND SMOKE SEAL ALL PENETRATIONS THROUGH RATED PARTITIONS.

PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT, FULL PERIMETER, (EACH SIDE) AND AT ALL PENETRATIONS THROUGH PARTITION

TYPE B4 (3⅝" TOTAL THICKNESS):
4" NOM. CONCRETE MASONRY UNITS
TYPE B6 (5⅝" TOTAL THICKNESS):
6" NOM. CONCRETE MASONRY UNITS
TYPE B8 (7⅝" TOTAL THICKNESS):
8" NOM. CONCRETE MASONRY UNITS
TYPE B10 (9⅝" TOTAL THICKNESS):
10" NOM. CONCRETE MASONRY UNITS
TYPE B12 (11⅝" TOTAL THICKNESS):
12" NOM. CONCRETE MASONRY UNITS

B4 — 4" NOM. CMU PARTITION
1-HR RATING: UL U906 / STC 48, GRAPHIC SIM.

B10 — 10" NOM. CMU PARTITION
1-HR RATING: UL U906 / STC 48, GRAPHIC SIM.

B6 — 6" NOM. CMU PARTITION
1-HR RATING: UL U906 / STC 48

B12 — 12" NOM. CMU PARTITION
1-HR RATING: UL U906 / STC 48

B8 — 8" NOM. CMU PARTITION
1-HR RATING: UL U906 / STC 48, GRAPHIC SIM.

REV. 2-2021

C6 / C8 / C10 / C12 (NOT USED)

NOT USED

TOP OF PARTITION (VARIES) - HOLD MASONRY 1" BELOW BOTTOM OF DECK/SLAB. PROVIDE PARTITION TOP ANCHOR AT 48" O.C. MAX. SECURED TO DECK/SLAB. PACK ALL VOIDS WITH CONTINUOUS SOUND ATTENUATION FIRE BLANKET.

NEW CMU PARTITION - REFER TO TYPES FOR NOMINAL CONCRETE MASONRY UNIT SIZE

FINISH PARTITION AS SCHEDULED

HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAX. VERTICALLY (EVERY OTHER COURSE)

VERTICAL PARTITION REINFORCEMENT (WHERE SCHEDULED). ALL CELLS TO RECEIVE REINFORCEMENT SHALL BE GROUTED SOLID

1"TYP.
VARIES - SEE TYPES

NOTE:
EACH TRADE SHALL FIRE STOP AND SMOKE SEAL ALL PENETRATIONS THROUGH RATED PARTITIONS.

PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT, FULL PERIMETER, (EACH SIDE) AND AT ALL PENETRATIONS THROUGH PARTITION

NOTE:
AT FIRE WALLS, OMIT PARTITION TOP ANCHORS (ONLY). FIRE WALLS SHALL BE CONSTRUCTED TO BE INDEPENDENT FROM DECK/ SLAB ASSEMBLY(IES) - REFER TO CODE COMPLIANCE DRAWINGS AND SECTION DETAILS FOR ADD'L INFO.

TYPE C6 (5⅝" TOTAL THICKNESS):
6" NOM. CONCRETE MASONRY UNITS
TYPE C8 (7⅝" TOTAL THICKNESS):
8" NOM. CONCRETE MASONRY UNITS
TYPE C10 (9⅝" TOTAL THICKNESS):
10" NOM. CONCRETE MASONRY UNITS
TYPE C12 (11⅝" TOTAL THICKNESS):
12" NOM. CONCRETE MASONRY UNITS

C6 — 6" NOM. CMU PARTITION
2-HR RATING: UL U906 / STC 48, GRAPHIC SIM.

C10 — 10" NOM. CMU PARTITION
2-HR RATING: UL U906 / STC 48, GRAPHIC SIM.

C8 — 8" NOM. CMU PARTITION
2-HR RATING: UL U906 / STC 48

C12 — 12" NOM. CMU PARTITION
2-HR RATING: UL U906 / STC 48

REV. 2-2021

D

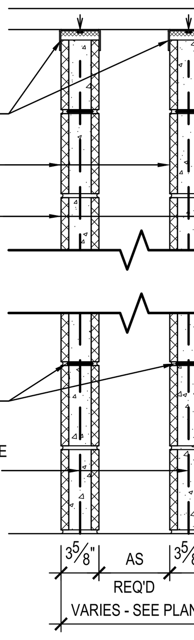
TOP OF PARTITION (VARIES) - HOLD MASONRY 1" BELOW BOTTOM OF DECK/SLAB. PROVIDE PARTITION TOP ANCHOR AT 48" O.C. MAX. SECURED TO DECK/SLAB. PROVIDE COMPRESSIBLE FILLER IN VOID BETWEEN PTA AND CMU, TYP.

4" NOMINAL CONCRETE MASONRY UNITS (UNLESS NOTED OTHERWISE)

FINISH EACH SIDE OF PARTITION AS SCHEDULED

HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAX. VERTICALLY (EVERY OTHER COURSE), TYP.

VERTICAL PARTITION REINFORCEMENT (WHERE SCHEDULED). ALL CELLS TO RECEIVE REINFORCEMENT SHALL BE GROUTED SOLID



NOTE:
COORDINATE PLUMBING PARTITION CONSTRUCTION WITH ALL TRADES. REFER TO MEP-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE:
REFER TO A-9 SERIES DRAWINGS FOR WALL TILE (WHERE APPLICABLE) AND FINISH ADDITIONAL INFORMATION.

D — CMU PLUMBING PARTITION
REFER TO ENLARGED TOILET ROOM PLANS FOR ADDITIONAL INFORMATION

REV. 1-2020

E

EXISTING PARTITION TO REMAIN - VERIFY CONSTRUCTION TYPE AND SIZE IN FIELD

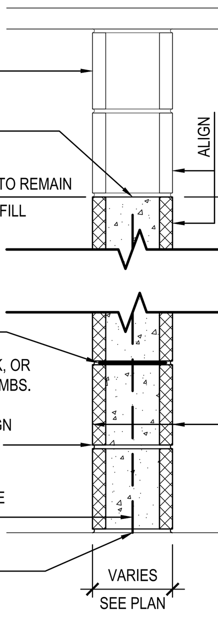
SECURE TOP OF NEW PARTITION TO EXISTING PARTITION CONSTRUCTION

HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAX. VERTICALLY (EVERY OTHER COURSE), TYP.

NEW MASONRY INFILL PARTITION (CMU, BRICK, OR BOTH) - V.I.F. TOOTH IN ALL NEW BRICK AT JAMBS. PATCH AND MATCH ALL EXISTING ADJACENT SURFACES FOR NEW CONSTRUCTION TO ALIGN WITH EXISTING FOR A SEAMLESS TRANSITION

VERTICAL PARTITION REINFORCEMENT (WHERE SCHEDULED). ALL CELLS TO RECEIVE REINFORCEMENT SHALL BE GROUTED SOLID

SECURE BASE OF NEW PARTITION TO EXISTING FLOOR CONSTRUCTION



REFER TO GENERAL PARTITION TYPE NOTE 10 THIS SHEET FOR ADDITIONAL INFILL PARTITION REQUIREMENTS.

UNLESS NOTED OR SCHEDULED OTHERWISE, NEW INFILL PARTITION FINISHES (EACH SIDE) SHALL MATCH THE EXISTING PARTITION FINISHES IN KIND, INCLUDING BUT NOT LIMITED TO: WALL BASE, WALL COVERING, WALL TILE, CEILING TRIM, MOLDINGS, ETC. - VERIFY IN FIELD

E — MASONRY INFILL PARTITION
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN FIELD

REV. 1-2020

F5 / F7 / F9

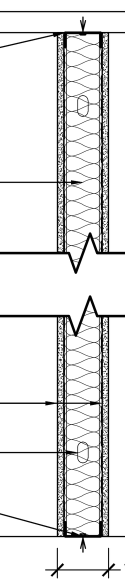
TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE

ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION - REFER TO TYPES FOR ADDITIONAL INFORMATION

ONE (1) LAYER OF TYPE I GYP. BD. (EACH SIDE), FINISH AS SCHEDULED

COLD FORMED METAL FRAMING - REFER TO TYPES FOR ADDITIONAL INFORMATION

SECURE PARTITION TO FLOOR CONSTRUCTION



WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

TYPE F5 (4⅞" TOTAL THICKNESS):
3⅝" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 3½" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION
TYPE F7 (7¼" TOTAL THICKNESS):
6" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 5½" R-21 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION
TYPE F9 (9¼" TOTAL THICKNESS):
8" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 8" R-25 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

NOTE:
ALL BASE AND TOP TRACK RUNNERS SHALL BE COLD FORMED METAL 20GA MIN. FASTENED AT 24" O.C. MAX.

F5 — 5" NOM. GYP. BD. METAL STUD PARTITION
NON-RATED / NON-BEARING INTERIOR PARTITION

F7 — 7" NOM. GYP. BD. METAL STUD PARTITION
NON-RATED / NON-BEARING INTERIOR PARTITION, GRAPHIC SIMILAR AS SHOWN

F9 — 9" NOM. GYP. BD. METAL STUD PARTITION
NON-RATED / NON-BEARING INTERIOR PARTITION, GRAPHIC SIMILAR AS SHOWN

REV. 1-2020

G5 / G7 / G9

TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE. PACK ALL VOIDS WITH CONTINUOUS SOUND ATTENUATION FIRE BLANKET.

PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT, FULL PERIMETER, (EACH SIDE) AND AT ALL PENETRATIONS THROUGH PARTITION

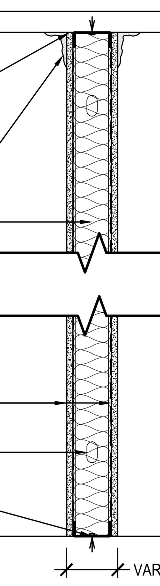
ACOUSTICAL FIBERGLASS UNFACED SOUND ATTENUATION FIRE BLANKET. - REFER TO TYPES FOR ADDITIONAL INFORMATION

NOTE:
EACH TRADE SHALL FIRE STOP AND SMOKE SEAL ALL PENETRATIONS THROUGH RATED PARTITIONS.

ONE (1) LAYER OF TYPE I GYP. BD. (EACH SIDE), FINISH AS SCHEDULED

COLD FORMED METAL FRAMING - REFER TO TYPES FOR ADDITIONAL INFORMATION

SECURE PARTITION TO FLOOR CONSTRUCTION



WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

TYPE G5 (4⅞" TOTAL THICKNESS):
3⅝" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 3½" R-11 SOUND ATTENUATION FIRE BLANKETS.
TYPE G7 (7¼" TOTAL THICKNESS):
6" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 5½" R-21 SOUND ATTENUATION FIRE BLANKETS.
TYPE G9 (9¼" TOTAL THICKNESS):
8" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 8" R-25 SOUND ATTENUATION FIRE BLANKETS.

NOTE:
ALL BASE AND TOP TRACK RUNNERS SHALL BE COLD FORMED METAL 20GA MIN. FASTENED AT 24" O.C. MAX.

G5 — 5" NOM. GYP. BD. METAL STUD PARTITION (1-HR RATING)
UL U419 / STC 49, NON-BEARING INTERIOR PARTITION

G7 — 7" NOM. GYP. BD. METAL STUD PARTITION (1-HR RATING)
UL U419 / STC 49, NON-BEARING INTERIOR PARTITION, GRAPHIC SIMILAR AS SHOWN

G9 — 9" NOM. GYP. BD. METAL STUD PARTITION (1-HR RATING)
UL U419 / STC 49, NON-BEARING INTERIOR PARTITION, GRAPHIC SIMILAR AS SHOWN

REV. 2-2021

H6 / H9 / H11 (NOT USED)

NOT USED

TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE. PACK ALL VOIDS WITH CONTINUOUS SOUND ATTENUATION FIRE BLANKET.

PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT, FULL PERIMETER, (EACH SIDE) AND AT ALL PENETRATIONS THROUGH PARTITION

ACOUSTICAL FIBERGLASS UNFACED SOUND ATTENUATION FIRE BLANKET - REFER TO TYPES FOR ADDITIONAL INFORMATION

NOTE:
EACH TRADE SHALL FIRE STOP AND SMOKE SEAL ALL PENETRATIONS THROUGH RATED PARTITIONS.

TWO (2) LAYERS OF TYPE I GYP. BD. (EACH SIDE), FINISH AS SCHEDULED

COLD FORMED METAL FRAMING - REFER TO TYPES FOR ADDITIONAL INFORMATION

SECURE PARTITION TO FLOOR CONSTRUCTION

VARIES - SEE TYPES

WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

TYPE H6 (6⅛" TOTAL THICKNESS):
3⅝" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 3½" R-11 SOUND ATTENUATION FIRE BLANKETS.
TYPE H9 (8½" TOTAL THICKNESS):
6" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 5½" R-21 SOUND ATTENUATION FIRE BLANKETS.
TYPE H11 (10½" TOTAL THICKNESS):
8" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 8" R-25 SOUND ATTENUATION FIRE BLANKETS.

NOTE:
ALL BASE AND TOP TRACK RUNNERS SHALL BE COLD FORMED METAL 20GA MIN. FASTENED AT 24" O.C. MAX.

H6 — 6" NOM. GYP. BD. METAL STUD PARTITION (2-HR RATING)
UL U419 / STC 54, NON-BEARING INTERIOR PARTITION

H9 — 9" NOM. GYP. BD. METAL STUD PARTITION (2-HR RATING)
UL U419 / STC 54, NON-BEARING INTERIOR PARTITION, GRAPHIC SIMILAR AS SHOWN

H11 — 11" NOM. GYP. BD. METAL STUD PARTITION (2-HR RATING)
UL U419 / STC 54, NON-BEARING INTERIOR PARTITION, GRAPHIC SIMILAR AS SHOWN

REV. 2-2021

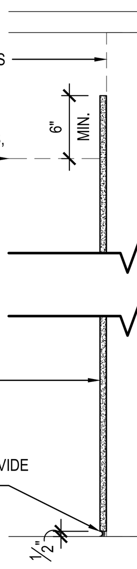
I

NEW OR EXIST. WALL CONSTRUCTION, VARIES

DENOTES LINE OF FINISHED CEILING - VARIES, REFER TO REFLECTED CEILING PLAN

ONE (1) LAYER TYPE I GYP. BD. ADHERED AND MECHANICALLY FASTENED TO NEW OR EXIST. WALL CONSTRUCTION. EXTEND GYP. BD. 6" ABOVE FINISHED CEILING U.N.O.

HOLD GYP. BD. ½" ABOVE FINISH FLOOR ELEVATION TO ALLOW FOR MOVEMENT. PROVIDE CONTINUOUS SEALANT (FULL PERIMETER)



WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

I — GYP. BD. LAMINATION OVER SUBSTRATE

REV. 1-2020

J1 / J2 / J3

NEW OR EXIST. WALL CONSTRUCTION, VARIES

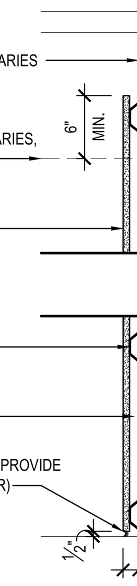
DENOTES LINE OF FINISHED CEILING - VARIES, REFER TO REFLECTED CEILING PLAN

ONE (1) LAYER TYPE I GYP. BD. - FINISH AS SCHEDULED. EXTEND GYP. BD. 6" ABOVE FINISHED CEILING U.N.O.

COLD FORMED METAL FRAMING OR FURRING - REFER TO TYPES FOR ADDITIONAL INFORMATION

INSULATION (WHERE SCHEDULED) - REFER TO SPECIFIC PARTITION COMPOSITIONS FOR DETAILS.

HOLD GYP. BD. ½" ABOVE FINISH FLOOR ELEVATION TO ALLOW FOR MOVEMENT. PROVIDE CONTINUOUS SEALANT (FULL PERIMETER)



WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

TYPE J1 (1½" TOTAL THICKNESS):
⅞" 22 GA. MIN. COLD FORMED METAL FRAMING HAT CHANNEL FURRING AT 16" O.C. MAX. VERTICALLY
TYPE J2 (2¼" TOTAL THICKNESS):
1⅝" 20GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. HORIZ. PROVIDE 1-1/2" RIGID INSULATION BETWEEN ALL STUDS.
TYPE J3 (3⅛" TOTAL THICKNESS):
2½" 20GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. HORIZ. PROVIDE 2-1/2" RIGID INSULATION BETWEEN ALL STUDS.

NOTE:
ALL BASE AND TOP TRACK RUNNERS (WHERE APPLICABLE) SHALL BE COLD FORMED METAL 20GA MIN. FASTENED AT 24" O.C. MAX.

J1 — GYP. BD. OVER 7/8" METAL FURRING

J2 — GYP. BD. OVER 1-5/8" METAL FURRING
GRAPHIC SIMILAR AS SHOWN

J3 — GYP. BD. OVER 2-1/2" METAL FURRING
GRAPHIC SIMILAR AS SHOWN

REV. 1-2020

K4 / K7

TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE

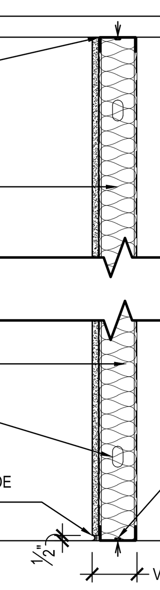
ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION - REFER TO TYPES FOR ADDITIONAL INFORMATION

ONE (1) LAYER OF TYPE I GYP. BD. (FINISHED SIDE OF PARTITION), FINISH AS SCHEDULED

COLD FORMED METAL FRAMING - REFER TO TYPES FOR ADDITIONAL INFORMATION

HOLD GYP. BD. ½" ABOVE FINISH FLOOR ELEVATION TO ALLOW FOR MOVEMENT. PROVIDE CONTINUOUS SEALANT (FULL PERIMETER)

SECURE PARTITION TO FLOOR CONSTRUCTION



WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

TYPE K4 (4¼" TOTAL THICKNESS):
3⅝" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 3½" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION
TYPE K7 (6⅝" TOTAL THICKNESS):
6" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. WITH 5½" R-21 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

NOTE:
ALL BASE AND TOP TRACK RUNNERS SHALL BE COLD FORMED METAL 20GA MIN. FASTENED AT 24" O.C. MAX.

K4 — 4" NOM. GYP. BD. METAL STUD PARTITION - SINGLE SIDED

K7 — 7" NOM. GYP. BD. METAL STUD PARTITION - SINGLE SIDED

REV. 1-2020

L

TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE

AT ALL PARTITION AREAS SCHEDULED TO BE PAINTED, PROVIDE ONE (1) LAYER OF TYPE I GYP. BD. (EACH SIDE OF PARTITION) - FINISH AS SCHEDULED

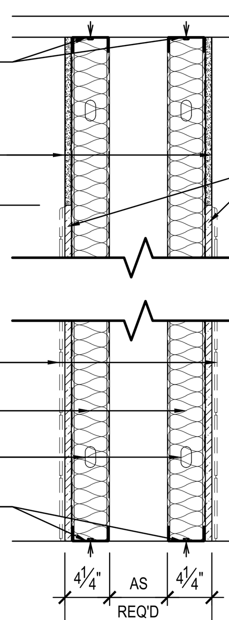
T.O. WALL TILE (WHERE SCHEDULED)
EL: VARIES - COORDINATE WITH INTERIOR ELEVATIONS/TYPICAL WALL TILE ELEVATIONS

WALL TILE (WHERE SCHEDULED)

3½" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

3⅝" 20 GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX.

SECURE PARTITION TO FLOOR CONSTRUCTION



NOTE:
COORDINATE PLUMBING PARTITION CONSTRUCTION WITH ALL TRADES. REFER TO MEP-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

AT ALL PARTITION AREAS SCHEDULED TO RECEIVE TILE, PROVIDE ONE (1) LAYER TYPE II GYP. BD. (EACH SIDE OF PARTITION) AS SUBSTRATE - FINISH AS SCHEDULED. COORDINATE HEIGHT OF GYP. BD. WITH WALL TILE LAYOUTS, (HEIGHT VARIES)

NOTE:
REFER TO A-9 SERIES DRAWINGS FOR ADDITIONAL WALL TILE AND FINISH INFORMATION.

NOTE:
ALL BASE AND TOP TRACK RUNNERS SHALL BE COLD FORMED METAL 20GA MIN. FASTENED AT 24" O.C. MAX.

L — GYP. BD. METAL STUD PLUMBING PARTITION
REFER TO ENLARGED TOILET ROOM PLANS FOR ADDITIONAL INFORMATION

REV. 5-2023

M

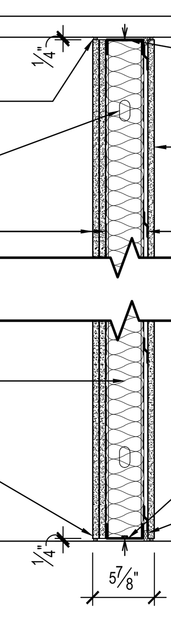
HOLD GYP. BD. ¼" BELOW SLAB/DECK FOR ACOUSTIC ISOLATION. PROVIDE CONTINUOUS ACOUSTICAL SEALANT (FULL PERIMETER, EACH SIDE)

3⅝" 20 GA. MIN. COLD FORMED METAL FRAMING AT 24" O.C. MAX.

TWO (2) LAYERS OF TYPE I GYP. BD., FINISH AS SCHEDULED. STAGGER ALL JOINTS

3½" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

HOLD GYP. BD. ¼" ABOVE FINISH FLOOR ELEVATION FOR ACOUSTIC ISOLATION (TYP.). PROVIDE CONTINUOUS ACOUSTICAL SEALANT (FULL PERIMETER, EACH SIDE)



TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE. SET TRACK IN BED OF CONTINUOUS ACOUSTICAL SEALANT

ONE (1) LAYER OF TYPE I GYP. BD. SECURED TO RESILIENT CHANNELS (ONLY) - DO NOT SECURE THROUGH TO PRIMARY STUDS. FINISH AS SCHEDULED

1" RESILIENT CHANNELS AT 16" O.C. HORIZONTALLY

SECURE PARTITION TO FLOOR CONSTRUCTION. SET TRACK IN BED OF CONTINUOUS ACOUSTICAL SEALANT

GASKET AT BASE AND TOP OF PARTITION FOR UNSUPPORTED GYP. BD.

NOTE:
ALL BASE AND TOP TRACK RUNNERS SHALL BE COLD FORMED METAL 20GA MIN. FASTENED AT 24" O.C. MAX.

THIS ACOUSTIC PARTITION SHALL BE CONSTRUCTED TO MEET OR EXCEED THE SPECIFIED STC RATING.

M — GYP. BD. METAL STUD ACOUSTICAL PARTITION
UL U452 / STC 58

REV. 1-2020

N (NOT USED)

NOT USED

HOLD GYP. BD. ¼" BELOW SLAB/DECK FOR ACOUSTIC ISOLATION. PROVIDE CONTINUOUS ACOUSTICAL SEALANT (FULL PERIMETER, EACH SIDE)

3⅝" 20 GA. MIN. COLD FORMED METAL FRAMING AT 24" O.C. MAX. (STAGGERED STUDS)

TWO (2) LAYERS OF TYPE I GYP. BD. (EACH SIDE), FINISH AS SCHEDULED. STAGGER ALL JOINTS.

3½" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION BETWEEN EACH ROW OF STUDS

HOLD GYP. BD. ¼" ABOVE FINISH FLOOR ELEVATION FOR ACOUSTIC ISOLATION (TYP.). PROVIDE CONTINUOUS ACOUSTICAL SEALANT (FULL PERIMETER, EACH SIDE)

¼"
10¾"

TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE. SET TRACK IN BED OF CONTINUOUS ACOUSTICAL SEALANT

SECURE PARTITION TO FLOOR CONSTRUCTION. SET TRACK IN BED OF CONTINUOUS ACOUSTICAL SEALANT

NOTE:
ALL BASE AND TOP TRACK RUNNERS SHALL BE HOT-DIP GALV. STEEL 20GA MIN. FASTENED AT 24" O.C. MAX.

THIS ACOUSTIC PARTITION SHALL BE CONSTRUCTED TO MEET OR EXCEED THE SPECIFIED STC RATING.

N — GYP. BD. METAL STUD ACOUSTICAL PARTITION
UL U493 / STC 66

REV. 1-2020

O (NOT USED)

NOT USED

EXISTING PARTITION TO REMAIN - VERIFY CONSTRUCTION TYPE AND SIZE IN FIELD

SECURE TOP OF NEW PARTITION TO EXISTING PARTITION CONSTRUCTION

EXIST. TO REMAIN
NEW INFILL
ALIGN

NEW GYP. BD. METAL STUD FRAMED INFILL PARTITION. PATCH AND MATCH ALL EXISTING ADJACENT SURFACES FOR NEW CONSTRUCTION TO ALIGN WITH EXISTING FOR A SEAMLESS TRANSITION

ONE (1) LAYER OF GYP. BD. (EACH SIDE). GYPSUM PANEL CORE COMPOSITION SHALL MAINTAIN THE EXISTING FIRE RATING (WHERE APPLICABLE)

20GA. MIN. COLD FORMED METAL FRAMING AT 16" O.C. MAX. - SIZE AS APPROPRIATE TO MATCH EXIST. PARTITION THICKNESS

SECURE BASE OF NEW PARTITION TO EXISTING FLOOR CONSTRUCTION

VARIES - V.I.F.
VARIES
SEE PLAN

WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

REFER TO GENERAL PARTITION TYPE NOTE 10 THIS SHEET FOR ADDITIONAL INFILL PARTITION REQUIREMENTS.

ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION. THICKNESS TO FILL ENTIRE WIDTH OF STEEL FRAMING - V.I.F.

UNLESS NOTED OR SCHEDULED OTHERWISE, NEW INFILL PARTITION FINISHES (EACH SIDE) SHALL MATCH THE EXISTING PARTITION FINISHES IN KIND, INCLUDING BUT NOT LIMITED TO: WALL BASE, WALL COVERING, WALL TILE, CEILING TRIM, MOLDINGS, ETC. - VERIFY IN FIELD

NOTE:
ALL BASE AND TOP TRACK RUNNERS SHALL BE COLD FORMED METAL 20GA MIN. FASTENED AT 24" O.C. MAX.

O — GYP. BD. METAL STUD INFILL PARTITION
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN FIELD

REV. 1-2020

P (NOT USED)

NOT USED

NEW OR EXIST. WALL CONSTRUCTION, VARIES

DENOTES LINE OF FINISHED CEILING - VARIES, REFER TO REFLECTED CEILING PLAN

6" MIN.

NEW PLASTER (INTERIOR APPLICATION) - REFER TO SPECIFICATION SECTION 09230 FOR ADDITIONAL INFORMATION

HOLD PLASTER APPLICATION ½" ABOVE FINISH FLOOR ELEVATION TO ALLOW FOR MOVEMENT. PROVIDE CONTINUOUS SEALANT (FULL PERIMETER)

½"

P — PLASTER APPLICATION OVER SUBSTRATE

REV. 5-2023

Q (NOT USED)

NOT USED

TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE TO MAINTAIN CONTINUITY OF SHAFT ENCLOSURE WHERE INTERRUPTED BY A HORIZONTAL ASSEMBLY. PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT, FULL PERIMETER, (EACH SIDE) AND AT ALL PARTITION PENETRATIONS. ALL BASE AND TOP TRACK RUNNERS SHALL BE HOT-DIP GALV. STEEL 20GA MIN. FASTENED AT 24" O.C. MAX.

FINISHED SIDE

ONE (1) LAYER OF TYPE I GYP. BD., FINISH AS SCHEDULED

3⅛"

2½" 20 GA. MIN. C-H COLD FORMED METAL STUDS AT 24" O.C., TYP.
1" THICK NOM. 24" WIDE GYPSUM LINER PANELS, FRICTION FIT, TYP.

SHAFT SIDE

NOTE:
EACH TRADE SHALL FIRE STOP AND SMOKE SEAL ALL PENETRATIONS THROUGH RATED PARTITIONS.

Q — GYP. BD. METAL STUD SHAFT PARTITION (1-HR RATING)
UL U415 SYSTEM A / STC N/A (PLAN VIEW SHOWN)

REV. 1-2020

R (NOT USED)

NOT USED

TOP OF PARTITION (VARIES) - EXTEND AND SECURE TO UNDERSIDE OF ROOF DECK / FLOOR SLAB ABOVE TO MAINTAIN CONTINUITY OF SHAFT ENCLOSURE WHERE INTERRUPTED BY A HORIZONTAL ASSEMBLY. PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT, FULL PERIMETER, (EACH SIDE) AND AT ALL PARTITION PENETRATIONS. ALL BASE AND TOP TRACK RUNNERS SHALL BE HOT-DIP GALV. STEEL 20GA MIN. FASTENED AT 24" O.C. MAX.

FINISHED SIDE

1" MIN. THICK MINERAL WOOL INSULATION
TWO (2) LAYERS OF TYPE I GYP. BD., FINISH AS SCHEDULED

3¾"

2½" 20 GA. MIN. C-H COLD FORMED METAL STUDS AT 24" O.C., TYP.
1" THICK NOM. 24" WIDE GYPSUM LINER PANELS, FRICTION FIT, TYP.

SHAFT SIDE

NOTE:
EACH TRADE SHALL FIRE STOP AND SMOKE SEAL ALL PENETRATIONS THROUGH RATED PARTITIONS.

R — GYP. BD. METAL STUD SHAFT PARTITION (2-HR RATING)
UL U415 SYSTEM B / STC 48 (PLAN VIEW SHOWN)

REV. 1-2020

S (NOT USED)

NOT USED

EXISTING PARTITION TO REMAIN - VERIFY CONSTRUCTION TYPE AND SIZE IN FIELD

SECURE TOP OF NEW PARTITION TO EXISTING PARTITION CONSTRUCTION

EXIST. TO REMAIN
NEW INFILL
ALIGN

NEW GYP. BD. WOOD FRAMED INFILL PARTITION. PATCH AND MATCH ALL EXISTING ADJACENT SURFACES FOR NEW CONSTRUCTION TO ALIGN WITH EXISTING FOR A SEAMLESS TRANSITION

ONE (1) LAYER OF GYP. BD. (EACH SIDE). GYPSUM PANEL CORE COMPOSITION SHALL MAINTAIN THE EXISTING FIRE RATING (WHERE APPLICABLE)

WOOD FRAMING AT 16" O.C. MAX. WITH SILL AND TOP PLATES - SIZE AS APPROPRIATE TO MATCH EXIST. PARTITION THICKNESS

SECURE BASE OF NEW PARTITION TO EXISTING FLOOR CONSTRUCTION

VARIES - V.I.F.
VARIES
SEE PLAN

WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

REFER TO GENERAL PARTITION TYPE NOTE 10 THIS SHEET FOR ADDITIONAL INFILL PARTITION REQUIREMENTS.

ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION. THICKNESS TO FILL ENTIRE WIDTH OF STEEL FRAMING - V.I.F.

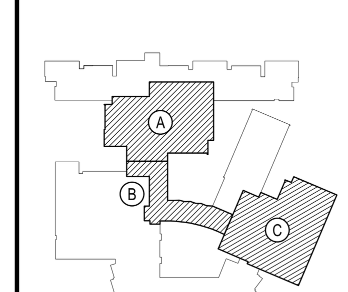
UNLESS NOTED OR SCHEDULED OTHERWISE, NEW INFILL PARTITION FINISHES (EACH SIDE) SHALL MATCH THE EXISTING PARTITION FINISHES IN KIND, INCLUDING BUT NOT LIMITED TO: WALL BASE, WALL COVERING, WALL TILE, CEILING TRIM, MOLDINGS, ETC. - VERIFY IN FIELD

S — GYP. BD. WOOD STUD INFILL PARTITION
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN FIELD

REV. 1-2020

GENERAL PARTITION TYPE NOTES:

1. ALL PARTITIONS SHALL EXTEND TO UNDERSIDE OF A FLOOR SLAB OR ROOF DECK UNLESS OTHERWISE NOTED.
2. AT ALL PARTITIONS THAT ARE DESIGNATED TO BE FIRE RATED PARTITIONS; PROVIDE CONTINUOUS SMOKE AND FIRESTOPPING SEALANT AT TOPS OF PARTITIONS; AT ALL PENETRATIONS THROUGH RATED PARTITIONS; AND FIRE SAFING JOINT FILLER AT PARTITION TO SLAB/DECK JUNCTION.
3. REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF ALL FIRE RATED PARTITIONS/ASSEMBLIES AND ADDITIONAL FIRE RATING INFORMATION.
4. ALL PARTITIONS SHALL BE FINISHED AS SCHEDULED. ALL FINISHES SHALL BE CONTINUOUS AT ALL PARTITION FACES UNLESS NOTED OTHERWISE. REFER TO A9-SERIES FOR ADDITIONAL FINISH INFORMATION.
5. ALL NEW PARTITIONS SHALL BE PREPPED, PRIMED AND PAINTED. REFER TO SPECIFICATION SECTION 099000.
6. REFER TO THE PROJECT MANUAL FOR CONTROL AND EXPANSION JOINT REQUIREMENTS FOR ALL MASONRY WALL CONSTRUCTION, GYP. BD. WALL CONSTRUCTION, GYP. BD. LAMINATION, AND PLASTER SURFACING.
7. REFER TO SPECIFICATIONS FOR GYPSUM BOARD TYPE DESIGNATIONS AND APPLICABLE LOCATIONS (GYP. BD. TYPE I / TYPE II).
8. WHERE METAL STUD FRAMED PARTITIONS ARE SCHEDULED TO RECEIVE NEW TILE FINISHES; THE CONTRACTOR SHALL PROVIDE GYPSUM WALL BOARD TYPE II AT THE LOCATIONS TO RECEIVE TILE (ONLY) IN LIEU OF THE SCHEDULED GYP. BD. TYPE FOR A SUITABLE WALL FINISH SUBSTRATE. REFER TO A-9 SERIES FOR ADDITIONAL INFORMATION.
9. ALL NEW OPENINGS IN METAL STUD PARTITIONS, INCLUDING BUT NOT LIMITED TO DOORS AND WINDOWS, SHALL RECEIVE THE APPROPRIATE HEADER AS DESIGNED BY THE LIGHT GAUGE FRAMING MANUFACTURER.
10. WHERE EXISTING OPENINGS IN EXISTING PARTITIONS ARE SCHEDULED TO BE INFILLED, THE NEW INFILL CONSTRUCTION SHALL MAINTAIN AND MATCH THE EXISTING PARTITION'S FIRE RATING FOR CONTINUITY OF FIRE AND SMOKE PROTECTION - CONTRACTOR TO VERIFY IN FIELD (1-HR MIN. RATING AT CORRIDORS). REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL INFORMATION.
11. AT ALL LOCATIONS WHERE EXISTING PARTITIONS ARE SCHEDULED TO BE PATCHED OR INFILLED; ALL NEW CONSTRUCTION/FINISHES SHALL MATCH THE EXISTING ADJACENT SURFACES IN KIND - CONTRACTOR TO V.I.F.
12. AT ALL LOCATIONS WHERE NEW WORK IS SCHEDULED, THE CONTRACTOR SHALL PROVIDE SOLID BLOCKING, LATERAL BRACING, AND ADDITIONAL FRAMING AS REQUIRED TO SECURE NEW PARTITIONS TO THE STRUCTURE ABOVE AND TO ACCOMMODATE ALL NEW WALL MOUNTED FIXTURES, ACCESSORIES, EQUIPMENT, ETC.
13. WHERE PARTITION TYPES ARE NOT SPECIFICALLY IDENTIFIED IN PLAN, IT IS THE INTENT THAT THE GRAPHICALLY INDICATED WALL TYPE SHALL BE CONTIGUOUS UNTIL INTERRUPTED BY ANOTHER SPECIFIED WALL TYPE.



KEY PLAN
NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: PARTITION TYPES

DRAWING BY: P.J.H.
CHECK BY: G.W.S.

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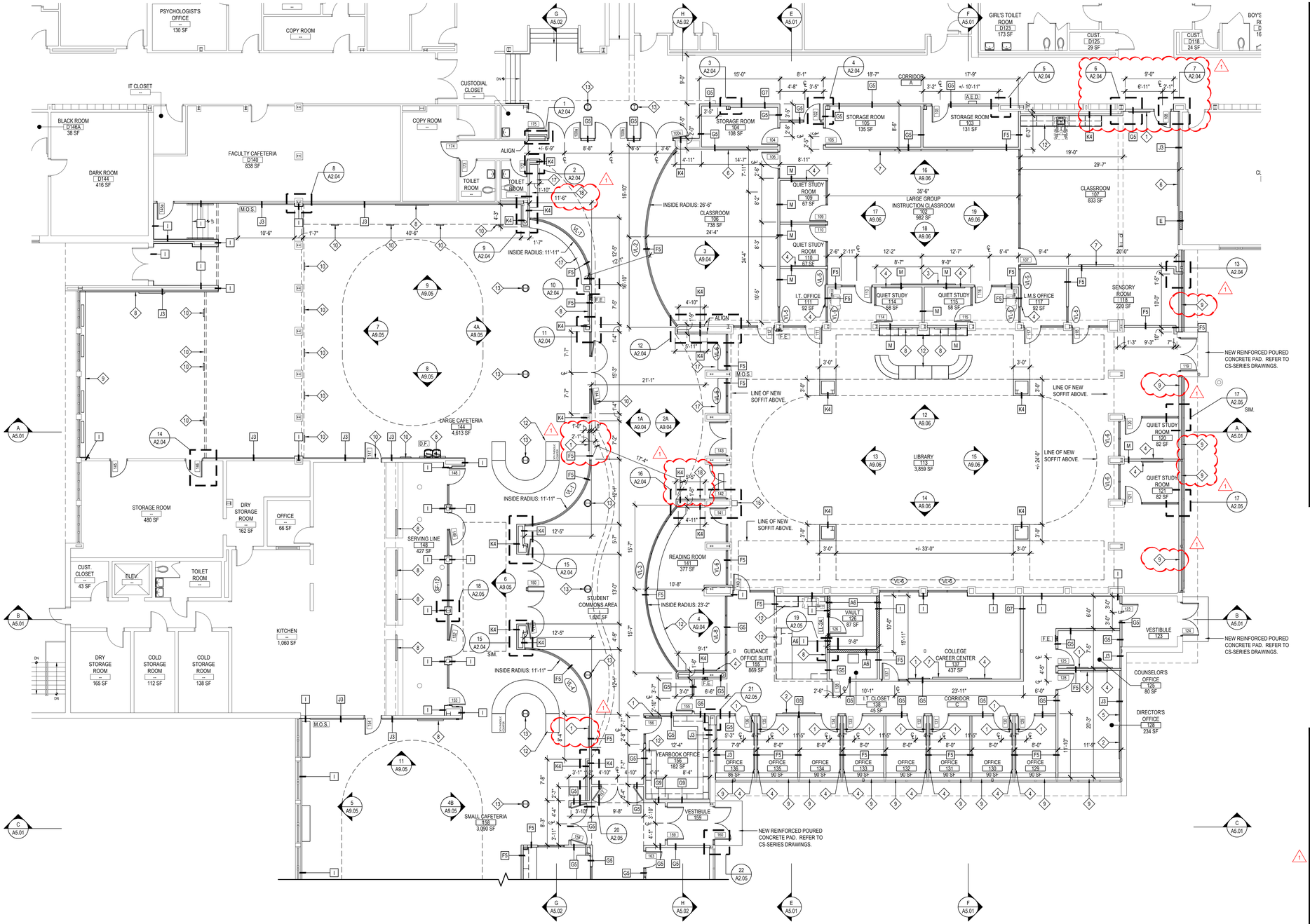
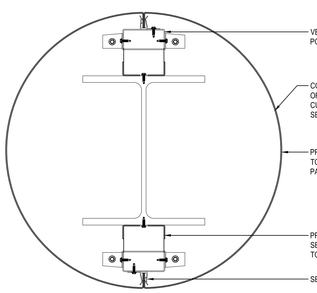
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PARTITION TYPES
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A2.00



AREA 'A' FIRST FLOOR PROPOSED PLAN

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



1 TYPICAL COLUMN ENCLOSURE DETAIL

NOTE: PROVIDE COLUMN ENCLOSURE MODEL 'E : ECONOMICAL' BY 'FRY REGLET' OR ARCHITECT APPROVED EQUAL. SCALE: 3" = 1'-0"

GENERAL CONSTRUCTION NOTES

1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO START OF WORK.
2. IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED AND PROTECTED DURING THE CONSTRUCTION PERIOD.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR ESTIMATING.
4. ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENT NECESSARY TO THE APPROVAL OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO OWNER.
5. CONTRACTOR SHALL PROTECT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
6. ALL PROJECT WASTE MATERIAL AND RUBBISH SHALL BE DISPOSED IN CONTAINERS PROVIDED BY THE CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE OWNER & CONSTRUCTION MANAGER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
7. ALL INTERIOR SURFACES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONDITIONS TO THE APPROVAL OF THE ARCHITECT AND OWNER.
8. ALL DEBRIS, DUST AND DIRT CAUSED BY WORK OF THIS CONTRACT SHALL BE REMOVED FROM SITE BY APPROPRIATE MEANS. RESTORE ALL CONDITIONS TO THE STATE OF CLEANLINESS THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
9. ALL DEMOLITION AND CONSTRUCTION WORK TO BE PERFORMED WITHOUT INTERRUPTION OF OWNER OPERATIONS. IF INTERRUPTION IS NECESSARY, WORK MUST NOT PROCEED UNTIL WRITTEN APPROVAL HAS BEEN OBTAINED FROM OWNER.
10. ALL CONTRACTORS ARE TO COORDINATE INSTALLATION OF THEIR WORK WITH EACH OTHER AND WITH THE WORK BEING PERFORMED UNDER SEPARATE CONTRACTS BY OTHERS AND WORK PERFORMED BY THE OWNER'S VENDOR(S).
11. REFER TO CONSTRUCTION IMPLEMENTATION PLANS AND CONSTRUCTION SPECIAL PROVISIONS (PREPARED BY OTHERS, IF APPLICABLE) FOR ALL REQUIREMENTS FOR TEMPORARY CONSTRUCTION.

ARCHITECTURAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	KEYED NOTE
XXX	DOOR NUMBER
WX	WINDOW DESIGNATION
XXXX / XXX / XXX SF	ROOM TAG: ROOM NAME, ROOM NUMBER, ROOM AREA
# / AX.XX	DETAIL TAG: DETAIL NUMBER, DRAWING NUMBER
XX / XX.XX	SECTION / ELEVATION TAG: DETAIL NUMBER, DRAWING NUMBER
XX	DENOTES INTERIOR PARTITION TYPE - REFER TO PARTITION TYPES FOR ADDITIONAL INFORMATION.
F.E.	DENOTES LOCATION OF RECESSED FIRE EXTINGUISHER WITH FIRE RATED CABINET.
D.F.	DENOTES LOCATION OF DRINKING FOUNTAIN.
LL.XX	DENOTES LOCATION AND DESIGNATION OF NEW LINTEL.
A.E.D.	DENOTES LOCATION OF AUTOMATED EXTERNAL DEFIBRILLATOR.
M.O.S.	DENOTES LOCATION OF ASSEMBLY SPACE MAXIMUM OCCUPANCY SIGN.
M	DENOTES DOOR ON MAGNETIC AUTOMATIC HOLD OPEN DEVICE, CONNECTED TO FIRE ALARM SYSTEM.
♿	DENOTES ACCESSIBLE ENTRANCE/EXIT, FIXTURE, ACCESSORY, DEVICE, OR PARTICIPATION AREA.
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.
	CMU WALL CONSTRUCTION
	BRICK VENEER CONSTRUCTION
	GYPSUM AND METAL STUD WALL CONSTRUCTION
	GYPSUM BOARD; PLASTER; MORTAR; SAND

PROPOSED KEY NOTES

1. 4'-0"H x 4'-0"W TACKBOARD PROVIDED AND INSTALLED BY G.C.
2. 4'-0"H x 6'-0"W TACKBOARD PROVIDED AND INSTALLED BY G.C.
3. 6'-0"H x 12'-0"W TABLEAU MODULAR MARKERBOARD AND TACKBOARD SYSTEM BY 'CLARIDGE' OR ARCHITECT APPROVED EQUAL. REFER TO A9-SERIES DRAWINGS.
4. 4'-0"H x 4'-0"W GLASS MARKERBOARD BY 'CLARIDGE' OR ARCHITECT APPROVED EQUAL PROVIDED AND INSTALLED BY G.C.
5. 4'-0"H x 6'-0"W GLASS MARKERBOARD BY 'CLARIDGE' OR ARCHITECT APPROVED EQUAL PROVIDED AND INSTALLED BY G.C.
6. 4'-0"H x 8'-0"W GLASS MARKERBOARD BY 'CLARIDGE' OR ARCHITECT APPROVED EQUAL PROVIDED AND INSTALLED BY G.C.
7. LARGE INTERACTIVE DISPLAY PROVIDED AND INSTALLED BY OWNER. G.C. TO PROVIDE BLOCKING. E.C. TO PROVIDE ALL ELECTRICAL COMPONENTS. REFER TO E-SERIES DRAWINGS.
8. LCD MONITOR PROVIDED AND INSTALLED BY E.C. G.C. TO PROVIDE BLOCKING. COORDINATE IN FIELD. REFER TO E-SERIES DRAWINGS.
9. PROVIDE AND INSTALL PHENOLIC RESIN WINDOW SILLS. MATCH WIDTH OF EXISTING MASONRY OPENING. REFER TO A11- SERIES DRAWINGS.
10. NEW OR RELOCATED HVAC SUPPLY/RETURN/TRANSFER GRILLE PROVIDED BY M.C., INSTALLED BY G.C. PROVIDE NEW LOOSE LINTEL WHERE SHOWN ON PLANS.
11. 5'-0"H x 7'-0"W FRAMELESS ¼" TEMPERED GLASS MIRROR BY G.C. REFER TO A9-SERIES DRAWINGS.
12. CASEWORK BY CASEWORK CONTRACTOR VIA SEPARATE PURCHASE ORDER. COORDINATE IN FIELD. REFER TO A11- SERIES DRAWINGS FOR REFERENCE.
13. PROVIDE AND INSTALL COLUMN ENCLOSURE AROUND EXISTING STEEL COLUMN. REFER TO DETAIL 1, THIS SHEET.
14. RECESSED DISPLAY CASE AS MANUFACTURED BY 'CLARIDGE PRODUCTS' OR ARCHITECT APPROVED EQUAL. REFER TO A12- SERIES DRAWINGS.
15. ELECTRICAL OR TECHNOLOGY EQUIPMENT BY E.C. REFER TO E-SERIES DRAWINGS.
16. WALL MOUNTED MECHANICAL EQUIPMENT BY M.C. REFER TO M-SERIES DRAWINGS.
17. BUILT-IN CASEWORK BY G.C. REFER TO A12.- SERIES DRAWINGS.
18. NEW CAST ALUMINUM GRAPHIC SIGNAGE BY 'METAL ARTS' OR ARCHITECT APPROVED EQUAL. FINAL GRAPHIC AND FONT AS SELECTED BY ARCHITECT. CUSTOM RAL COLOR- 2 COLORS MAX. INSTALL AS PER MANUFACTURER'S FASTENING METHOD PMS-3 WITH ALUMINUM TUBE SPACER ½" PROJECTION MOUNTING.

GENERAL NOTES:

1. G.C. SHALL COORDINATE TACK BOARD / MARKERBOARD LOCATIONS AND ELEVATIONS IN EACH CLASSROOM W/ PROPOSED MONITORS AND TECHNOLOGY ITEMS AND OTHER CLASSROOM / OFFICE EQUIPMENT AND FURNISHINGS.
2. MARKERBOARDS SHALL BE AS MANUFACTURED BY 'CLARIDGE PRODUCTS, INC." OR ARCHITECT APPROVED EQUAL WITH INVISI-MOUNT MOUNTING HARDWARE. COLOR: WHITE.
3. G.C. SHALL REFER TO M.E.P. SERIES DRAWINGS FOR ADDITIONAL WORK SCOPES NOT SHOWN ON THESE DRAWINGS AND COORDINATION OF WORK SCOPE BY OTHERS.

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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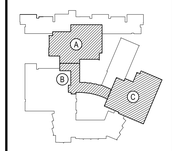

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED PLAN - AREA 'A'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A2.01

AREA 'B' FIRST FLOOR PROPOSED PLAN

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

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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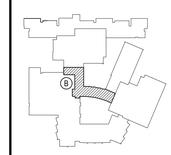

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED PLAN - AREA 'B'

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE PROPOSED PLAN - AREA 'B'

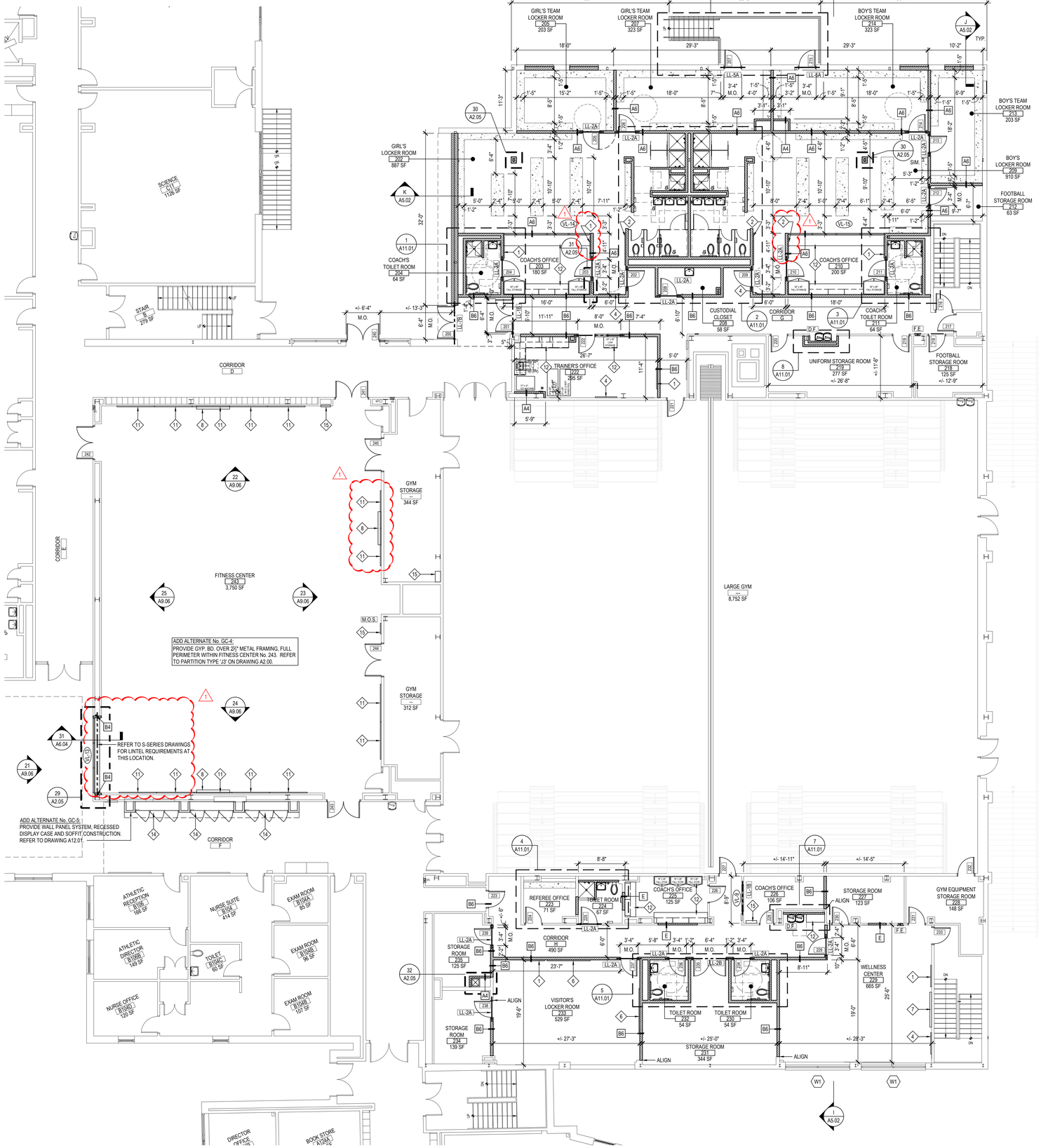
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

A2.02



AREA 'C' FIRST FLOOR PROPOSED PLAN

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

LINTEL TYPES

REV 3-2023

WALL THICKNESS	MARK	OPENINGS UP TO 4'-0"		MARK	OPENINGS 4'-0" TO 7'-0"	
4" CMU	LL-1A	MT6 x 5.9		LL-1B	MT6 x 5.9	
6" CMU	LL-2A	WT4 x 9		LL-2B	WT4 x 10.5	
8" CMU	NOT USED			NOT USED		
12" CMU	NOT USED			NOT USED		
12" COMPOSITE	LL-5A	(3) 3½" x 3½" x 5/16"		NOT USED		
14" CAVITY	NOT USED			NOT USED		
15" CAVITY	NOT USED			LL-7B	(2) 5" x 3½" x 5/16" (LLV) + (1) 7" x 4" x 3/8" (LLH)	
19" CAVITY	NOT USED			NOT USED		

NOTE:
1. AT EXTERIOR WALL, THE OUTSIDE ANGLE IS GALVANIZED.
2. ALL LINTELS SHALL BE 8" BEARING WITH (2) COURSES FILLED SOLID BELOW.

NOTE:
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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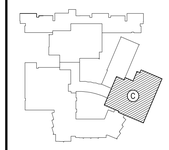

KEY PLAN

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PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED PLAN - AREA 'C'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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DWG TITLE	PROPOSED PLAN - AREA 'C'
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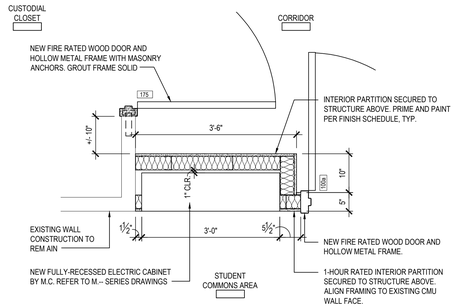
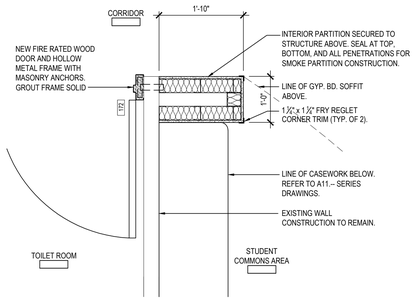
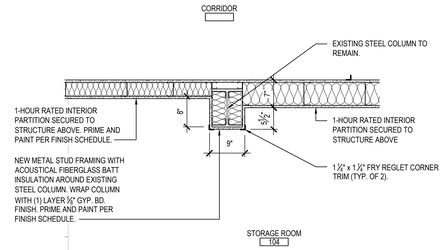


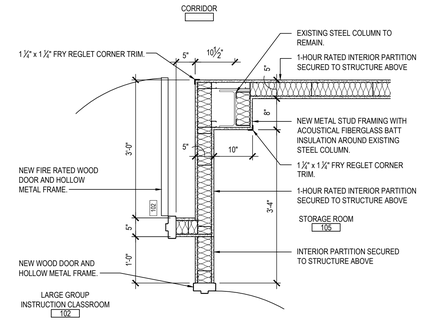
1 PLAN DETAIL
at STUDENT COMMONS AREA
SCALE: 3/4" = 1'-0"



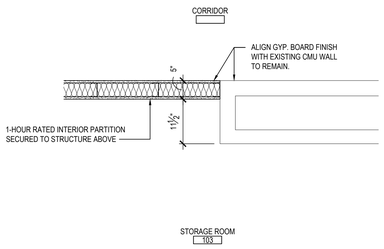
2 PLAN DETAIL
at STUDENT COMMONS AREA
SCALE: 3/4" = 1'-0"



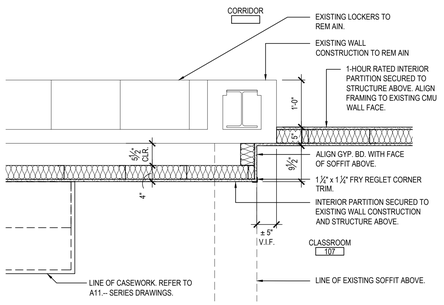
3 PLAN DETAIL
at STORAGE ROOM No. 104
SCALE: 3/4" = 1'-0"



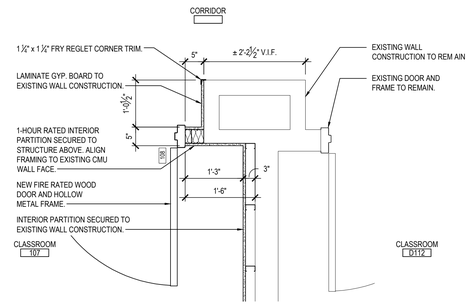
4 PLAN DETAIL
at STORAGE ROOM No. 105
SCALE: 3/4" = 1'-0"



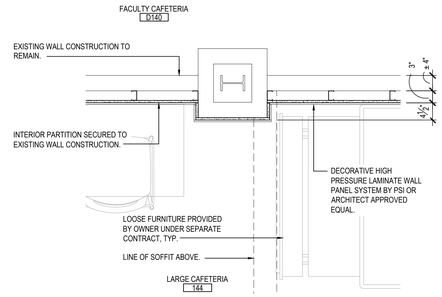
5 PLAN DETAIL
at STORAGE ROOM No. 103
SCALE: 3/4" = 1'-0"



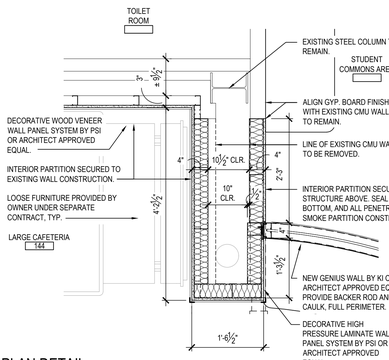
6 PLAN DETAIL
at CLASSROOM No. 107
SCALE: 3/4" = 1'-0"



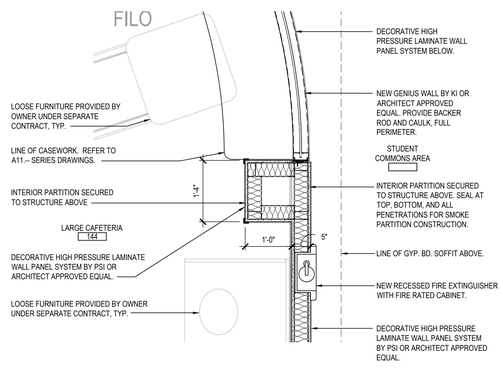
7 PLAN DETAIL
at CLASSROOM No. 107
SCALE: 3/4" = 1'-0"



8 PLAN DETAIL
at LARGE CAFETERIA
SCALE: 3/4" = 1'-0"



9 PLAN DETAIL
at LARGE CAFETERIA
SCALE: 3/4" = 1'-0"



10 PLAN DETAIL
at LARGE CAFETERIA No. 144
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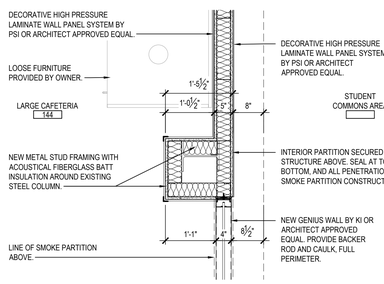
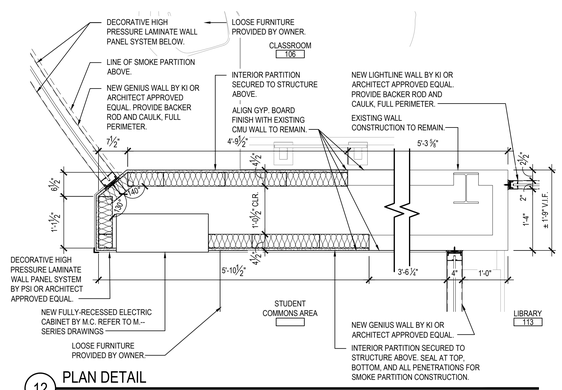
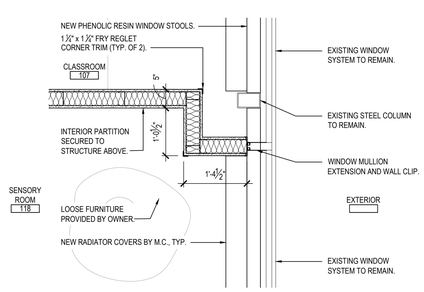


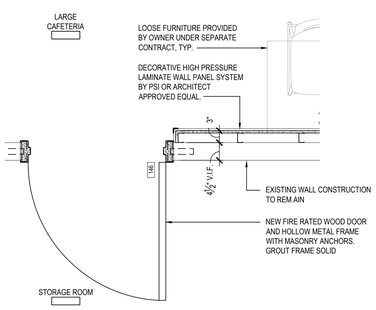
11 PLAN DETAIL
at LARGE CAFETERIA
SCALE: 3/4" = 1'-0"



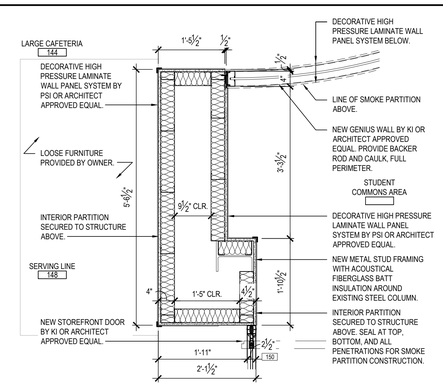
12 PLAN DETAIL
at STUDENT COMMONS AREA
SCALE: 3/4" = 1'-0"



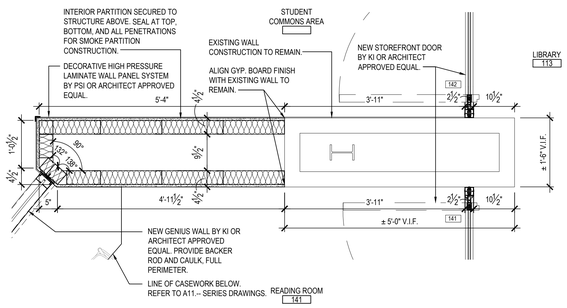
13 PLAN DETAIL
at SENSORY ROOM No. 118
SCALE: 3/4" = 1'-0"



14 PLAN DETAIL
at GUIDANCE SUITE
SCALE: 3/4" = 1'-0"



15 PLAN DETAIL
at LARGE CAFETERIA
SCALE: 3/4" = 1'-0"



16 PLAN DETAIL
at STUDENT COMMONS AREA
SCALE: 3/4" = 1'-0"

REV.	DATE	ITEM

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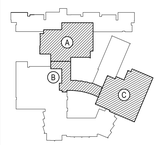

KEY PLAN
NOT TO SCALE

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

PROJECT

PLAN DETAILS

DWG TITLE

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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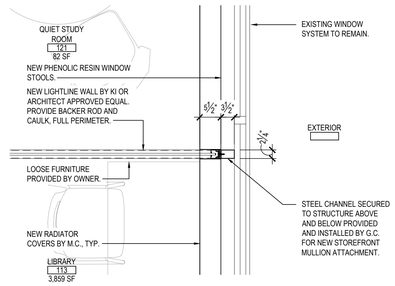
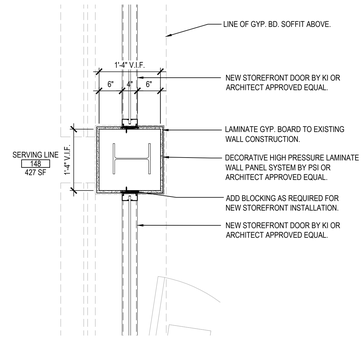
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PLAN DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

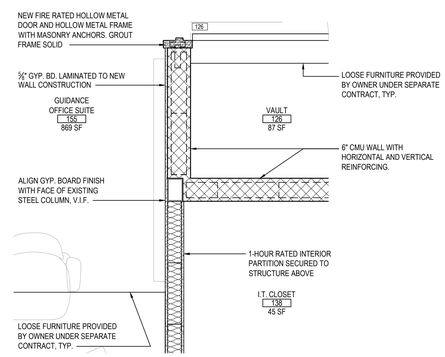
A2.04



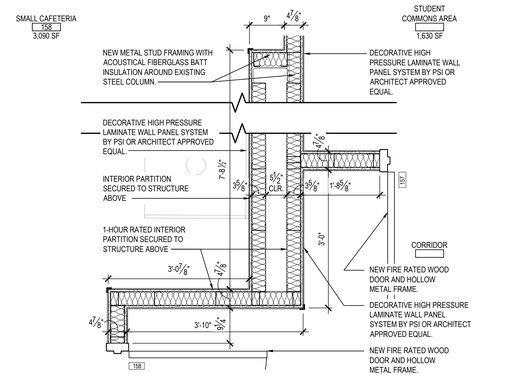
17 PLAN DETAIL
at QUIET STUDY ROOM No. 121 SCALE: 3/4" = 1'-0"



18 PLAN DETAIL
at SERVING LINE No. 148 SCALE: 3/4" = 1'-0"



19 PLAN DETAIL
at GUIDANCE SUITE SCALE: 3/4" = 1'-0"



20 PLAN DETAIL
at SMALL CAFETERIA SCALE: 3/4" = 1'-0"

REV.	DATE	ITEM

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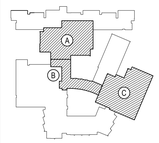
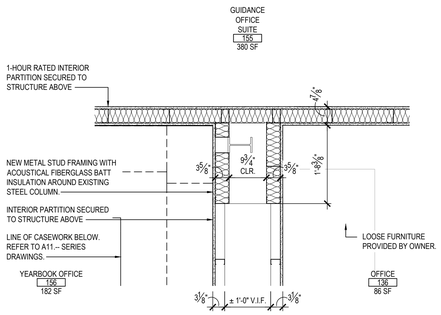
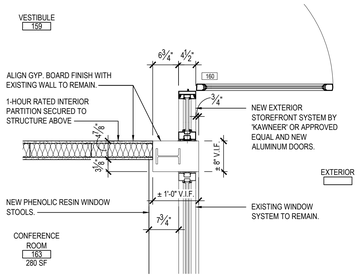


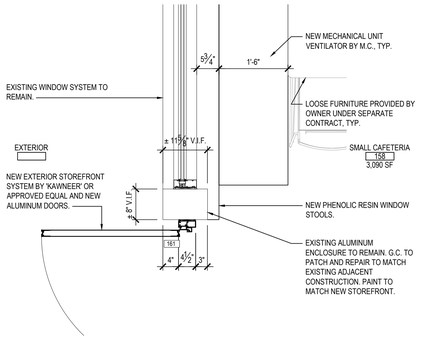
KEY PLAN
NOT TO SCALE



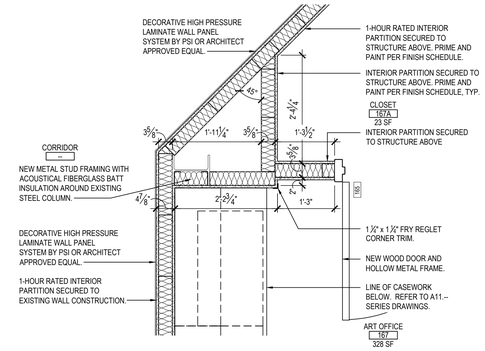
21 PLAN DETAIL
at YEARBOOK OFFICE No. 156 SCALE: 3/4" = 1'-0"



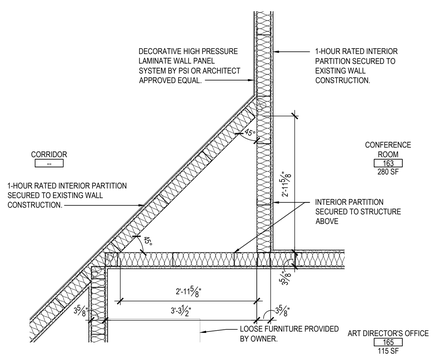
22 PLAN DETAIL
at VESTIBULE No. 159 SCALE: 3/4" = 1'-0"



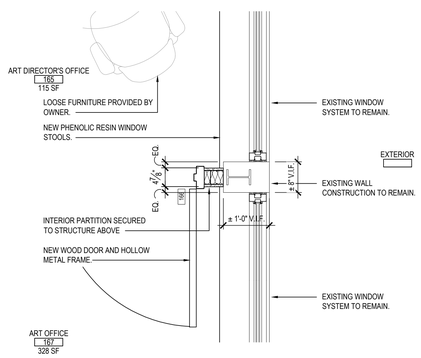
23 PLAN DETAIL
at SMALL CAFETERIA SCALE: 3/4" = 1'-0"



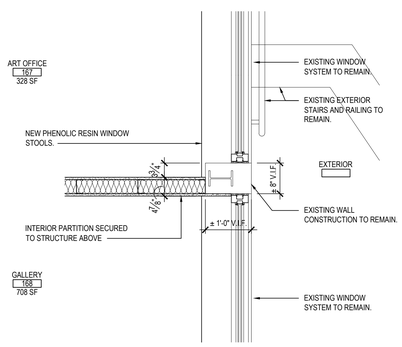
24 PLAN DETAIL
at ART OFFICE No. 167 SCALE: 3/4" = 1'-0"



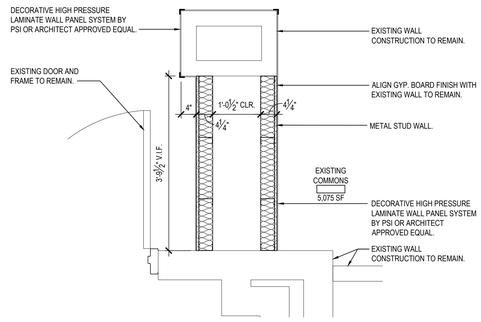
25 PLAN DETAIL
at ART OFFICE No. 167 SCALE: 3/4" = 1'-0"



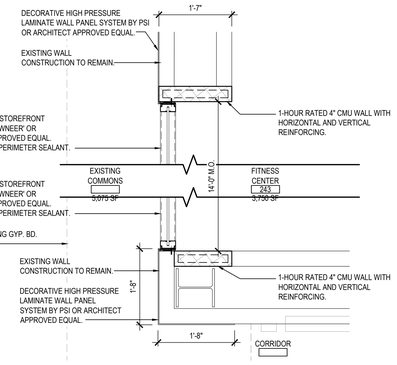
26 PLAN DETAIL
at ART OFFICE No. 167 SCALE: 3/4" = 1'-0"



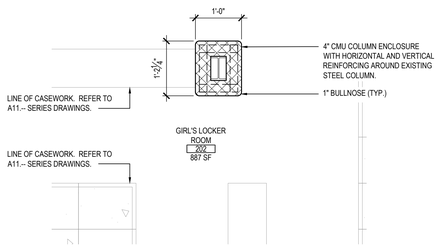
27 PLAN DETAIL
at ART OFFICE No. 167 SCALE: 3/4" = 1'-0"



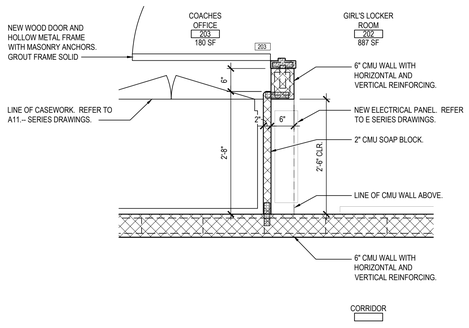
28 PLAN DETAIL
at EXISTING COMMONS SCALE: 3/4" = 1'-0"



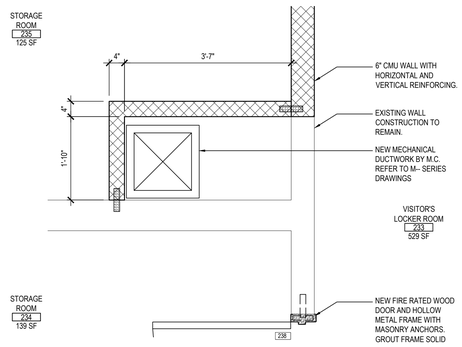
29 PLAN DETAIL
at FITNESS CENTER No. 243 SCALE: 3/4" = 1'-0"



30 PLAN DETAIL
at GIRL'S LOCKER ROOM No. 202 SCALE: 3/4" = 1'-0"



31 PLAN DETAIL
at GIRL'S LOCKER ROOM No. 202 SCALE: 3/4" = 1'-0"



32 PLAN DETAIL
at STORAGE ROOM No. 235 SCALE: 3/4" = 1'-0"

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

PROJECT

PLAN DETAILS

DWG TITLE

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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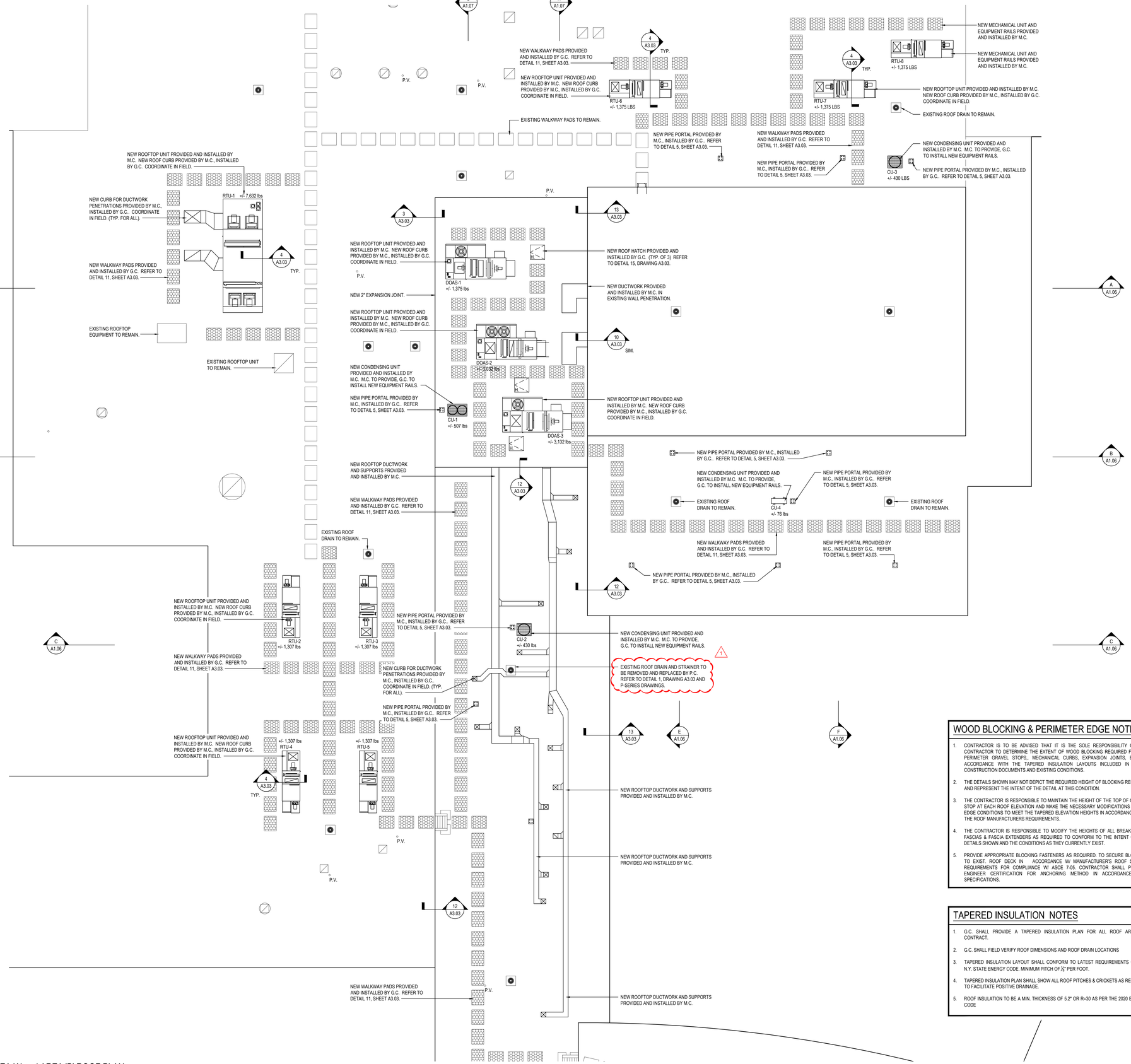
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PLAN DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A2.05



AREA 'A' and AREA 'B' ROOF PLAN

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

SYMBOL LEGEND

SYMBOL	
# / AX.XX	DETAIL TAG — DETAIL NUMBER / DRAWING NUMBER — DESCRIPTION
SLOPE	INDICATES ROOF SLOPE
	AIR CONDITIONING CONDENSING UNIT
	ROOF TOP EXHAUST FAN
VTR	PLUMBING VENT THRU ROOF
	SINGLE ROOF DRAIN
	DOUBLE ROOF DRAIN w/ OVERFLOW DRAIN
H	ROOF ACCESS HATCH
N	NEW ROOF LADDER (E = EXISTING, N = NEW)
E.J.	ROOF EXPANSION JOINT
	WALKWAY PADS
H.P.	HIGH POINT
L.P.	LOW POINT
	GOOSENECK VENT
P.P.	PITCH POCKET PENETRATION
℄	CENTERLINE

ROOFING NOTES

1. REFER TO SPECIFICATIONS FOR COMPLETE DESCRIPTION OF ROOF ASSEMBLY AND COMPONENTS.
2. COLOR AND FINISH OF ALL ALUMINUM COPINGS, GRAVEL STOPS, FASCIAS AND "J" COVERS TO BE SELECTED BY ARCHITECT.
3. G.C. SHALL PROVIDE ADDITIONAL CRICKETS / SLOPE AS REQUIRED TO ENSURE PROPER DRAINAGE SLOPE.
4. G.C. SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL MATERIALS REQUIRED FOR A FULL AND COMPLETE ROOFING SYSTEM INSTALLATION AS INDICATED ON THE DRAWINGS. MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO: ALL TREATED WOOD BLOCKING AT ALL NEW ROOF TERMINATIONS AND EXPANSION JOINTS, ROOF FASTENERS, ROOFING BOARDS, ROOF EXPANSION JOINTS, COVERS AND ROOF FLASHING, ROOFING SHEETS, ANCHOR BOLTS, FLASHING REGLETS, COPING, GRAVEL STOPS AND "J" COVERS.
5. ALL NEW ROOFTOP H.V.A.C. EQUIPMENT CURBS SHALL BE SUPPLIED BY THE M.C. AND INSTALLED BY THE G.C. G.C. SHALL PROVIDE ALL PENETRATIONS, STEEL SUPPORT FRAMING, WOOD BLOCKING AND FLASHING FOR ALL SAID CURBS. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND LOCATIONS.
6. GENERAL CONTRACTOR SHALL ALSO PROVIDE ALL PENETRATIONS AND FLASHING REQUIRED FOR ALL PLUMBING VENTS AND DRAINS.
7. GENERAL CONTRACTOR SHALL PROVIDE ALL ROOF DRAINS (FINAL CONNECTIONS BY P.C.)
8. ANY SQUARE FOOTAGES AND/OR DIMENSIONS SHOWN SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS FULLY RESPONSIBLE TO FIELD-VERIFY ALL ROOF AREA DIMENSIONS AND INCLUDE ALL CONDITIONS AS A PART OF THE BASE BID COST.
9. WORK PERFORMED ON EXISTING ROOF AREAS SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO MAINTAIN EXISTING ROOF WARRANTIES.
10. FOR ALL WORK INVOLVING MODIFICATIONS TO ANY EXISTING ROOF SURFACES, WHETHER IT BE FOR ELECTRICAL, MECHANICAL OR PLUMBING, THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING PERFORMED SHALL LOCATE AND MARK-OUT THE EXACT SIZE OF THE ROOF AREAS NEEDING TO BE CUT FOR THE MECHANICAL, ELECTRICAL, OR PLUMBING PENETRATIONS. THE G.C. SHALL BE RESPONSIBLE TO CUT THE ROOF AND MAKE THE PENETRATION AS MARKED OUT BY THE M.C., P.C., OR E.C.. THE APPROPRIATE TRADE SHALL PROVIDE THE G.C. WITH ALL CURBS, RAILS, PITCH POCKETS, VENT PIPES, ETC. THAT NEED TO BE INSTALLED AND THE G.C. WILL PERFORM ALL FLASHING AND PATCHING OF THESE ELEMENTS AS REQUIRED TO MAINTAIN THE EXISTING ROOF WARRANTY.
11. ALL ROOF REPAIRS SHALL BE PERFORMED BY A LICENSED ROOFING CONTRACTOR CERTIFIED BY THE ROOFING MANUFACTURER TO PERFORM THE REPAIRS IN ACCORDANCE WITH THEIR REQUIREMENTS FOR MAINTAINING THE EXISTING WARRANTY.

WOOD BLOCKING & PERIMETER EDGE NOTES

1. CONTRACTOR IS TO BE ADVISED THAT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXTENT OF WOOD BLOCKING REQUIRED FOR ALL PERIMETER GRAVEL STOPS, MECHANICAL CURBS, EXPANSION JOINTS, ETC. IN ACCORDANCE WITH THE TAPERED INSULATION LAYOUTS INCLUDED IN THESE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS.
2. THE DETAILS SHOWN MAY NOT DEPICT THE REQUIRED HEIGHT OF BLOCKING REQUIRED AND REPRESENT THE INTENT OF THE DETAIL AT THIS CONDITION.
3. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE HEIGHT OF THE TOP OF GRAVEL STOP AT EACH ROOF ELEVATION AND MAKE THE NECESSARY MODIFICATIONS AT THE EDGE CONDITIONS TO MEET THE TAPERED ELEVATION HEIGHTS IN ACCORDANCE WITH THE ROOF MANUFACTURERS REQUIREMENTS.
4. THE CONTRACTOR IS RESPONSIBLE TO MODIFY THE HEIGHTS OF ALL BREAK METAL FASCIAS & FASCIA EXTENDERS AS REQUIRED TO CONFORM TO THE INTENT OF THE DETAILS SHOWN AND THE CONDITIONS AS THEY CURRENTLY EXIST.
5. PROVIDE APPROPRIATE BLOCKING FASTENERS AS REQUIRED. TO SECURE BLOCKING TO EXIST. ROOF DECK IN ACCORDANCE W/ MANUFACTURER'S ROOF SYSTEM REQUIREMENTS FOR COMPLIANCE W/ ASCE 7-05. CONTRACTOR SHALL PROVIDE ENGINEER CERTIFICATION FOR ANCHORING METHOD IN ACCORDANCE WITH SPECIFICATIONS.

TAPERED INSULATION NOTES

1. G.C. SHALL PROVIDE A TAPERED INSULATION PLAN FOR ALL ROOF AREAS IN CONTRACT.
2. G.C. SHALL FIELD VERIFY ROOF DIMENSIONS AND ROOF DRAIN LOCATIONS
3. TAPERED INSULATION LAYOUT SHALL CONFORM TO LATEST REQUIREMENTS OF THE N.Y. STATE ENERGY CODE. MINIMUM PITCH OF ¼" PER FOOT.
4. TAPERED INSULATION PLAN SHALL SHOW ALL ROOF PITCHES & CRICKETS AS REQUIRED TO FACILITATE POSITIVE DRAINAGE.
5. ROOF INSULATION TO BE A MIN. THICKNESS OF 5.2" OR R=30 AS PER THE 2020 ENERGY CODE

ROOFTOP UNIT ANCHORING

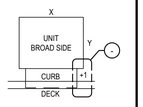
BASED ON 140 MPH WIND (50 PSF) AND 200 LB SHEAR AND PULL-OUT FOR FASTENERS.

W = WEIGHT OF UNIT IN LBS.
F_R = MINIMUM QUANTITY OF FASTENERS FOR UNIT TO CURB AND CURB TO DECK
F_R = MINIMUM QUANTITY OF FASTENERS FOR RAIL TO DECK. (UNIT TO RAIL SHOULD BE WITH THE MANUFACTURER PROVIDED TABS).
F_S = MINIMUM QUANTITY OF ½" DIA. SHEET SCREWS PER STRAP ANCHOR POINT. STRAPS HALL BE 12GA. x 1½" ALUMINUM.

FASTENERS SHALL BE:
- UNIT TO CURB/RAIL - ¼" DIA. SHEET METAL SCREWS
- CURB/RAIL TO METAL DECK - ¼" DIA. SHEET METAL SCREWS
- CURB/RAIL TO CONCRETE - ¼" DIA. TAPCONS
- CURB/RAIL TO TECTUM DECK - ¼" DIA. TOGGLE BOLTS

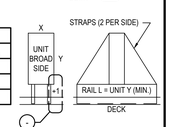
TYPE A - HORIZONTAL

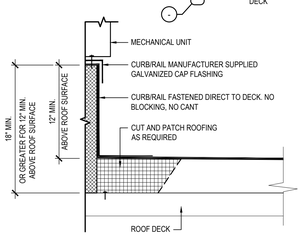
	X	Y + 1	W	F_R
UP TO	5'	4'	500	4
UP TO	8'	5'	900	6
UP TO	12'	6'	1,500	12



TYPE A - VERTICAL

	X	Y + 1	F_R	F_S
UP TO	2'	4'	4	1
UP TO	3'	6'	4	1
UP TO	4'	7'	6	2





TYPICAL CURB / RAIL INSTALLATION DETAIL

SCALE: N.T.S.

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

ROOF PLAN - AREA 'A' and AREA 'B'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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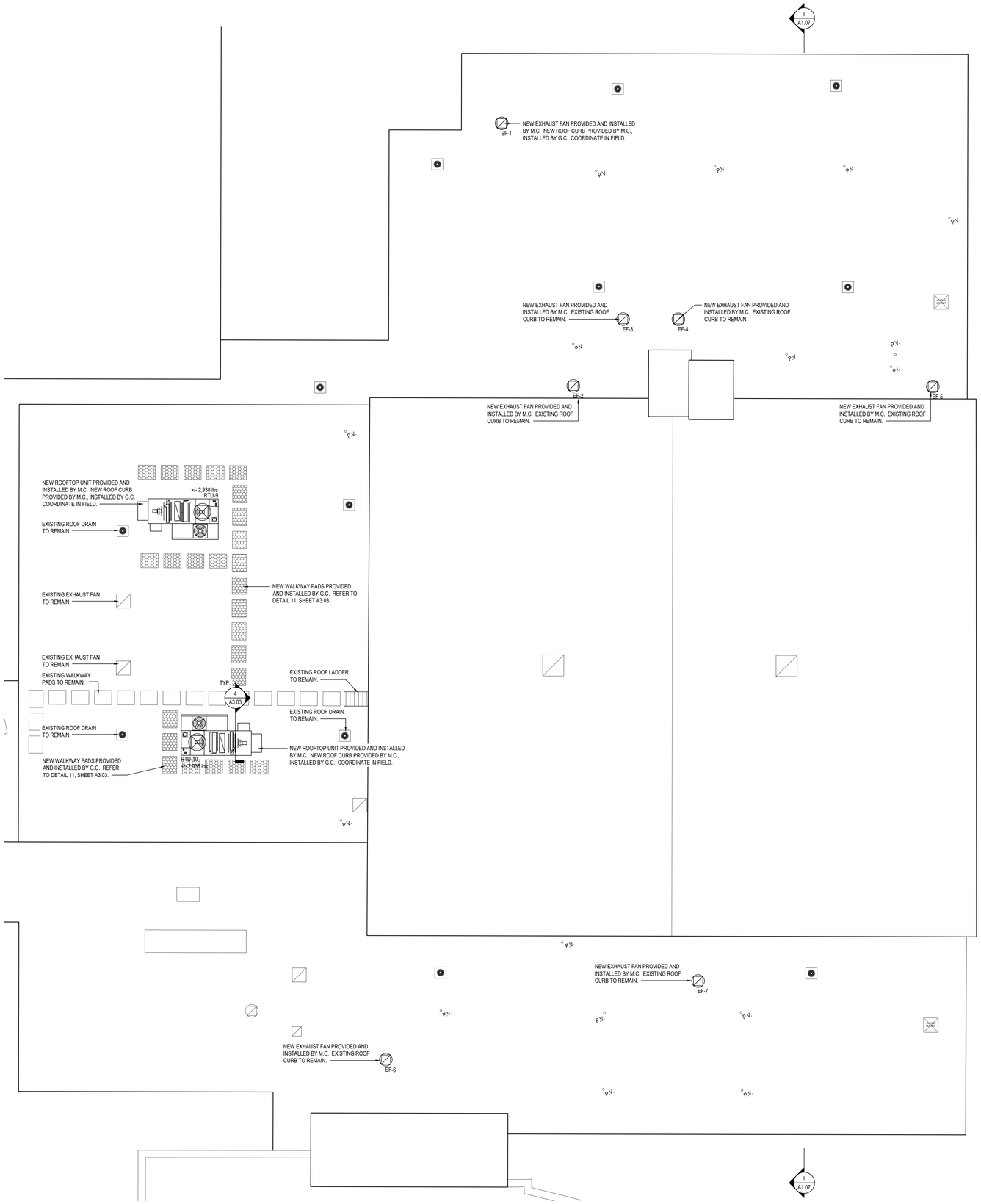
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	ROOF PLAN - AREA 'B' and AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A3.01



AREA 'C' ROOF DEMOLITION PLAN

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

SYMBOL LEGEND

SYMBOL	
# / AX.XX — DETAIL TAG: DETAIL NUMBER / DRAWING NUMBER	DESCRIPTION
SLOPE	INDICATES ROOF SLOPE
	AIR CONDITIONING CONDENSING UNIT
	ROOF TOP EXHAUST FAN
VTR	PLUMBING VENT THRU ROOF
	SINGLE ROOF DRAIN
	DOUBLE ROOF DRAIN w/ OVERFLOW DRAIN
H	ROOF ACCESS HATCH
N	NEW ROOF LADDER (E = EXISTING, N = NEW)
E.J.	ROOF EXPANSION JOINT
	WALKWAY PADS
H.P.	HIGH POINT
L.P.	LOW POINT
	GOOSENECK VENT
P.P.	PITCH POCKET PENETRATION
℄	CENTERLINE

ROOFING NOTES

1. REFER TO SPECIFICATIONS FOR COMPLETE DESCRIPTION OF ROOF ASSEMBLY AND COMPONENTS.
2. COLOR AND FINISH OF ALL ALUMINUM COPINGS, GRAVEL STOPS, FASCIAS AND "J" COVERS TO BE SELECTED BY ARCHITECT.
3. G.C. SHALL PROVIDE ADDITIONAL CRICKETS / SLOPE AS REQUIRED TO ENSURE PROPER DRAINAGE SLOPE.
4. G.C. SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL MATERIALS REQUIRED FOR A FULL AND COMPLETE ROOFING SYSTEM INSTALLATION AS INDICATED ON THE DRAWINGS. MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO: ALL TREATED WOOD BLOCKING AT ALL NEW ROOF TERMINATIONS AND EXPANSION JOINTS, ROOF FASTENERS, ROOFING BOARDS, ROOF EXPANSION JOINTS, COVERS AND ROOF FLASHING, ROOFING SHEETS, ANCHOR BOLTS, FLASHING REGLETS, COPING, GRAVEL STOPS AND "J" COVERS.
5. ALL NEW ROOFTOP H.V.A.C. EQUIPMENT CURBS SHALL BE SUPPLIED BY THE M.C. AND INSTALLED BY THE G.C. G.C. SHALL PROVIDE ALL PENETRATIONS, STEEL SUPPORT FRAMING, WOOD BLOCKING AND FLASHING FOR ALL SAID CURBS. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND LOCATIONS.
6. GENERAL CONTRACTOR SHALL ALSO PROVIDE ALL PENETRATIONS AND FLASHING REQUIRED FOR ALL PLUMBING VENTS AND DRAINS.
7. GENERAL CONTRACTOR SHALL PROVIDE ALL ROOF DRAINS (FINAL CONNECTIONS BY P.C.)
8. ANY SQUARE FOOTAGES AND/OR DIMENSIONS SHOWN SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS FULLY RESPONSIBLE TO FIELD-VERIFY ALL ROOF AREA DIMENSIONS AND INCLUDE ALL CONDITIONS AS A PART OF THE BASE BID COST.
9. WORK PERFORMED ON EXISTING ROOF AREAS SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO MAINTAIN EXISTING ROOF WARRANTIES.
10. FOR ALL WORK INVOLVING MODIFICATIONS TO ANY EXISTING ROOF SURFACES, WHETHER IT BE FOR ELECTRICAL, MECHANICAL OR PLUMBING, THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING PERFORMED SHALL LOCATE AND MARK-OUT THE EXACT SIZE OF THE ROOF AREAS NEEDING TO BE CUT FOR THE MECHANICAL, ELECTRICAL, OR PLUMBING PENETRATIONS. THE G.C. SHALL BE RESPONSIBLE TO CUT THE ROOF AND MAKE THE PENETRATION AS MARKED OUT BY THE M.C., P.C., OR E.C. THE APPROPRIATE TRADE SHALL PROVIDE THE G.C. WITH ALL CURBS, RAILS, PITCH POCKETS, VENT PIPES, ETC. THAT NEED TO BE INSTALLED AND THE G.C. WILL PERFORM ALL FLASHING AND PATCHING OF THESE ELEMENTS AS REQUIRED TO MAINTAIN THE EXISTING ROOF WARRANTY.
11. ALL ROOF REPAIRS SHALL BE PERFORMED BY A LICENSED ROOFING CONTRACTOR CERTIFIED BY THE ROOFING MANUFACTURER TO PERFORM THE REPAIRS IN ACCORDANCE WITH THEIR REQUIREMENTS FOR MAINTAINING THE EXISTING WARRANTY.

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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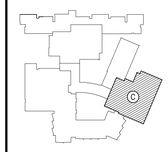

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

ROOF PLAN - AREA 'C'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

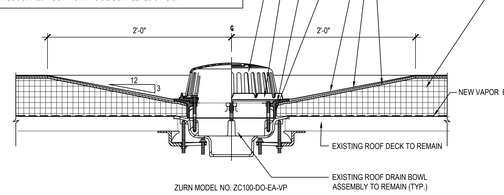
PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: ROOF PLAN - AREA 'C'

SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

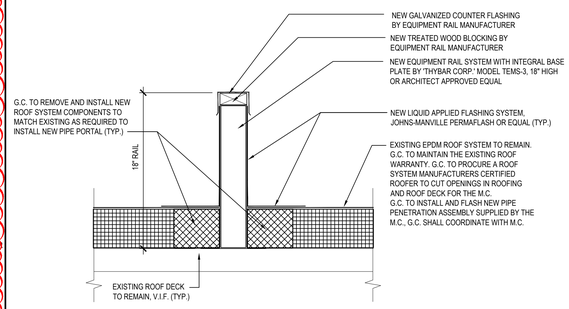
A3.02

1. G.C. TO REMOVE EXISTING ROOF DRAIN DOME STRAINER. P.C. TO INSTALL NEW CAST IRON DOME STRAINER.
2. G.C. TO REMOVE EXISTING ROOF DRAIN FLASHING CLAMP RING. P.C. TO INSTALL NEW CAST IRON FLASHING CLAMP RING.
3. P.C. TO FURNISH AND INSTALL NEW 2"h. CAST IRON STATIC EXTENSION RING TO FIT EXISTING DRAIN BODY.
4. THE EXISTING ROOF DRAIN BODY IS TO REMAIN.
5. P.C. IS TO FURNISH AND INSTALL ALL NEW BOLTS, WASHERS AND/OR COMPONENTS NEEDED TO INSTALL NEW CAST IRON ROOF DRAIN ASSEMBLIES AS DESCRIBED ABOVE.
6. P.C. IS TO REPLACE ANY BROKEN COMPONENTS (DRAIN BOWLS, RINGS, BOLTS, ETC.).
7. EPDM EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
8. SUMP AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.
9. ALL ASSOCIATED ROOF WORK TO BE COMPLETED BY G.C.



1 EXISTING ROOF DRAIN DETAIL

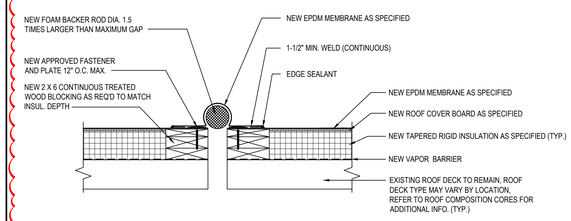
SCALE: N.T.S.



2 EQUIPMENT RAIL DETAIL

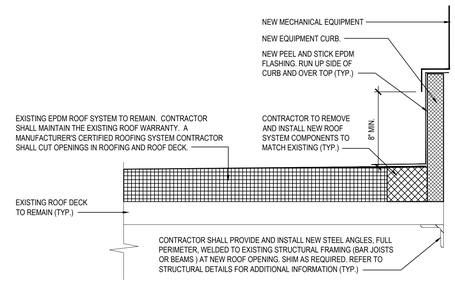
NOTE: PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY GENERAL CONTRACTOR

SCALE: N.T.S.



3 TYPICAL LOW PROFILE EXPANSION JOINT DETAIL

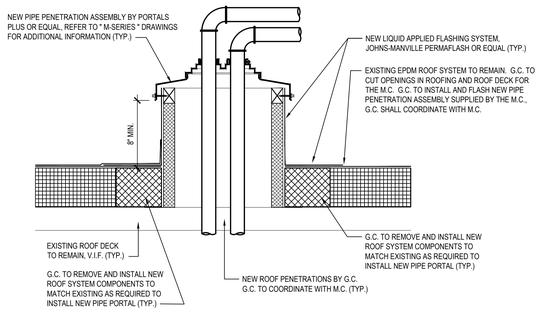
SCALE: N.T.S.



4 TYPICAL ROOF CURB DETAIL

NOTE: PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY GENERAL CONTRACTOR

SCALE: N.T.S.

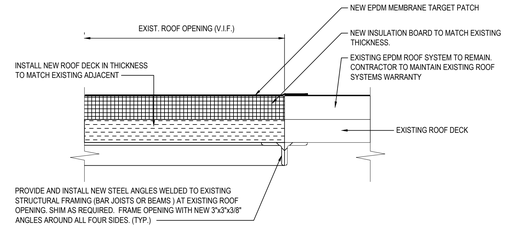


5 PIPE PORTAL DETAIL

NOTE: PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY GENERAL CONTRACTOR

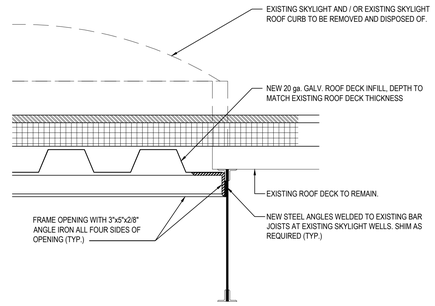
SCALE: N.T.S.

7 NOT USED



8 TYPICAL ROOF DECK INFILL DETAIL

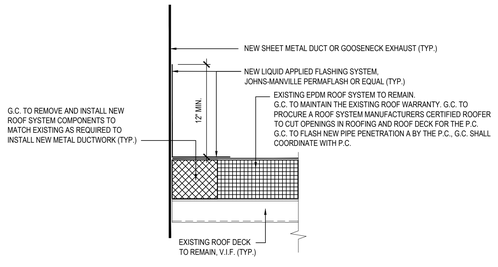
SCALE: N.T.S.



9 TYPICAL SKYLIGHT CLOSURE DETAIL

NOTE: PROVIDED AND INSTALLED BY GENERAL CONTRACTOR

SCALE: N.T.S.



10 TYPICAL SHEET METAL DUCT PENETRATION DETAIL

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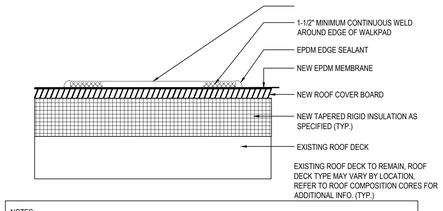
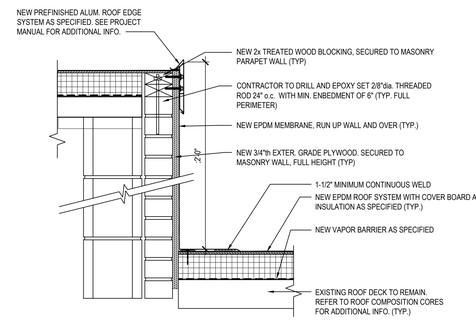


NOTES:

1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. EPDM EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
3. WALKPAD IS NOT INTENDED FOR USE IN HEAVY TRAFFIC AREAS.
4. THE WALKPADS MUST NOT BE INSTALLED OVER FIELD SEAMS AND FASTENER ROWS AND MUST BE GAPPED FROM THESE AREAS A MINIMUM OF 6"

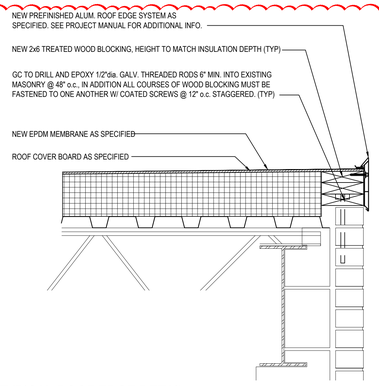
11 TYPICAL ROOF WALKWAY PAD DETAIL

SCALE: N.T.S.



12 TYPICAL LOW TO HIGH ROOF DETAIL

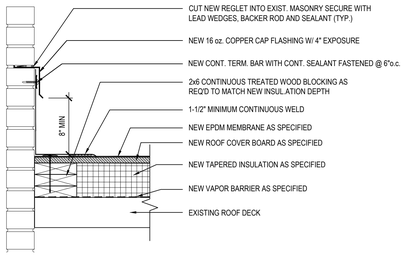
SCALE: N.T.S.



13 TYPICAL ROOF EDGE DETAIL

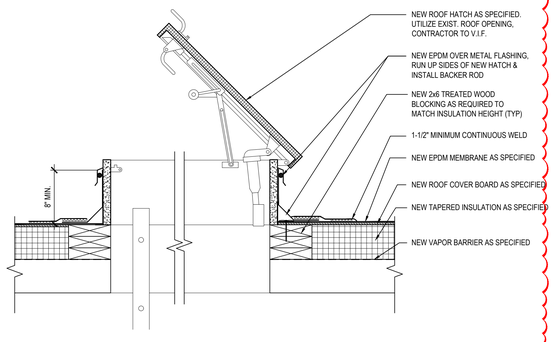
SCALE: N.T.S.

NOTE: TYPICAL AT ALL AREAS OF EXISTING SOLID WALL (NO CAVITY) MASONRY



14 TYPICAL REGLET DETAIL

SCALE: N.T.S.



15 TYPICAL ROOF HATCH DETAIL

SCALE: N.T.S.

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 1

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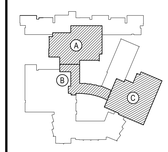

KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: ROOF DETAILS

DRAWING BY:	P.J.H.
CHECK BY:	P.J.H.

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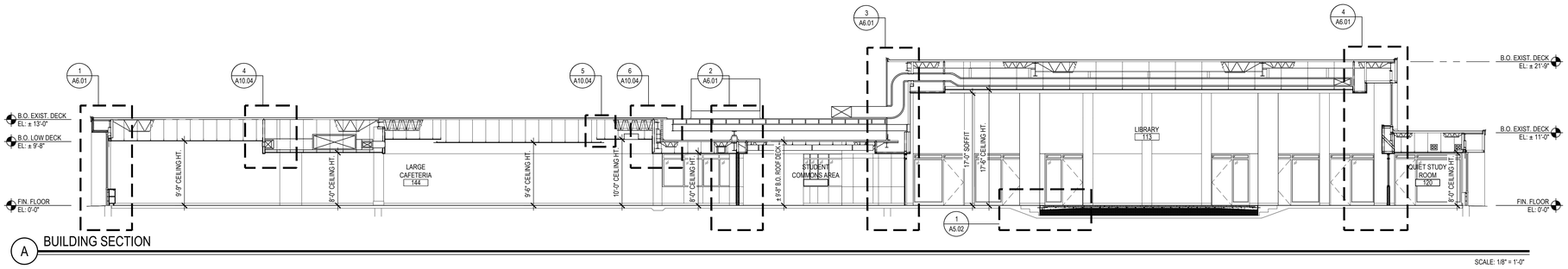
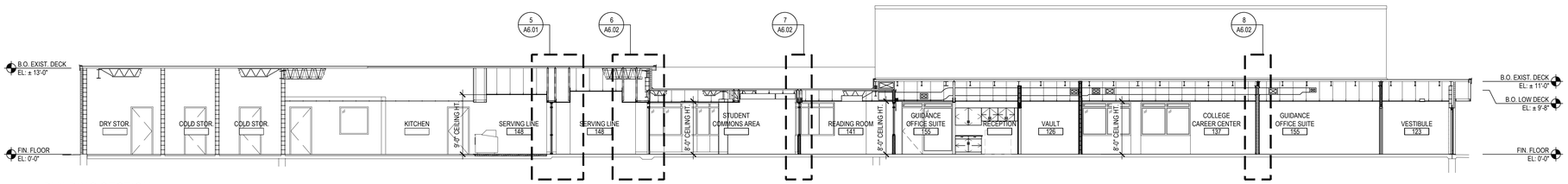
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	ROOF DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A3.03



A BUILDING SECTION

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



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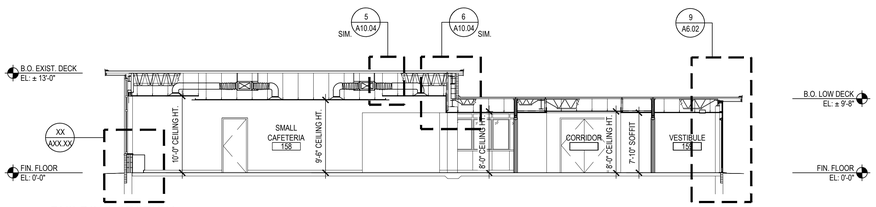

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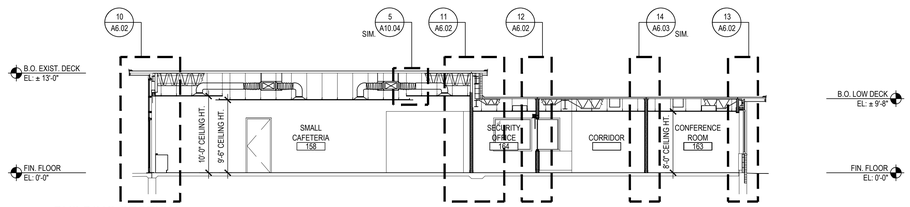
SCALE: 1/8" = 1'-0"



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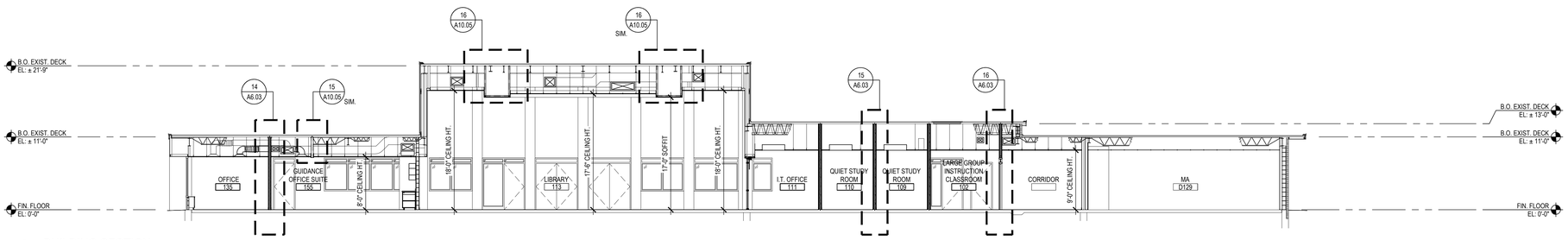

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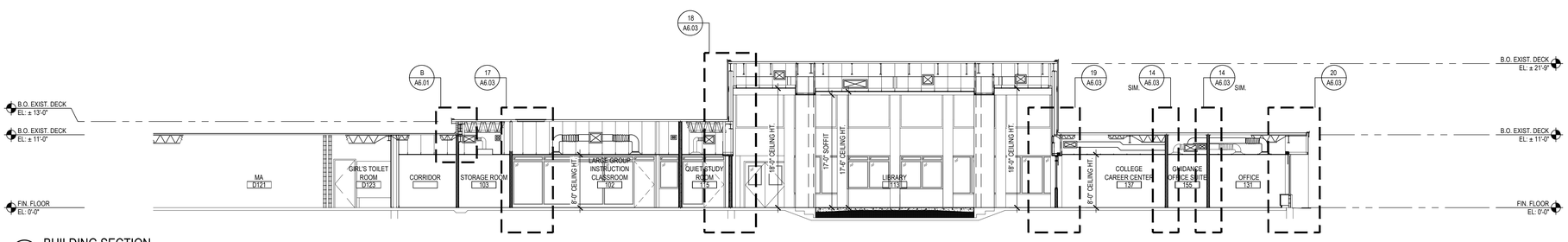
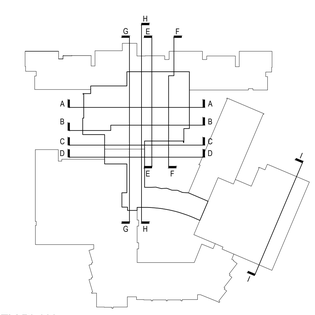


F BUILDING SECTION

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



KEY PLAN

SCALE: N.T.S.

REV.	DATE	ITEM

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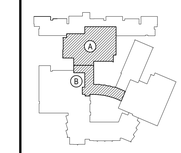

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

BUILDING SECTIONS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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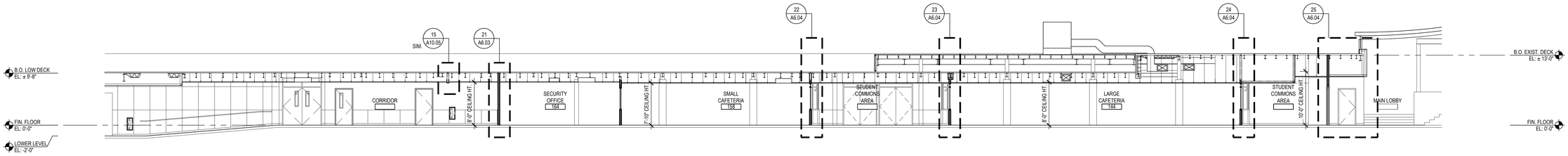
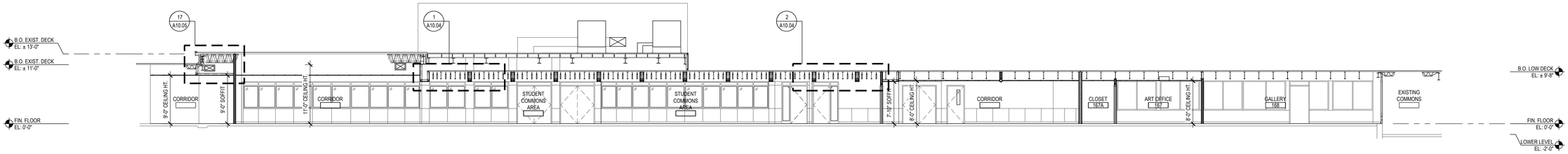
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	BUILDING SECTIONS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A5.01



G BUILDING SECTION

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



H BUILDING SECTION

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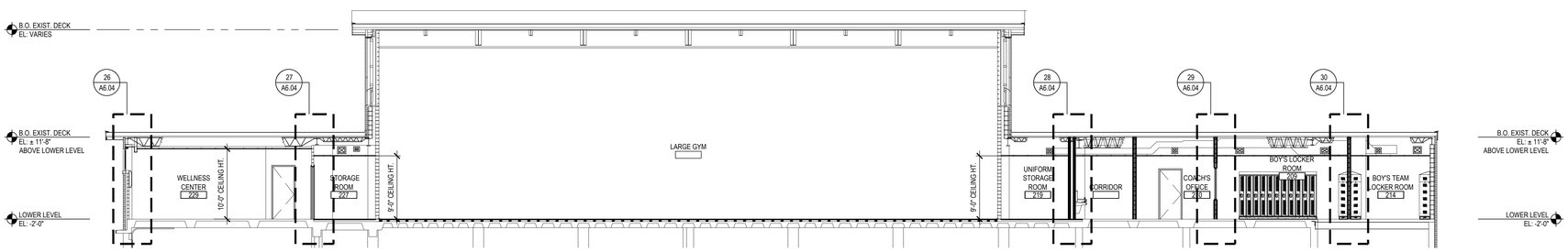
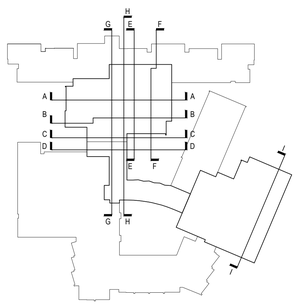


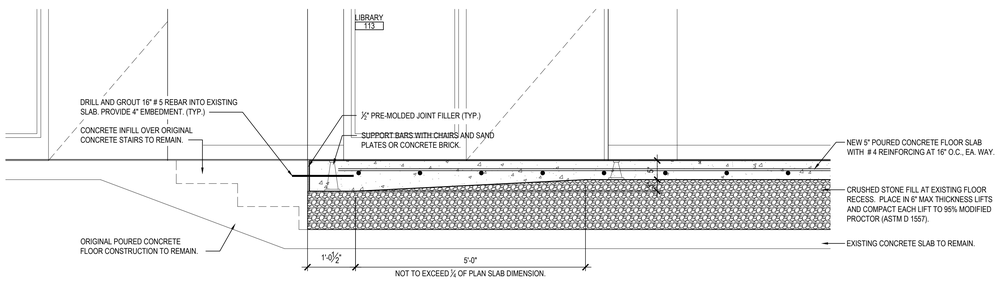
I BUILDING SECTION

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



KEY PLAN

SCALE: N.T.S.



1 SECTION DETAIL

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

BUILDING SECTIONS

DRAWING BY:	P.J.H.
CHECK BY:	P.J.H.

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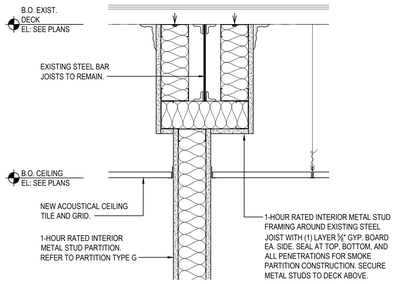
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	BUILDING SECTIONS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

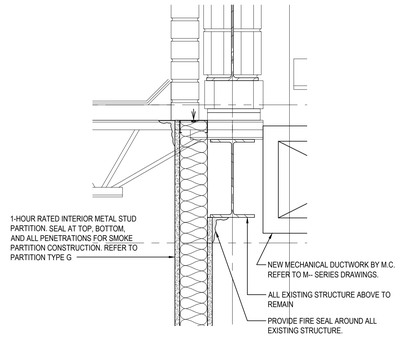
A5.02



A SECTION DETAIL

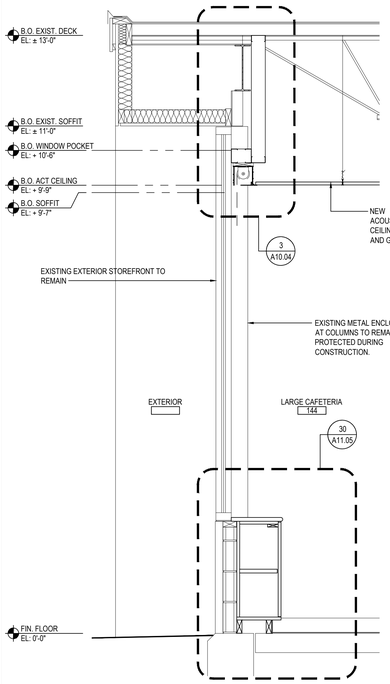
NOTE: AT 1-HOUR FIRE RATED WALL ASSEMBLY LOCATIONS - REFER TO CODE COMPLIANCE PLANS

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



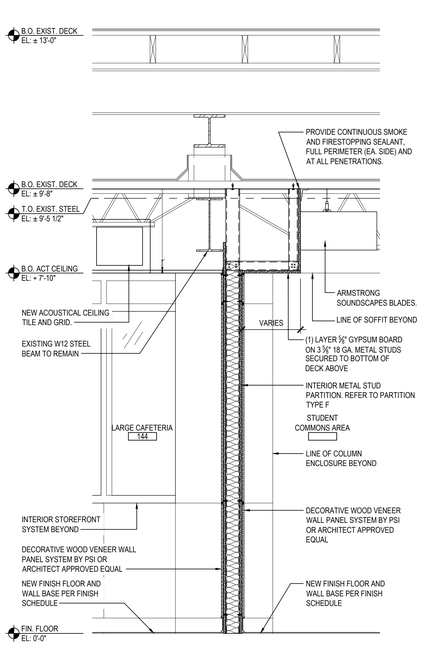
B SECTION DETAIL

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



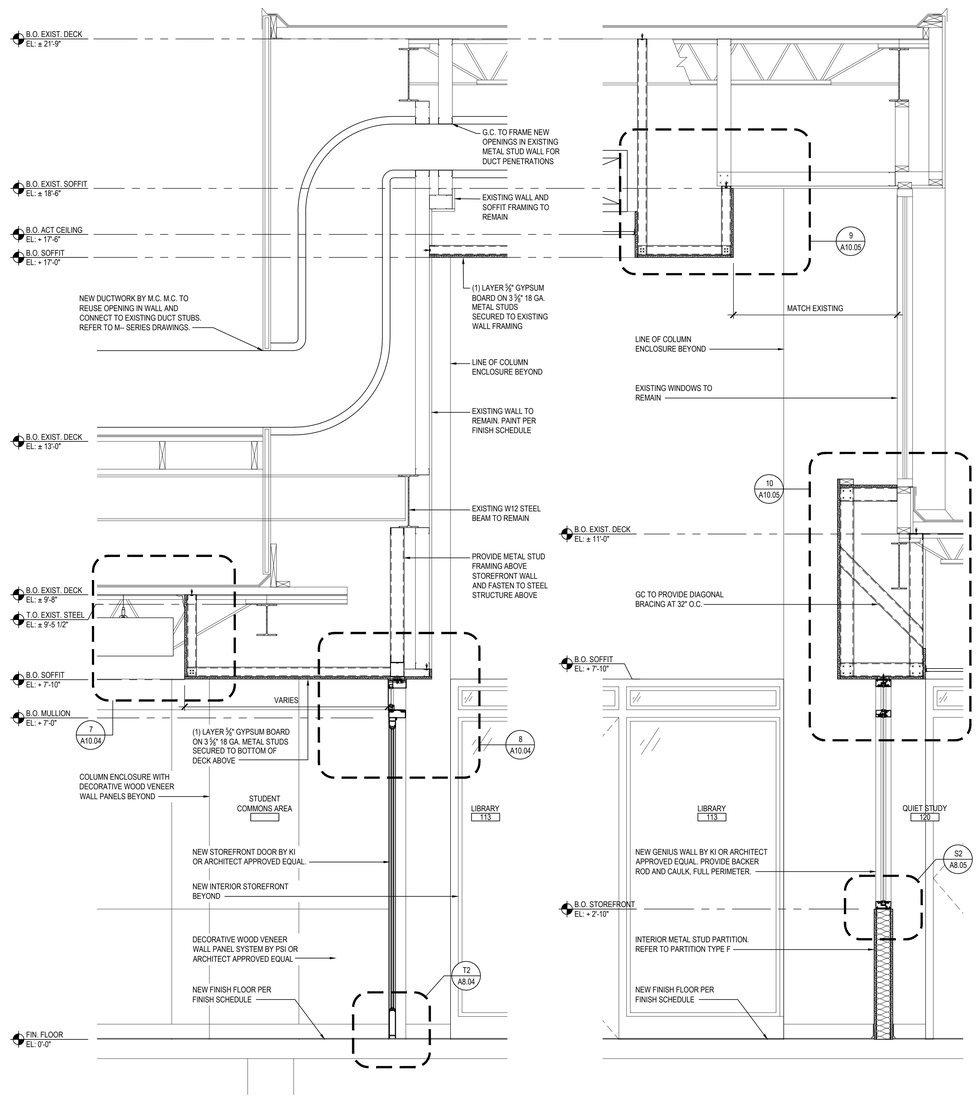
1 WALL SECTION

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



2 WALL SECTION

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

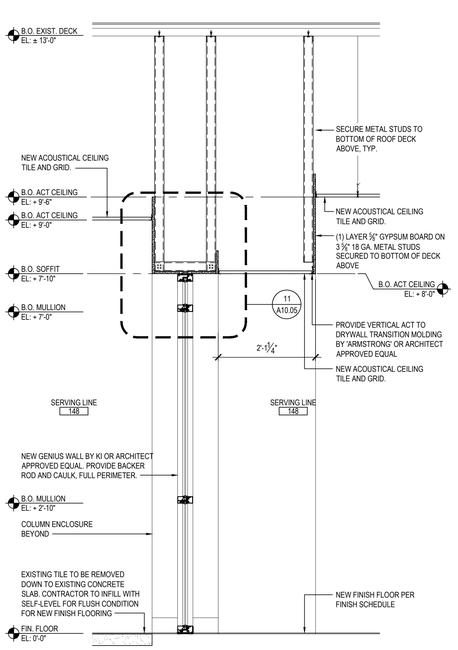


3 WALL SECTION

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

4 WALL SECTION

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



5 WALL SECTION

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

WALL SECTIONS and DETAILS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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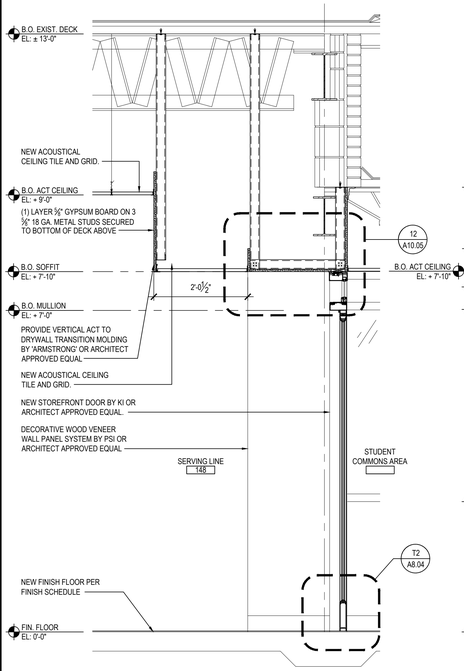
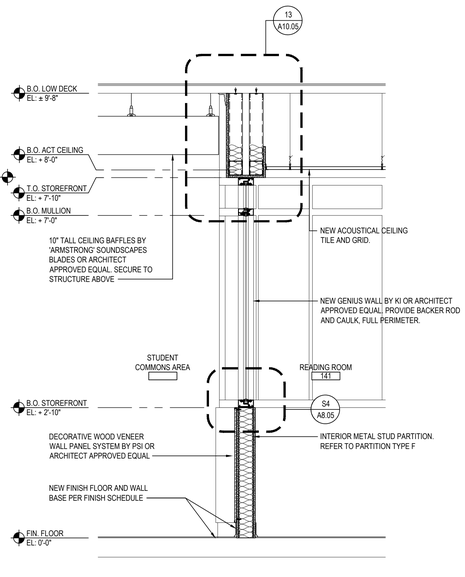
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	WALL SECTIONS and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A6.01



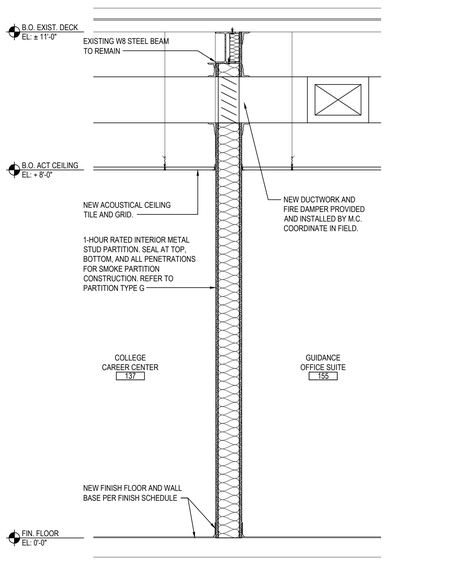
6 WALL SECTION

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



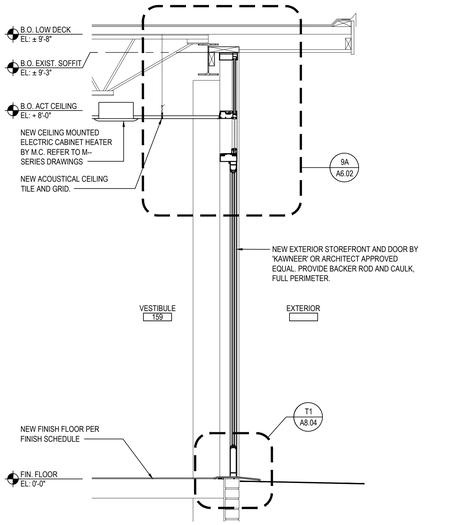
7 WALL SECTION

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



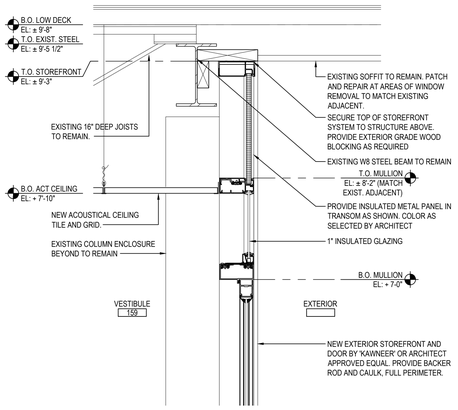
8 WALL SECTION

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



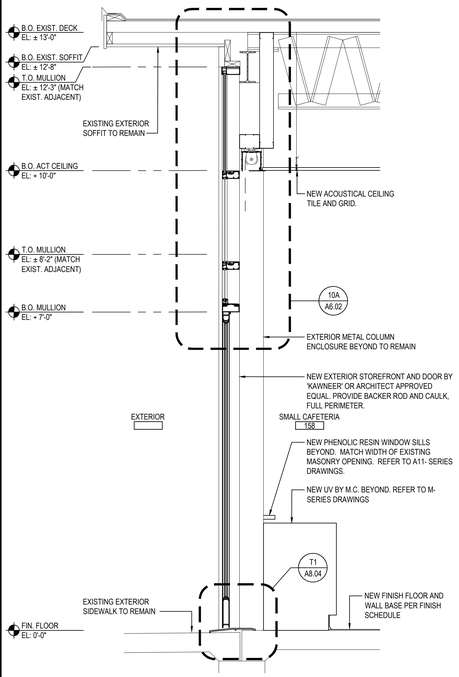
9 WALL SECTION

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



9A SECTION DETAIL

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



10 WALL SECTION

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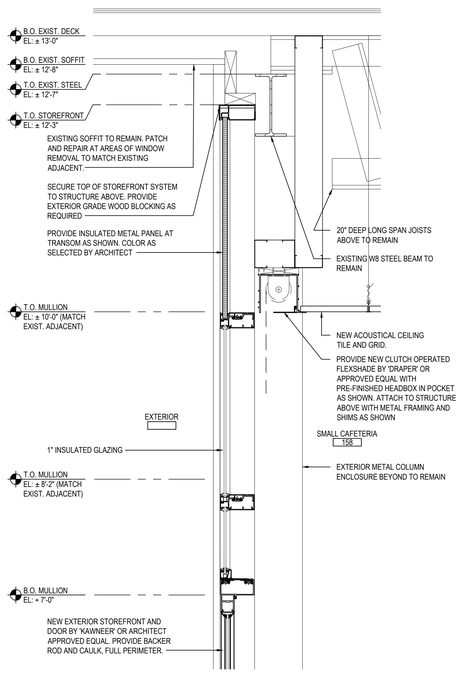
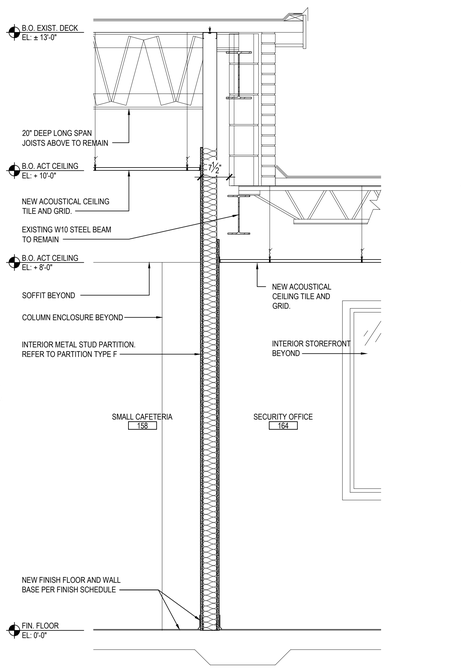


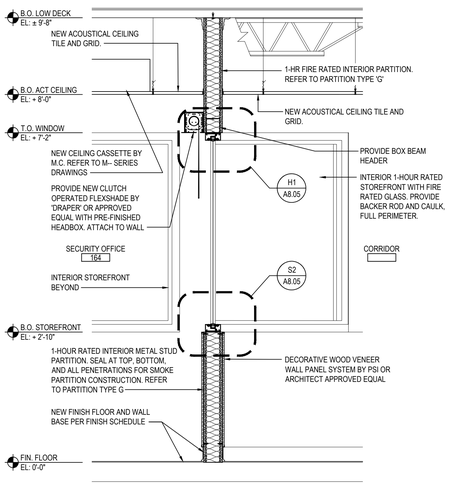
10A SECTION DETAIL

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



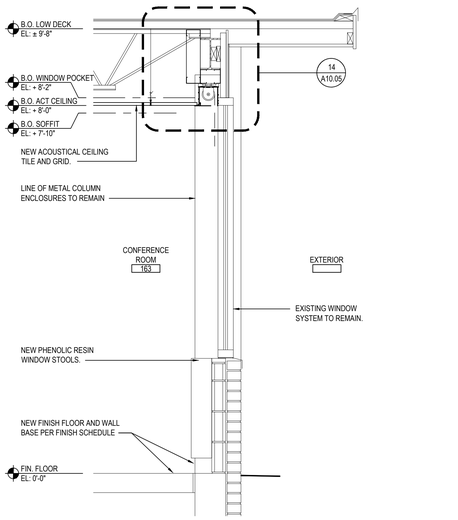
11 WALL SECTION

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



12 WALL SECTION

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



13 WALL SECTION

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

WALL SECTIONS and DETAILS

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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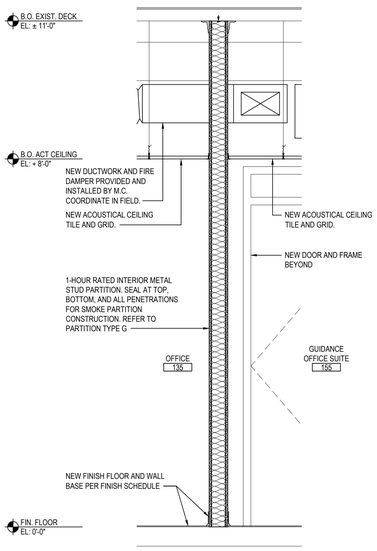
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	WALL SECTIONS and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A6.02



14 WALL SECTION

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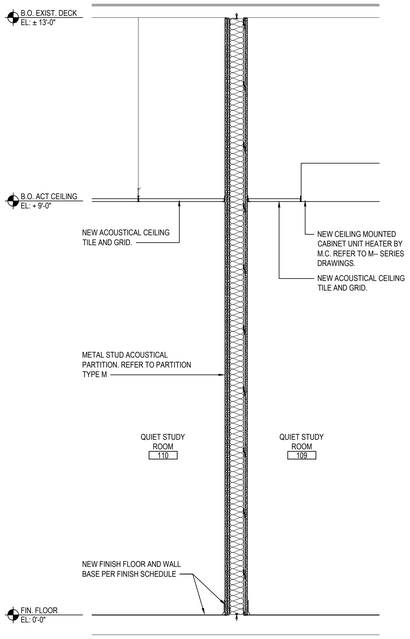

15 WALL SECTION

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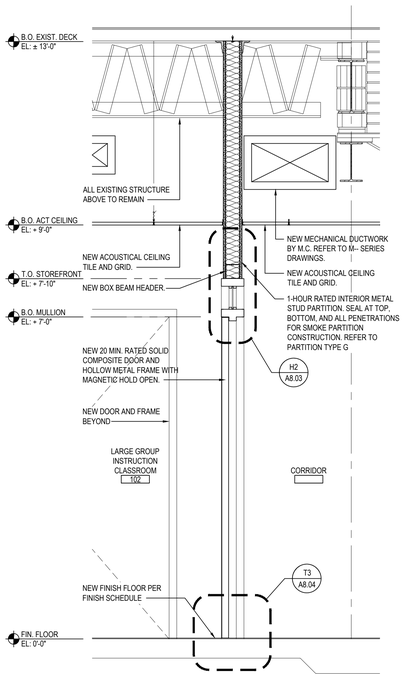

16 WALL SECTION

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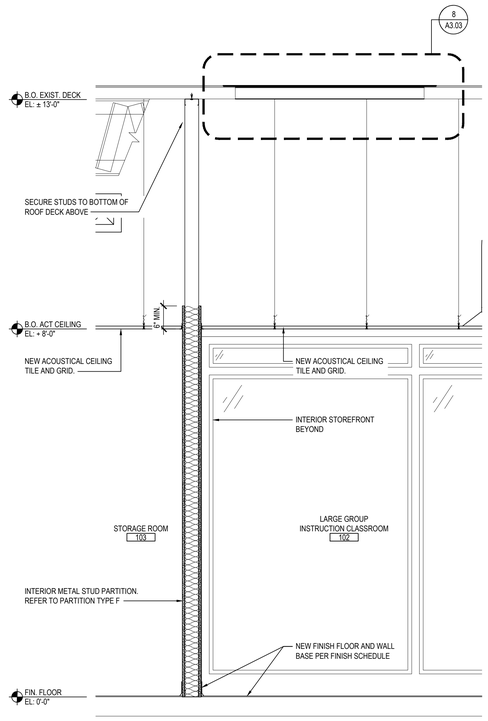
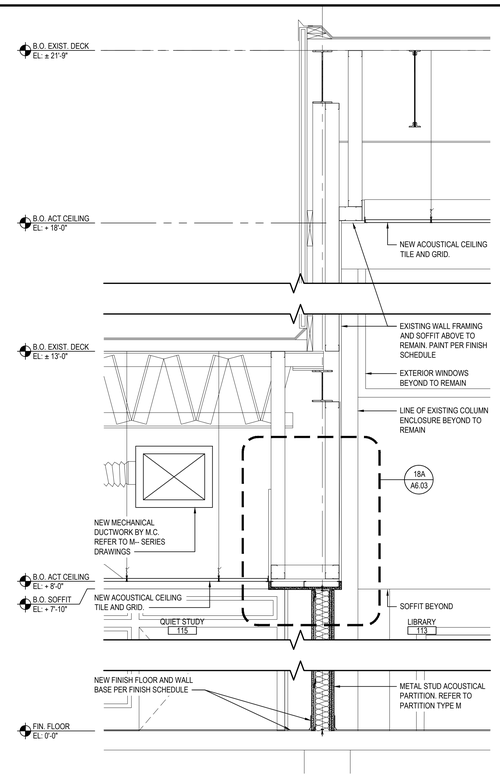


17 WALL SECTION

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



18 WALL SECTION

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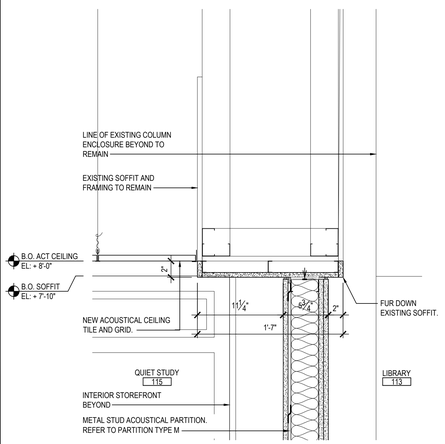
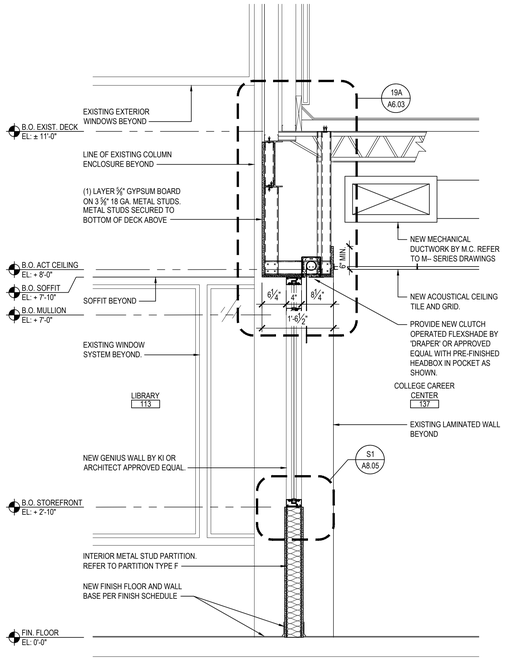


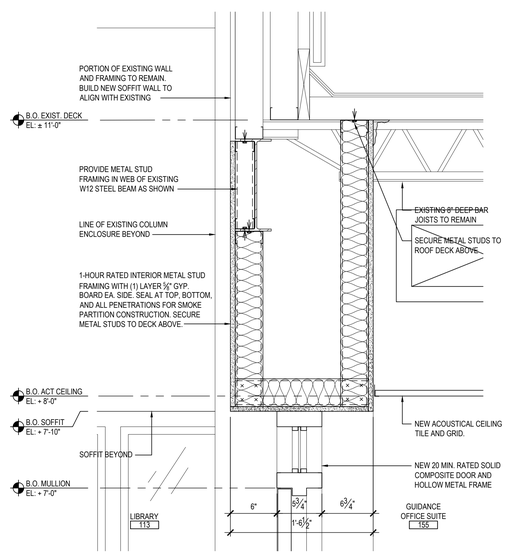
18A SECTION DETAIL

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



19 WALL SECTION

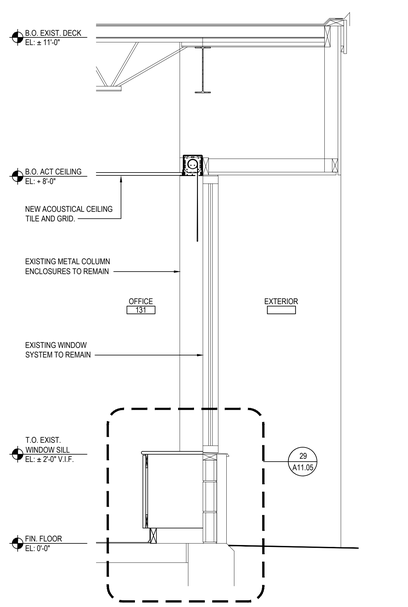
SCALE: 3/4" = 1'-0"



19A SECTION DETAIL

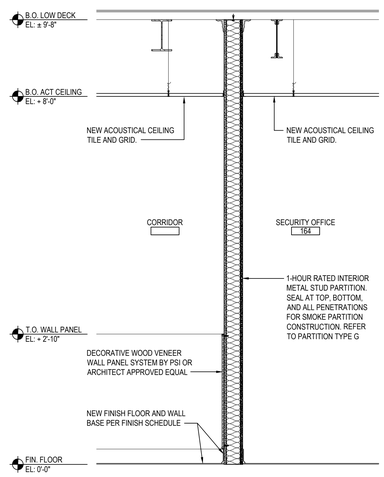
NOTE: AT DOOR 140

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



20 WALL SECTION

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



21 WALL SECTION

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

REV.	DATE	ITEM

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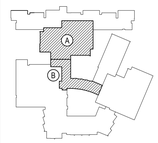

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

WALL SECTIONS and DETAILS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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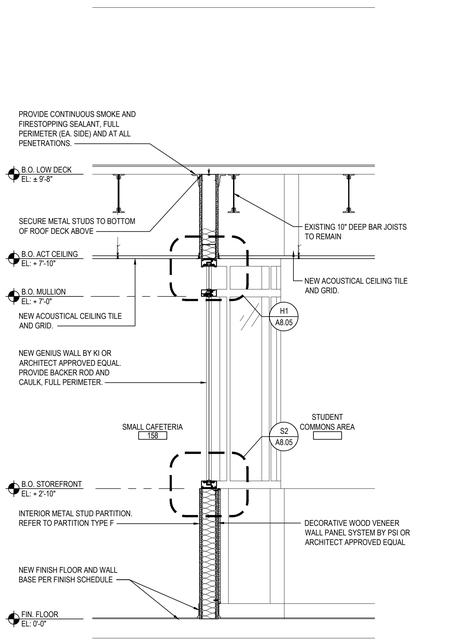
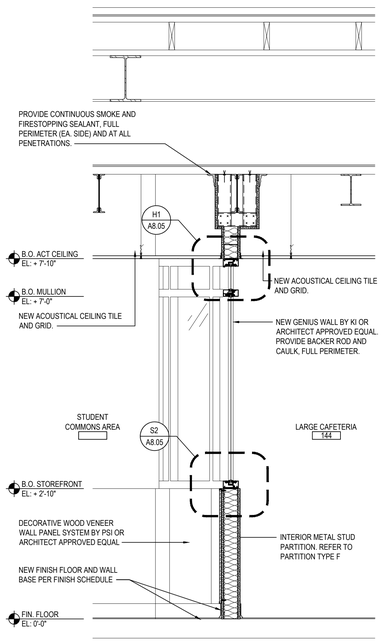
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	WALL SECTIONS and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A6.03



22 WALL SECTION

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



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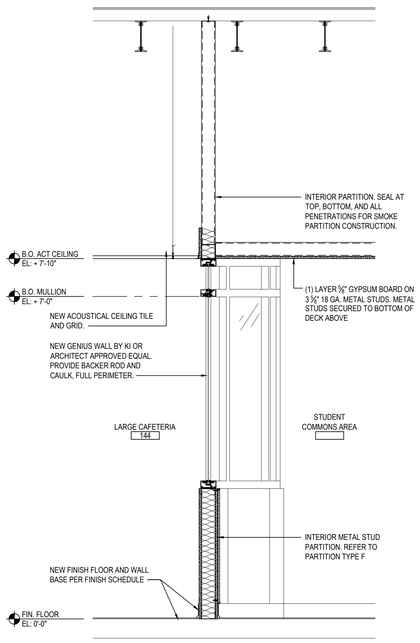
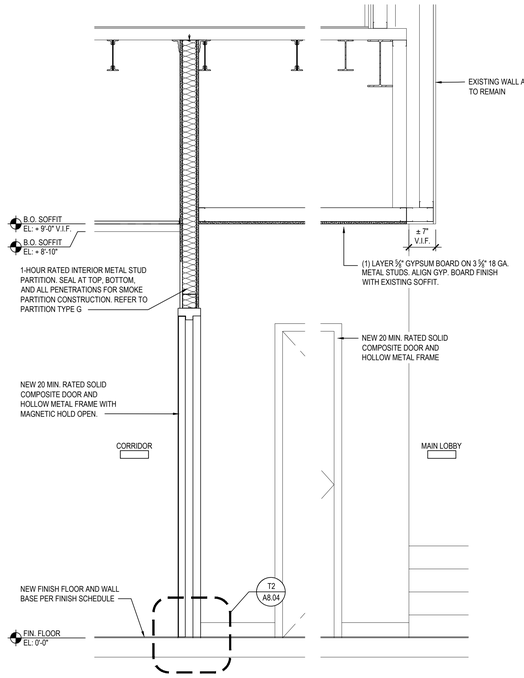
SCALE: 3/4" = 1'-0"



24 WALL SECTION

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



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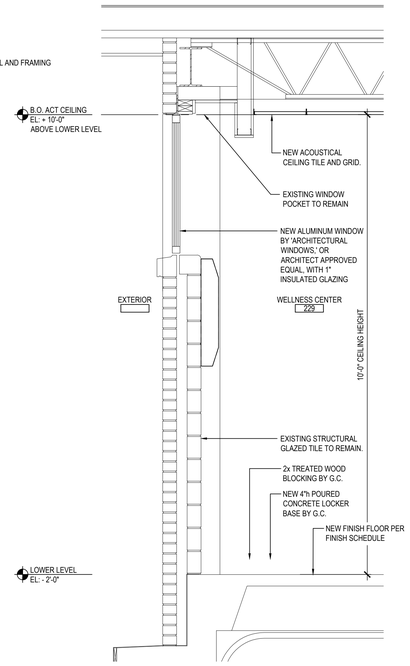
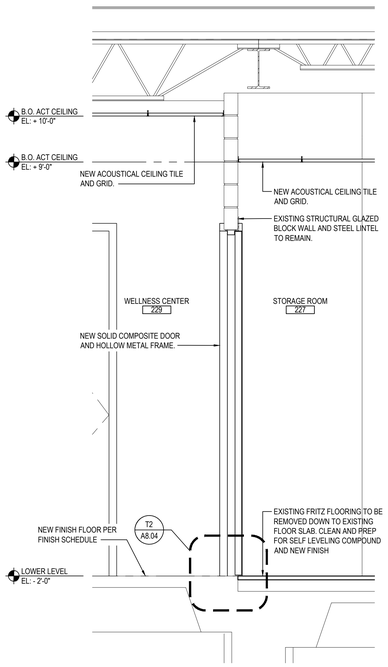
SCALE: 3/4" = 1'-0"



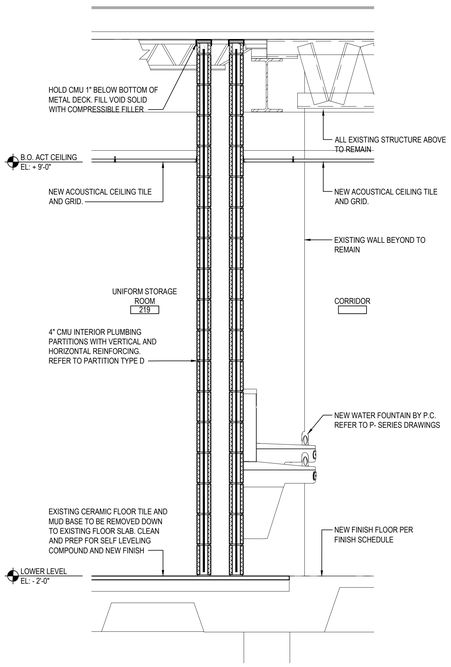
26 WALL SECTION

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



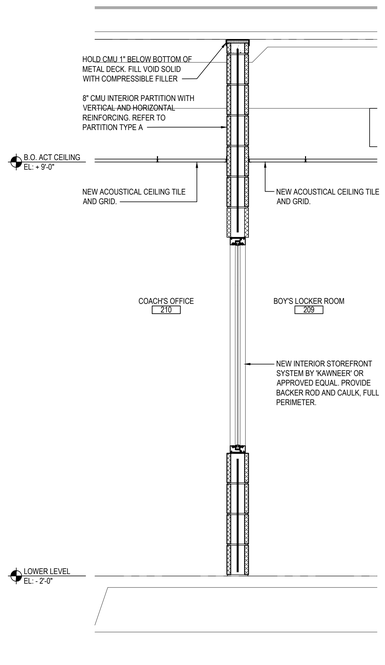
27 WALL SECTION

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



28 WALL SECTION

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



29 WALL SECTION

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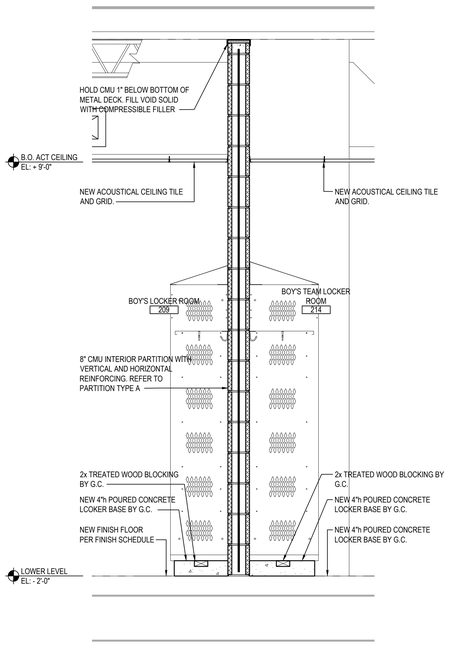

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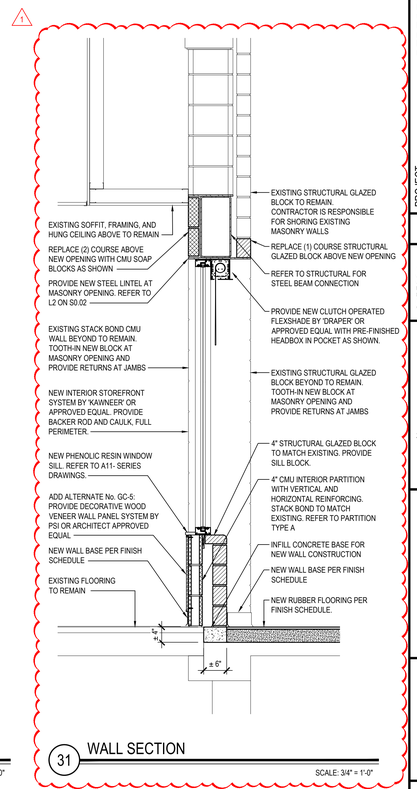
SCALE: 3/4" = 1'-0"



31 WALL SECTION

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

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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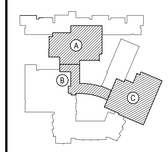

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

WALL SECTIONS and DETAILS

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE WALL SECTIONS and DETAILS

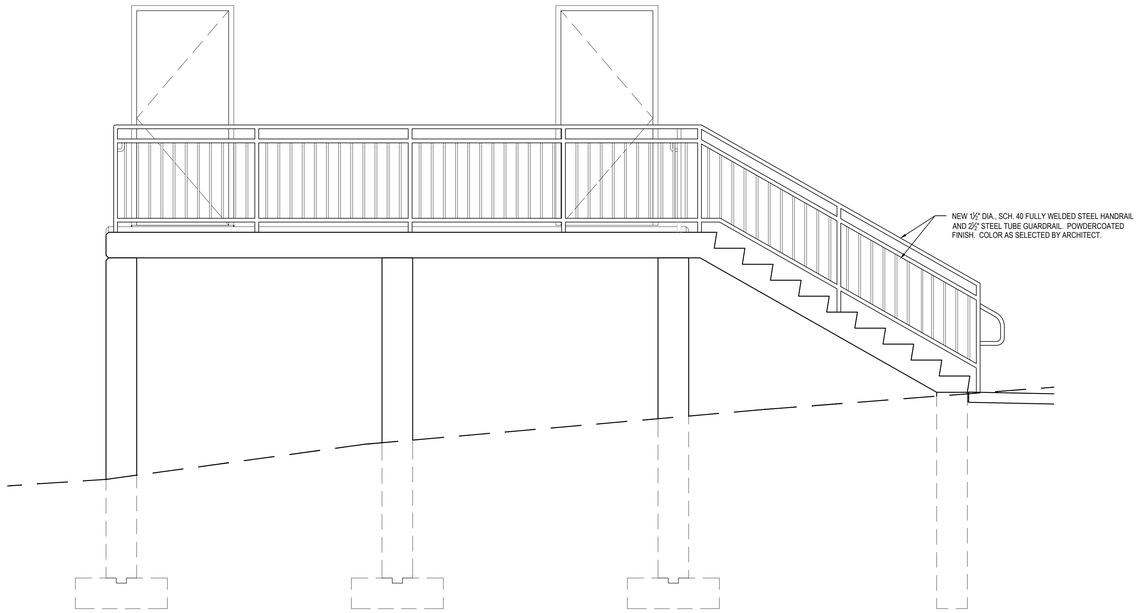
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

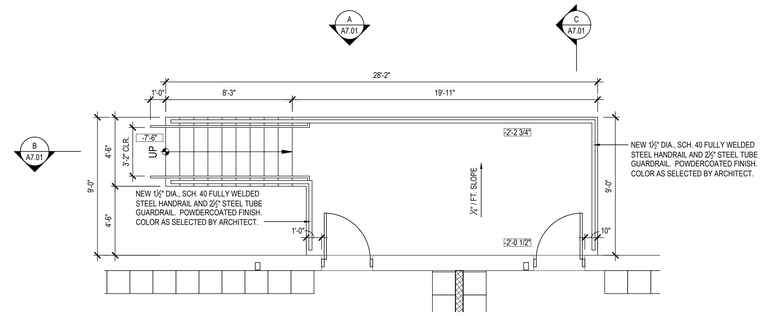
FILE No: 23-131a FLHS

A6.04



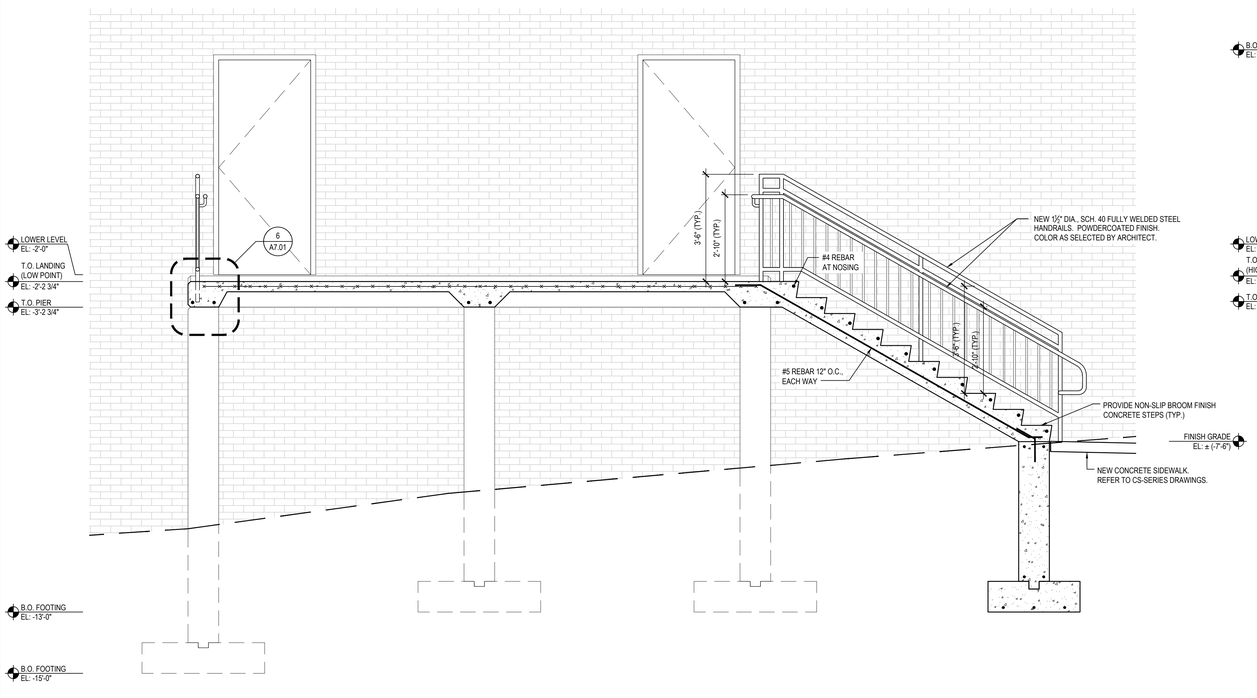
A STAIR ELEVATION

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



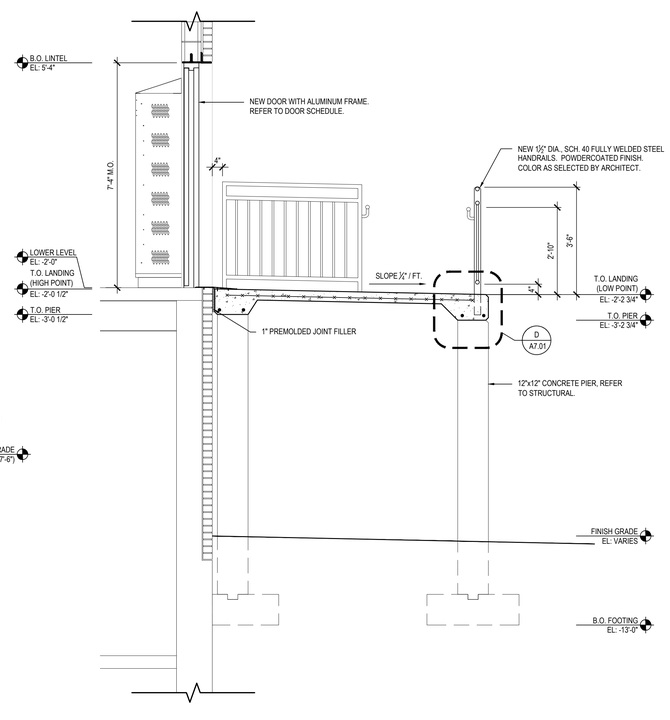
1 ENLARGED STAIR PLAN

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



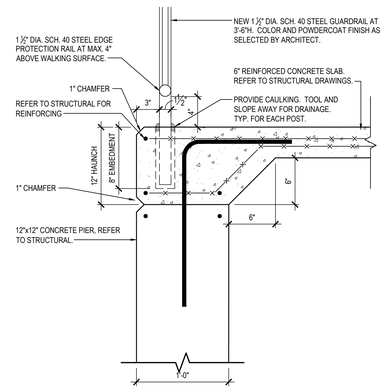
B STAIR SECTION

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



C STAIR / WALL SECTION

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



D SECTION DETAIL

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

REV.	DATE	ITEM

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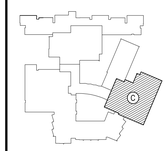

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

ENLARGED STAIR PLAN and DETAILS

DRAWING BY: E.M.

CHECK BY: P.J.H.

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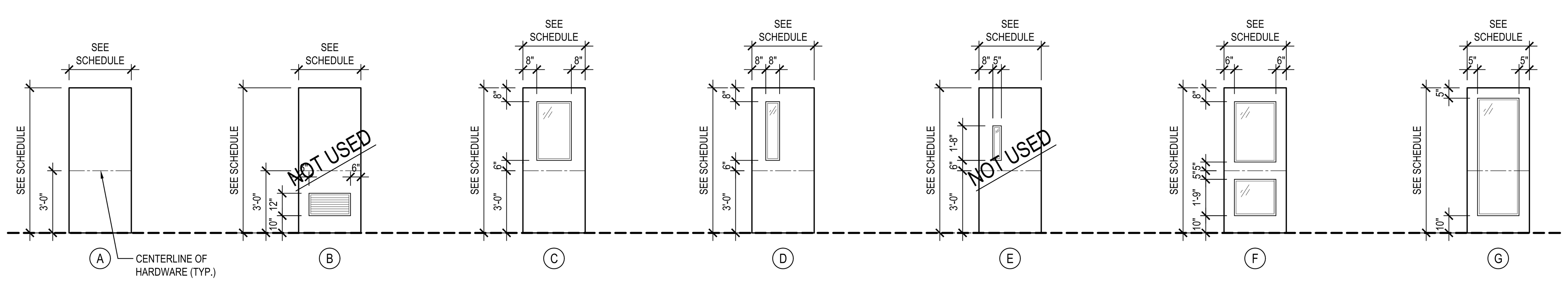
DWG TITLE	ENLARGED STAIR PLAN and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A7.01

DOOR SCHEDULE

AREA	DOOR NO.	LOCATION	SIGNAGE	DOOR LEAVES	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR ELEV. TYPE	DOOR MAT.	DOOR GLAZING	FRAME TYPE.	FRAME MAT.	FRAME GLAZING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	DETAIL T'HOLD	FIRE RATING	REMARKS	DOOR NO.
AREA 'A'	100a	CROSS-CORRIDOR DOORS	- - -	2	3'-0"	7'-0"	1 3/4"	F	SCLCMV	F.G.	F2	H.M.	- - -	14A	H1	J1	~~	T2	20 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES IN CLOSERS.	100a
	100b	CROSS-CORRIDOR DOORS	- - -	2	3'-0"	7'-0"	1 3/4"	F	SCLCMV	F.G.	F2	H.M.	- - -	14A	H1	J1	~~	T2	20 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES IN CLOSERS.	100b
	100c	CROSS-CORRIDOR DOORS	- - -	2	3'-0"	7'-0"	1 3/4"	F	SCLCMV	F.G.	F2	H.M.	- - -	14A	H1	J1	~~	T2	20 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES IN CLOSERS.	100c
	101	NOT USED																			101
	102	LARGE GROUP INST. CLASSRM.	A	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	SF-1	H.M.	F.L.P.	05A	H2	J1	~~	T3	20 MIN.		102
	103	STORAGE ROOM No. 103	B	1	3'-0"	7'-0"	1 3/4"	A	MCMV	- - -	F1	H.M.	- - -	8	H1	J1	~~	T2	45 MIN.		103
	104	STORAGE ROOM No. 104	B	1	3'-0"	7'-0"	1 3/4"	A	MCMV	- - -	F1	H.M.	- - -	8	H1	J1	~~	T4	45 MIN.		104
	105	STORAGE ROOM No. 105	B	1	3'-0"	7'-0"	1 3/4"	A	MCMV	- - -	F1	H.M.	- - -	8	H1	J1	~~	T4	45 MIN.		105
	106	CLASSROOM No. 106	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-2	ALUM.	TEMP.	06A	H1/A8.05	J4	~~	T3	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	106
	107	CLASSROOM No. 107	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-7	ALUM.	TEMP.	06A	H1/A8.05	J5	~~	T4	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	107
	108	CLASSROOM No. 107	A	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	5	H1	J1	~~	T3	20 MIN.		108
	109	QUIET STUDY ROOM No. 109	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-3	ALUM.	TEMP.	2	H1/A8.05	J5	~~	T4	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	109
	110	QUIET STUDY ROOM No. 110	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-4	ALUM.	TEMP.	2	H1/A8.05	J5	~~	T4	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	110
	111	I.T. OFFICE No. 111	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-6	ALUM.	TEMP.	6	H3/A8.05	J6	~~	T3	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	111
	112	CLASSROOM No. 106	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-6	ALUM.	TEMP.	6	H3/A8.05	J6	~~	T2	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	112
	113	LIBRARY No. 113	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-18	ALUM.	TEMP.	6	H1/A8.05	J4	~~	T3	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	113
	114	QUIET STUDY ROOM No. 114	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-5	ALUM.	TEMP.	04A	H1/A8.05	J6	~~	T3	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	114
	115	QUIET STUDY ROOM No. 115	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-5	ALUM.	TEMP.	04A	H1/A8.05	J6	~~	T3	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	115
	116	LIBRARY No. 113	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-18	ALUM.	TEMP.	6	H1/A8.05	J4	~~	T3	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	116
	117	L.M.S. OFFICE	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-6	ALUM.	TEMP.	02A	H3/A8.05	J6	~~	T3	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	117
	118	SENSORY ROOM No. 118	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-6	ALUM.	TEMP.	02A	H3/A8.05	J6	~~	T3	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL' AND BLACKOUT SHADES.	118
	119	EXTERIOR	- - -	2	3'-0"	7'-0"	1 3/4"	C	FRP	INSUL.	F2	ALUM.	- - -	20	H7	J13	~~	T1	- - -		119
	120	QUIET STUDY ROOM No. 120	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-8	ALUM.	TEMP.	2	H1/A8.05	J6	~~	T4	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	120
	121	QUIET STUDY ROOM No. 121	A	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-8	ALUM.	TEMP.	2	H1/A8.05	J6	~~	T4	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL'	121
	122	NOT USED																			122
	123	VESTIBULE	- - -	1	3'-0"	7'-0"	1 3/4"	C	SCLCMV	F.G.	F1	H.M.	- - -	1	H1	J1	~~	T3	20 MIN.		123
	124	EXTERIOR	- - -	2	3'-0"	7'-0"	1 3/4"	C	FRP	INSUL.	F2	ALUM.	- - -	20	H7	J12	~~	T1	- - -		124
	125	COUNSELOR'S OFFICE No. 125	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		125
	126	VAULT No. 126	B	1	3'-0"	7'-0"	1 3/4"	A	H.M.	- - -	F1	H.M.	- - -	10	H4	J8	~~	T2	45 MIN.		126
	127	NOT USED																			127
	128	DIRECTOR'S OFFICE No. 128	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		128
	129	OFFICE No. 129	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		129
	130	OFFICE No. 130	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		130
	131	OFFICE No. 131	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		131
	132	OFFICE No. 132	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		132
	133	OFFICE No. 133	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		133
	134	OFFICE No. 134	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		134
	135	OFFICE No. 135	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		135
	136	OFFICE No. 136	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	4	H1	J1	~~	T3	20 MIN.		136
	137	COLLEGE CAREER CENTER No. 137	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	SF-13	H.M.	F.L.P.	4	H2	J1	~~	T2	20 MIN.		137
	138	I.T. CLOSET No. 138	B	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	08B	H1	J1	~~	T13	20 MIN.		138
	139	NOT USED																			139
	140	LIBRARY No. 113	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	F.G.	SF-6	ALUM.	F.L.P.	6	H3/A8.05	J7	~~	T2	20 MIN.		140
	141	READING ROOM No. 141	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	TEMP.	SF-6	ALUM.	TEMP.	06A	H3/A8.05	J6	~~	T2	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL' WITH TRANSOM PNL.	141
	142	LIBRARY NO. 113	B	2	3'-0"	7'-0"	1 3/4"	F	ALUM.	TEMP.	F3	ALUM.	- - -	15	H3/A8.05	J6	~~	T2	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL' AND MHO DEVICES.	142
	143	LIBRARY No. 113	B	2	3'-0"	7'-0"	1 3/4"	F	ALUM.	TEMP.	F3	ALUM.	- - -	15	H3/A8.05	J6	~~	T2	- - -	PROVIDE GENIUS DOOR AND FRAME BY 'KI WALL' AND MHO DEVICES.	143
	144	LARGE CAFETERIA No. 144	B	2	3'-0"	7'-0"	1 3/4"	F	ALUM.	TEMP.	SF-10	ALUM.	TEMP.	17	H3/A8.05	J4/A8.05	~~	T2	- - -	PROVIDE GENIUS DOOR AND FRAME AND MHO DEVICES IN CLOSERS.	144
	145	STORAGE ROOM	B	1	3'-0" V.I..F	7'-0" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	08C	~~	~~	~~	T11	45 MIN.		145
	145a	FACULTY CAFETERIA No. D140	B	1	3'-0" V.I..F	7'-0" V.I.F.	1 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	05A	~~	~~	~~	T11	- - -		145a
	146	STORAGE ROOM	B	1	3'-0" V.I..F	7'-0" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	08C	~~	~~	~~	T11	45 MIN.		146
	147	KITCHEN	B	1	3'-0" V.I..F	8'-0" V.I.F.	1 3/4"	D	MCMV	F.L.P.	E.T.R.	E.T.R.	- - -	05A	~~	~~	~~	T10	45 MIN.		147
	148	SERVING LINE No. 148	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	F.L.P.	SF-11	ALUM.	F.L.P.	05E	H3/A8.05	J7	~~	T2	45 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES IN CLOSERS.	148
	149	SERVING LINE No. 148	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	F.L.P.	SF-11	ALUM.	F.L.P.	05E	H3/A8.05	J7	~~	T2	45 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES IN CLOSERS.	149
	150	SERVING LINE No. 148	B	2	3'-0"	7'-0"	1 3/4"	F	ALUM.	TEMP.	SF-9	ALUM.	TEMP.	17	H3/A8.05	J3 SIM.	~~	T2	- - -	PROVIDE GENIUS DOOR AND FRAME AND MHO DEVICES IN CLOSERS.	150
	151	SERVING LINE No. 148	B	2	3'-0"	7'-0"	1 3/4"	F	ALUM.	TEMP.	SF-9	ALUM.	TEMP.	17	H3/A8.05	J3 SIM.	~~	T2	- - -	PROVIDE GENIUS DOOR AND FRAME AND MHO DEVICES IN CLOSERS.	151
	152	SERVING LINE No. 148	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	F.L.P.	SF-11 OPP.	ALUM.	F.L.P.	05E	H3/A8.05	J7	~~	T2	45 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES IN CLOSERS.	152
	153	SERVING LINE No. 148	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	F.L.P.	SF-11 OPP.	ALUM.	F.L.P.	05E	H3/A8.05	J7	~~	T2	45 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES IN CLOSERS.	153
	154	KITCHEN	B	1	3'-0" V.I..F	8'-0" V.I.F.	1 3/4"	D	MCMV	F.L.P.	E.T.R.	E.T.R.	- - -	05A	~~	~~	~~	T10	45 MIN.		154
	155	GUIDANCE OFFICE SUITE No. 155	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	F.G.	SF-19	ALUM.	F.L.P.	6	H3/A8.05	J3	~~	T2	20 MIN.		155
	156	YEARBOOK OFFICE No. 156	B	1	3'-0"	7'-0"	1 3/4"	G	ALUM.	F.L.P.	SF-13	ALUM.	F.L.P.	06A	H1/A8.05	J5 SIM.	~~	T3	45 MIN.		156
	157	CROSS-CORRIDOR DOORS	- - -	2	3'-0"	7'-0"	1 3/4"	C	SCLCMV	F.G.	F2	H.M.	- - -	14	H1	J2 SIM.	~~	T2	20 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES.	157
	158	SMALL CAFETERIA No. 158	B	2	3'-0"	7'-0"	1 3/4"	G	ALUM.	F.G.	F2	ALUM.	- - -	16	H3	J3 SIM.	~~	T2	20 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES.	158
	159	VESTIBULE	- - -	2	3'-0"	7'-0"	1 3/4"	C	SCLCMV	F.G.	F2	H.M.	- - -	13	H1	J2	~~	T3	20 MIN.		159
	160	EXTERIOR	- - -	2	3'-0"	7'-0"	1 3/4"	C	FRP	INSUL.	SF-14	ALUM.	INSUL.	20	9A/A6.02	J14	~~	T1	- - -		160
	161	SMALL CAFETERIA EXTERIOR	- - -	2	3'-0"	7'-0"	1 3/4"	F	FRP	INSUL.	SF-15	ALUM.	INSUL.	19	10A/A6.02	J14 SIM.	~~	T1	- - -		161
	162	CAFETERIA CLOSET	- - -	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	08D	H5	J9	~~	T11	- - -		162
		SEE 'AREA B' FOR DOORS 163 THROUGH 171.																			
	172	TOILET ROOM	D	1	3'-0" V.I..F	7'-0" V.I.F.	3 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	03B	~~	~~	~~	T12	20 MIN.		172
	173	TOILET ROOM	D	1	3'-0" V.I..F	7'-0" V.I.F.	3 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	03B	~~	~~	~~	T12	20 MIN.		173
	174	COPY ROOM	B	1	3'-0" V.I..F	7'-0" V.I.F.	2 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	05C	~~	~~	~~	T11	20 MIN.		174
	175	CUSTODIAL CLOSET	B	1	3'-0" V.I..F	7'-0" V.I.F.	1 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	08G	~~	~~	~~	T11	20 MIN.	REVERSE SWING.	175
AREA 'B'	163	CONFERENCE ROOM No. 163	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	SF-13	H.M.	- - -	5	H2	J2	~~	T3	20 MIN.		163
	164	SECURITY OFFICE No. 164	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	05B	H1	J2	~~	T3	20 MIN.		164
	165	ART OFFICE CLOSET	- - -	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	08A	H1	J1	~~	T4	- - -		165
	166	ART DIRECTOR'S OFFICE No. 165	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	TEMP.	SF-13	H.M.	TEMP.	4	H2	J1	~~	T4	- - -		166
	167	ART OFFICE No. 167	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	SF-13	H.M.	- - -	5	H2	J2	~~	T3	20 MIN.		167
	168	GALLERY No. 168	B	2	3'-0"	7'-0"	1 3/4"	C	SCLCMV	F.G.	F2	H.M.	- - -	7	H1	J2	~~	T2	20 MIN.		168
	168a	GALLERY CLOSET	- - -	2	2'-7"	7'-0"	1 3/4"	A	SCLCMV	- - -	F2	H.M.	- - -	9	H1	J1	~~	T2	- - -		168a
	169	CROSS-CORRIDOR DOORS	- - -	2	3'-0" V.I..F	7'-0" V.I.F.	1 3/4"	D	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	14	~~	~~	~~	T11	20 MIN.	PROVIDE MAGNETIC HOLD OPEN DEVICES.	169
	170	SCHOOL STORE	B	1	3'-0" V.I..F	7'-0" V.I.F.	1 3/4"	D	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	05C	~~	~~	~~	T11	20 MIN.		170
	171	STORAGE CLOSET	B	1	3'-0" V.I..F	7'-0" V.I.F.	1 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	08E	~~	~~	~~	T11	20 MIN.		171



DOOR TYPE ELEVATIONS

NOTE: REFER TO DOOR SCHEDULE FOR DOOR MATERIAL AND GLAZING TYPE (WHERE APPLICABLE).

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

ABBREVIATION LEGEND

ALUM.	ALUMINUM	S.F.	SECURITY FILM
S.C.L.C.O.V.	SOLID COMPOSITE LUMBER CORE OAK VENEER	SG-1	5/16" SHOOTER ATTACK GLAZING
M.C.O.V.	MINERAL CORE OAK VENEER	SG-2	1" INSULATED SHOOTER ATTACK GLAZING
S.C.L.C.M.V.	SOLID COMPOSITE LUMBER CORE MAPLE VENEER	SG-3	20 MIN. RATED SHOOTER ATTACK GLAZING
M.C.M.V.	MINERAL CORE MAPLE VENEER	SG-4	45 MIN. RATED SHOOTER ATTACK GLAZING
F.R.P.	FIBERGLASS REINFORCED POLYESTER	SG-5	60 MIN. SHOOTER ATTACK GLAZING
H.M.	HOLLOW METAL	SG-6	90 MIN. SHOOTER ATTACK GLAZING
F.G.	1/4" FIREGLASS 20	BRG-L1	LEVEL 1 BULLET RESISTANT GLAZING
F.L.P.	5/16" FIRE-LITE PLUS	BRG-L2	LEVEL 2 BULLET RESISTANT GLAZING
PYRO	PYROSTOP GLAZING	BRG-L3	LEVEL 3 BULLET RESISTANT GLAZING
INSUL.	1" INSULATED GLAZING	SGP-L1	LEVEL 1 BULLET RESISTANT SECURITY PANEL
S.L.	1/4" SAFETY LAMINATED GLAZING	SGP-L2	LEVEL 2 BULLET RESISTANT SECURITY PANEL
OBSC.	OBSCURE GLAZING	SGP-L3	LEVEL 3 BULLET RESISTANT SECURITY PANEL
U.O.N.	UNLESS OTHERWISE NOTED	TEMP	1/4" TEMPERED GLAZING

DOOR NOTES

1. ALL DOORS, FRAMES AND HARDWARE SHALL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. GENERAL CONTRACTOR SHALL COORDINATE ALL KEYING WITH OWNER.
3. FIRE RATED WOOD DOORS (45 MIN. AND ABOVE ONLY) SHALL HAVE SOLID MINERAL CORE, ALL OTHER WOOD DOORS SHALL HAVE SOLID COMPOSITE LUMBER CORE.
4. FLUSH WOOD DOORS SHALL BE 5 PLY LAMINATED FACE SHEETS WITH 2 PLY FINISH VENEER OVER SPECIFIED CORE. AT FIRE RATED DOORS, TOP AND BOTTOM RAILS AND STILES SHALL BE FIRE RESISTANT COMPOSITION MATERIAL BONDED TO CORE. PROVIDE SOLID BLOCKING FOR CLOSER AND HARDWARE. REFER TO SPECIFICATION SECTION 081416.
5. FLUSH WOOD DOORS AS MANUFACTURED BY 'VT INDUSTRIES' OR APPROVED EQUAL. SPECIES: SELECT WHITE MAPLE. COLOR: CLEAR, CL-18
6. ALL GLAZING IN DOORS SHALL BE INSTALLED IN METAL VISION KIT TO MATCH FIRE LABEL. VISION KIT COLOR SHALL BE AS SELECTED BY ARCHITECT. INTERIOR GLAZING TYPES AND SIZES SHALL CONFORM TO NFPA 80 AND/OR ASTM E119. WHERE SECURITY GLAZING IS INDICATED, VISION KIT SHALL BE THROUGH BOLT TYPE.
7. ALL NEW H.M. FRAMES SHALL BE FULLY WELDED WRAP AROUND TYPE (UNLESS OTHERWISE NOTED OR DETAILED). THROATS SHALL BE SIZED ACCORDING TO WALL THICKNESS AND FINISH, REFER TO FLOOR PLAN AND ENLARGED DETAILS FOR ADDITIONAL INFORMATION.
8. FOR DOOR REPLACEMENTS IN KIND, GENERAL CONTRACTOR SHALL MODIFY AND PATCH EXISTING WOOD OR H.M. DOOR FRAMES (DESIGNATED TO REMAIN) TO ACCOMMODATE NEW DOOR OPERATOR, LOCKSET, LATCH, HINGES, DOOR SWING AND/OR CLOSER, ETC. AS REQUIRED FOR COMPLETE AND FUNCTIONAL OPERATION.
9. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING HEIGHT AND WIDTH OF PROPOSED DOORS TO BE INSTALLED IN EXISTING FRAMES (PRIOR TO SHOP DRAWING SUBMITTAL) TO ENSURE PROPER FIT AND DOOR FUNCTION.
10. ALL NEW HOLLOW METAL FRAMES AND HOLLOW METAL DOORS SHALL BE FINISH PAINTED. REFER TO SPECIFICATION SECTION 099000 FOR PAINT TYPE. COLOR AS SELECTED BY ARCHITECT.
11. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL A.D.A. COMPLIANT SIGNAGE AT ALL DOORS WHERE SPECIFIED IN DOOR SCHEDULE AND/OR SHOWN ON FLOOR PLANS. INSTALL IN CONFORMANCE WITH ALL ADA HEIGHT AND PLACEMENT REQUIREMENTS.
   - ▲A. WHERE DENOTED IN SCHEDULE, PROVIDE 4"x4" SIGNAGE WITH BRAILLE INDICATING ROOM NUMBER (COORD. WITH OWNER), MODEL No. E-BTCUST.
   - ▲B. WHERE DENOTED IN SCHEDULE, PROVIDE 4"x12" SIGNAGE WITH BRAILLE INDICATING ROOM NAME AND NUMBER (COORD. WITH OWNER), MODEL No. E-BTCUST.
   - ▲C. WHERE DENOTED IN SCHEDULE, PROVIDE 8"x8" SIGNAGE WITH BRAILLE INDICATING GENDER AND WHEELCHAIR PICTOGRAMS AND ROOM NAME AT MULTI-USE TOILET ROOMS.
     - AT MULTI-USE TOILET ROOMS, PROVIDE AND INSTALL MODEL No. X-5687 (WOMEN), X-5672 (MEN), X-7095 (BOY'S), X-7096 (GIRL'S).
     - AT MULTI-USE ACCESSIBLE TOILET ROOMS, PROVIDE AND INSTALL MODEL No. X-5688 (WOMEN), X-5671 (MEN), X-7108 (BOY'S), X-7107 (GIRL'S).
   - ▲D. WHERE DENOTED IN SCHEDULE, PROVIDE 6"x9" SIGNAGE WITH BRAILLE INDICATING GENDER AND WHEELCHAIR PICTOGRAMS AND ROOM NAME AT SINGLE-USE TOILET ROOMS.
     - AT SINGLE-USE TOILET ROOMS, PROVIDE AND INSTALL MODEL No. E-BTCUST. SIGN SHALL SPECIFY STAFF OR STUDENT USE AS REQUIRED.
     - AT SINGLE-USE ACCESSIBLE TOILET ROOMS, PROVIDE AND INSTALL MODEL No. E-BTCUST. SIGN SHALL SPECIFY STAFF OR STUDENT USE AS REQUIRED.

   MANUFACTURER: "ALLSTATE SIGN AND PLAQUE", DEER PARK, NY OR APPROVED EQUAL. ALL SIGNAGE SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL. COLOR AS SELECTED BY ARCHITECT

11. ALL REMOVABLE MULLIONS ARE TO BE KEYED ALIKE AND TO MATCH EXISTING BUILDING SYSTEM.
13. AUTOMATIC DOOR OPERATORS - THE ELECTRICAL CONTRACTOR SHALL PROVIDE A LINE VOLTAGE CIRCUIT TO THE AUTO OPERATOR. LOCATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL WIRING ASSOCIATED WITH AUTOMATIC DOOR OPERATORS, INCLUDING ELECTRONIC STRIKE, PUSH BUTTONS, TRANSFORMERS AND ANY OTHER DEVICES REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
14. FIRE RATED GLAZING WITH SURFACE APPLIED FILMS WILL NOT BE CONSIDERED EQUIVALENT WHERE LAMINATED FILM IS SPECIFIED.
15. THE FOLLOWING DOOR LOCATIONS SHALL SWING 180 DEG.: 144, 149, 150, 152, 157, 158, 241, 242, 243.
16. THE FOLLOWING DOORS SHALL INCLUDE ELECTRIC STRIKES: 142, 143, 144, 150, 151, 155, 158.
17. REFER TO DRAWING A9.00 FOR DOOR LOCATIONS REQUIRING WINDOW SHADES.
19. ALL ALUMINUM DOOR FRAMES, STOREFRONTS, VISION-LITE FRAMES AND WINDOW FRAMES SHALL BE POWDERCOATED FINISH. CUSTOM COLOR AS SELECTED BY ARCHITECT.

STOREFRONT ENTRANCE and FRAMING NOTES

1. REFER TO CODE COMPLIANCE DRAWINGS FOR WIND LOAD DESIGN CRITERIA.
2. ALL EXTERIOR STOREFRONT, CURTAIN WALL AND EXTERIOR DOOR GLAZING SHALL BE 1" DIRECT GLAZED AS INDICATED UNLESS OTHERWISE NOTED. REFER TO PROJECT MANUAL FOR GLAZING TYPE AND CONFIGURATION.
3. ALL STOREFRONT AND CURTAIN WALL FRAMING MEMBERS SHALL BE FACTORY FINISHED. COLOR: AS SELECTED BY ARCHITECT.
4. REFER TO WALL SECTIONS FOR STOREFRONT / CURTAIN WALL CONFIGURATION, ADJACENT CONDITIONS AND MATERIALS, AND TO ASSIST IN DETERMINING FASTENING LOCATIONS. STOREFRONT AND CURTAIN WALL SYSTEM SHALL BE SECURED TO STRUCTURE IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS TO MEET N.Y.S. WIND LOAD REQUIREMENTS.
5. G.C. SHALL COORDINATE STOREFRONT / CURTAIN WALL OPENING LOCATIONS / QUANTITIES WITH FLOOR PLAN, ELEVATIONS, AND SCHEDULE.
6. G.C. SHALL SUBMIT SHOP DRAWINGS WITH CALCULATIONS TO SHOW COMPLIANCE WITH WIND PRESSURE LOADING, DEFLECTION AND MOVEMENT REQUIREMENTS. FRAME DEPTH 4 1/2", MAX. FRAME DEPTH 6" (U.O.N.).
7. EXTERIOR STOREFRONT FRAMING SYSTEM SHALL BE 4 1/2" x 2" 'TRIFAB 451-T' BY 'KAWNEER'. INTERIOR STOREFRONT FRAMING SYSTEM SHALL BE 4 1/2" x 2" 'TRIFAB 451' BY 'KAWNEER UNLESS OTHERWISE NOTED OR ARCHITECT APPROVED EQUAL.
8. PROVIDE 'TGP FIREFRAMES' OR GENIUS WALL SYSTEM BY 'KI' OR ARCHITECT APPROVED EQUAL WHERE REQUIRED.
9. G.C. SHALL COORDINATE WIRING AND HARDWARE PREPARATION OF ELECTRONIC DOOR CONTROLS WITH E.C. FOR COMPLETE AND FUNCTIONAL OPERATION.

REV.	DATE	ITEM
1	03/19/2025	BID ADDENDUM No. 4

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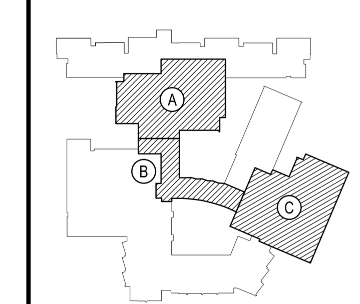

KEY PLAN
NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: DOOR SCHEDULE

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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SED No.: 66-01-02-06-0-003-024
DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT: PHASE 2 - BOND IMPROVEMENTS
DWG TITLE: DOOR SCHEDULE

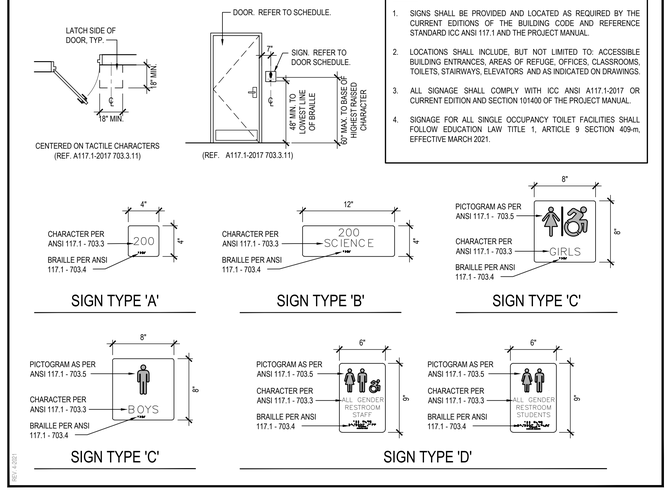
SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

A8.01

DOOR SCHEDULE

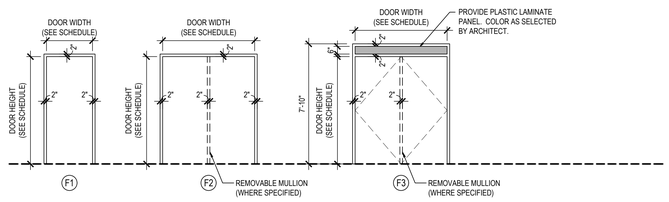
AREA	DOOR NO.	LOCATION	SIGNAGE	DOOR LEAVES	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR ELEV. TYPE	DOOR MAT.	DOOR GLAZING	FRAME TYPE.	FRAME MAT.	FRAME GLAZING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	DETAIL THOLD	FIRE RATING	REMARKS	DOOR NO.
AREA 'C'	200	EXTERIOR	- - -	2	3'-0"	7'-0"	1 3/4"	C	FRP	INSUL.	F2	ALUM.	- - -	20	H6	J10	~~	T1	- - -		200
	201	CROSS CORRIDOR	- - -	2	3'-0"	7'-0"	1 3/4"	C	SCLCMV	F.G.	F2	H.M.	- - -	15A	H4	J8	~~	T5	20 MIN.		201
	202	GIRL'S LOCKER ROOM No. 202	B	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	12A	H4	J8	~~	T7	20 MIN.		202
	203	COACH'S OFFICE No. 203	B	1	3'-0"	7'-0"	1 3/4"	C	SCLCMV	TEMP.	F1	H.M.	- - -	05B	H4	J8	~~	T7	- - -		203
	204	COACH'S TOILET ROOM No. 204	D	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	3	H4	J8	~~	T6	- - -		204
	205	GIRL'S TEAM LOCKER ROOM 205	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	TEMP.	F1	H.M.	- - -	05A	H4	J8	~~	T7	- - -		205
	206	GIRL'S TEAM LOCKER ROOM 207	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	TEMP.	F1	H.M.	- - -	5	H4	J8	~~	T7	- - -		206
	207	EXTERIOR	- - -	1	3'-0"	7'-2"	1 3/4"	A	FRP	- - -	F1	ALUM.	- - -	18	H7	J11	~~	T1	- - -		207
	208	CUSTODIAL CLOSET No. 208	B	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	8	H4	J8	~~	T7	20 MIN.		208
	209	BOY'S LOCKER ROOM No. 209	B	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	12A	H4	J8	~~	T7	20 MIN.		209
	210	COACH'S OFFICE No. 210	B	1	3'-0"	7'-0"	1 3/4"	C	SCLCMV	TEMP.	F1	H.M.	- - -	05B	H4	J8	~~	T7	- - -		210
	211	COACH'S TOILET ROOM No. 211	B	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	3	H4	J8	~~	T6	- - -		211
	212	FOOTBALL STORAGE ROOM 212	B	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	8	H4	J8	~~	T7	- - -		212
	213	BOY'S TEAM LOCKER ROOM 213	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	TEMP.	F1	H.M.	- - -	05B	H4	J8	~~	T7	- - -		213
	214	BOY'S TEAM LOCKER ROOM 214	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	TEMP.	F1	H.M.	- - -	5	H4	J8	~~	T7	- - -		214
	215	EXTERIOR	- - -	1	3'-0"	7'-2"	1 3/4"	A	FRP	- - -	F1	ALUM.	- - -	18	H7	J11	~~	T1	- - -		215
	216	EXISTING STAIR	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	11	~~	~~	~~	T9	45 MIN.		216
	217	EXTISTING CLOSET	- - -	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	08D	~~	~~	~~	T9	20 MIN.		217
	218	FOOTBALL STORAGE ROOM 218	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	08E	~~	~~	~~	T7	45 MIN.		218
	219	UNIFORM STORAGE ROOM No. 219	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	08E	~~	~~	~~	T7	45 MIN.		219
	220	UNIFORM STORAGE ROOM No. 219	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	08E	~~	~~	~~	T7	45 MIN.		220
	221	GYMNASIUM	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	05D	~~	~~	~~	T8	20 MIN.		221
	222	TRAINER'S OFFICE No. 222	B	1	3'-0"	7'-0"	1 3/4"	C	SCLCMV	F.G.	SF-16	H.M.	F.L.P.	05B	H4	J8	~~	T7	20 MIN.		222
	223	CORRIDOR	- - -	1	3'-0"	7'-0"	1 3/4"	C	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	05B	~~	~~	~~	T5	20 MIN.		223
	224	REFEREE OFFICE No. 223	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	05F	~~	~~	~~	T7	20 MIN.		224
	225	TOILET ROOM No. 224	D	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	03B	H5	J9	~~	T6	- - -		225
	226	COACH'S OFFICE No. 225	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	D	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	05D	~~	~~	~~	T7	20 MIN.		226
	227	GYMNASIUM	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	SCLCMV	- - -	E.T.R.	E.T.R.	- - -	5	~~	~~	~~	T8	- - -		227
	228	COACH'S OFFICE No. 226	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	5	~~	~~	~~	T7	20 MIN.	REVERSE SWING.	228
	229	WELLNESS CENTER No. 229	B	1	3'-0"	7'-0"	1 3/4"	D	SCLCMV	F.G.	F1	H.M.	- - -	05A	H4	J8	~~	T7	20 MIN.		229
	230	STORAGE ROOM No. 234	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	08E	~~	~~	~~	T7	45 MIN.		230
	231	STORAGE ROOM No. 234	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	08E	~~	~~	~~	T7	45 MIN.		231
	232	GYM EQUIP. STORAGE ROOM 228	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	08G	~~	~~	~~	T8	45 MIN.		232
	233	EXISTING STAIR	B	1	3'-0" V.I.F	7'-6" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	11	~~	~~	~~	T9	45 MIN.		233
	234	TOILET ROOM No. 230	D	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	03A	H4	J8	~~	T6	20 MIN.		234
	235	STORAGE ROOM No. 231	B	2	3'-0"	7'-0"	1 3/4"	A	MCMV	- - -	F2	H.M.	- - -	09B	H4	J8	~~	T7	45 MIN.		235
	236	TOILET ROOM No. 232	D	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	03A	H4	J8	~~	T6	20 MIN.		236
	237	VISITOR'S LOCKER ROOM No. 233	B	1	3'-0"	7'-0"	1 3/4"	A	SCLCMV	- - -	F1	H.M.	- - -	5	H4	J8	~~	T7	20 MIN.		237
	238	STORAGE ROOM No. 234	B	1	3'-0"	7'-0"	1 3/4"	A	MCMV	- - -	F1	H.M.	- - -	08C	H4	J8 / J9	~~	T7	45 MIN.		238
	239	STORAGE ROOM No. 235	B	1	3'-0"	7'-0"	1 3/4"	A	MCMV	- - -	F1	H.M.	- - -	08C	H4	J8	~~	T7	45 MIN.		239
	240	EXTERIOR	- - -	2	3'-0"	7'-0"	1 3/4"	C	FRP	INSUL.	SF-17	ALUM.	INSUL.	19	H6	J15	~~	T1	- - -		240
	241	FITNESS CENTER No. 243	B	2	3'-0" V.I.F	7'-0" V.I.F.	1 3/4"	C	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	15B	~~	~~	~~	T14	20 MIN.	PROVIDE 180 DEGREE SWING AND MAGNETIC HOLD OPEN DEVICES.	241
	242	FITNESS CENTER No. 243	B	2	3'-0" V.I.F	7'-0" V.I.F.	1 3/4"	C	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	15B	~~	~~	~~	T14	20 MIN.	PROVIDE 180 DEGREE SWING AND MAGNETIC HOLD OPEN DEVICES.	242
	243	FITNESS CENTER No. 243	B	2	3'-0" V.I.F	7'-0" V.I.F.	1 3/4"	C	SCLCMV	F.G.	E.T.R.	E.T.R.	- - -	15B	~~	~~	~~	T14	20 MIN.	PROVIDE 180 DEGREE SWING AND MAGNETIC HOLD OPEN DEVICES.	243
	244	FITNESS CENTER STORAGE RM	B	2	3'-0" V.I.F	7'-0" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	09A	~~	~~	~~	T14	45 MIN.		244
	245	FITNESS CENTER STORAGE RM	B	2	3'-0" V.I.F	7'-0" V.I.F.	1 3/4"	A	MCMV	- - -	E.T.R.	E.T.R.	- - -	09A	~~	~~	~~	T14	45 MIN.		245

TYPICAL ADA SIGNAGE DETAILS



NOTES:

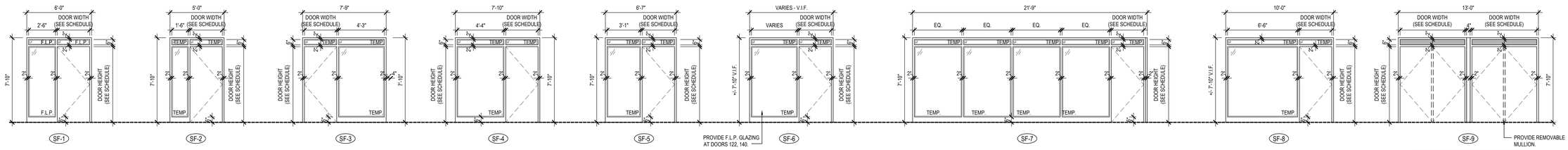
1. SIGNS SHALL BE PROVIDED AND LOCATED AS REQUIRED BY THE CURRENT EDITIONS OF THE BUILDING CODE AND REFERENCE STANDARD ICC ANSI 117.1 AND THE PROJECT MANUAL.
2. LOCATIONS SHALL INCLUDE, BUT NOT LIMITED TO: ACCESSIBLE BUILDING ENTRANCES, AREAS OF REFUGE, OFFICES, CLASSROOMS, TOILETS, STAIRWAYS, ELEVATORS AND AS INDICATED ON DRAWINGS.
3. ALL SIGNAGE SHALL COMPLY WITH ICC ANSI A117.1-2017 OR CURRENT EDITION AND SECTION 101400 OF THE PROJECT MANUAL.
4. SIGNAGE FOR ALL SINGLE OCCUPANCY TOILET FACILITIES SHALL FOLLOW EDUCATION LAW TITLE 1, ARTICLE 9 SECTION 409-m, EFFECTIVE MARCH 2021.

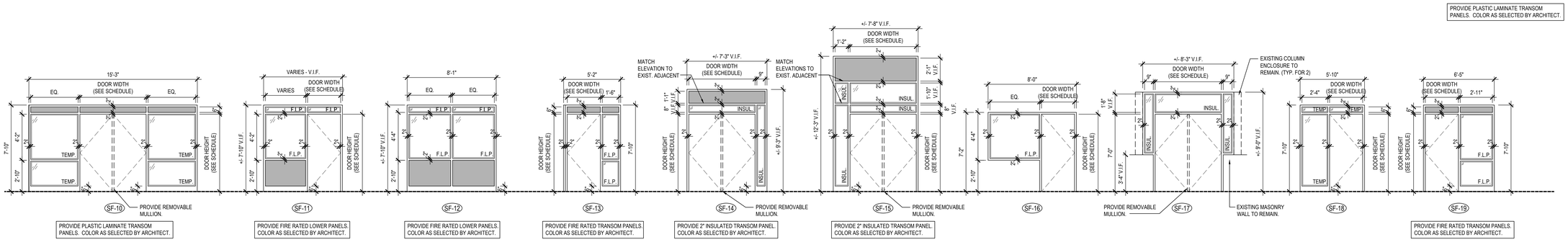


FRAME TYPE ELEVATIONS

NOTE: REFER TO DOOR SCHEDULE FOR DOOR FRAME MATERIAL.

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





STOREFRONT ELEVATIONS

NOTE: REFER TO DOOR SCHEDULE FOR DOOR FRAME MATERIAL

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

REV.	DATE	ITEM
01	03/12/2025	BID ADDENDUM No. 3

NOTICE

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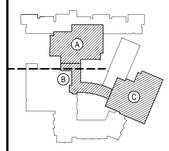

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DOOR SCHEDULE and STOREFRONT ELEVATIONS

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

NOTICE

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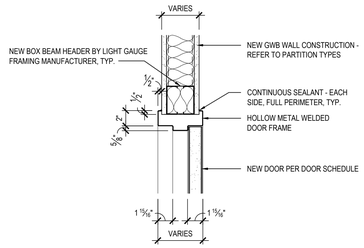
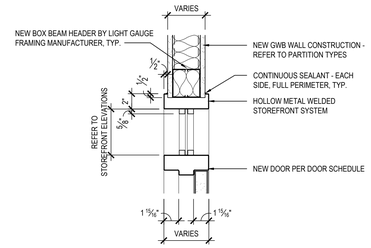
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DOOR SCHEDULE and STOREFRONT ELEVATIONS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A8.02



H1 HEAD DETAIL

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



H2 HEAD DETAIL

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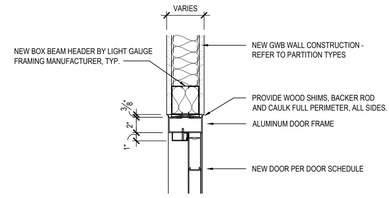

H3 HEAD DETAIL

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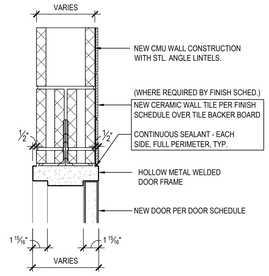
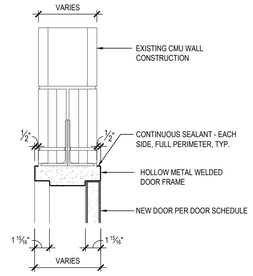


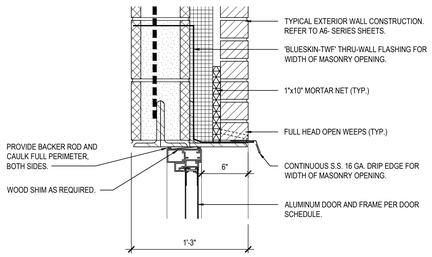
H4 HEAD DETAIL

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



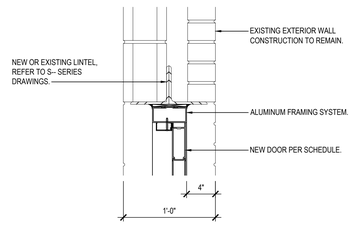
H5 HEAD DETAIL

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



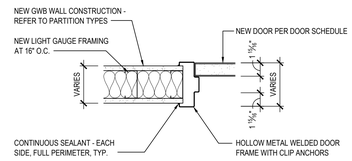
H6 HEAD DETAIL

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



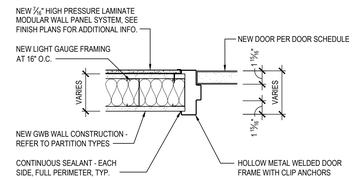
H7 HEAD DETAIL

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



J1 JAMB DETAIL

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



J2 JAMB DETAIL

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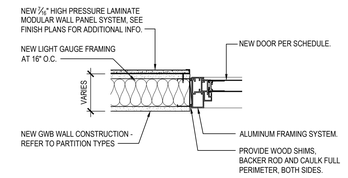
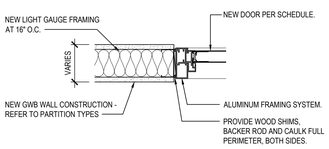


J3 JAMB DETAIL

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



J4 JAMB DETAIL

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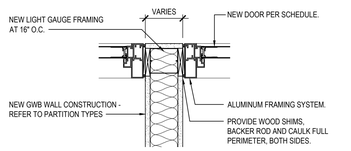
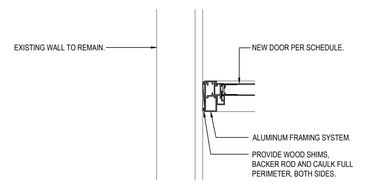


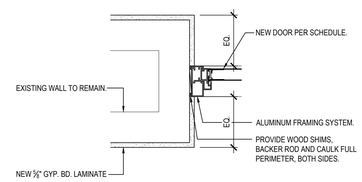
J5 JAMB DETAIL

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



J6 JAMB DETAIL

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



J7 JAMB DETAIL

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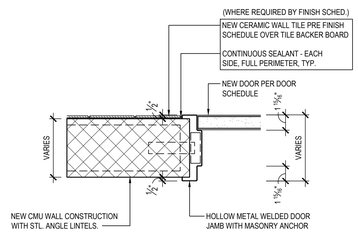

J8 JAMB DETAIL

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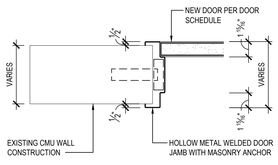

J9 JAMB DETAIL

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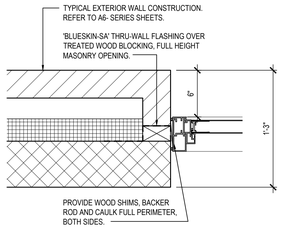

J10 JAMB DETAIL

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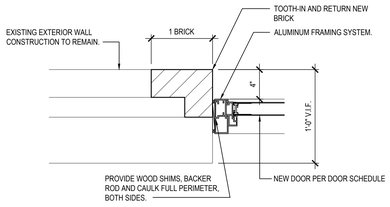

J11 JAMB DETAIL

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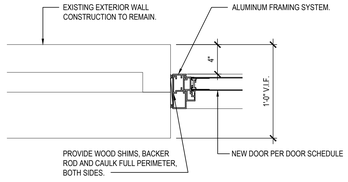

J12 JAMB DETAIL

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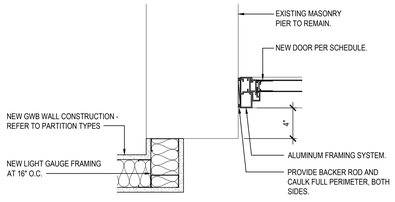

J13 JAMB DETAIL

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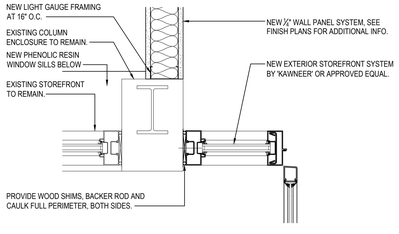

J14 JAMB DETAIL

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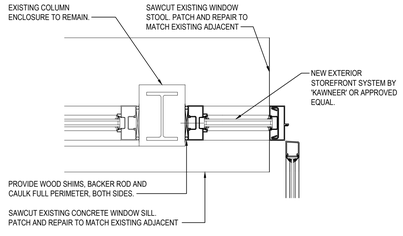

J15 JAMB DETAIL

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

REV.	DATE	ITEM

NOTICE

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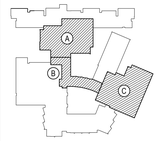

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DOOR DETAILS

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE DOOR DETAILS

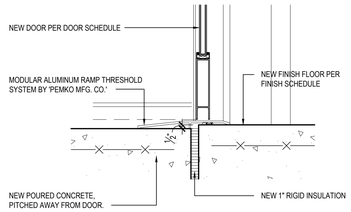
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

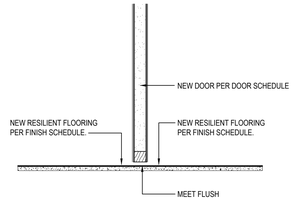
FILE No: 23-131a FLHS

A8.03



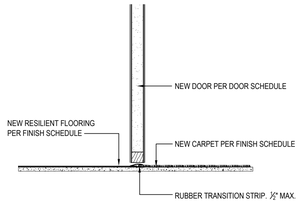
T1 THRESHOLD DETAIL

NOTE: SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A117.1-2009 SCALE: 1-1/2" = 1'-0"



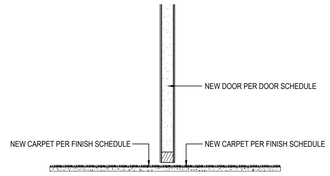
T2 THRESHOLD DETAIL

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



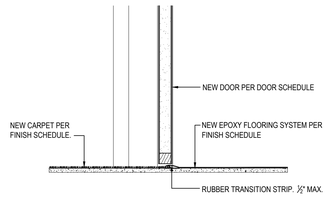
T3 THRESHOLD DETAIL

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



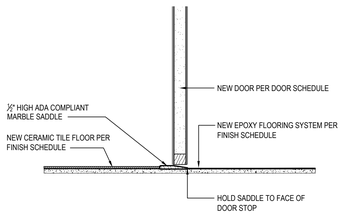
T4 THRESHOLD DETAIL

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



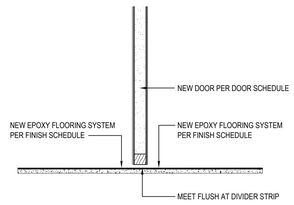
T5 THRESHOLD DETAIL

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



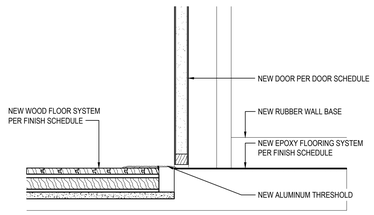
T6 THRESHOLD DETAIL

NOTE: SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A117.1-2009 SCALE: 1-1/2" = 1'-0"



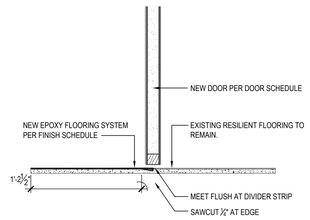
T7 THRESHOLD DETAIL

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



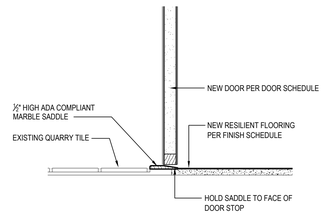
T8 THRESHOLD DETAIL

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



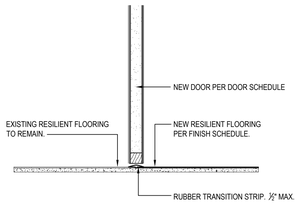
T9 THRESHOLD DETAIL

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



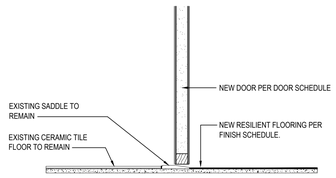
T10 THRESHOLD DETAIL

NOTE: SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A117.1-2009 SCALE: 1-1/2" = 1'-0"



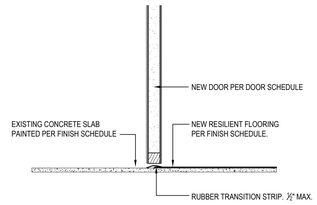
T11 THRESHOLD DETAIL

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



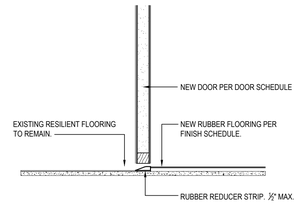
T12 THRESHOLD DETAIL

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



T13 THRESHOLD DETAIL

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



T14 THRESHOLD DETAIL

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

REV.	DATE	ITEM

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FOX LANE HIGH SCHOOL
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DWG TITLE

DOOR DETAILS

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DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE DOOR DETAILS

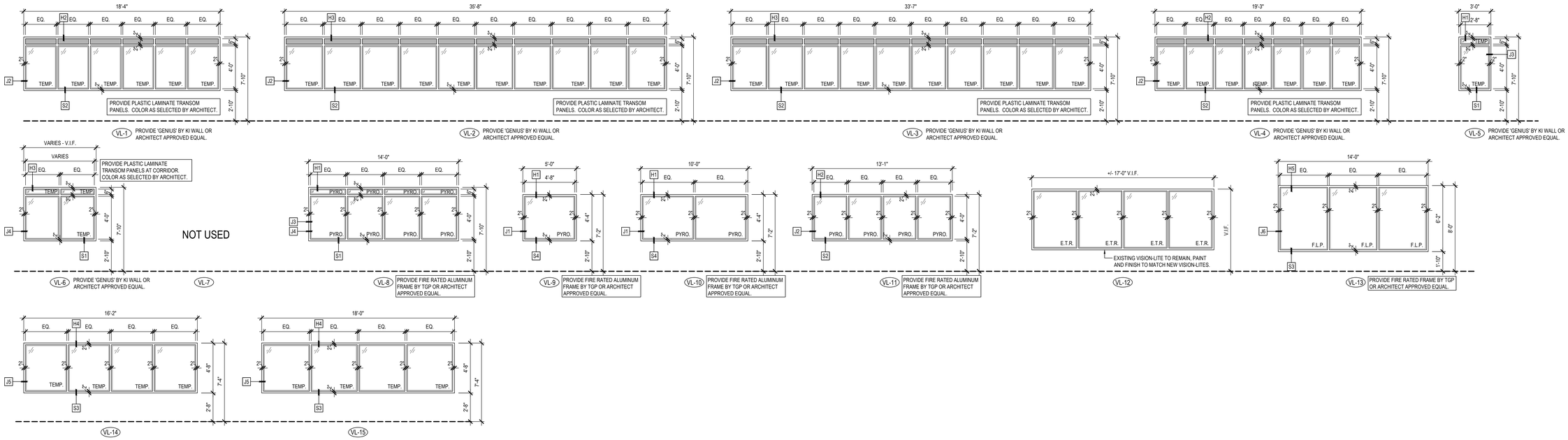
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

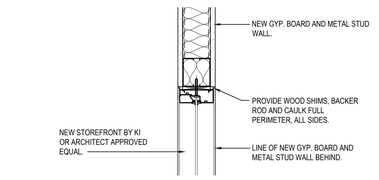
FILE No: 23-131a FLHS

A8.04



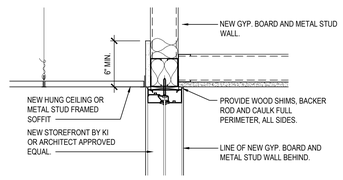
VISION-LITE ELEVATIONS

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



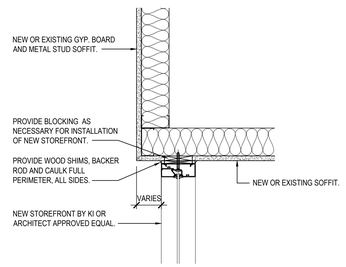
H1 HEAD DETAIL

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



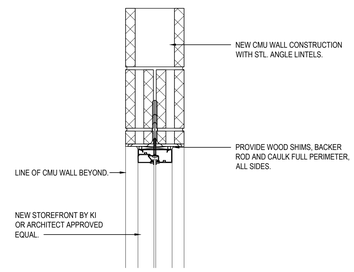
H2 HEAD DETAIL

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



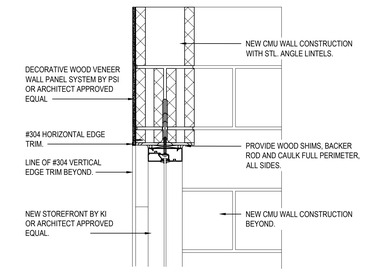
H3 HEAD DETAIL

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



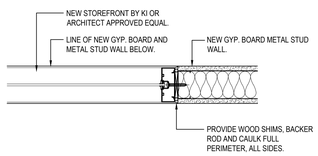
H4 HEAD DETAIL

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



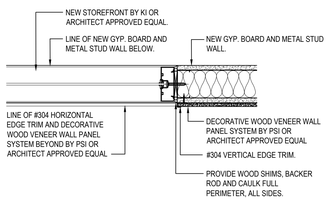
H5 HEAD DETAIL

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



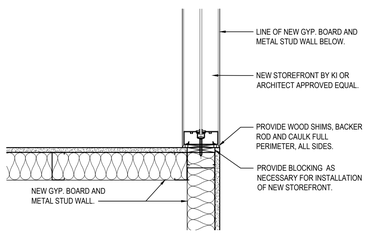
J1 JAMB DETAIL

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



J2 JAMB DETAIL

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



J3 JAMB DETAIL

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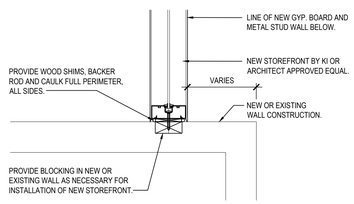

J4 JAMB DETAIL

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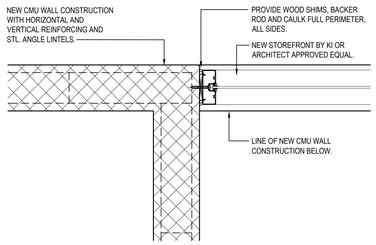

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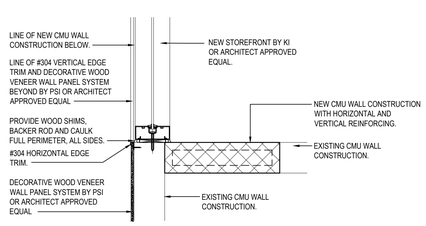

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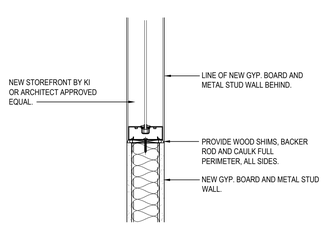
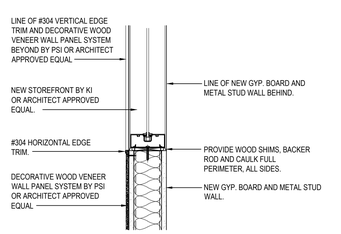


S1 SILL DETAIL

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



S2 SILL DETAIL

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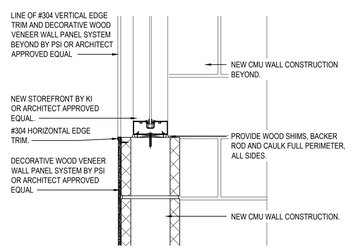

S3 SILL DETAIL

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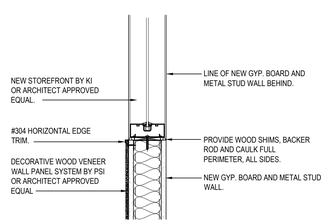

S4 SILL DETAIL

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

REV.	DATE	ITEM

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PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

VISION-LITE ELEVATIONS and DETAILS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	VISION - LITE ELEVATIONS and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A8.05

FINISH SCHEDULE

AREA	ROOM No.	LOCATION	FLOORS FIELD	FLOORS ACCENT	FLOORS BASE	WALLS TYPE	WALLS FINISH	CEILINGS	REMARKS	ROOM No.
AREA 'A'	~~	MAIN EXISTING CORRIDOR	~~	~~	~~	~~	~~	~~		~~
	102	LARGE GROUP INSTRUCTION CLASSROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		102
	103	STORAGE ROOM	SVT1	~~	RCB1	GYP.	P1			103
	104	STORAGE ROOM	CPT2	~~	RCB1	GYP.	P1			104
	105	STORAGE ROOM	CPT2	~~	RCB1	GYP.	P1			105
	106	CLASSROOM	LVT1	~~	RCB2	GYP.	P1/P2	ACT3		106
	107	CLASSROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		107
	108	NOT USED								108
	109	QUIET STUDY ROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		109
	110	QUIET STUDY ROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		110
	111	I.T. OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		111
	112	NOT USED								112
	113	LIBRARY	CPT2	~~	RCB2	GYP.	P1/P2	ACT3/ ACT2 / GYP.		113
	114	QUIET STUDY ROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		114
	115	QUIET STUDY ROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		115
	116	NOT USED								116
	117	LMS OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		117
	118	SENSORY ROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		118
	119	NOT USED								119
	120	QUIET STUDY ROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		120
	121	QUIET STUDY ROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT3		121
	122	NOT USED								122
	123	VESTIBULE	CPT1	~~	RCB1	GYP.	P1	ACT1		123
	124	NOT USED								124
	125	COUNSELOR'S OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		125
	126	VAULT	LVT1		RCB2	CMU	P1			126
	127	STORAGE ROOM								127
	128	DIRECTOR'S OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		128
	129	OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		129
	130	OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		130
	131	OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		131
	132	OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		132
	133	OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		133
	134	OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		134
	135	OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		135
	136	OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		136
	137	COLLEGE CAREER CENTER	LVT1	~~	RCB2	GYP.	P1/P2	ACT1		137
	138	I.T. CLOSET	PCONC	~~	RCB2	GYP. / CMU	P1	ACT1		138
	139	NOT USED								139
	140	NOT USED								140
	141	READING ROOM	LVT1	~~	RCB2	GYP.	P1/P2	ACT3		141
	142	NOT USED								142
	143	NOT USED								143
	144	LARGE CAFETERIA	SVT1	SVT2	RCB2	GYP.	P1/P2/ HPL1	ACT3		144
	145	NOT USED								145
	146	NOT USED								146
	147	NOT USED								147
	148	SERVING LINE	SVT1	~~	RCB2	GYP.	P1/P2/ HPL1	ACT3		148
	149	NOT USED								149
	150	NOT USED								150
	151	NOT USED								151
	152	NOT USED								152
	153	NOT USED								153
	154	NOT USED								154
	155	GUIDANCE OFFICE SUITE	LVT1	~~	RCB2	GYP.	P1/P2	ACT1		155
	156	YEARBOOK OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		156
	157	NOT USED								157
	158	SMALL CAFETERIA	SVT1	SVT2	RCB2	GYP.	P1/P2/ HPL1	ACT3		158
	159	VESTIBULE	CPT1	~~	RCB1	GYP.	P1	ACT1		159
	~~	STUDENT COMMONS AREA	SVT1	SVT2	RCB2	GYP.	P1/P2/ HPL1	ACT1 / ACT2 / GYP. /		~~
AREA 'B'	160	NOT USED								160
	161	NOT USED								161
	162	NOT USED								162
	163	CONFERENCE ROOM	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		163
	164	SECURITY OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		164
	165	ART DIRECTOR'S OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		165
	166	NOT USED								166
	167	ART OFFICE	CPT2	~~	RCB2	GYP.	P1/P2	ACT1		167
	168	GALLERY	SVT1	~~	RCB1	GYP.	P1/P2	OPEN/ PAINTED		168
	168A	GALLERY CLOSET	SVT1	~~	RCB1	GYP.	P1	OPEN/ PAINTED		168A
	~~	CORRIDOR	SVT1	SVT2	RCB2	GYP.	P1 / P2 / HPL1	ACT1 / GYP.	ALTRO-1 ON RAMP ONLY	~~
	~~	EXISTING COMMONS	E.T.R.	~~	E.T.R.		P1 / P2 / HPL1		WRAP ALL COLUMNS WITH HPL1 TO 6'A.F.F.- PAINT ABOVE	~~
AREA 'C'	201	NOT USED								201
	202	GIRL'S LOCKER ROOM	EP1		INTEGRAL	CMU	P1/P3	ACT4/GYP.		202
	203	COACH'S OFFICE	EP1		INTEGRAL	CMU	P1	ACT1		203
	204	COACH'S TOILET ROOM	PFT1		SCHLUTER	CMU	CWT1/CWT2	ACT5		204
	205	GIRL'S TEAM LOCKER ROOM	EP1		INTEGRAL	CMU	P1	ACT4		205
	206	NOT USED								206
	207	GIRL'S TEAM LOCKER ROOM	EP1		INTEGRAL	CMU	P1	ACT4		207
	208	CUSTODIAL CLOSET	EP1		INTEGRAL	CMU	P1	ACT6		208
	209	BOY'S LOCKER ROOM	EP1		INTEGRAL	CMU	P1/P3	ACT4		209
	210	COACH'S OFFICE	EP1		INTEGRAL	CMU	P1	ACT1		210
	211	COACH'S TOILET ROOM	PFT1		SCHLUTER	CMU	CWT1/CWT2	ACT5		211
	212	FOOTBALL STORAGE ROOM	EP1		INTEGRAL	CMU	P1	ACT6		212
	213	BOY'S TEAM LOCKER ROOM	EP1		INTEGRAL	CMU	P1	ACT4		213
	214	BOY'S TEAM LOCKER ROOM	EP1		INTEGRAL	CMU	P1	ACT4		214
	215	NOT USED								215
	216	NOT USED								216
	217	NOT USED								217
	218	FOOTBALL STORAGE ROOM	EP1		INTEGRAL	CMU	P1	ACT6		218
	219	UNIFORM STORAGE ROOM	EP1		INTEGRAL	CMU	P1	ACT6		219
	220	NOT USED								220
	221	NOT USED								221
	222	TRAINER'S OFFICE	EP1		INTEGRAL	CMU	P1/P3	ACT1		222
	~~	CORRIDOR	SVT1	SVT2	RCB1	GYP.	P1/P3	ACT1		~~
	223	REFEREE OFFICE	EP1		INTEGRAL	CMU	P1	ACT1		223
	224	TOILET ROOM	PFT1		SCHLUTER	CMU	CWT1/CWT2	ACT5		224
	225	COACH'S OFFICE	EP1		INTEGRAL	CMU	P1	ACT1		225
	226	COACH'S OFFICE	EP1		INTEGRAL	CMU	P1	ACT1		226
	227	STORAGE ROOM	EP1		INTEGRAL	CMU	P1	ACT6		227
	228	GYM EQUIPMENT STORAGE ROOM	EP1		INTEGRAL	CMU	P1	ACT6		228
	229	WELLNESS CENTER	EP1		INTEGRAL	CMU	P1/P3	ACT1		229
	230	TOILET ROOM	PFT1		SCHLUTER	CMU	CWT1/CWT2	ACT5		230
	231	STORAGE ROOM	EP1		INTEGRAL	CMU	P1	ACT6		231
	232	TOILET ROOM	PFT1		SCHLUTER	CMU	CWT1/CWT2	ACT5		232
	233	VISITOR'S LOCKER ROOM	EP1		INTEGRAL	CMU	P1	ACT4		233
	234	STORAGE ROOM	EP1		INTEGRAL	CMU	P1	ACT6		234
	235	STORAGE ROOM	EP1		INTEGRAL	CMU	P1	ACT6		235
	236	NOT USED								236
	237	NOT USED								237
	238	NOT USED								238
	239	NOT USED								239
	240	NOT USED								240
	241	NOT USED								241
	242	NOT USED								242
	243	FITNESS CENTER	RSF1 / TURF1		RCB3	GLAZED BLOCK/CMU	P1/P2/P3	OPEN/PAINT P11	SEE GLAZED BLOCK PREP NOTES. PAINT EXPOSED DUCT WORK P12	243
	~~	LARGE GYM	WOOD1		RCB4	CMU	~~	~~		~~

FLOOR TYPES

VINYL:

TYPE SVT1: 36" x 36" x 3.2mm SOLID VINYL TILE AS MANUFACTURED BY PATCRAFT
COLLECTION: NUMIX
COLOR: SEPIA FLECK
INSTALL METHOD: MONOLITHIC - GLUE DOWN
(CORRIDORS, CAFETERIAS, GALLERY)

TYPE SVT2: 36" x 36" x 3.2mm SOLID VINYL TILE AS MANUFACTURED BY PATCRAFT
COLLECTION: NUMIX
COLOR: SEPIA SOLID
INSTALL METHOD: MONOLITHIC - GLUE DOWN
(CORRIDORS, CAFETERIAS, GALLERY)

TYPE SVT3: 36" x 36" x 3.2mm SOLID VINYL TILE AS MANUFACTURED BY PATCRAFT
COLLECTION: NUMIX
COLOR: RUBY SOLID
INSTALL METHOD: MONOLITHIC - GLUE DOWN
(CORRIDORS, CAFETERIAS, GALLERY)

TYPE LVT1: 7"x48"x1/8" LUXURY VINYL TILE AS MANUFACTURED BY MANNINGTON COMMERCIAL FLOORING
COLLECTION: SPACIA- WOOD, 20 MIL
COLOR: SPRING MAPLE
INSTALLATION: GLUE DOWN, ASHLAR
(LIBRARY)

SHEET VINYL:

TYPE ALTRO1: 2.5MM SAFETY SLIP RESISTANT SHEET FLOORING AS MANUFACTURED BY ALTRO
COLLECTION: ALTRO RELIANCE 25
COLOR: FORGE D2515
INSTALL METHOD: GLUE DOWN
(RAMPS)

CARPET:

TYPE CPT1: 24" X 24" CARPET TILE AS MANUFACTURED BY INTERFACE
STEP REPEAT COLLECTION, SR899, MONOLITHIC INSTALLATION
COLOR: TO BE SELECTED BY ARCHITECT
(VESTIBULES)

TYPE CPT2: 12" X 36" CARPET TILE AS MANUFACTURED BY MOHAWK GROUP
COLLECTION: WILD HORIZON
STYLE: GT366
COLOR: 863 SCARLET CREEPER
HALF-LAP INSTALLATION
(LIBRARY/GUIDANCE)

WOOD SPORTS FLOORING:

TYPE WOOD1: DURACUSHION III FLOOR SYSTEM AS MANUFACTURED BY CONNOR SPORTS OR ARCHITECT APPROVED EQUAL.

RUBBER SPORTS FLOORING:

TYPE RSF1: 14.5mm X 48"W X CUSTOM LENGTH SQUARE EDGE ROLL RUBBER MULTI-FUNCTIONAL/SPORTS FLOORING AS MANUFACTURED BY CENTAUR
STYLE: STRIVE 14.5mm (2.5mm VCR + 12mm VCR BASE)
COLOR: LEG PRESS CS104
CONTACT: PETER SCHMITT (516)532-8952

TYPE TURF1: 17MM INTERVAL TURF AS MANUFACTURED BY CENTAUR
SIZE: 6'W x CUSTOM LENGTH ROLLS
THICKNESS:5MM RUBBER BASE LAYER + 12MM TURF LAYER
COLOR: GREEN
INCLUDE INLAID LINES AND LOGO
CONTACT: PETER SCHMITT (516)532-8952

RUBBER:

TYPE RUB1: JOHNSONITE NON SLIP RUBBER TREAD WITH INTEGRATED RISER (FULL STAIR WIDTH)
COLLECTION: COLOR SPLASH
TEXTURE: HAMMERED
COLOR: AS SELECTED BY ARCHITECT
(STAIRS)

TYPE RUB2: JOHNSONITE NON SLIP COLORSPLASH RUBBER TILE
SIZE: 24" X 24" X 1/8"
COLOR: AS SELECTED BY ARCHITECT
(LANDINGS)

CONCRETE:

TYPE PCONC.: REFER TO SPEC SECTION 09900.
COLOR AND FINISH: TO BE SELECTED BY ARCHITECT
(MODERATE TO HEAVY DUTY)

EPOXY:

TYPE EP1: ACCELERA C 100% SOLIDS, DECORATIVE VINYL CHIP EPOXY FLOORING SYSTEM AS MANUFACTURED BY DURAFLEX OR EQUAL.
STYLE: MACROCHIP
COLOR: CUSTOM MULTICOLOR PREBLEND BY ARCHITECT- 5 COLORS MAX
(LOCKER ROOMS)

**PROVIDE INTEGRAL COVE BASE ONLY WHERE NOTED.

PAINT TYPES

TYPE P1: PAINT BY SHERWIN WILLIAMS:
LATEX EGGSHELL ENAMEL FINISH
COLOR: TO BE SELECTED BY ARCHITECT
(CORRIDORS & GENERAL)

TYPE P2: PAINT BY SHERWIN WILLIAMS:
LATEX EGGSHELL ENAMEL FINISH
COLOR: TO BE SELECTED BY ARCHITECT
(ACCENT A- grey)

TYPE P3: PAINT BY SHERWIN WILLIAMS:
LATEX EGGSHELL ENAMEL FINISH
COLOR: TO BE SELECTED BY ARCHITECT
(ACCENT B- red)

TYPE P4: PAINT BY SHERWIN WILLIAMS:
LATEX EGGSHELL ENAMEL FINISH
COLOR: TO BE SELECTED BY ARCHITECT
(ACCENT C- red for library)

TYPE P5: PAINT BY SHERWIN WILLIAMS:
LATEX SEMI-GLOSS ENAMEL FINISH
COLOR: TO BE SELECTED BY ARCHITECT
(TOILET ROOMS)

TYPE P6: PAINT BY SHERWIN WILLIAMS:
DTM ALKYD SEMI-GLOSS ENAMEL
COLOR: TO BE SELECTED BY ARCHITECT
(HM DOOR FRAMES)

TYPE P7: PAINT BY SHERWIN WILLIAMS:
LATEX FLAT ENAMEL FINISH
COLOR: TO BE SELECTED BY ARCHITECT
(GYP. BD SOFFIT AND CEILINGS)

TYPE P8: PAINT BY SHERWIN WILLIAMS:
LATEX FLAT ENAMEL FINISH
COLOR: WHITE
(GYP. BD SOFFIT AND CEILINGS)

TYPE P9: PAINT BY SHERWIN WILLIAMS:
WATERBONE ACRYLIC DRYFALL FLAT
COLOR: AS SELECTED BY ARCH
(METAL DECK & STRUCTURE AT NEW STUDENT COMMONS)

TYPE P10: PAINT BY SHERWIN WILLIAMS:
WATERBONE ACRYLIC DRYFALL FLAT
COLOR: AS SELECTED BY ARCH
(METAL DECK & STRUCTURE AT GALLERY)

TYPE P11: PAINT BY SHERWIN WILLIAMS:
WATERBONE ACRYLIC DRYFALL FLAT
COLOR: AS SELECTED BY ARCH
(DECK & STRUCTURE AT SMALL FITNESS CENTER)

TYPE P12: PAINT BY SHERWIN WILLIAMS:
WATERBONE ACRYLIC DRYFALL FLAT
COLOR: AS SELECTED BY ARCH
(EXPOSED DUCT WORK AT SMALL FITNESS CENTER)

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE	VET	VINYL ENHANCED TILE
CTILE	CARPET TILE	LVT	LUXURY VINYL TILE
PFT	PORCELIAN FLOOR TILE	GYP	GYPSUM BOARD
CMU	CONCRETE MASONRY UNIT	RUB	RUBBER FLOOR TILE
CTCB	CERAMIC TILE COVE BASE	RCB	RUBBER COVE BASE
CWT	CERAMIC WALL TILE	TERR	TERRAZZO / TERRAZZO BASE
EPOXY	EPOXY TERRAZZO	VCT	VINYL COMPOSITION TILE

FINISH NOTES

1. ALL FINISHED TYPES (STYLE/COLOR/PATTERN) SHALL BE OFF THE STANDARD OF QUALITY INDICATED BY THE PROJECT MANUAL. FINAL STYLE / COLOR / PATTERN TO BE SELECTED BY ARCHITECT.
2. ALL C.M.U. SURFACES SHALL BE PRIMED WITH INTERIOR & EXTERIOR BLOCK FILLER M88 INDUSTRIAL MAINTENANCE BY BENJAMIN MOORE PRIOR TO FINISH PAINT APPLICATION.
3. ALL NEW BRICK WALLS ARE TO REMAIN NATURAL, CLEANED AND SEALED, IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. CONTRACTOR SHALL PREP, PRIME AND PAINT ALL SHEET METAL PIPE ENCLOSURES (INSTALLED BY M.C.) COLOR AS SELECTED BY ARCHITECT.
5. BEFORE PAINTING, CONCRETE SURFACES MUST CURE 30 DAYS, BLOCK AND PLASTER SURFACES MUST CURE FOR 30 DAYS.
6. REFER TO REFLECTED CEILING PLANS AND FINISH FLOOR PLANS FOR ADDITIONAL INFORMATION.
7. ALL INTERIOR FINISHES IN CORRIDOR SHALL BE 'CLASS - A' RATED.
8. PATCH, REPAIR AND FINISH CEILING, WALLS, AND FLOOR AT POINTS OF DEMOLITION TO MATCH EXISTING. EXISTING FINISHES TO REMAIN.
9. SHOULD ANY FINISH MATERIALS BE DISCONTINUED BY MANUFACTURER, THE CONTRACTOR MUST REPLACE WITH CLOSEST MATCH AT NO ADDITIONAL COST, AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
10. THE GENERAL CONTRACTOR IS SPECIFICALLY NOTIFIED THAT ALL FLOOR AREAS WILL RECEIVE SELF-LEVELING UNDERLAYMENT MINIMUM 1/2" THICK. THICKNESS WILL VARY DUE TO VARYING FLOOR SLAB ELEVATIONS FROM ROOM TO ROOM, AREAS WHERE WALLS AND CHASES ARE REMOVED , CERAMIC TILE REMOVAL, FLOORING ABATEMENT, GRINDING OF HIGH SPOTS, ETC. G.C. WILL CLOSELY REVIEW AND BID ACCORDINGLY TO ACHIEVE A CONSISTENT FLAT AND LEVEL FLOOR AT NO ADDITIONAL COST TO THE OWNER.
11. HOLLOW METAL DOOR FRAMES, SIDE LIGHTS AND WINDOW FRAMES SHALL BE PREPPED AND PAINTED AS PER PAINTING SPECIFICATION 099000. (ALL COLORS AS SELECTED BY ARCHITECT.)
12. CONTRACTOR SHALL PREP, PRIME AND PAINT SHEETROCK CEILINGS UNLESS OTHERWISE NOTED.
13. REFER TO FINISH FLOOR PLANS FOR TILE PATTERNS - THE TILE PATTERNS MAY NOT REPRESENT THE FINAL PATTERNS TO BE DESIGNED, INSTALLED AND TURNED OVER TO OWNER. THE BID SHALL BE BASED ON THE TILE MIX AND PERCENTAGES AS INDICATED IN THE PROJECT MANUAL.
14. ALL FINISHES SHALL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
15. REFER TO REFLECTED CEILING PLANS, TOILET ROOM TILE PLANS AND FINISHED FLOOR PLANS FOR ADDITIONAL FINISH INFORMATION.
16. NEW TOILET AND URINAL PARTITIONS SHALL BE 1" THICK HDPE AS MANUFACTURED BY SCRANTON, ASI GLOBAL PARTITIONS, OR APPROVED EQUAL. (COLOR AND FINISH TO BE SELECTED BY ARCHITECT).
17. GENERAL CONTRACTOR SHALL PERFORM A BOND TEST IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION OF NEW FLOORING.
18. PROVIDE NEW BEVELED MARBLE SADDLE AT ALL TOILET ROOM DOORS TO MEET ADA REQUIREMENTS.
19. GENERAL CONTRACTOR TO PROVIDE ALL REQUIRED SADDLES, THRESHOLDS, REDUCER STRIPS, TRANSITION STRIPS AND OR FLAT PLATES AS REQUIRED TO PROVIDE A FINISHED, ADA COMPLIANT TRANSITION AT NUMEROUS FLOORING TRANSITIONS AND TERMINATIONS. PROVIDE CUTS AND COLOR OPTIONS FOR ARCHITECTS REVIEW AND APPROVAL.

GYPSUM BOARD FINISHING

1. GENERAL CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF GYPSUM ASSOCIATION TRADE PUBLICATION GA-214-96 'RECOMMENDED LEVELS OF GYPSUM BOARD FINISH AND SPECIFICATION SECTION 092900.

A. LEVEL 0 - FOR USE IN TEMPORARY CONSTRUCTION, OR WHERE FINAL FINISH/DECORATION HAS NOT BEEN DETERMINED.

B. LEVEL 1 - FOR USE AT PLENUM AREAS, ABOVE CEILING, IN ATTICS & IN AREAS WHERE THE ASSEMBLY WOULD GENERALLY BE CONCEALED OR IN BUILDING CORRIDORS & OTHER AREAS NOT NORMALLY OPEN TO THE PUBLIC VIEW.

C. LEVEL 2 - FOR USE AT LOCATIONS WHERE WATER-RESISTANT GYPSUM BACKING BOARD IS INSTALLED AS A TILE SUBSTRATE AND FOR USE IN GARAGES, WAREHOUSE STORAGE OR OTHER SIMILAR AREAS WHERE SURFACE APPEARANCES ARE NOT OF PRIMARY CONCERN.

D. LEVEL 3 - FOR USE IN APPEARANCE AREAS THAT ARE TO RECEIVE HEAVY OR MEDIUM TEXTURE FINISHES BEFORE FINAL PAINTING, OR WHERE HEAVY - GRADE WALL COVERINGS ARE TO BE APPLIED AS THE FINAL DECORATION.

E. LEVEL 4 - FOR USE WHERE LIGHT TEXTURE OR WALL COVERINGS ARE TO BE APPLIED, OR WHERE ECONOMY IS OF THE ARCHITECT'S CONCERN.

F. LEVEL 5 - FOR USE WHERE GLOSS, SEMI-GLOSS, ENAMEL OR NON-TEXTURED FLAT PAINTS ARE SPECIFIED, OR WHERE SEVERE LIGHTING CONDITIONS OCCUR (IN THE OPTION OF THE ARCHITECT.)

PORCELAIN/CERAMIC TILE TYPES

FLOORS:

TYPE PFT1: 12" X 12" PORCELAIN FLOOR TILE BY DALTILE
STYLE: VOLUME 1.0
COLOR: VAPOR VL63
(BATHROOM FLOOR TILE)

WALLS:

TYPE CWT1: 8"X24" CERAMIC WALL TILE BY DALTILE
STYLE: COLOR WHEEL LINEAR
COLOR: MATTE BISCUIT
(BATHROOM WALL FIELD TILE)

TYPE CWT2: 4"X12" CERAMIC WALL TILE BY FIRECLAY TILE
COLLECTION: ORIGINAL CERAMIC
COLOR: TOMATO RED
(BATHROOM WALL ACCENT TILE)

SCHLUTER TRANSITIONS:

TYPE SCH1: PROVIDE SCHLUTER DILEX-AHK SANITARY COVE TRANSITION, INCLUDE ALL INSIDE CORNERS, CONNECTORS AND END CAPS AS REQUIRED BY LAYOUT. ANODIZED ALUMINUM FINISH
(COVE BASE)

TYPE SCH2: PROVIDE SCHLUTER FINEC AT OUTSIDE CORNERS AS REQUIRED BY LAYOUT. ANODIZED ALUMINUM FINISH

GROUT TYPES

FLOOR GROUT: AS MANUFACTURED BY LATICRETE OR MAPEI, SANDED,
COLOR: TO BE SELECTED BY ARCHITECT

WALL GROUT: AS MANUFACTURED BY LATICRETE OR MAPEI, UNSANDED,
COLOR: TO BE SELECTED BY ARCHITECT

WALL PANEL TYPES

HPL1: 1/4" HIGH PRESSURE LAMINATE MODULAR WALL PANEL SYSTEM AS MANUFACTURED BY PANEL SPECIALIST, INC. (PSI) OR ARCHITECT APPROVED EQUAL. OVER NEW GYPSUM WALL BOARD. PANELS TO BE KERFED TO ENGAGE INTO MOLDING SYSTEM #310 WITH 1/16" WIDE BLACK REVEAL WITH .5MM BLACK EDGE BAND USED VERTICALLY AND HORIZONTALLY. PANELS TO BE FACED WITH MISSION MAPLE 7990-38 LAMINATE BY WILSONART. ALL WORK BY G.C. UNDER BASE BID. PROVIDE INSIDE/OUTSIDE CORNER TRIM, TOP AND BASE TERMINATION TRIM, AND AT ALL INTERSECTION REVEALS- BLACK FINISH.

*G.C. SHALL FIELD MEASURE AND PROVIDE SHOP DRAWINGS FOR FINAL APPROVAL.

GLAZED BLOCK PREP NOTES

1. LIGHTLY SAND/ABRADE USING 80 OR 100 GRIT
2. PERFORM D3359 X-CUT TAPE TEST OR CROSS-HATCH TAPE TEST
3. PRIME WITH SW EXTREME BOND INTERIOR-EXTERIOR BONDING PRIMER (1 COAT)
4. SW PRO INDUSTRIAL PRE-CATALIZED WATERBADED EPOXY K46 (1 COAT)
5. SW PRO INDUSTIAL PRE-CATALIZED WATERVASED EPOXY K46 (1 COAT)

RUBBER BASE TYPES

TYPE RCB1: 4" RUBBER COVE BASE BY "JOHNSONITE"
COLOR: TO BE SELECTED BY ARCHITECT
(CORRIDORS)

TYPE RCB2: 4" RUBBER COVE BASE BY "JOHNSONITE"
COLOR: TO BE SELECTED BY ARCHITECT
(GENERAL)

TYPE RCB3: 4" RUBBER COVE BASE BY "JOHNSONITE"
COLOR: TO BE SELECTED BY ARCHITECT
(SMALL FITNESS ROOM)

TYPE RCB4: 4" HEAVY DUTY RUBBER VENTED COVE BASE BY "JOHNSONITE" WITH PRE-MOLDEDEED OUTSIDE CORNERS
COLOR: TO BE SELECTED BY ARCHITECT
(LARGE GYM)

WINDOW TREATMENTS

WS1: DRAPER CLUTCH OPERATED FLEXSHADE,
PHIFER SHEARWEAVE PW 2500, 1% OPEN
COLOR: AS SELECTED BY ARCHITECT
(ALL EXTERIOR WINDOWS IN WORK SCOPE- INTERIOR LOCATIONS NOTED ON FINISH PLANS)

NEW WINDOW TREATMENTS SHALL NOT BE REQUIRED AT THE FOLLOWING LOCATIONS:
VESTIBULES, STAIRS, BATHROOMS, BOILER ROOMS, STORAGE.

PROVIDE (1) UNIT PER WINDOW

WS2: DRAPER CLUTCH OPERATED FLEXSHADE,
PHIFER SHEARWEAVE SW 7100 BLACKOUT FABRIC
COLOR: AS SELECTED BY ARCHITECT

TOILET PARTITIONS

AS PER SPECIFICATION SECTION, SCRANTON OR ASI GLOBAL PARTITIONS SHALL BE PROVIDED - CLASS B MIN OR NFPA RATED. COLOR AS SELECTED BY ARCHITECT FROM FULL RANGE OF COLORS.

TYPE BOYS: COLOR: SHALE

TYPE GIRLS: COLOR: SHALE

ATTIC STOCK INFORMATION

VET: (1) ONE BOX FOR EACH (50) BOXES OF PRODUCT INSTALLED
ACT: NOT LESS THAN 1% OF TOTAL PRODUCT INSTALLED
RUBBER: NOT LESS THAN 1% OF TOTAL PRODUCT INSTALLED
PAINT: 10% OF EACH COLOR, TYPE AND GLOSS OF PAINT USED
PFT: NOT LESS THAN 1% OF TOTAL PRODUCT INSTALLED.
CPT: (1) ONE BOX FOR EACH (50) BOXES OF PRODUCT INSTALLED

REV.	DATE	ITEM
01	03/12/2025	BID ADDENDUM No. 3

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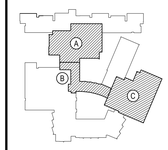

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
FINISH SCHEDULE

DRAWING BY: PJH
CHECK BY: PJH

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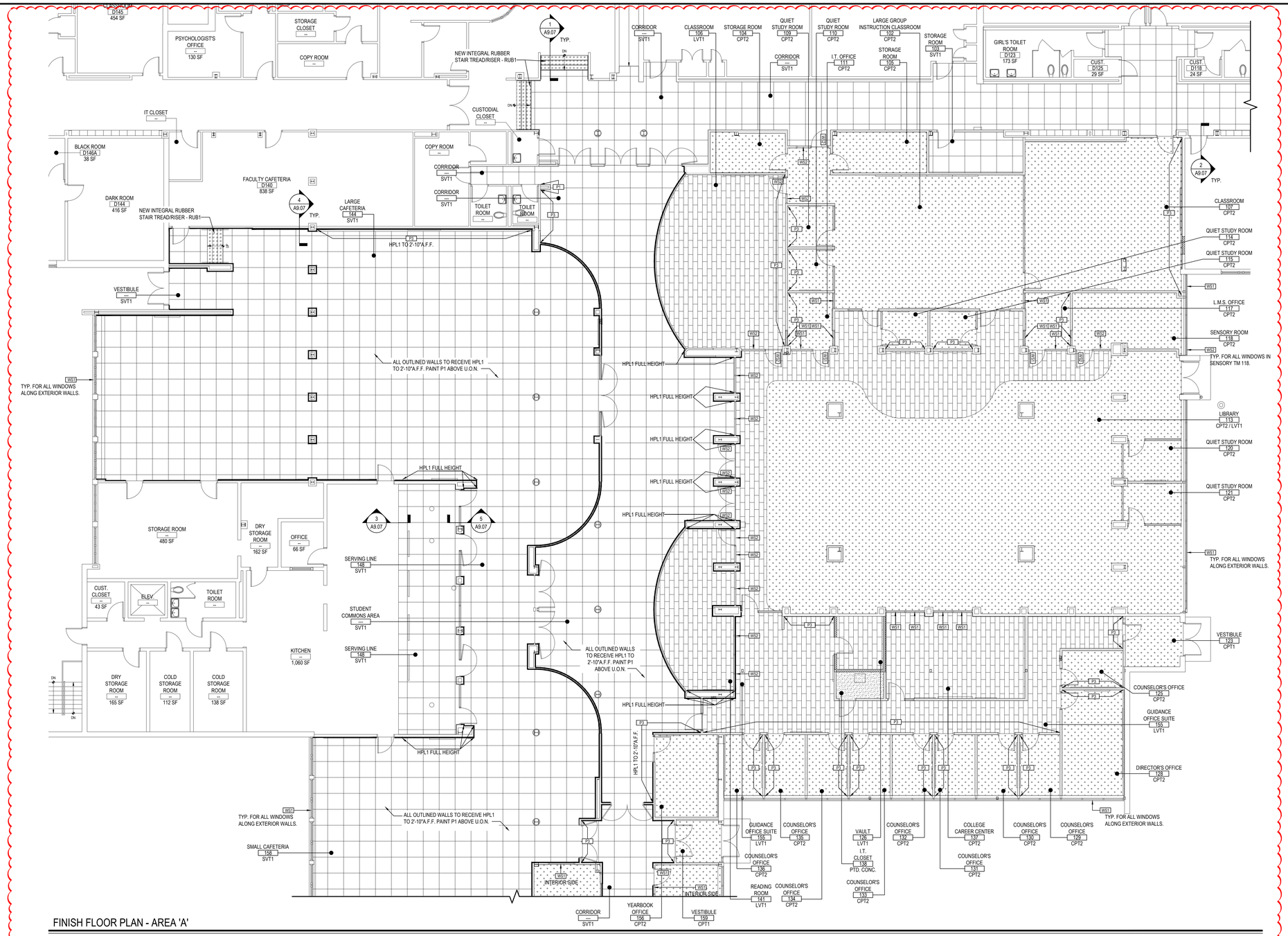
DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: FINISH SCHEDULE

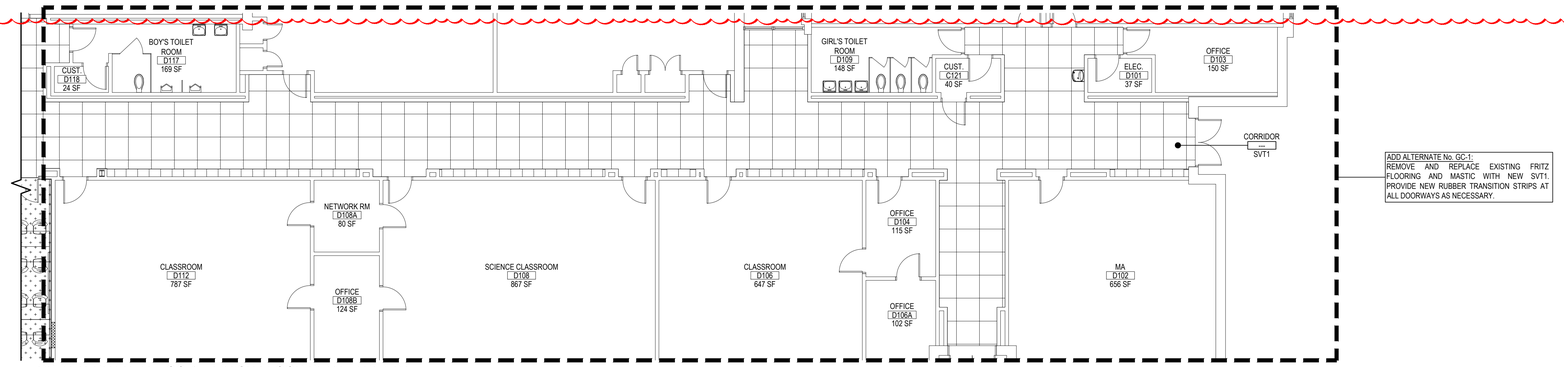
SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

A9.00



FINISH FLOOR PLAN - AREA 'A'

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



ADD ALTERNATE No. GC-1: REMOVE AND REPLACE EXISTING FRITZ FLOORING AND MASTIC WITH NEW SVT1. PROVIDE NEW RUBBER TRANSITION STRIPS AT ALL DOORWAYS AS NECESSARY.

ADD ALTERNATE No. GC-1 - FINISH FLOOR PLAN - AREA 'A'

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

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	CARPET TILE
	SOLID VINYL TILE
	LUXURY VINYL TILE
	RUBBER STAIR TREAD
	PORCELAIN FLOOR TILE
	PAINTED CONCRETE
	EPOXY BROADCAST
	WOOD
	RUBBER SPORTS FLOORING
	TURF FLOORING
	LOCATION OF WALL PANEL INSTALLATION

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FINISH FLOOR PLAN - AREA 'A'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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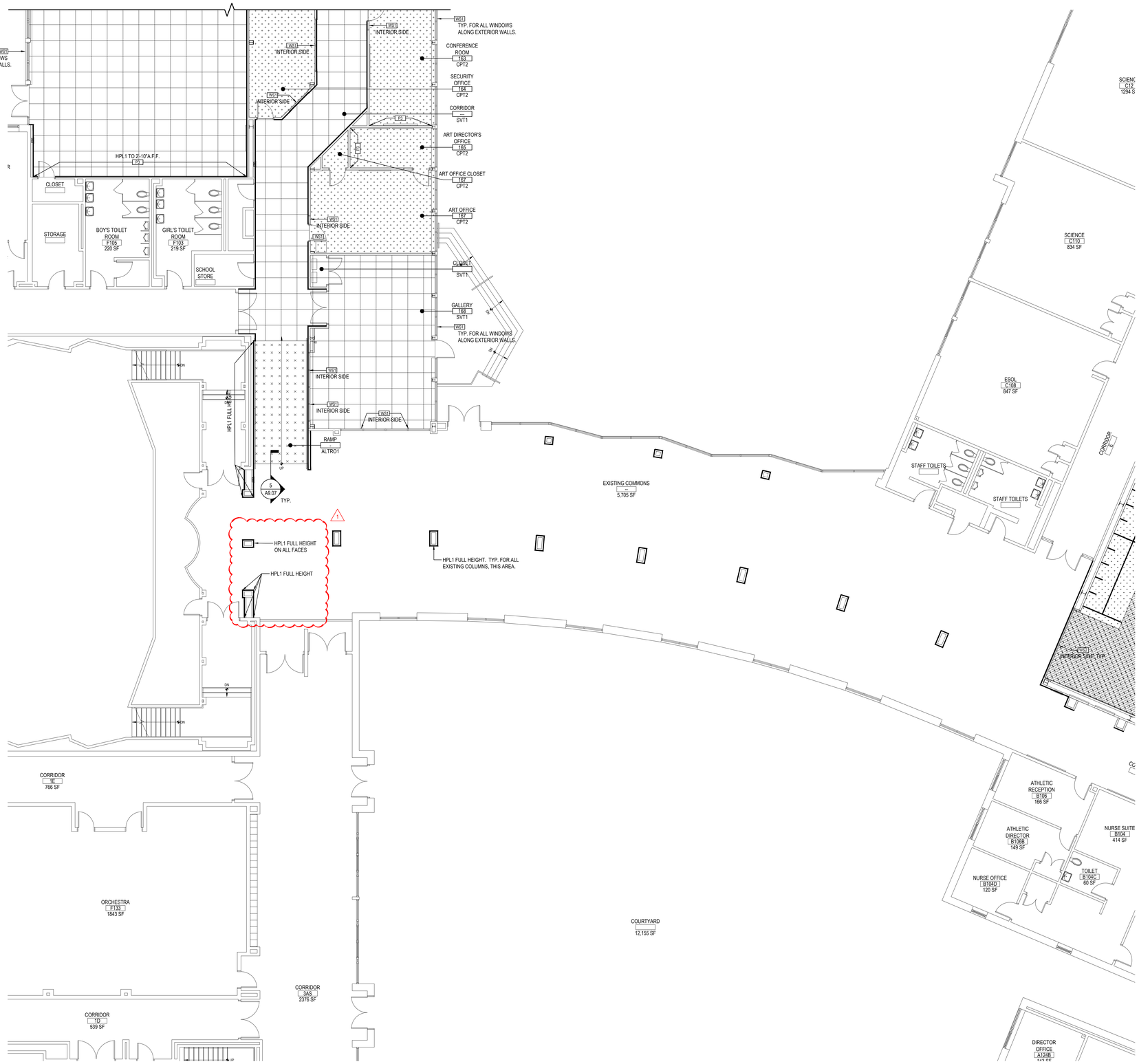
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FINISH FLOOR PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A9.01



AREA 'B' FIRST FLOOR PROPOSED PLAN

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

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	CARPET TILE
	SOLID VINYL TILE
	LUXURY VINYL TILE
	RUBBER STAIR TREAD
	PORCELAIN FLOOR TILE
	PAINTED CONCRETE
	EPOXY BROADCAST
	WOOD
	RUBBER SPORTS FLOORING
	TURF FLOORING
	SHEET VINYL- ALTRO1
	LOCATION OF WALL PANEL INSTALLATION

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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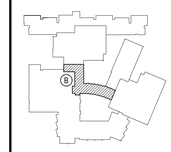

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FINISH FLOOR PLAN - AREA 'B'

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE FINISH FLOOR PLAN - AREA 'B'

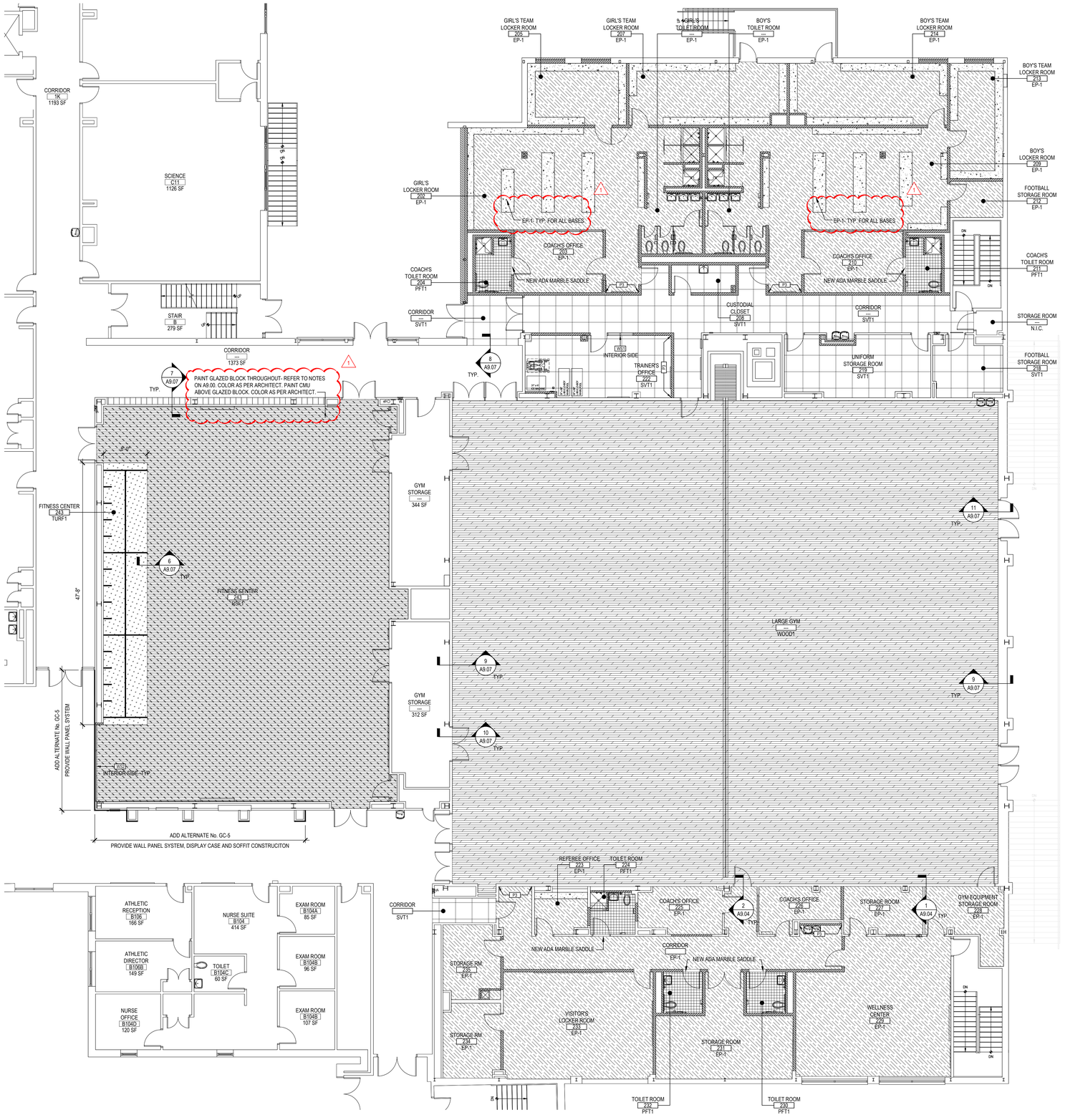
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

A9.02



AREA 'C' FIRST FLOOR PROPOSED PLAN

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

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
	CARPET TILE
	SOLID VINYL TILE
	LUXURY VINYL TILE
	RUBBER STAIR TREAD
	PORCELAIN FLOOR TILE
	PAINTED CONCRETE
	EPOXY BROADCAST
	WOOD
	RUBBER SPORTS FLOORING
	TURF FLOORING
	LOCATION OF WALL PANEL INSTALLATION

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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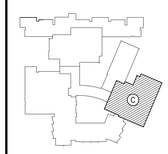

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FINISH FLOOR PLAN - AREA 'C'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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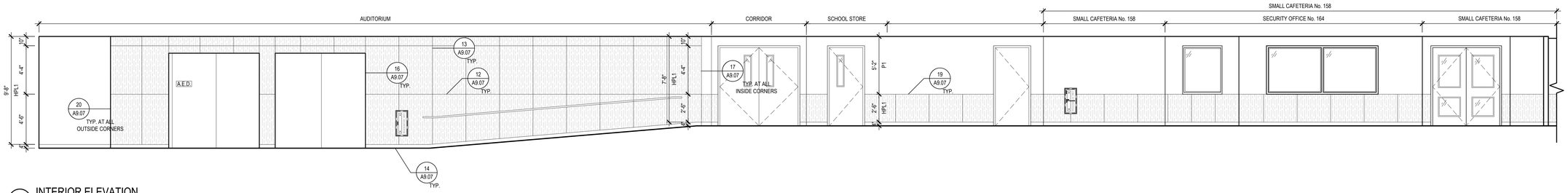
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FINISH FLOOR PLAN - AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

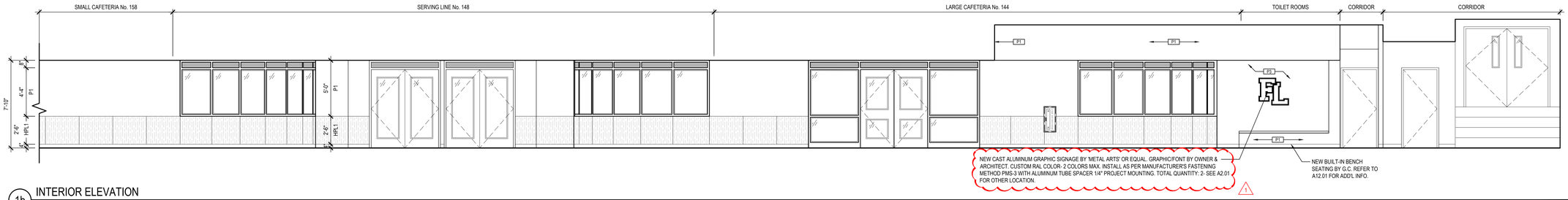
A9.03



1a INTERIOR ELEVATION

at STUDENT COMMONS and CORRIDOR

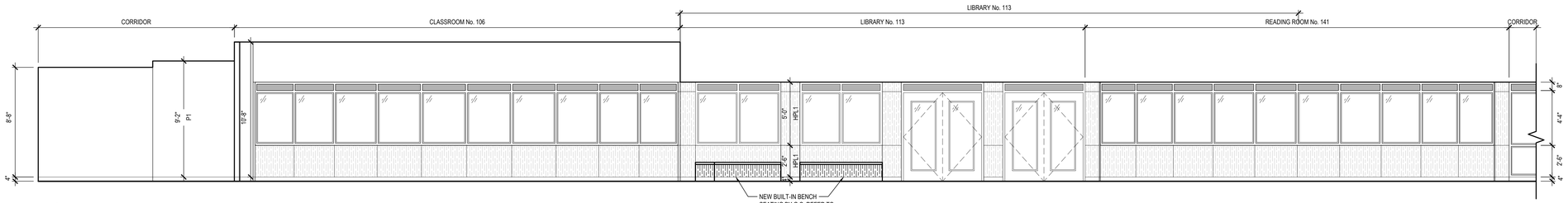
SCALE: 1/4" = 1'-0"



1b INTERIOR ELEVATION

at STUDENT COMMONS and CORRIDOR CONT.

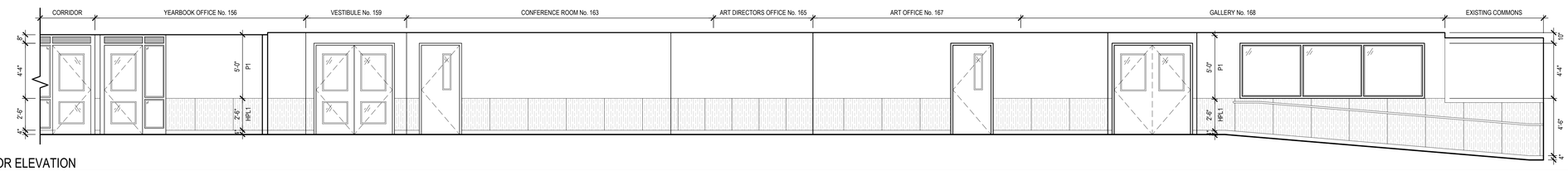
SCALE: 1/4" = 1'-0"



2a INTERIOR ELEVATION

at STUDENT COMMONS and CORRIDOR

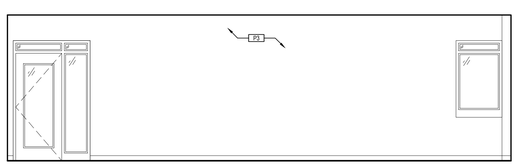
SCALE: 1/4" = 1'-0"



2b INTERIOR ELEVATION

at STUDENT COMMONS and CORRIDOR CONT.

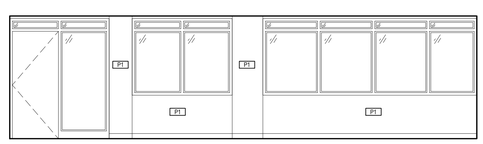
SCALE: 1/4" = 1'-0"



3 INTERIOR ELEVATION

at CLASSROOM No. 106

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



4 INTERIOR ELEVATION

at READING ROOM No. 141

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

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

INTERIOR ELEVATIONS

DRAWING BY: B.C.M.

CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE INTERIOR ELEVATIONS

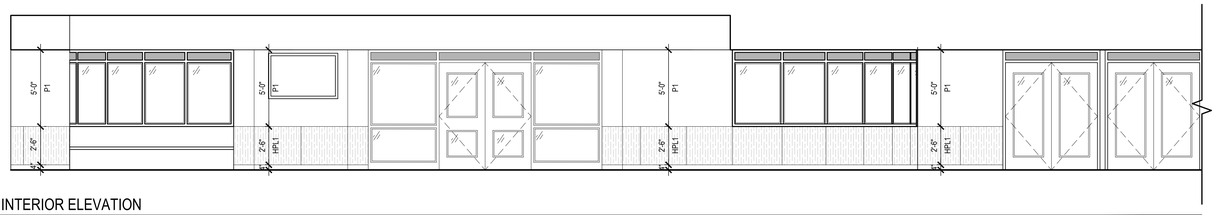
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

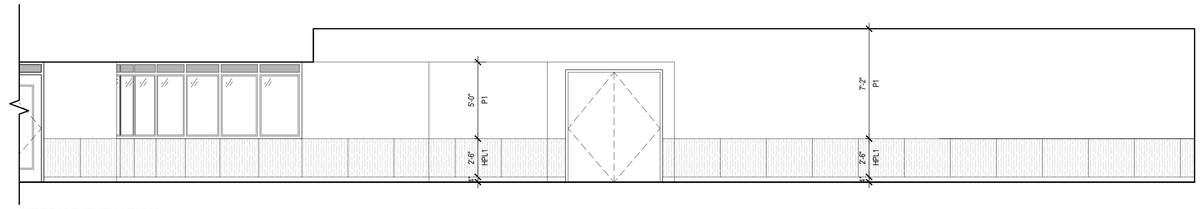
A9.04



5a INTERIOR ELEVATION

at LARGE CAFETERIA No. 144 and SMALL CAFETERIA No. 158

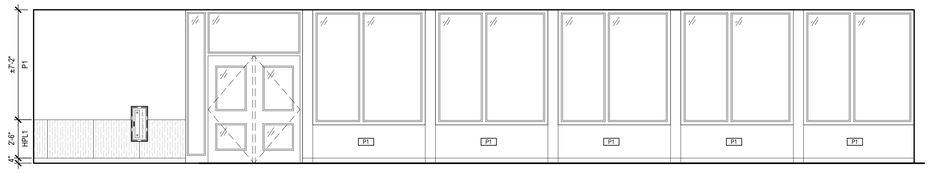
SCALE: 1/4" = 1'-0"



5b INTERIOR ELEVATION

at LARGE CAFETERIA No. 144 and SMALL CAFETERIA No. 158 CONT.

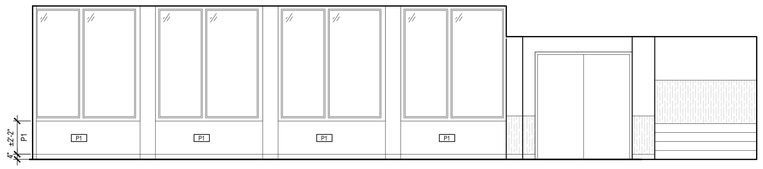
SCALE: 1/4" = 1'-0"



6 INTERIOR ELEVATION

at SMALL CAFETERIA No. 158

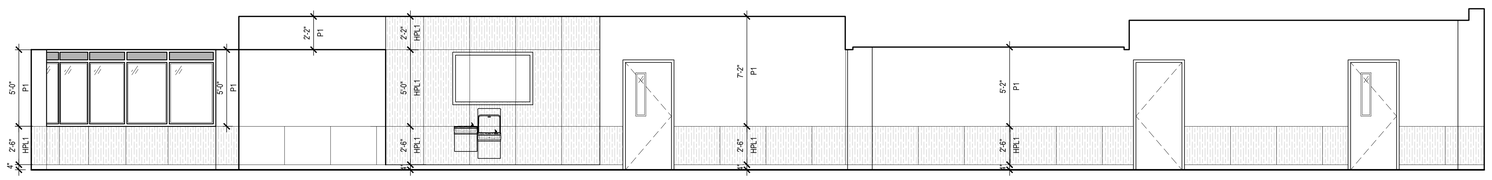
SCALE: 1/4" = 1'-0"



8 INTERIOR ELEVATION

at LARGE CAFETERIA No. 144

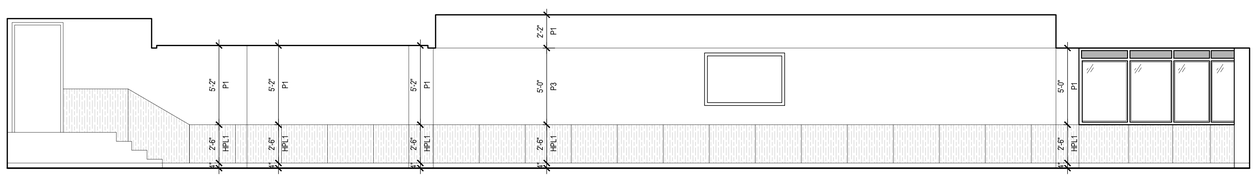
SCALE: 1/4" = 1'-0"



9 INTERIOR ELEVATION

at LARGE CAFETERIA No. 158

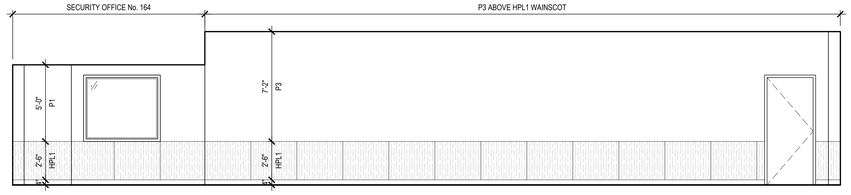
SCALE: 1/4" = 1'-0"



10 INTERIOR ELEVATION

at LARGE CAFETERIA No. 158

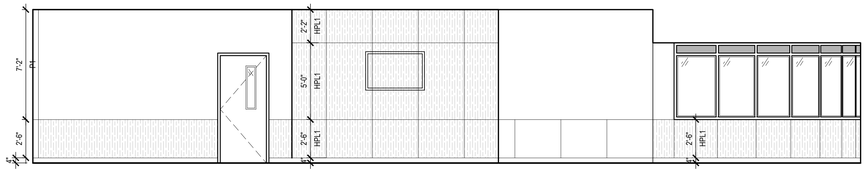
SCALE: 1/4" = 1'-0"



11 INTERIOR ELEVATION

at SMALL CAFETERIA No. 144

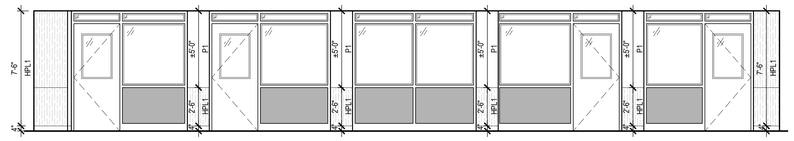
SCALE: 1/4" = 1'-0"



12 INTERIOR ELEVATION

at SMALL CAFETERIA No. 144

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



7 INTERIOR ELEVATION

at LARGE CAFETERIA No. 144 and SMALL CAFETERIA No. 158

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

INTERIOR ELEVATIONS

DRAWING BY:	B.C.M.
CHECK BY:	P.J.H.

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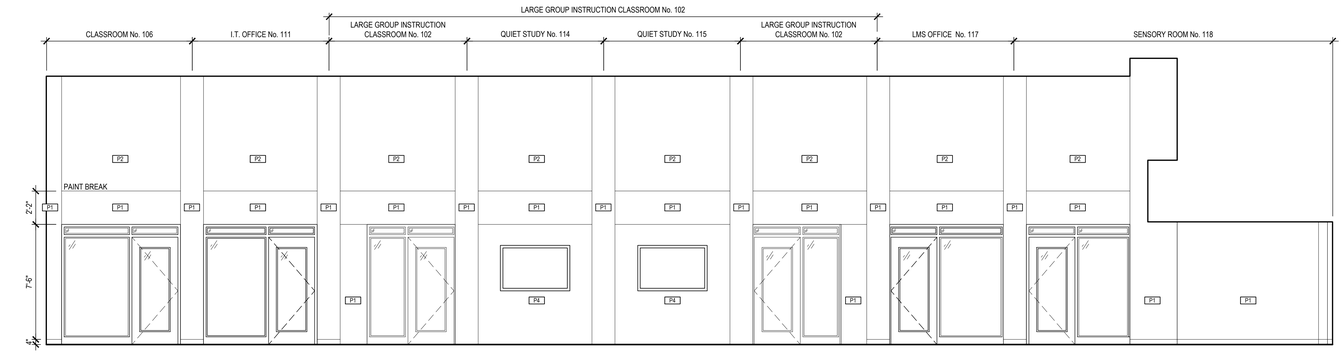
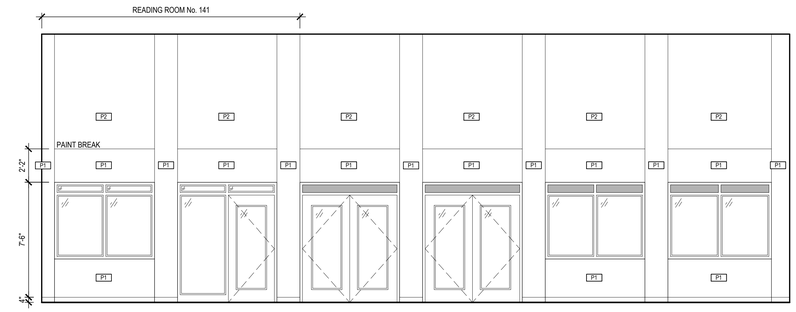
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	INTERIOR ELEVATIONS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

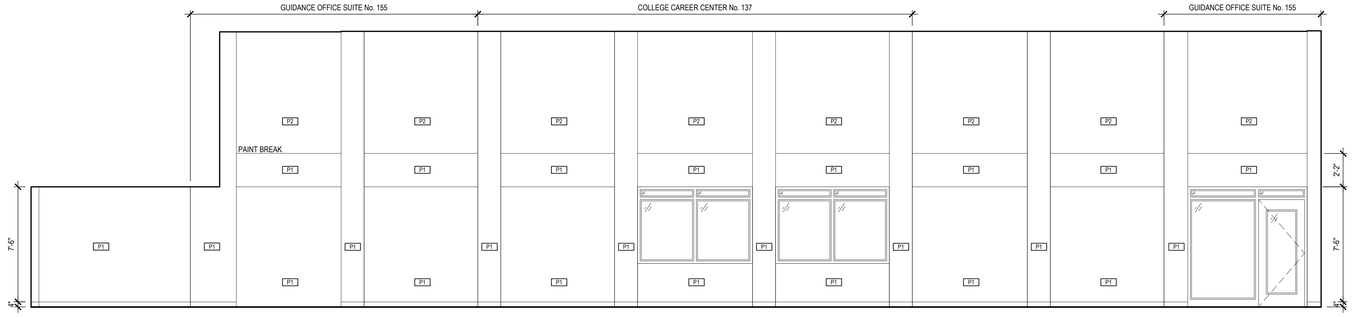
A9.05



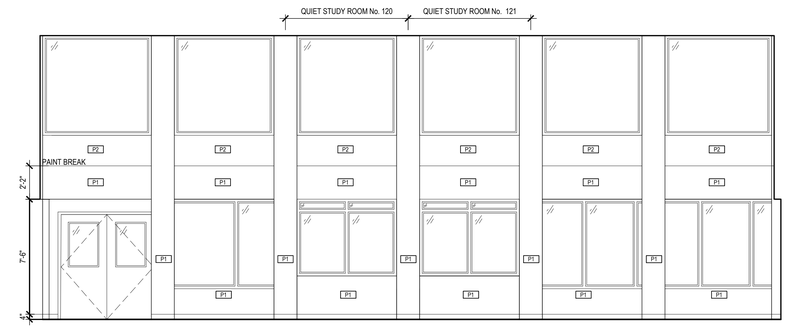
13 INTERIOR ELEVATION
at LIBRARY No. 113
SCALE: 1/4" = 1'-0"



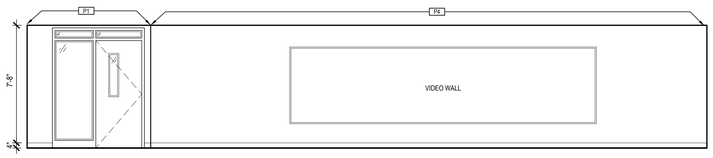
14 INTERIOR ELEVATION
at LIBRARY No. 113
SCALE: 1/4" = 1'-0"



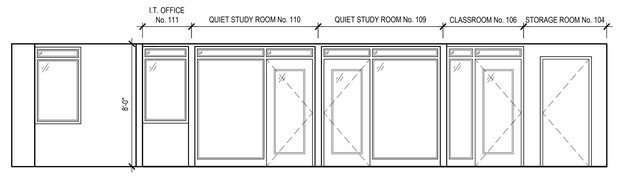
15 INTERIOR ELEVATION
at LIBRARY No. 113
SCALE: 1/4" = 1'-0"



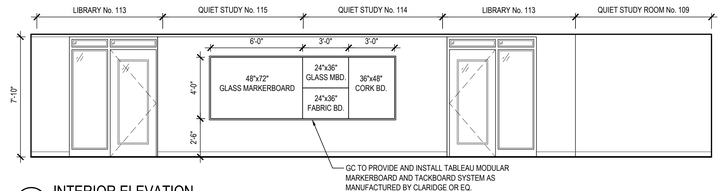
16 INTERIOR ELEVATION
at LIBRARY No. 113
SCALE: 1/4" = 1'-0"



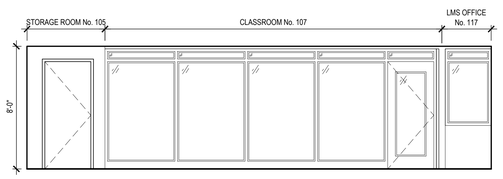
17 INTERIOR ELEVATION
at LARGE INSTRUCTOR CLASSROOM No. 102
SCALE: 1/4" = 1'-0"



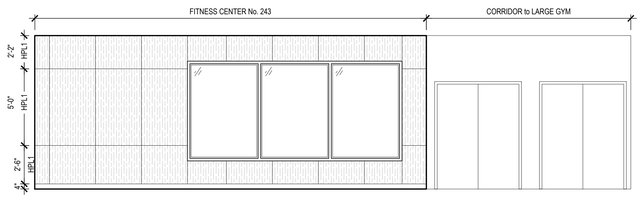
18 INTERIOR ELEVATION
at LARGE INSTRUCTOR CLASSROOM No. 102
SCALE: 1/4" = 1'-0"



19 INTERIOR ELEVATION
at LARGE INSTRUCTOR CLASSROOM No. 102
SCALE: 1/4" = 1'-0"



20 INTERIOR ELEVATION
at LARGE INSTRUCTOR CLASSROOM No. 102
SCALE: 1/4" = 1'-0"



21 INTERIOR ELEVATION
at EXISTING COMMONS
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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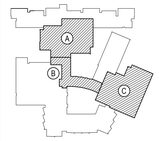

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
INTERIOR ELEVATIONS

DRAWING BY: B.C.M.
CHECK BY: P.J.H.

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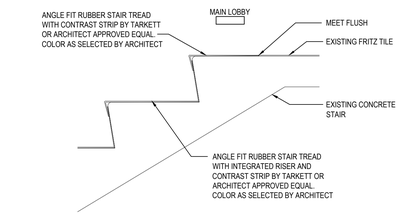
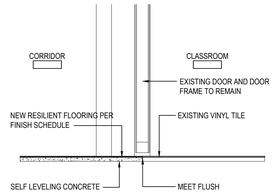
SED No. 66-01-02-06-0-003-024
DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PHASE 2 - BOND IMPROVEMENTS
DWG TITLE INTERIOR ELEVATIONS
SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

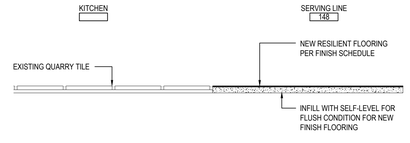
A9.06



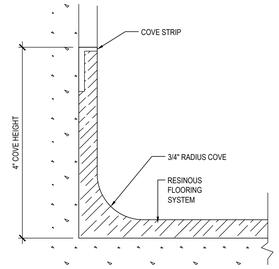
1 FINISH DETAIL
at MAIN LOBBY STAIRS — SCALE: 1-1/2" = 1'-0"



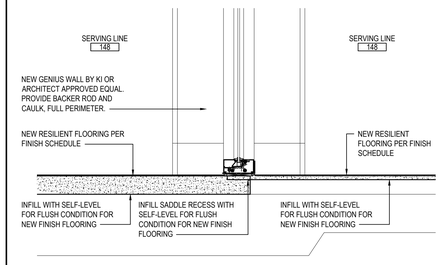
2 FINISH DETAIL
at CORRIDOR AND EXISTING CLASSROOM THRESHOLD — SCALE: 1-1/2" = 1'-0"



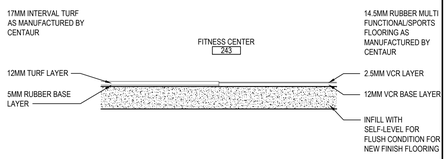
3 FINISH DETAIL
at KITCHEN and SERVING LINE No. 148 — SCALE: 1-1/2" = 1'-0"



4 FINISH DETAIL
at VARIOUS LOCATIONS — SCALE: 1-1/2" = 1'-0"

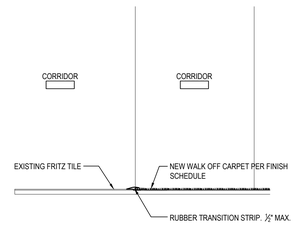


5 FINISH DETAIL
at SERVING LINE No. 148 — SCALE: 1-1/2" = 1'-0"

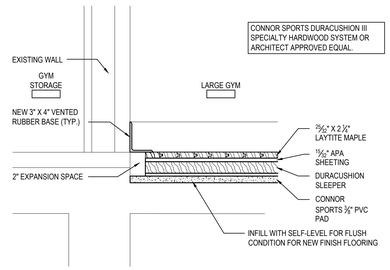


6 FINISH DETAIL
at FITNESS CENTER — SCALE: 1-1/2" = 1'-0"

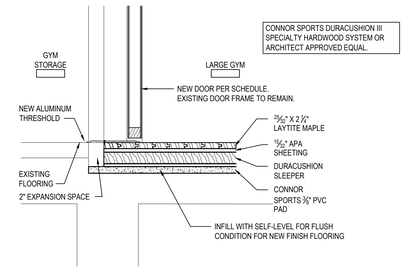
7 NOT USED



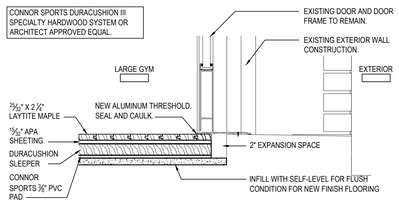
8 FINISH DETAIL
at CORRIDOR — SCALE: 1-1/2" = 1'-0"



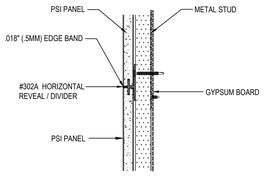
9 FINISH DETAIL
at LARGE GYM WALL BASE — SCALE: 1-1/2" = 1'-0"



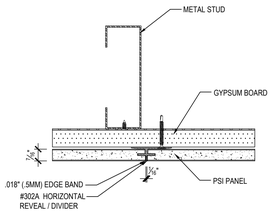
10 FINISH DETAIL
at LARGE GYM INTERIOR DOOR THRESHOLD — SCALE: 1-1/2" = 1'-0"



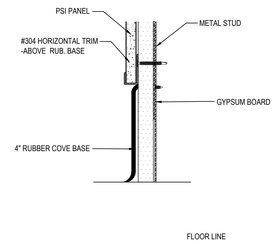
11 FINISH DETAIL
at LARGE GYM EXTERIOR DOOR THRESHOLD — SCALE: 1-1/2" = 1'-0"



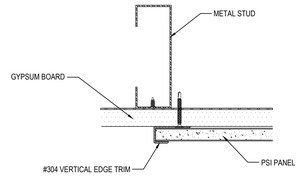
12 MIDWALL PANEL JOINT DETAIL
SCALE: 6" = 1'-0"



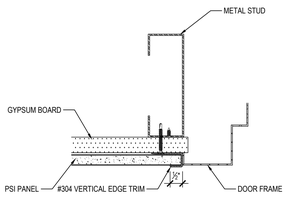
13 MIDWALL PANEL JOINT DETAIL
SCALE: 6" = 1'-0"



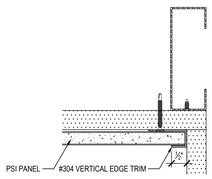
14 PERIMETER TRIM at BASE OF WALL PANEL SYSTEM
SCALE: 6" = 1'-0"



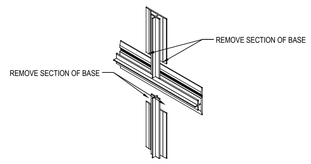
15 VERTICAL EDGE TRIM DETAIL
SCALE: 6" = 1'-0"



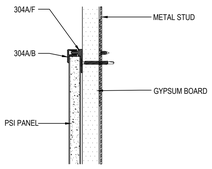
16 EDGE TRIM DETAIL at HOLLOW METAL FRAME
SCALE: 6" = 1'-0"



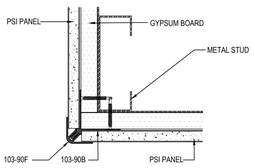
17 EDGE TRIM DETAIL at INSIDE CORNER
SCALE: 6" = 1'-0"



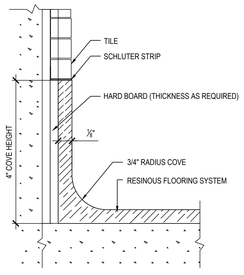
18 REVEAL INTERSECTION DETAIL
SCALE: 6" = 1'-0"



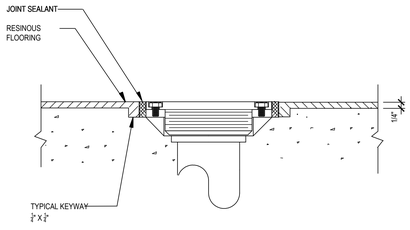
19 TRIM at TOP OF WALL PANEL SYSTEM
SCALE: 6" = 1'-0"



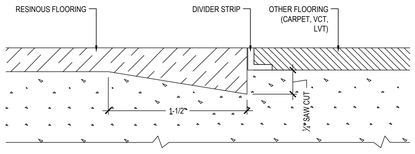
20 EDGE TRIM DETAIL at OUTSIDE CORNER
SCALE: 6" = 1'-0"



21 RESINOUS COVE BASE DETAIL
SCALE: N.T.S.



22 RESINOUS FLOORING at FLOOR DRAIN / CLEANOUT
SCALE: N.T.S.



23 RESINOUS FLOORING TRANSITION DETAIL
SCALE: N.T.S.

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
FINISH DETAILS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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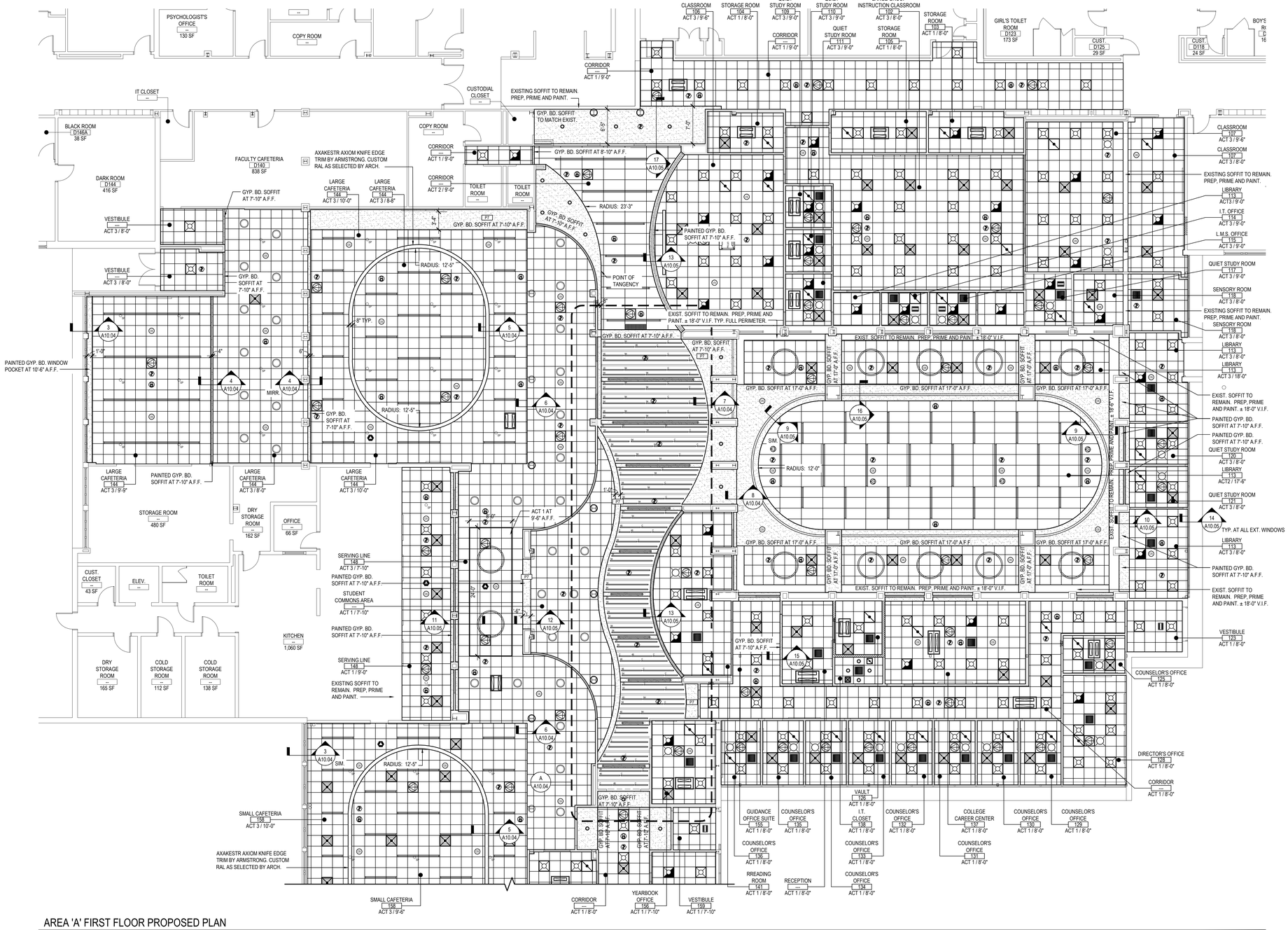
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FINISH DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A9.07



AREA 'A' FIRST FLOOR PROPOSED PLAN

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

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ROOM NAME 000 CLG. HEIGHT / TYPE	ROOM TAG, CEILING TILE TYPE AND FINISH CEILING ELEVATION (A.F.F.)
NO CLG.	OPEN TO STRUCTURE AND DECK ABOVE (PAINT)
	SUSPENDED ACOUSTICAL CEILING TILE AND GRID
	SUSPENDED ACOUSTICAL CEILING TILE AND GRID
	GYPSUM BOARD SOFFIT OVER METAL FRAMING. REFER TO DETAIL, THIS SHEET. TAPE, SPACKLE AND PAINT.
	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE BY E.C. REFER TO E-SERIES DRAWINGS.
HUB	LIGHTING CONTROL SYSTEM BY E.C. REFER TO E-SERIES DRAWINGS.
	EXIT SIGN BY E.C. REFER TO E-SERIES DRAWINGS.
	CEILING MOUNTED SPEAKER BY E.C. REFER TO E-SERIES DRAWINGS.
	SMOKE DETECTOR BY E.C. REFER TO E-SERIES DRAWINGS.
OS	OCCUPANCY SENSOR BY E.C. REFER TO E-SERIES DRAWINGS.
	FIRE ALARM DEVICES BY E.C. REFER TO E-SERIES DRAWINGS.
	CEILING MOUNTED PROJECTOR BY E.C. REFER TO E-SERIES DRAWINGS.
SP	EXISTING SPRINKLER HEAD. EXTEND TO NEW CEILING HEIGHT.
	CEILING GRILLE / REGISTER BY M.C. REFER TO M-SERIES DRAWINGS.
	CEILING MOUNTED CABINET HEATER BY M.C. REFER TO M-SERIES DRAWINGS.
	CEILING CASSETTE BY M.C. REFER TO M-SERIES DRAWINGS.
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

TYPICAL REFLECTED CEILING PLAN NOTES

1. CEILING PLANS MAY NOT INDICATE ALL MECHANICAL AND / OR ELECTRICAL CEILING MOUNTED ITEMS. REFER TO M - SERIES AND E - SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
2. CEILING GRID SHALL BE ARRANGED TO BE SPACED EQUALLY IN EACH DIRECTION WITH NO TILE LESS THAN 6" UNLESS OTHERWISE REQUIRED.
3. PROVIDE CEILING EXPANSION JOINT AT ALL NEW TO EXISTING INTERSECTIONS AND WHERE INDICATED ON PLANS.
4. UNLESS OTHERWISE NOTED, ALL SOFFITS AND WINDOW POCKETS SHALL BE 5/8" TYPE 'X' GYP. BOARD OVER 18 GA. COLD FORMED FRAMING AT 16" O.C.
5. ALL AREAS NOTED AS 'OPEN' AND / OR 'NO CEILING (CLG.) SHALL BE PAINTED - INCLUDING BUT NOT LIMITED TO DECK, STRUCTURE, DUCTWORK, ETC.)
6. ACOUSTICAL CEILINGS SHALL HAVE A FLAME SPREAD OF 25 OR LESS COMPLYING WITH ASTM E-84; SMOKE DEVELOPED RATING OF 50 OR LESS COMPLYING WITH PERFORMANCE REQUIREMENTS AND PHYSICAL CHARACTERISTICS OF THE SPECIFIED CEILINGS AS INDICATED IN THE REFLECTED CEILING PLAN. (ASTM E-1264)
7. ACOUSTICAL CEILINGS SHALL HAVE A MINIMUM NOISE REDUCTION COEFFICIENT (NRC) RATING OF 0.65.

CEILING TYPES

TYPE ACT1: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 3/4"
STYLE: #1910 ULTIMA SQUARE LAY-IN
(CORRIDORS, CLASSROOMS, OFFICES)

TYPE ACT2: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 48" X 1", NRC RATING .95
STYLE: #8357PBWVA LYRBA PB SQUARE TEGULAR- WOOD LOOKS
**TILE EDGE TO BE FACTORY PAINTED SW9096
**INCLUDE 9/16" SUPRAFINE XL SUSPENSION SYSTEM IN COLOR HAY
(ACCENT IN LIBRARY/CAFETERIA/CORRIDOR)

TYPE ACT3: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 1", NRC RATING .95
STYLE: #3250 OPTIMA SQUARE TEGULAR
(LIBRARY, CAFETERIA)

TYPE ACT4: ACOUSTIC TECTUM CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 1 1/2" WITH HOLD DOWN CLIPS 8178T20
STYLE: TECTUM SQUARE TEGULAR
(LOCKER ROOMS)

TYPE ACT5: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 7/8", NRC RATING .80
STYLE: #1445 ULTIMA HEALTH ZONE HIGH NRC, SQUARE LAY IN
(TOILET ROOMS, KITCHENS)

TYPE ACT6: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 5/8"
STYLE: 1772 DUNE SQUARE LAY-IN
(CUSTODIAL, STORAGE)

TYPE ACT7: GYPSUM WALLBOARD, SQUARE EDGE LAY-IN.
SIZE: 24"X24"X5/8" PRIME & PAINT WALLBOARD BM READY-MIX WHITE PRIOR TO INSTALLING.

CEILING GRID BY "ARMSTRONG", 15/16" PRELUDE, U.O.N.
NOTE: ALL CEILING TILE & GRID TO BE STANDARD WHITE UNLESS OTHERWISE NOTED.

CEILING BAFFLES

TYPE AP1: RECTANGULAR VERTICAL LINEAR ACOUSTICAL PANELS AS MANUFACTURED BY "ARMSTRONG"
COLLECTION: SOUNDSCAPES BLADES - WOOD LOOKS
SIZE: 10'0 X 48"L X 1 3/4" THICK OR 10'0 X 94"L X 1 3/4" THICK
LENGTH VARIES *SOME CUSTOM LENGTHS REQUIRED*
**INDIVIDUAL SUSPENSION HANGING METHOD REQUIRED
-HANGING KIT 8655LBCR EVERY 2' O.C. TYP.

REV.	DATE	ITEM

NOTICE

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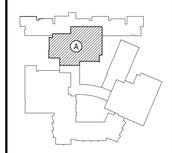

KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: REFLECTED CEILING PLAN - AREA 'A'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	REFLECTED CEILING PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A10.01

AREA 'B' FIRST FLOOR PROPOSED PLAN

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

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ROOM NAME 000 CLG. HEIGHT / TYPE	ROOM TAG, CEILING TILE TYPE AND FINISH CEILING ELEVATION (A.F.F.)
NO CLG.	OPEN TO STRUCTURE AND DECK ABOVE (PAINT)
	SUSPENDED ACOUSTICAL CEILING TILE AND GRID
	SUSPENDED ACOUSTICAL CEILING TILE AND GRID
	GYPSUM BOARD SOFFIT OVER METAL FRAMING. REFER TO DETAIL, THIS SHEET. TAPE, SPACKLE AND PAINT.
	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE BY E.C. REFER TO E-SERIES DRAWINGS.
HUB	LIGHTING CONTROL SYSTEM BY E.C. REFER TO E-SERIES DRAWINGS.
	EXIT SIGN BY E.C. REFER TO E-SERIES DRAWINGS.
	CEILING MOUNTED SPEAKER BY E.C. REFER TO E-SERIES DRAWINGS.
	SMOKE DETECTOR BY E.C. REFER TO E-SERIES DRAWINGS.
OS	OCCUPANCY SENSOR BY E.C. REFER TO E-SERIES DRAWINGS.
	FIRE ALARM DEVICES BY E.C. REFER TO E-SERIES DRAWINGS.
	CEILING MOUNTED PROJECTOR BY E.C. REFER TO E-SERIES DRAWINGS.
SP	EXISTING SPRINKLER HEAD. EXTEND TO NEW CEILING HEIGHT.
	CEILING GRILLE / REGISTER BY M.C. REFER TO M-SERIES DRAWINGS.
	CEILING MOUNTED CABINET HEATER BY M.C. REFER TO M-SERIES DRAWINGS.
	CEILING CASSETTE BY M.C. REFER TO M-SERIES DRAWINGS.
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

CEILING TYPES

TYPE ACT1: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 3/4"
STYLE: #1910 ULTIMA SQUARE LAY-IN
(CORRIDORS, CLASSROOMS, OFFICES)

TYPE ACT2: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 48" X 1", NRC RATING .95
STYLE: #8357PBWVA LYRBA PB SQUARE TEGULAR- WOOD LOOKS
**TILE EDGE TO BE FACTORY PAINTED SW9096
**INCLUDE 9/16" SUPRAFINE XL SUSPENSION SYSTEM IN COLOR HAY
(ACCENT IN LIBRARY/CAFETERIA/CORRIDOR)

TYPE ACT3: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 1", NRC RATING .95
STYLE: #1250 OPTIMA SQUARE TEGULAR
(LIBRARY, CAFETERIA)

TYPE ACT4: ACOUSTIC TECTUM CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 1 1/2" WITH HOLD DOWN CLIPS 8178T20
STYLE: TECTUM SQUARE TEGULAR
(LOCKER ROOMS)

TYPE ACT5: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 7/8", NRC RATING .80
STYLE: #1445 ULTIMA HEALTH ZONE HIGH NRC, SQUARE LAY IN
(TOILET ROOMS, KITCHENS)

TYPE ACT6: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 5/8"
STYLE: 1772 DUNE SQUARE LAY-IN
(CUSTODIAL, STORAGE)

TYPE ACT7: GYPSUM WALLBOARD, SQUARE EDGE LAY-IN.
SIZE: 24"X24"X5/8" PRIME & PAINT WALLBOARD BM READY-MIX WHITE
PRIOR TO INSTALLING.

CEILING GRID BY "ARMSTRONG". 15/16" PRELUDE, U.O.N.
NOTE: ALL CEILING TILE & GRID TO BE STANDARD WHITE UNLESS OTHERWISE NOTED.

CEILING BAFFLES

TYPE AP1: RECTANGULAR VERTICAL LINEAR ACOUSTICAL PANELS AS MANUFACTURED BY "ARMSTRONG"
COLLECTION: SOUNDSCAPES BLADES - WOOD LOOKS
SIZE: 10"D X 46"L X 1 3/4" THICK OR 10"D X 94"L X 1 3/4" THICK
LENGTH VARIES *SOME CUSTOM LENGTHS REQUIRED*
**INDIVIDUAL SUSPENSION HANGING METHOD REQUIRED
-HANGING KIT 6655L8CR EVERY 2' 0.C. TYP.

REV.	DATE	ITEM

NOTICE

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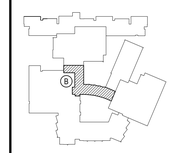

KEY PLAN

NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
REFLECTED CEILING PLAN - AREA 'B'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	REFLECTED CEILING PLAN - AREA 'B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A10.02

AREA 'C' FIRST FLOOR PROPOSED PLAN

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

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ROOM NAME 000 / CLG. HEIGHT / TYPE	ROOM TAG, CEILING TILE TYPE AND FINISH CEILING ELEVATION (A.F.F.)
NO CLG.	OPEN TO STRUCTURE AND DECK ABOVE (PAINT)
	SUSPENDED ACOUSTICAL CEILING TILE AND GRID
	SUSPENDED ACOUSTICAL CEILING TILE AND GRID
	GYPSUM BOARD SOFFIT OVER METAL FRAMING. REFER TO DETAIL, THIS SHEET. TAPE, SPACKLE AND PAINT.
	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE BY E.C. REFER TO E-SERIES DRAWINGS.
HUB	LIGHTING CONTROL SYSTEM BY E.C. REFER TO E-SERIES DRAWINGS.
	EXIT SIGN BY E.C. REFER TO E-SERIES DRAWINGS.
	CEILING MOUNTED SPEAKER BY E.C. REFER TO E-SERIES DRAWINGS.
	SMOKE DETECTOR BY E.C. REFER TO E-SERIES DRAWINGS.
OS	OCCUPANCY SENSOR BY E.C. REFER TO E-SERIES DRAWINGS.
	FIRE ALARM DEVICES BY E.C. REFER TO E-SERIES DRAWINGS.
	CEILING MOUNTED PROJECTOR BY E.C. REFER TO E-SERIES DRAWINGS.
SP	EXISTING SPRINKLER HEAD. EXTEND TO NEW CEILING HEIGHT.
	CEILING GRILLE / REGISTER BY M.C. REFER TO M-SERIES DRAWINGS.
	CEILING MOUNTED CABINET HEATER BY M.C. REFER TO M-SERIES DRAWINGS.
	CEILING CASSETTE BY M.C. REFER TO M-SERIES DRAWINGS.
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

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SIZE: 24" X 24" X 3/4"
STYLE: #1910 ULTIMA SQUARE LAY-IN
(CORRIDORS, CLASSROOMS, OFFICES)

TYPE ACT2: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 48" X 1", NRC RATING .95
STYLE: #9307PBWVALY96A PB SQUARE TEGULAR- WOOD LOOKS
**TILE EDGE TO BE FACTORY PAINTED SW9096
**INCLUDE 9/16" SUPRAFINE XL SUSPENSION SYSTEM IN COLOR HAY
(ACCENT IN LIBRARY/CAFETERIA/CORRIDOR)

TYPE ACT3: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 1", NRC RATING .95
STYLE: #3250 OPTIMA SQUARE TEGULAR
(LIBRARY, CAFETERIA)

TYPE ACT4: ACOUSTIC TECTUM CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 1 1/2" WITH HOLD DOWN CLIPS #178T20
STYLE: TECTUM SQUARE TEGULAR
(LOCKER ROOMS)

TYPE ACT5: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 7/8", NRC RATING .80
STYLE: #1445 ULTIMA HEALTH ZONE HIGH NRC, SQUARE LAY IN
(TOILET ROOMS, KITCHENS)

TYPE ACT6: ACOUSTIC CEILING TILE BY "ARMSTRONG"
SIZE: 24" X 24" X 5/8"
STYLE: 1772 DUNE SQUARE LAY-IN
(CUSTODIAL, STORAGE)

TYPE ACT7: GYPSUM WALLBOARD, SQUARE EDGE LAY-IN.
SIZE: 24"X24"X5/8" PRIME & PAINT WALLBOARD BM READY-MIX WHITE
PRIOR TO INSTALLING.

CEILING GRID BY "ARMSTRONG", 15/16" PRELUDE, U.O.N.
NOTE: ALL CEILING TILE & GRID TO BE STANDARD WHITE UNLESS OTHERWISE NOTED.

CEILING BAFFLES

TYPE AP1: RECTANGULAR VERTICAL LINEAR ACOUSTICAL PANELS AS MANUFACTURED BY "ARMSTRONG"
COLLECTION: SOUNDSCAPES BLADES - WOOD LOOKS
SIZE: 10"D X 46"L X 1 3/4" THICK OR 10"D X 94"L X 1 3/4" THICK
LENGTH VARIES *SOME CUSTOM LENGTHS REQUIRED*
**INDIVIDUAL SUSPENSION HANGING METHOD REQUIRED
-HANGING KIT 6655L8CR EVERY 2' 0.C. TYP.

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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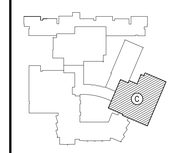

KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: REFLECTED CEILING PLAN - AREA 'C'

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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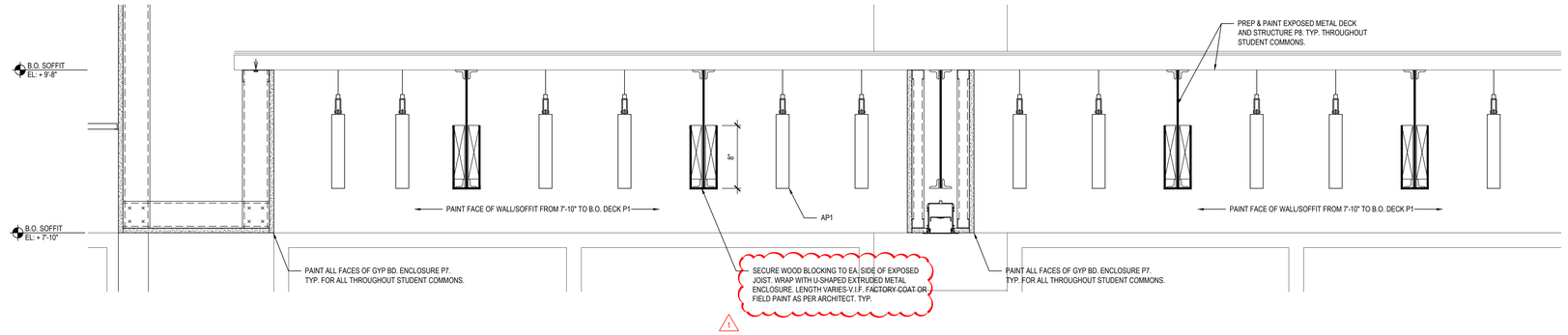
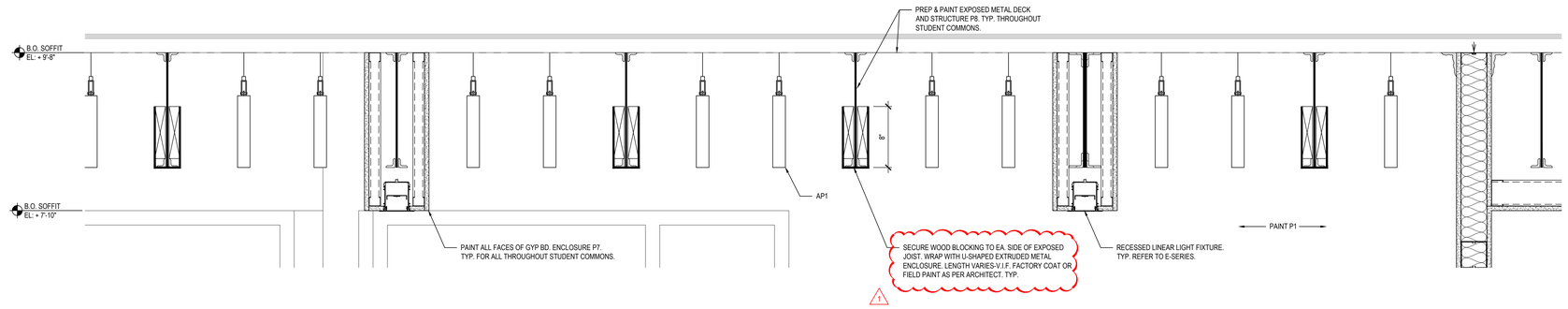
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	REFLECTED CEILING PLAN - AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A10.03



1 CEILING DETAIL

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



2 CEILING DETAIL

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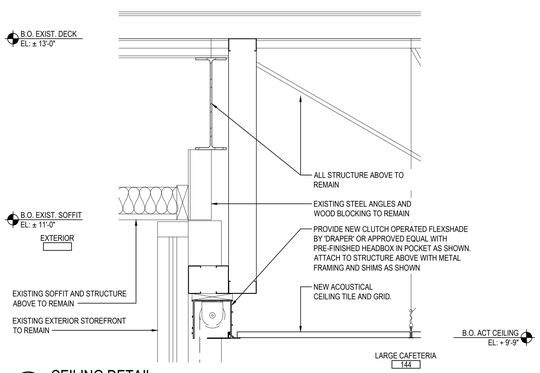
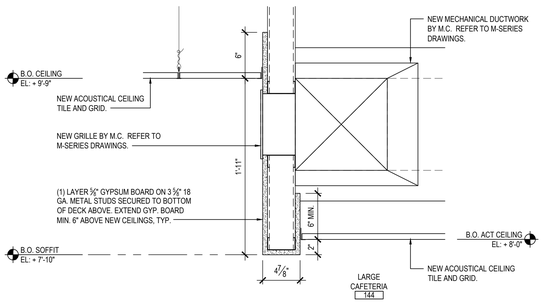


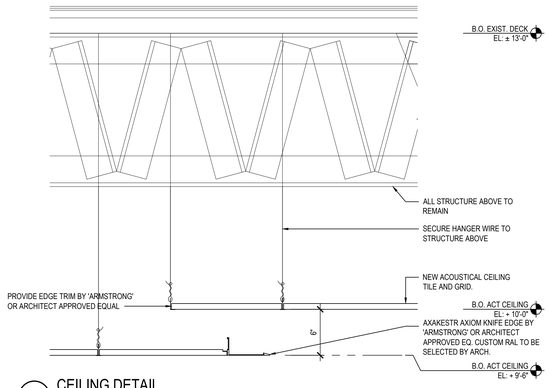
3 CEILING DETAIL

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



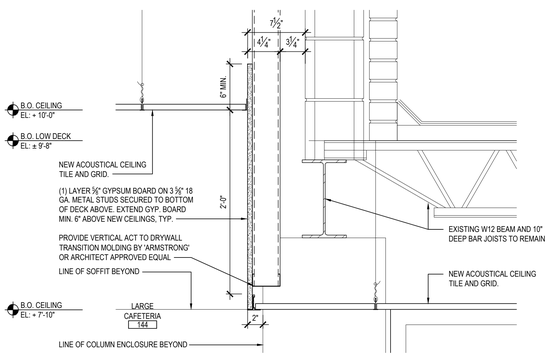
4 CEILING DETAIL

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



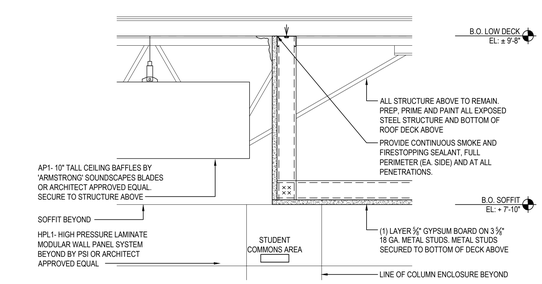
5 CEILING DETAIL

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



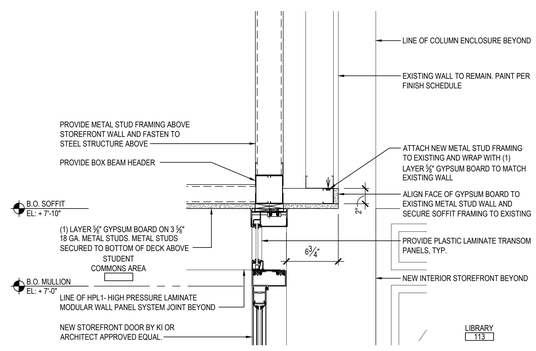
6 CEILING DETAIL

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



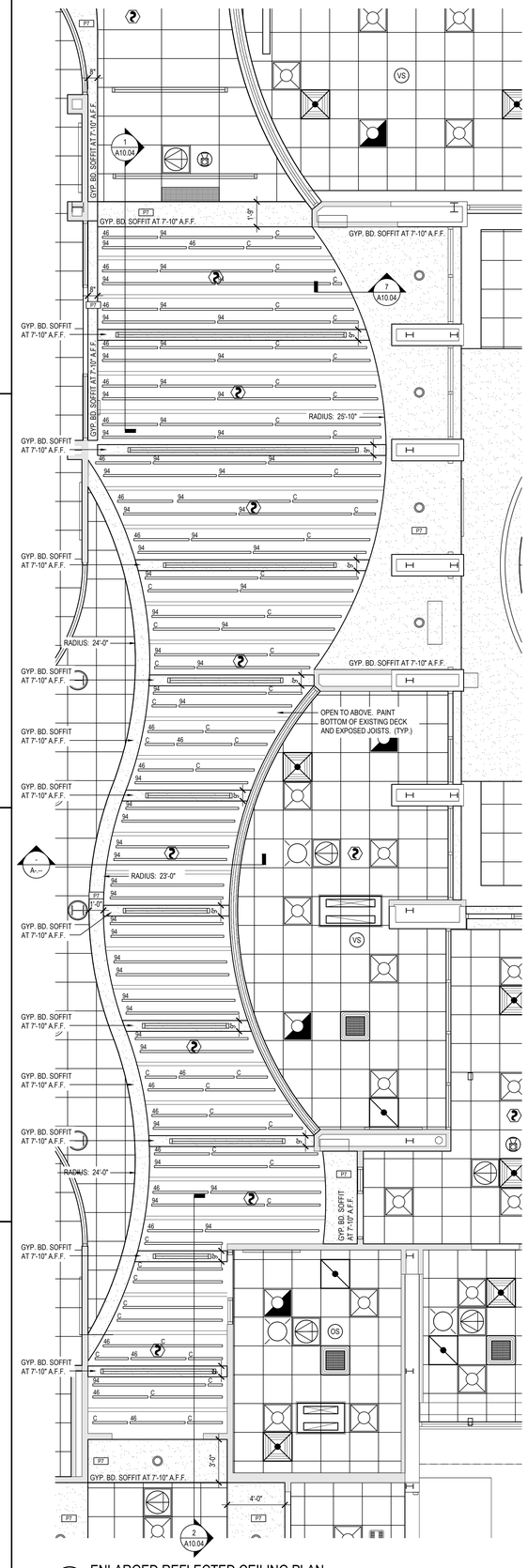
7 CEILING DETAIL

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



8 CEILING DETAIL

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



A ENLARGED REFLECTED CEILING PLAN

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

REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

CEILING DETAILS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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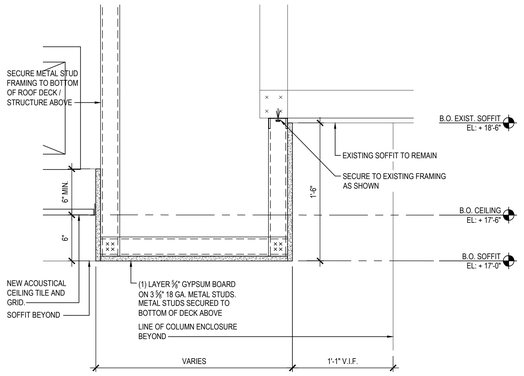
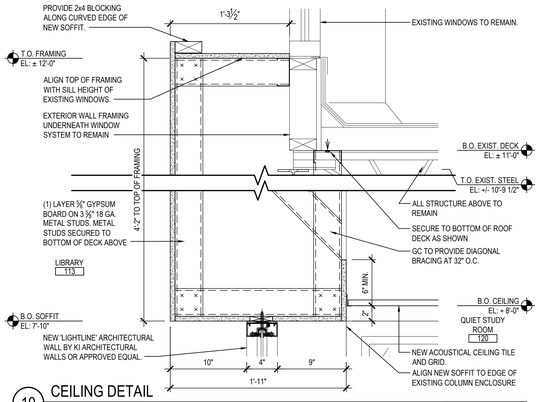
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	CEILING DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A10.04



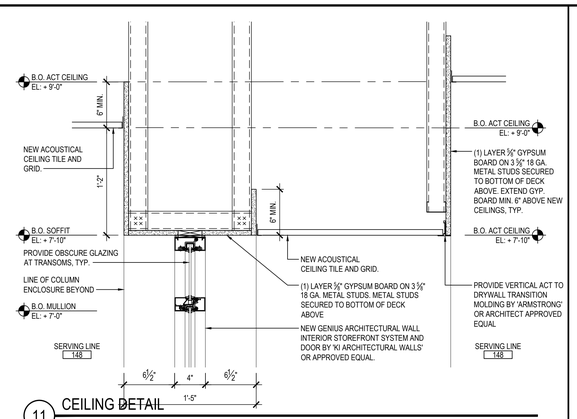
9 CEILING DETAIL

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



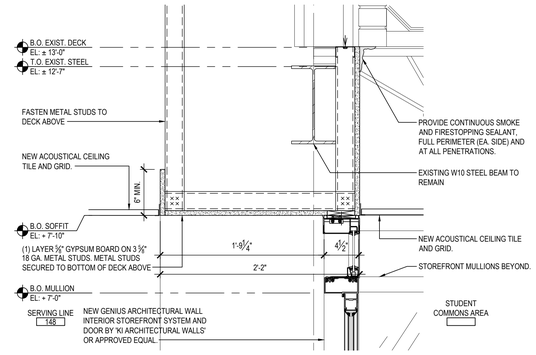
10 CEILING DETAIL

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



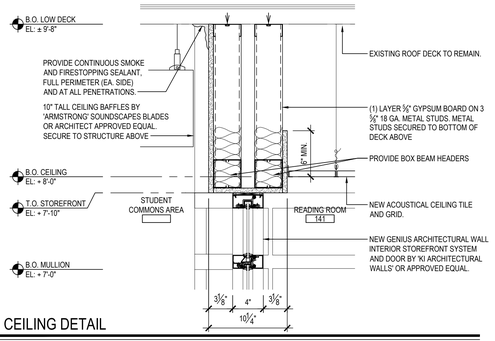
11 CEILING DETAIL

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



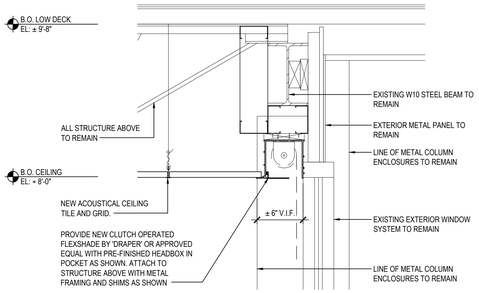
12 CEILING DETAIL

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



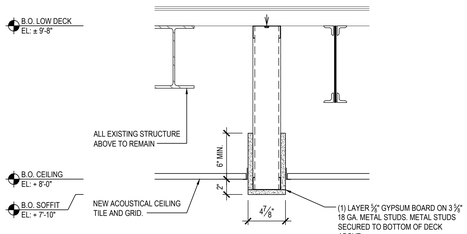
13 CEILING DETAIL

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



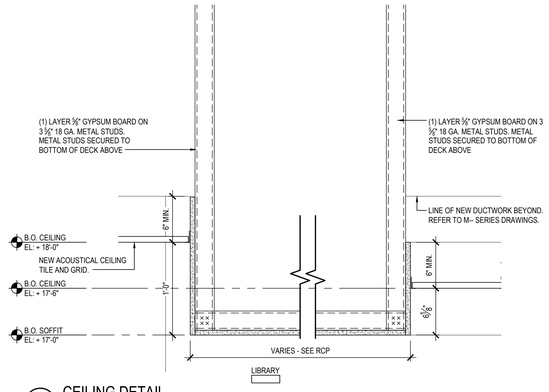
14 CEILING DETAIL

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



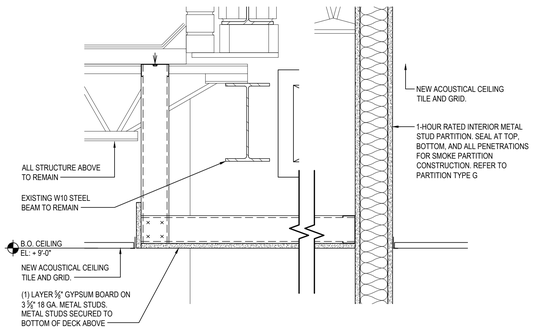
15 CEILING DETAIL

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



16 CEILING DETAIL

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



17 CEILING DETAIL

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

REV.	DATE	ITEM

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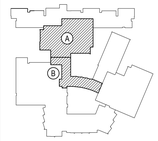

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

CEILING DETAILS

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE CEILING DETAILS

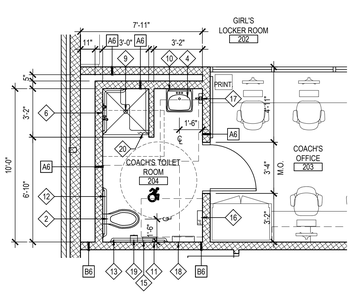
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

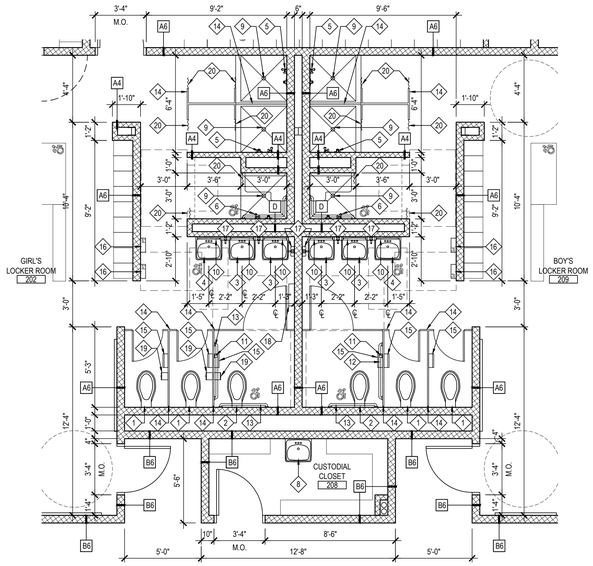
FILE No: 23-131a FLHS

A10.05



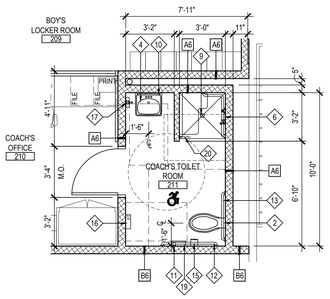
1 ENLARGED TOILET ROOM PLAN

NOTE: USE ADULT HEIGHT FIXTURES. SCALE: 1/4" = 1'-0"



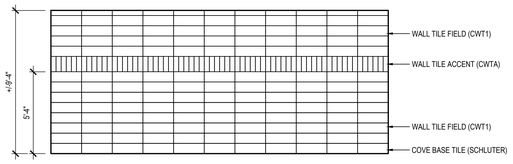
2 ENLARGED TOILET ROOM PLAN

NOTE: USE ADULT HEIGHT FIXTURES. SCALE: 1/4" = 1'-0"



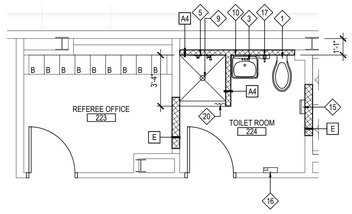
3 ENLARGED TOILET ROOM PLAN

NOTE: USE ADULT HEIGHT FIXTURES. SCALE: 1/4" = 1'-0"



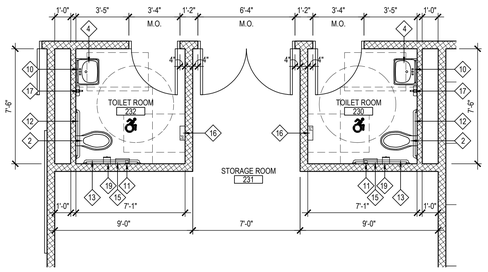
TYPICAL TOILET ROOM ELEVATION

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



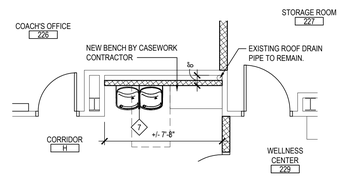
4 ENLARGED TOILET ROOM PLAN

NOTE: USE ADULT HEIGHT FIXTURES. SCALE: 1/4" = 1'-0"



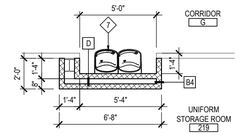
5 ENLARGED TOILET ROOM PLAN

NOTE: USE ADULT HEIGHT FIXTURES. SCALE: 1/4" = 1'-0"



7 ENLARGED DRINKING FOUNTAIN PLAN

NOTE: USE ADULT HEIGHT FIXTURES. SCALE: 1/4" = 1'-0"



8 ENLARGED DRINKING FOUNTAIN PLAN

NOTE: USE ADULT HEIGHT FIXTURES. SCALE: 1/4" = 1'-0"

TOILET FIXTURE MOUNTING HEIGHTS

1. AT ALL STUDENT USE TOILET FACILITIES, ALL TOILET FIXTURES, URINALS, LAVATORIES, GRAB BARS, ACCESSORIES, ETC. SHALL BE MOUNTED EITHER AT ADULT HEIGHT OR CHILD HEIGHT AS INDICATED ON THE PLANS AND 'TYPICAL ADA PLUMBING ELEMENTS MOUNTING STANDARDS.'
2. AT ALL ADULT USE TOILET FACILITIES, ALL TOILET FIXTURES, URINALS, LAVATORIES, GRAB BARS, ACCESSORIES, ETC. SHALL BE MOUNTED AT ADULT HEIGHT AS INDICATED ON THE PLANS AND 'TYPICAL ADA PLUMBING ELEMENTS MOUNTING STANDARDS.'
3. THE HEIGHT OF ALL GRAB BAR MUST BE THE SAME WITHIN EACH STALL / ROOM.
4. THE CHILD MOUNTING HEIGHT LIMITS APPLY FOR ADA AND NON-ADA LOCATIONS.

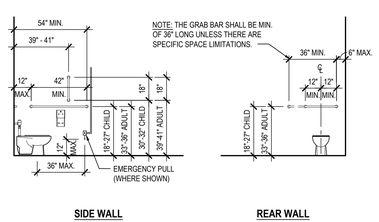
TOILET ROOM KEY NOTES

1. P.C. TO FURNISH AND INSTALL NEW WATER CLOSET AND FLUSHOMETER.
2. P.C. TO FURNISH AND INSTALL NEW ADA ACCESSIBLE WATER CLOSET AND FLUSHOMETER.
3. P.C. TO FURNISH AND INSTALL NEW LAVATORY, FAUCET AND LAV SHIELD.
4. P.C. TO FURNISH AND INSTALL NEW ADA ACCESSIBLE LAVATORY, FAUCET AND LAV SHIELD.
5. P.C. TO PROVIDE AND INSTALL NEW SHOWER HEAD AND BODY. COORDINATE IN FIELD.
6. P.C. TO PROVIDE AND INSTALL NEW ADA SHOWER HEAD AND BODY. G.C. TO INSTALL SEAT AND WALL MOUNTED ACCESSORIES. COORDINATE IN FIELD.
7. P.C. TO PROVIDE AND INSTALL NEW DRINKING FOUNTAIN. E.C. TO PROVIDE FINAL POWER CONNECTIONS. COORDINATE IN FIELD.
8. P.C. TO PROVIDE AND INSTALL NEW CUSTODIAL SERVICE SINK.
9. P.C. TO PROVIDE AND INSTALL NEW FLOOR DRAIN. G.C. TO SAWCUT EXISTING SLAB AS REQUIRED. COORDINATE IN FIELD. REFER TO A1-SERIES DRAWINGS.
10. G.C. TO FURNISH AND INSTALL NEW MIRROR WITH SHELF.
11. G.C. TO FURNISH AND INSTALL NEW VERTICAL 18" GRAB BAR.
12. G.C. TO FURNISH AND INSTALL NEW HORIZONTAL 36" GRAB BAR.
13. G.C. TO FURNISH AND INSTALL NEW HORIZONTAL 42" GRAB BAR.
14. G.C. TO FURNISH AND INSTALL NEW TOILET / URINAL PARTITIONS.
15. OWNER TO FURNISH, G.C. TO INSTALL NEW TOILET PAPER DISPENSER.
16. OWNER TO FURNISH, G.C. TO INSTALL NEW ROLL PAPER TOWEL DISPENSER.
17. OWNER TO FURNISH, G.C. TO INSTALL NEW WALL MOUNTED SOAP DISPENSER.
18. G.C. TO FURNISH AND INSTALL NEW SANITARY NAPKIN DISPENSER.
19. G.C. TO FURNISH AND INSTALL NEW SANITARY NAPKIN WASTE RECEPTACLE.
20. G.C. TO PROVIDE NEW SHOWER CURTAIN, RODS, TOWEL AND CLOTHES HOOKS. COLOR AS SELECTED BY ARCHITECT.

ADVISORY SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3-12

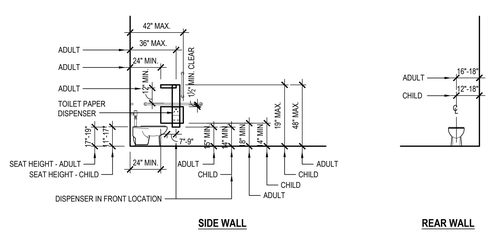
	AGES 3 AND 4	AGES 5 THROUGH 8	AGES 9 THROUGH 12
TOILET SEAT HEIGHT	11 TO 12 INCHES	12 TO 15 INCHES	15 TO 17 INCHES
WATER CLOSET CENTERLINE	12 INCHES	12 TO 15 INCHES	15 TO 18 INCHES
GRAB BAR HEIGHT	18 TO 20 INCHES	20 TO 25 INCHES	25 TO 27 INCHES
DISPENSER HEIGHT	14 INCHES	14 TO 17 INCHES	17 TO 19 INCHES

ADA COMPLIANT PLUMBING ELEMENTS MOUNTING STANDARDS



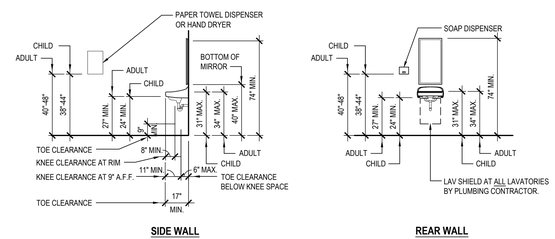
WATER CLOSET GRAB BAR MOUNTING DIMENSIONS

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



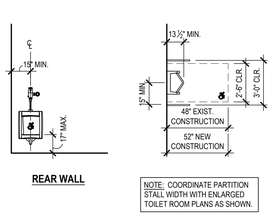
WATER CLOSET SEAT HEIGHT and PROTRUDING DISPENSER OUTLET LOCATIONS

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



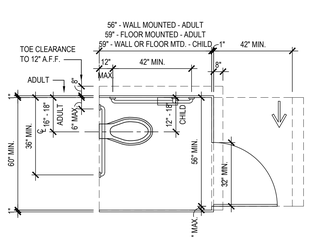
LAVATORY ACCESSIBLE HEIGHTS and CLEARANCES

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



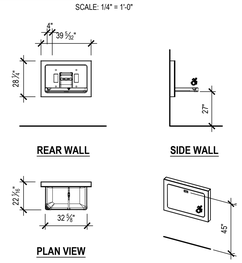
URINAL - ACCESSIBLE DIMENSIONS

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



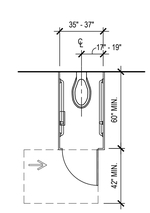
ACCESSIBLE WHEELCHAIR STALL DIMENSIONS

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



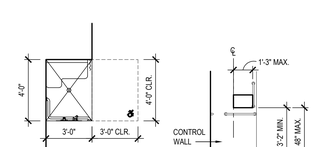
DIAPER CHANGING STATION DIMENSIONS

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



AMBULATORY STALL DIMENSIONS

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



ACCESSIBLE SHOWER STALL DIMENSIONS

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

ENLARGED TOILET ROOM PLANS and DETAILS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

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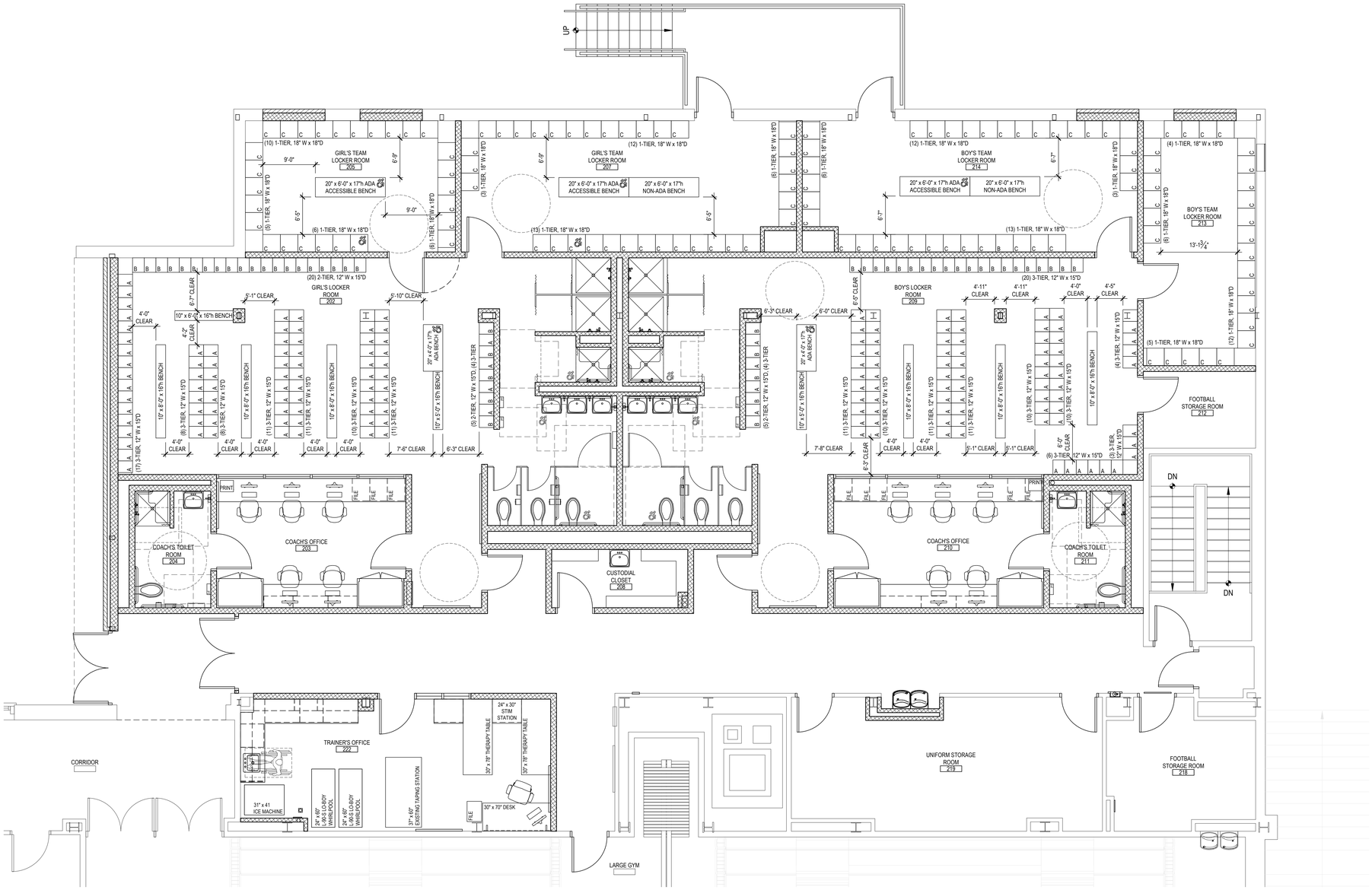
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	ENLARGED TOILET ROOM PLANS and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A11.01



ENLARGED LOCKER ROOM PLAN

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

TYPICAL LOCKER AND BENCH NOTES

1. ALL NEW LOCKERS, BENCHES, COMPONENTS AND WOOD BLOCKING SHALL BE PROVIDED AND INSTALLED BY DISTRICT UNDER SEPARATE CONTRACT. LOCKERS SHALL BE AS MANUFACTURED BY 'ART METAL PRODUCTS' OR ARCHITECT APPROVED EQUAL.
4. INSTALLATION SHALL INCLUDE ALL FILLER PANELS, PERIMETER TRIM, BOX END PANELS, WOOD BLOCKING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
7. CONTRACTOR SHALL COORDINATE LOCKER NUMBER SEQUENCE WITH DISTRICT.
8. 5% OF TOTAL LOCKER QUANTITY SHALL BE ADA COMPLIANT. FINAL ADA LOCATIONS TO BE VERIFIED ON SHOP DRAWINGS.
9. LOCKER ROOM BENCHES SHALL BE 16"h x 10"w x 1½"th HIGH DENSITY POLYETHYLENE WITH ENAMELED STEEL PEDESTALS SPACED 5'-0" MAX. (OR MIN. (3) PEDESTALS PER 8'-0" SECTION OF BENCH) AND ANCHORED TO THE FLOOR AS PER MANUFACTURER'S INSTRUCTIONS. FINISH AS SELECTED BY ARCHITECT.
8. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS FOR ARCHITECT APPROVAL PRIOR TO LOCKER INSTALLATION.
9. REFER TO DRAWINGS A1.03 AND A2.03 FOR DEMOLITION AND PROPOSED LOCKER ROOM SCOPE OF WORK TO BE PERFORMED BY G.C. COORDINATE IN FIELD.

LOCKER ROOM TYPES and QUANTITIES

A

GIRL'S GYM LOCKER ROOM No. 202
12"w x 15"d x 72"h THREE - TIER LOCKER
80 LOCKER COLUMNS
240 TOTAL LOCKER COUNT

BOY'S GYM LOCKER ROOM No. 209
12"w x 15"d x 72"h THREE - TIER LOCKER
80 LOCKER COLUMNS
240 TOTAL LOCKER COUNT

B

REFEREE OFFICE No. 223
12"w x 15"d x 72"h TWO-TIER LOCKER
9 LOCKER COLUMNS
18 TOTAL LOCKER COUNT

GIRL'S GYM LOCKER ROOM No. 202
12"w x 15"d x 72"h TWO-TIER LOCKER
25 LOCKER COLUMNS
50 TOTAL LOCKER COUNT

BOY'S GYM LOCKER ROOM No. 209
12"w x 15"d x 72"h TWO-TIER LOCKER
25 LOCKER COLUMNS
50 TOTAL LOCKER COUNT

C

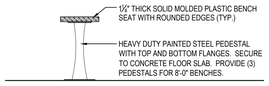
GIRL'S TEAM LOCKER ROOM No. 205
18"w x 18"d x 72"h ATHLETIC LOCKER
27 LOCKER COLUMNS
27 TOTAL LOCKER COUNT

GIRL'S TEAM LOCKER ROOM No. 207
18"w x 18"d x 72"h ATHLETIC LOCKER
34 LOCKER COLUMNS
34 TOTAL LOCKER COUNT

BOY'S TEAM LOCKER ROOM No. 213
18"w x 18"d x 72"h ATHLETIC LOCKER
27 LOCKER COLUMNS
27 TOTAL LOCKER COUNT

BOY'S TEAM LOCKER ROOM No. 214
18"w x 18"d x 72"h ATHLETIC LOCKER
34 LOCKER COLUMNS
34 TOTAL LOCKER COUNT

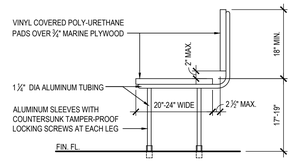
5% OF ALL LOCKER SHALL BE ADA COMPLIANT.
GIRL'S LOCKER ROOM No. 202: 15 ADA LOCKERS (290 TOTAL)
BOY'S LOCKER ROOM No. 209: 15 ADA LOCKERS (290 TOTAL)
GIRL'S TEAM LOCKER ROOM No. 205: 2 ADA LOCKERS (27 TOTAL)
GIRL'S TEAM LOCKER ROOM No. 207: 2 ADA LOCKERS (34 TOTAL)
BOY'S TEAM LOCKER ROOM No. 213: 2 ADA LOCKERS (27 TOTAL)
BOY'S TEAM LOCKER ROOM No. 214: 2 ADA LOCKERS (34 TOTAL)
REFEREE OFFICE No. 223: 1 ADA LOCKER (18 TOTAL)



1 NEW BENCH DETAIL

NOTE: PROVIDED AND INSTALLED WITH LOCKERS UNDER SEPARATE PURCHASE ORDER.

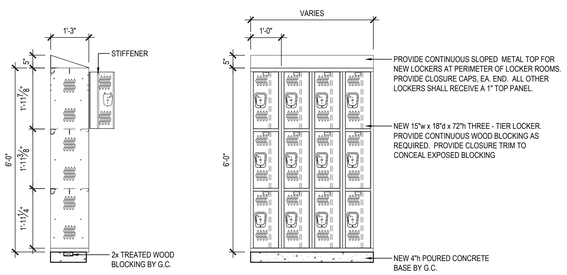
SCALE: 3/4" = 1'-0"



2 ADA ACCESSIBLE BENCH DETAIL

NOTE: SHALL COMPLY WITH 2009 ICC / ANSI A117.1 FIGURE 903. PROVIDED AND INSTALLED WITH LOCKERS UNDER SEPARATE PURCHASE ORDER.

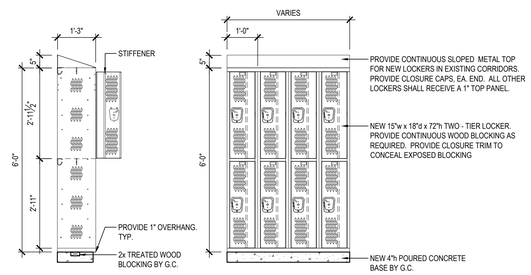
SCALE: 3/4" = 1'-0"



A GENERAL LOCKER ROOM: 3-TIER

NOTE: PROVIDED AND INSTALLED BY DISTRICT UNDER SEPARATE PURCHASE ORDER.

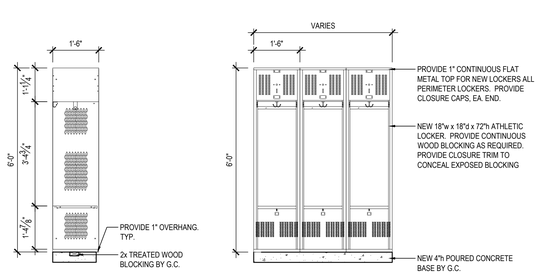
SCALE: 1/2" = 1'-0"



B GENERAL LOCKER ROOM: 2-TIER

NOTE: PROVIDED AND INSTALLED BY DISTRICT UNDER SEPARATE PURCHASE ORDER.

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



C TEAM LOCKER ROOM: ATHLETIC

NOTE: PROVIDED AND INSTALLED BY DISTRICT UNDER SEPARATE PURCHASE ORDER.

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

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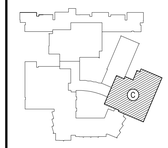

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PROJECT

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DRAWING BY: P.J.H.
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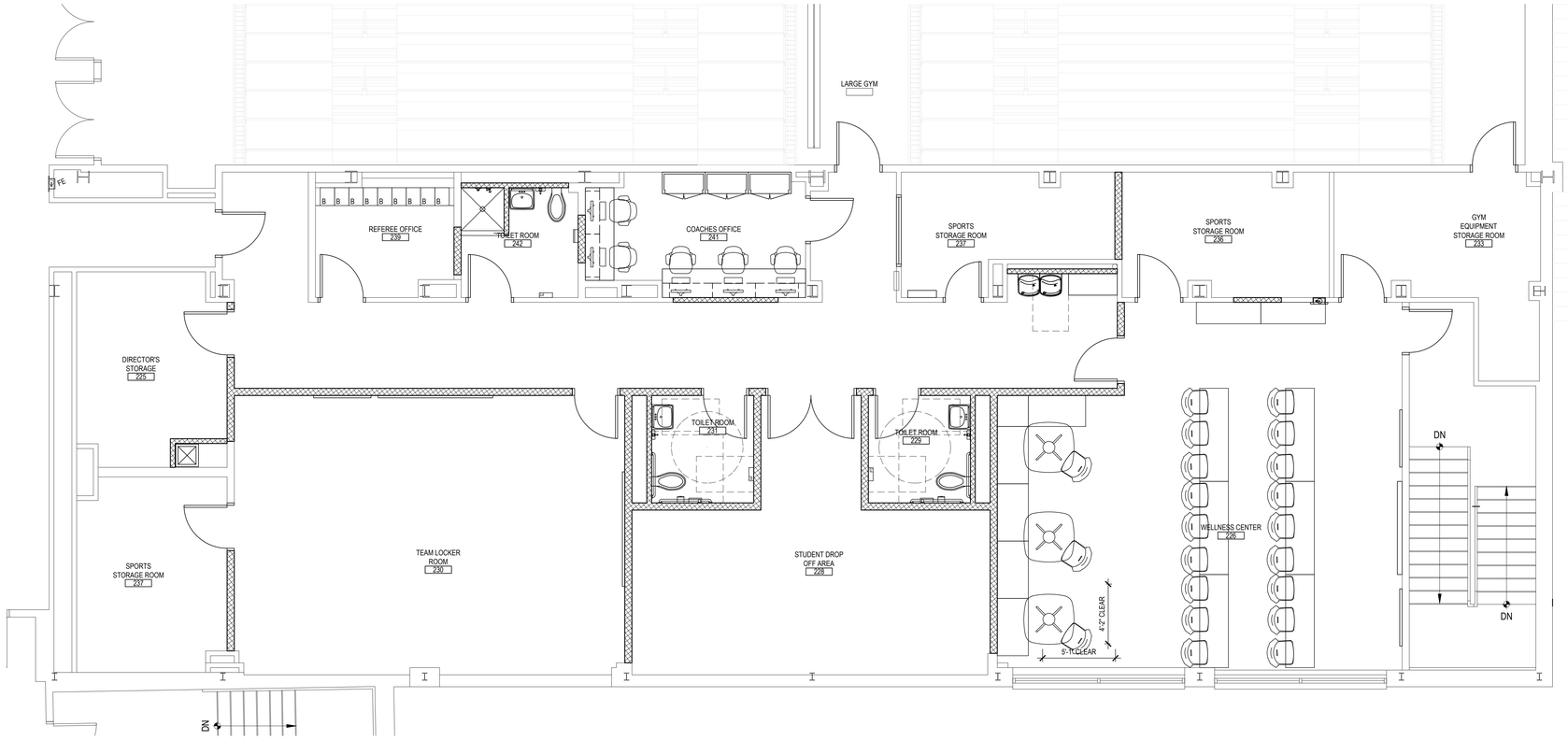
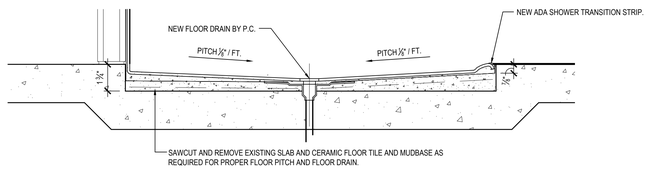
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	ENLARGED LOCKER ROOM PLANS and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A11.02



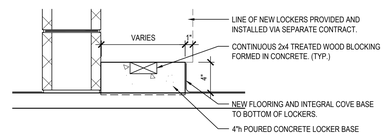
ENLARGED LOCKER ROOM PLAN

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



1 SECTION THROUGH ADA SHOWER STALL

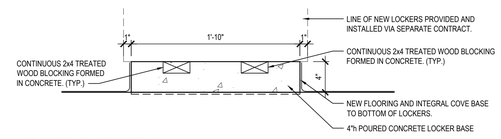
SCALE: 1 1/2" = 1'-0"



2 LOCKER BASE DETAIL

NOTE: TYPICAL AT ALL PERIMETER LOCKER LOCATIONS.

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



3 LOCKER BASE DETAIL

NOTE: TYPICAL AT ALL CONCRETE BASE ISLANDS.

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

CLASSROOM CASEWORK

ICI SCIENTIFIC OR EQUAL
SPECIES: MAPLE OR OAK - CLEAR OR STAIN AS SELECTED BY ARCHITECT
WITH 1" PHENOLIC RESIN TOPS - WILSONART CHEMSURF OR EQUAL

COPY ROOM/FACULTY CASEWORK

CASE SYSTEMS OR EQUAL
PLASTIC LAMINATE AS PER SPECIFICATIONS OR AS SELECTED BY ARCHITECT
WITH 1" PLASTIC LAMINATE TOPS

GENERAL FURNITURE NOTE

ALL LOOSE FURNISHINGS, CASEWORK AND SHELVING SHALL BE FURNISHED AND INSTALLED UNDER A SEPARATE CONTRACT BY THE OWNER'S CASEWORK CONTRACTOR UNLESS OTHERWISE NOTED AND DETAILED. THIS LAYOUT IS PROVIDED FOR REFERENCE AND GENERAL INFORMATIONAL PURPOSES (ONLY). THE GENERAL CONTRACTOR, CASEWORK CONTRACTOR, ELECTRICAL CONTRACTOR AND PLUMBING/MECHANICAL CONTRACTOR(S) SHALL COORDINATE ROUGH-IN, LOCATIONS, INSTALLATION AND FINAL CONNECTIONS WITH EACH OTHER. INFORMATION SHOWN HEREWITH IS FOR INFORMATIONAL PURPOSES ONLY AND SUBJECT TO CHANGE. SHOP DRAWINGS SHALL BE PROVIDED BY THE ARCHITECT FOR ALL FINAL LOCATIONS.

WOOD CASEWORK CONSTRUCTION NOTES

1. WOOD CASEWORK SHALL BE MANUFACTURED BY 'CAMPBELL RHEA' STYLE 'SIGNATURE' OR ARCHITECT APPROVED EQUAL AND SHALL MATCH THE CABINET CONFIGURATIONS SHOWN IN THE CASEWORK PLANS AND ELEVATIONS.
2. ALL WOOD CASEWORK / COUNTERS SHALL BE PROVIDED AND INSTALLED BY CASEWORK CONTRACTOR UNLESS OTHERWISE NOTED.
4. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL CONTINUOUS BLOCKING BETWEEN COLD FORMED FRAMING AT ALL CASEWORK LOCATIONS.
5. REFER TO SPECIFICATIONS FOR TYPICAL FRAME, DRAWER, DOOR AND SHELF CONSTRUCTION FOR ALL CASEWORK.
6. UNLESS OTHERWISE NOTED OR SPECIFIED, FINISH HARDWARE FOR ALL CABINETS SHALL BE AS FOLLOWS:
   - ALL HINGES SHALL BE STANDARD FIVE KNUCKLE.
   - ALL DOOR AND DRAWER PULLS SHALL BE WIRE TYPE.
   - ALL DOOR CATCHES SHALL BE ADJUSTABLE SPRING ACTUATED NYLON ROLLER.
   - ALL DRAWER SLIDES SHALL BE FULL EXTENSION TYPE.
   - ALL SHELF CLIPS SHALL BE PLASTIC TWIN PIN TYPE THROUGHOUT.
7. ALL COUNTER TOPS SHALL BE 1" PHENOLIC RESIN UNLESS OTHERWISE INDICATED. COLOR AS SELECTED BY ARCHITECT.
8. ALL BASE CABINETS TO BE INSTALLED ALONG A WINDOW WALL SHALL BE PROVIDED WITH TOE SPACE GRILLS. ALL SAID BASE CABINETS SHALL ALSO BE INSTALLED WITH 3" WIDE ALUMINUM GRILLS AT TOP OF CABINET TO BE CUT INTO COUNTER (OR HORIZONTAL FILLER AT TALL CABINETS). GRILLS SHALL BE CENTERED BEHIND EACH CABINET AND TOTAL LENGTHS SHALL BE 6" LESS THAN SAID CABINET WIDTH. (IE: 47" CABINET YIELDS 41" GRILL).
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REV.	DATE	ITEM

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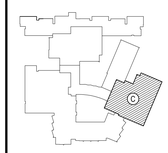

KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: ENLARGED LOCKER ROOM PLANS and DETAILS

DRAWING BY:	P.J.H.
CHECK BY:	P.J.H.

NOTICE

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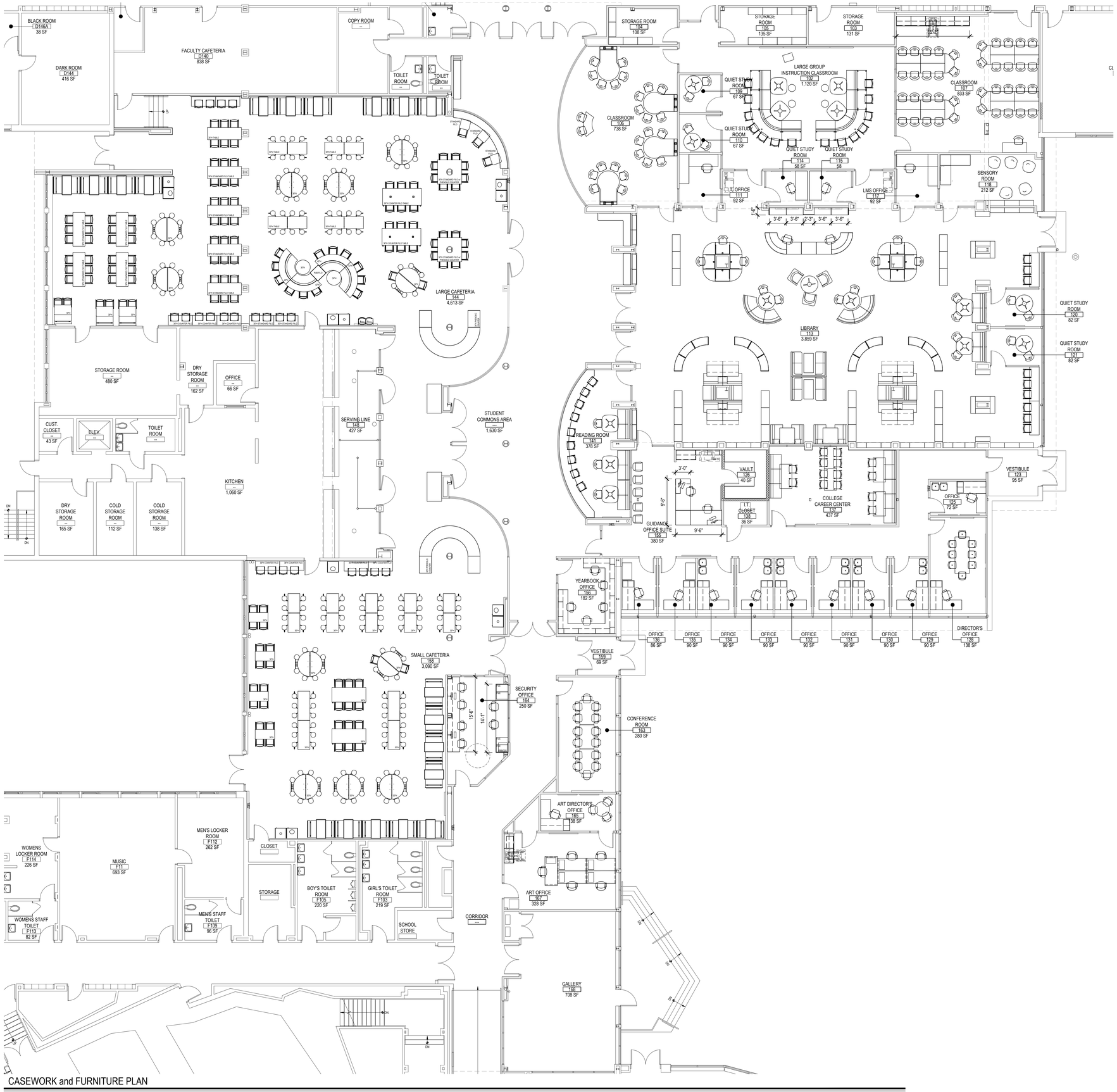

CASEWORK and FURNITURE PLAN

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REV.	DATE	ITEM
1	03/12/2025	BID ADDENDUM No. 3

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

CASEWORK and FURNITURE PLAN

DRAWING BY: P.J.H.

CHECK BY: P.J.H.

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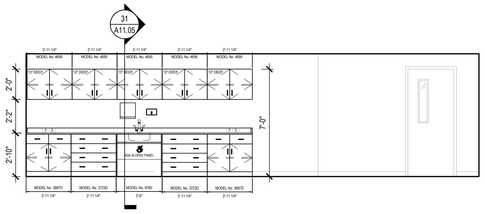
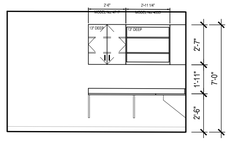
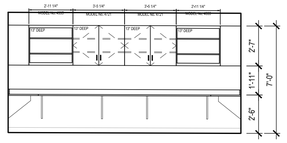


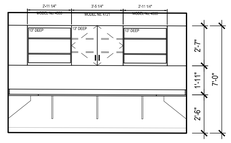
1 CASEWORK ELEVATION
at CLASSROOM No. 107 SCALE: 1/4" = 1'-0"



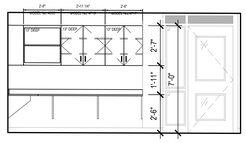
2 CASEWORK ELEVATION
at YEARBOOK OFFICE No. 156 SCALE: 1/4" = 1'-0"



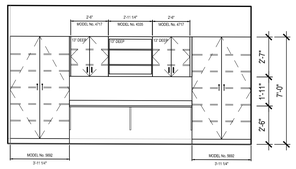
3 CASEWORK ELEVATION
at YEARBOOK OFFICE No. 156 SCALE: 1/4" = 1'-0"



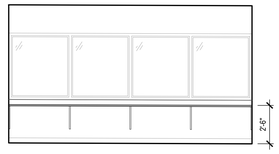
4 CASEWORK ELEVATION
at YEARBOOK OFFICE No. 156 SCALE: 1/4" = 1'-0"



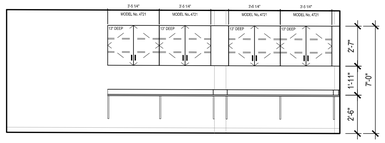
5 CASEWORK ELEVATION
at YEARBOOK OFFICE No. 156 SCALE: 1/4" = 1'-0"



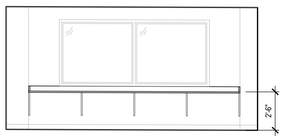
7 CASEWORK ELEVATION
at COACHES OFFICE No. 203 SCALE: 1/4" = 1'-0"



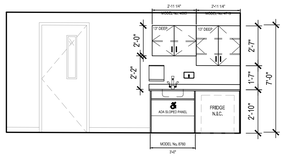
8 CASEWORK ELEVATION
at COACHES OFFICE No. 203 SCALE: 1/4" = 1'-0"



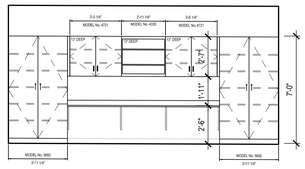
9 CASEWORK ELEVATION
at SECURITY OFFICE No. 164 SCALE: 1/4" = 1'-0"



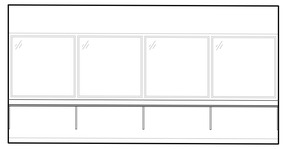
10 CASEWORK ELEVATION
at SECURITY OFFICE No. 164 SCALE: 1/4" = 1'-0"



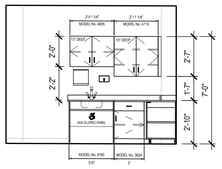
11 CASEWORK ELEVATION
at ART OFFICE No. 167 SCALE: 1/4" = 1'-0"



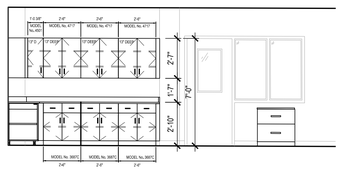
12 CASEWORK ELEVATION
at COACHES OFFICE No. 210 SCALE: 1/4" = 1'-0"



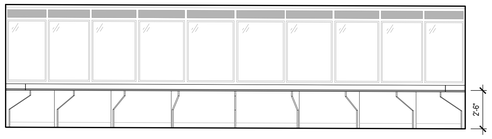
13 CASEWORK ELEVATION
at COACHES OFFICE No. 210 SCALE: 1/4" = 1'-0"



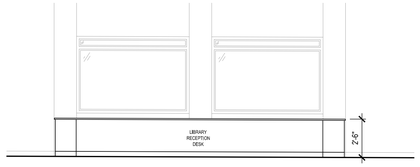
14 CASEWORK ELEVATION
at TRAINERS OFFICE No. 222 SCALE: 1/4" = 1'-0"



15 CASEWORK ELEVATION
at TRAINERS OFFICE No. 222 SCALE: 1/4" = 1'-0"

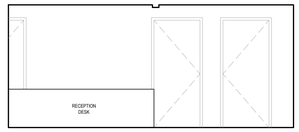


16 CASEWORK ELEVATION
at READING ROOM No. 141 SCALE: 1/4" = 1'-0"

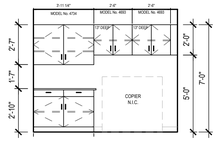


17 CASEWORK ELEVATION
at LIBRARY DESK No. 213 SCALE: 1/4" = 1'-0"

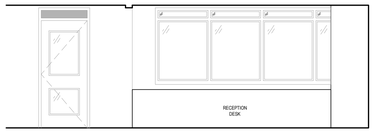
18 CASEWORK ELEVATION
at LIBRARY DESK No. 213 SCALE: 1/4" = 1'-0"



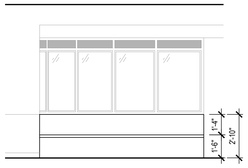
19 CASEWORK ELEVATION
at RECEPTION DESK SCALE: 1/4" = 1'-0"



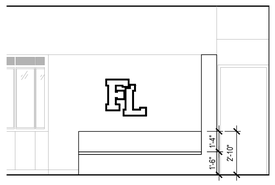
20 CASEWORK ELEVATION
at RECEPTION DESK COPIER SCALE: 1/4" = 1'-0"



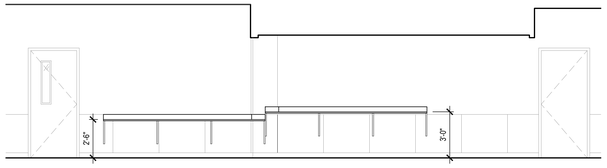
21 CASEWORK ELEVATION
at RECEPTION DESK SCALE: 1/4" = 1'-0"



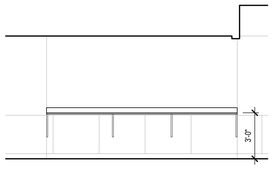
22 CASEWORK ELEVATION
at STUDENT COMMONS BENCH SCALE: 1/4" = 1'-0"



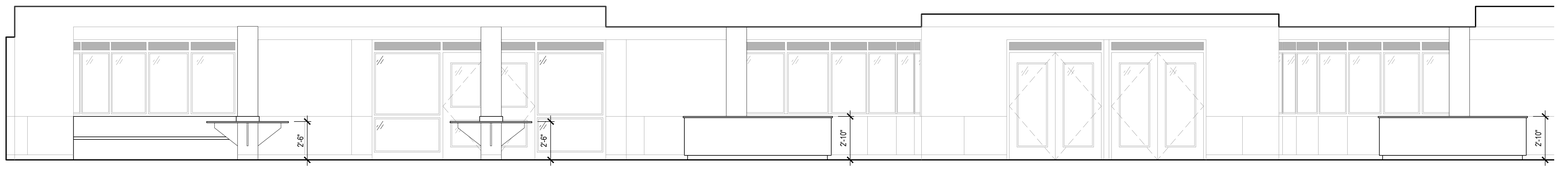
23 CASEWORK ELEVATION
at CORRIDOR BENCH SCALE: 1/4" = 1'-0"



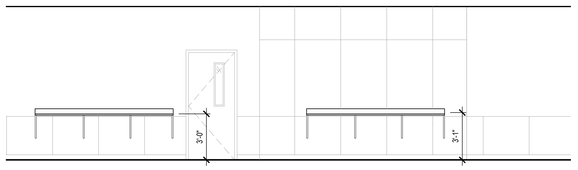
24 CASEWORK ELEVATION
LARGE CAFETERIA No. 144 SCALE: 1/4" = 1'-0"



25 CASEWORK ELEVATION
LARGE CAFETERIA No. 144 SCALE: 1/4" = 1'-0"



26 CASEWORK ELEVATION
at LARGE CAFETERIA No. 144 and SMALL CAFETERIA No. 158 SCALE: 1/4" = 1'-0"

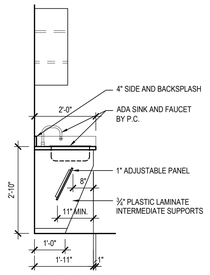


27 CASEWORK ELEVATION
SMALL CAFETERIA No. 158 SCALE: 1/4" = 1'-0"

28 CASEWORK ELEVATION
WINDOWS at SMALL CAFETERIA No. 158 SCALE: 1/4" = 1'-0"

29 CASEWORK ELEVATION
at GUIDANCE OFFICE SUITE SCALE: 1/4" = 1'-0"

30 CASEWORK ELEVATION
at LARGE CAFETERIA SCALE: 1/4" = 1'-0"



31 SECTION DETAIL
at CLASSROOM No. 107 SCALE: 1/2" = 1'-0"

REV.	DATE	ITEM

NOTICE

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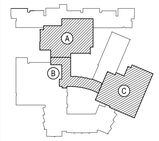

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
CASEWORK ELEVATIONS

DRAWING BY: B.C.M.
CHECK BY: P.J.H.

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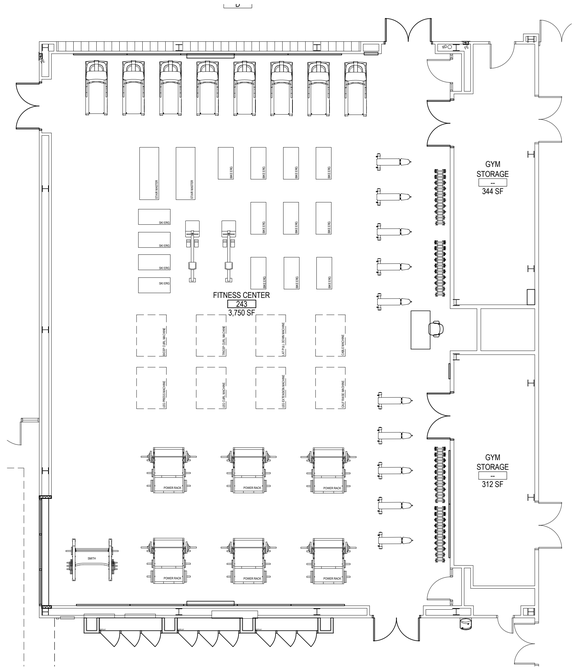
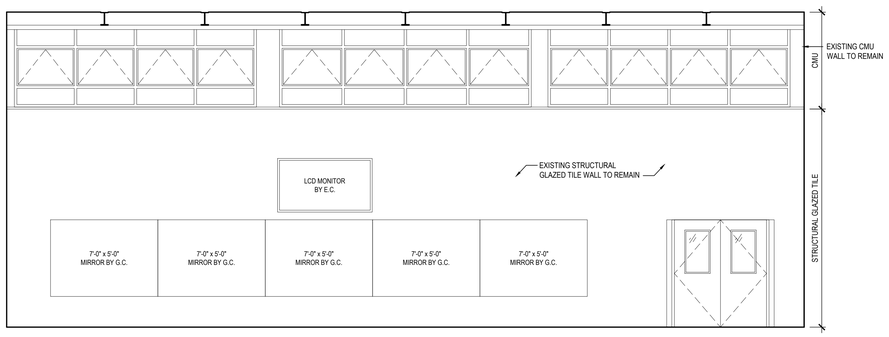
SED No. 66-01-02-06-0-003-024
DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PHASE 2 - BOND IMPROVEMENTS
DWG TITLE CASEWORK ELEVATIONS
SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

A11.05



ENLARGED FITNESS CENTER PLAN

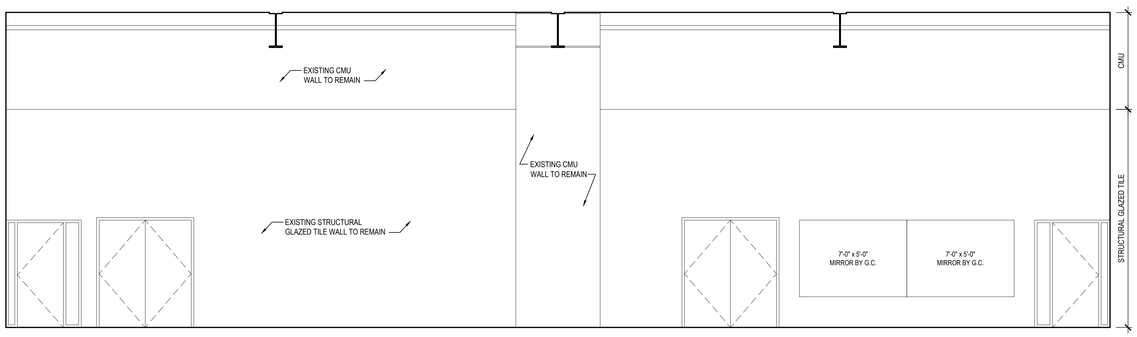
SCALE: 1/8" = 1'-0"



22 INTERIOR ELEVATION

at FITNESS CENTER No. 243

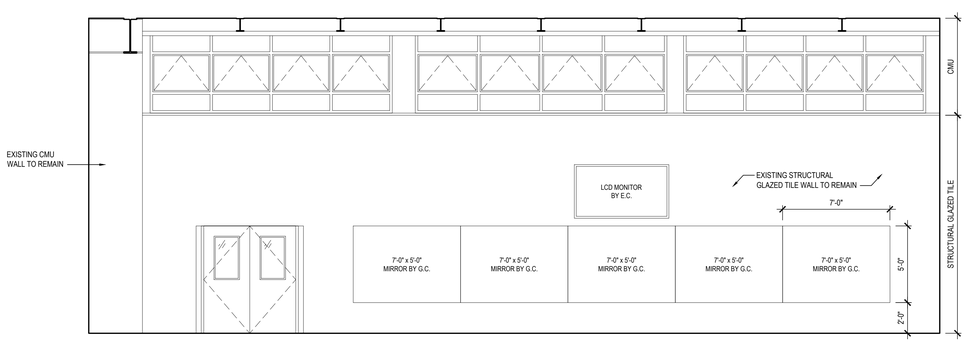
SCALE: 1/4" = 1'-0"



23 INTERIOR ELEVATION

at FITNESS CENTER No. 243

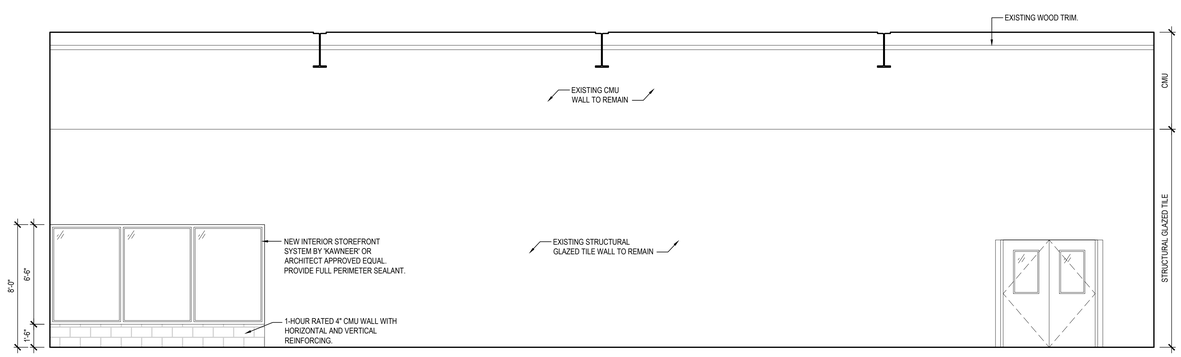
SCALE: 1/4" = 1'-0"



24 INTERIOR ELEVATION

at FITNESS CENTER No. 243

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



25 INTERIOR ELEVATION

at FITNESS CENTER No. 243

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FITNESS CENTER PLAN and ELEVATIONS

DRAWING BY:	B.C.M.
CHECK BY:	P.J.H.

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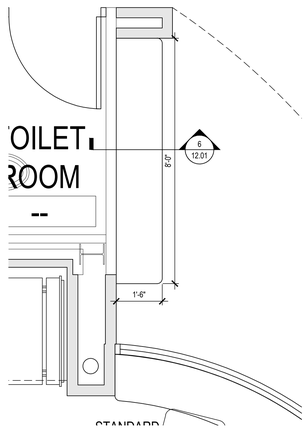
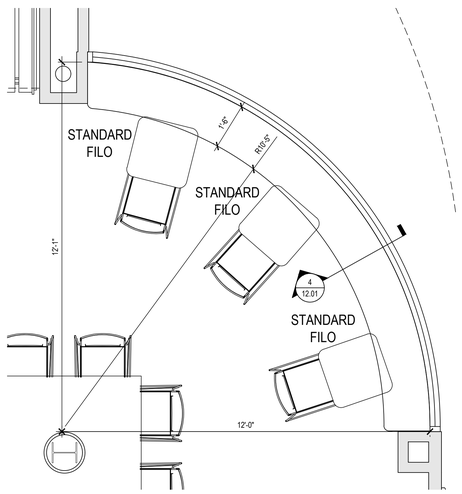
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FITNESS CENTER PLAN and ELEVATIONS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

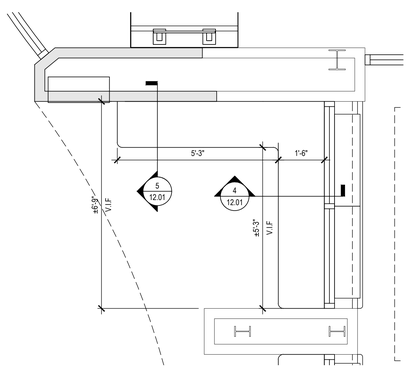
A11.06



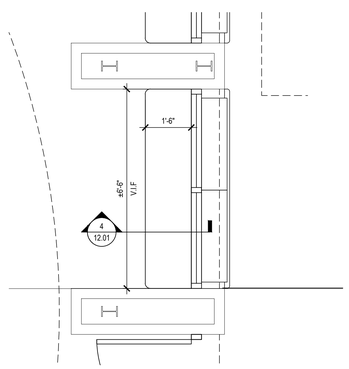
ENLARGED PLAN OF BUILT IN BENCH AT STUDET COMMONS



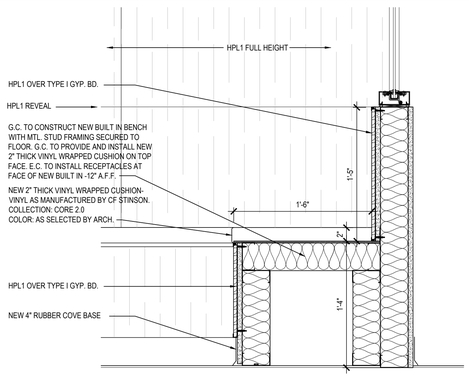
ENLARGED PLAN OF BUILT IN BENCH AT LARGE CAFETERIA 144



ENLARGED PLAN OF BUILT IN BENCH AT STUDET COMMONS

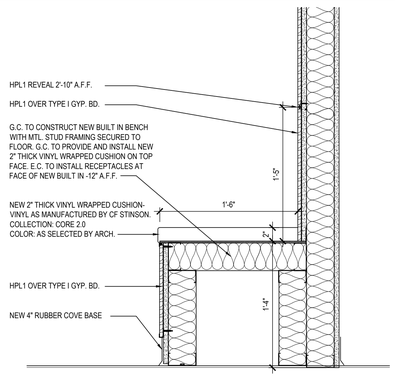


ENLARGED PLAN OF BUILT IN BENCH AT STUDET COMMONS



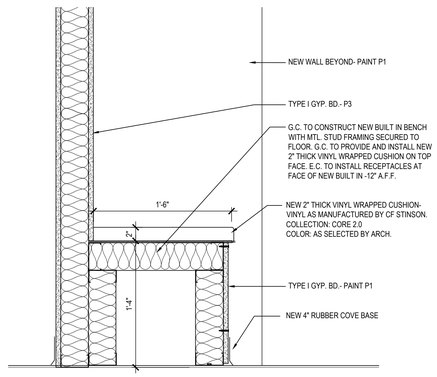
4 TYPICAL BUILT IN BENCH DETAIL

NOTE: TO BE CONSTRUCTED BY G.C. - SHOP DRAWINGS REQUIRED SCALE: 1-1/2" = 1'-0"



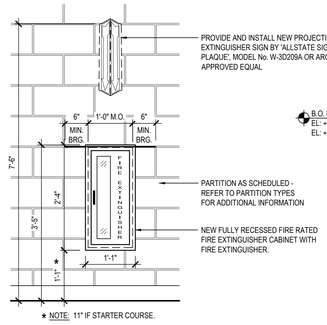
5 TYPICAL BUILT IN BENCH DETAIL

NOTE: TO BE CONSTRUCTED BY G.C. - SHOP DRAWINGS REQUIRED SCALE: 1-1/2" = 1'-0"

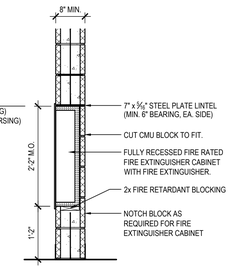


5 TYPICAL BUILT IN BENCH DETAIL

NOTE: TO BE CONSTRUCTED BY G.C. - SHOP DRAWINGS REQUIRED SCALE: 1-1/2" = 1'-0"

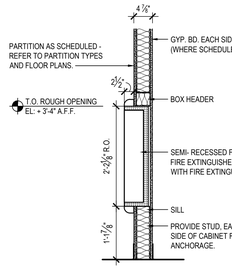


TYPICAL ELEVATION



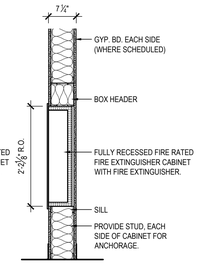
SECTION

at 8" CMU WALL



SECTION

at 3 5/8" METAL STUD WALL



SECTION

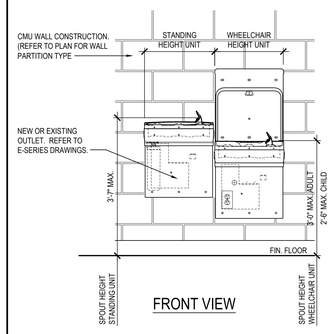
at 6" METAL STUD WALL

1 TYPICAL FIRE EXTINGUISHER CABINET DETAIL

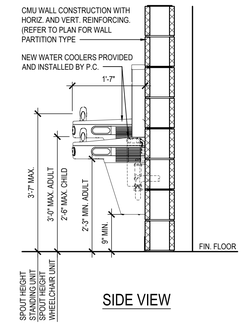
NOTE: THE INSTALLATION SHALL MAINTAIN THE FIRE RATING OF PARTITIONS (WHERE APPLICABLE) SCALE: 3/4" = 1'-0"

NOTE: HEIGHTS INDICATED ARE MAXIMUM ALLOWABLE PER CODE. MANUFACTURER'S ROUGH-IN DIMENSIONS ARE ACCEPTABLE. ADJUST FOR CHILD HEIGHT WHEN APPLICABLE.

NOTE: UNIT CAN BE INSTALLED WITH RIGHT HAND HIGH SIDE CONFIGURATION AS WELL. COORDINATE WITH PART AND MANUFACTURER'S DATA FOR VARIANCE IN UTILITY ROUTING.



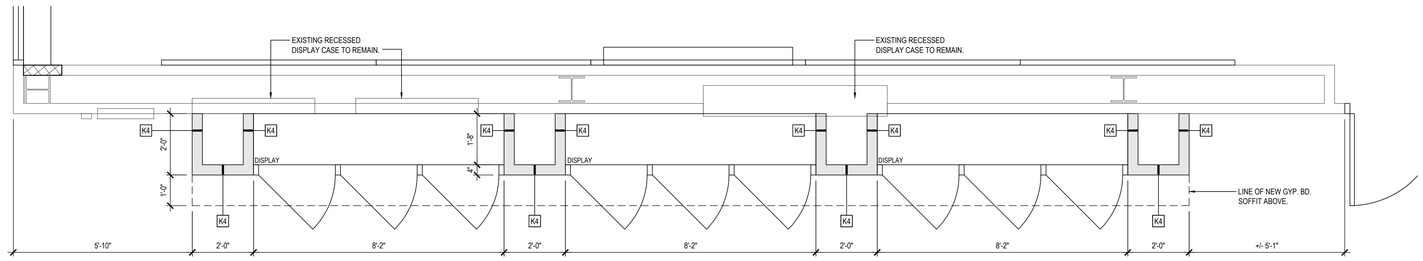
FRONT VIEW



SIDE VIEW

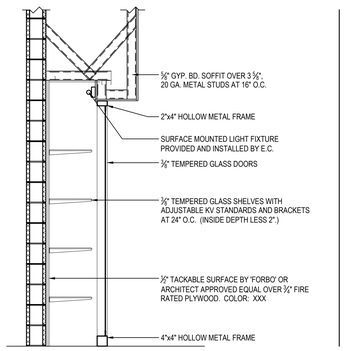
2 ADA COMPLIANT DRINKING FOUNTAIN / BOTTLE FILL STATION DETAIL

"EZH20" BOTTLE FILLING STATION WITH FILTERED BI-LEVEL LZ COOLER BY "ELKAY" OR APPROVED EQUAL. SHOWN WITH LEFT HAND HIGH SIDE CONFIGURATION. SCALE: 1/4" = 1'-0"

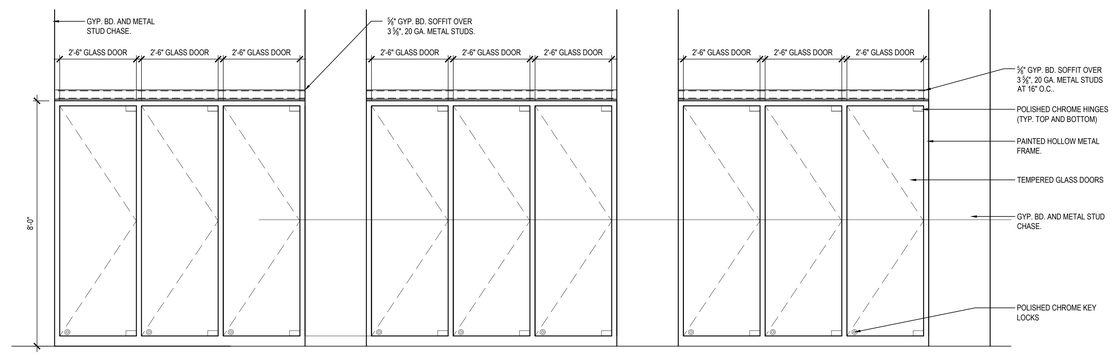


NOTE: MODIFY EXISTING ACOUSTICAL CEILING TILE AND GRID FOR INSTALLATION OF NEW SOFFIT.

ENLARGED CORRIDOR FLOOR PLAN



SECTION DETAIL



CORRIDOR ELEVATION

3 ADD ALTERNATE NO. GC-5: CUSTOM RECESSED DISPLAY CASE DETAILS

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

REV.	DATE	ITEM

NOTICE

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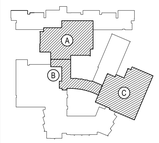

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

MISCELLANEOUS DETAILS

DRAWING BY: P.J.H.
CHECK BY: P.J.H.

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	MISCELLANEOUS DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

A12.01

DESIGN LOADS AND CRITERIA: (FLMS ENTRY ADDITION)

1. DESIGN PROVISIONS: 2020 BUILDING CODE OF NEW YORK STATE
   BUILDING RISK CATEGORY, III
   TERRAIN EXPOSURE CATEGORY, B

ROOF DEAD LOAD, ESTIMATED WEIGHT OF EXISTING ROOFING AND STRUCTURE

2. SNOW LOAD:

   GROUND SNOW LOAD (Pg), 30 PSF
   FLAT ROOF SNOW LOAD (Pf), 25 PSF
   EXPOSURE FACTOR (C_e), 1.0
   THERMAL FACTOR (C_t), 1.0
   IMPORTANCE FACTOR (I_s), 1.1
   RAIN LOAD (PONDING), NOT APPLICABLE
   RAIN-ON-SNOW SURCHARGE, NOT APPLICABLE

   DRIFTED, UNBALANCE AND SLIDING SNOW LOADS AS INDICATED IN AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD ASCE 7-16.

3. WIND LOAD:

   MAIN WIND FORCE RESISTING SYSTEM HAS BEEN DESIGNED USING THE PROCEDURE SIMPLE DIAPHRAGM LOW RISE BUILDINGS.
   BASIC WIND SPEED, 125 MPH
   EXPOSURE CATEGORY, B
   TOPOGRAPHIC FACTOR, 1.0
   HEIGHT OF MAIN ROOF, VARIES SEE PLANS

4. SEISMIC LOADS (STAIR ONLY):

   RISK CATEGORY, III
   SITE CLASS, D
   SEISMIC IMPORTANCE FACTOR (I_e), 1.25
   SHORT-PERIOD ACCELERATION (S_{DS}), 0.291 g
   ONE-SECOND ACCELERATION (S_{D1}), 0.96 g
   SEISMIC DESIGN CATEGORY, B
   SEISMIC RESPONSE COEFFICIENT (C_s), 0.1057
   RESPONSE MODIFICATION COEFFICIENT (R), 3
   DESIGN BASE SHEAR (V), 1 KIPS (STAIR)

5. GEOTECHNICAL DESIGN CRITERIA:

   PRESUMTIVE SOIL BEARING PRESSURE, 2,000 PSF
   ASSUMED BEARING STRATA, NATIVE SOIL OR COMPACTED STRUCTURAL FILL

STRUCTURAL MATERIALS

STRUCTURAL STEEL AND MISCELLANEOUS STEEL
ROLLED STEEL W SHAPES: ASTM A 992
ROLLED STEEL C, MC SHAPES: ASTM A 36
ROLLED STEEL PLATES, BARS, AND ANGLES: ASTM A 36
HIGH-STRENGTH BOLTS: ASTM A 325 OR ASTM A 490
THREADED ANCHORS: ASTM A 36
WELD ELECTRODES: AWS E70XX
FOR CONNECTIONS, PROVIDE HIGHER GRADE OR AS REQUIRED FOR CAPACITY.

FASTENERS
POWDER ACTUATED FASTENERS (PAF): HILTI 0.177 DIA DS/EDS
ADHESIVE ANCHORS (SOLID CONC OR MASONRY): HILTI HIT HY 200

CONCRETE
FOOTINGS, MISC:
   28 DAY COMPRESSIVE STRENGTH, f'_c= 3,000 PSI
   SLUMP, 3 TO 5 INCHES
   AIR ENTRAINMENT, 6 % ± 1 %

EXTERIOR SLABS, PIERS AND BEAMS:
   28 DAY COMPRESSIVE STRENGTH, f'_c= 4,500 PSI
   SLUMP, 3 TO 5 INCHES
   AIR ENTRAINMENT, 6 % ± 1 %

INTERIOR SLABS ON GRADE:
   28 DAY COMPRESSIVE STRENGTH, f'c = 3,500 PSI
   SLUMP, 3 TO 5 INCHES
   AIR ENTRAINMENT, 3 % (MAX). DO NOT ADD AIR ENTRAINING ADMIXTURE. AIR ENTRAINMENT OCCURS AS A RESULT OF MIXING.

SEE SPECIFICATIONS AND NOTES FOR ADDITIONAL INFORMATION.

MASONRY:
CONCRETE BLOCK: ASTM C 90, 2,800 PSI NET COMPRESSIVE STRENGTH, MORTAR - ASTM C 270, TYPE S
UNIT MASONRY: ASTM C 90 CMU, 2,800 PSI NET COMPRESSIVE STRENGTH, MORTAR - ASTM C 270, TYPE S, f'm=2,000PSI
GROUT:ASTM C 476, 2,500 PSI COMPRESSIVE STRENGTH, 8 TO 10 INCH SLUMP

REINFORCING, CONCRETE: ASTM A 615. GRADE 60

GENERAL NOTES:

1. DIMENSIONS TO, OF, AND IN EXISTING STRUCTURE SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN THE EXISTING CONDITIONS, ARCHITECTURAL DRAWINGS, AND STRUCTURAL DRAWINGS.
3. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
4. SECTIONS, AND DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.
5. THE NOTES ON THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
6. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PROPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR COMPONENTS SHOWN ON THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY THE ENGINEER.
8. DO NOT SUSPEND MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS FROM ROOF DECK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR HANGERS AND SUPPLEMENTAL FRAMING REQUIRED TO ATTACH THESE ITEMS TO THE MAIN ROOF FRAMING.
9. BRACE BUILDING UNTIL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: ROOF DECK, MOMENT FRAMES, BRACING MEMBERS, AND CONNECTIONS.
10. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.
11. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION AND REMOVALS REQUIRED FOR EXISTING CONDITIONS.
12. COORDINATE THE NUMBER AND LOCATION OF ROOF DRAINS AND OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

FOUNDATION NOTES:

1. BEAR FOOTINGS ON FIRM UNDISTURBED SOIL, OR COMPACTED STRUCTURAL FILL OR BEDROCK.
2. FOOTING BEARING STRATUM SHALL BE VERIFIED IN FIELD BY A LICENSED GEOTECHNICAL ENGINEER BEFORE CASTING CONCRETE FOOTINGS.
3. UNLESS OTHERWISE NOTED, BOTTOM OF EXTERIOR FOOTINGS IS 4 FEET MINIMUM BELOW FINISHED GRADE. FOOTINGS MAY BE STEPPED DOWN OR LOWERED TO REACH AN ACCEPTABLE BEARING STRATUM AS DETERMINED BY GEOTECHNICAL ENGINEER.
4. WHERE FOOTING ELEVATIONS ARE LOWERED DUE TO SOIL CONDITIONS, LOWER ADJACENT FOOTINGS IN ELEVATION IN ORDER THAT RATIO OF CLEAR DISTANCE BETWEEN NEAREST EDGE OF FOOTINGS TO DIFFERENCE IN ELEVATION BETWEEN BOTTOMS OF FOOTINGS SHALL NOT EXCEED 2H:1V
5. ELEVATIONS OF BOTTOM OF FOOTINGS ARE FOR ESTIMATING PURPOSES AND WILL BE ADJUSTED TO REQUIRED BEARING STRATA AS DETERMINED UPON EXCAVATION.
6. DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
7. DO NOT ALLOW GROUND BENEATH FOOTINGS OR SLABS TO FREEZE.
8. BEARING SURFACES PREVIOUSLY ACCEPTED BY GEOTECHNICAL ENGINEER WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN, OR DISTURBED SHALL BE REWORKED TO THE SATISFACTION OF GEOTECHNICAL ENGINEER.
9. CENTER FOOTINGS UNDER WALLS, PIERS, OR GRADE BEAMS UNLESS NOTED OTHERWISE.
10. PROVIDE FOUNDATION WALL CONTROL JOINTS WHERE INDICATED ON PLAN. WHERE CONTROL JOINTS ARE NOT INDICATED ON PLAN, PROVIDE CONTROL JOINTS SPACED AT 35 FEET, MAXIMUM.
11. REINFORCE ALL FOUNDATION WALLS IN ACCORDANCE WITH THE TYPICAL CONCRETE WALL REINFORCING DETAIL, UNLESS NOTED OTHERWISE.
12. FOUNDATION PREPARATION: REFER TO SPECIFICATIONS FOR "STRUCTURAL EXCAVATION, BACKFILL, AND COMPACTION (BUILDING AREA)".
13. CONCRETE WALLS SHALL ATTAIN A MINIMUM STRENGTH OF 70 % f'c BEFORE PLACING BACKFILL AGAINST THEM.

CAST-IN-PLACE CONCRETE NOTES:

1. REINFORCE CONCRETE ELEMENTS INCLUDING FOOTINGS, WALLS, GRADE BEAMS, PIERS, AND SLABS. REINFORCEMENT SHOWN PERTAINS TO TYPICAL CONDITIONS.
2. COORDINATE CONCRETE MIX DESIGNS WITH CONCRETE MIX SCHEDULE AND DESIGN DATA NOTES.
3. LAP SPLICE CONCRETE REINFORCEMENT AS SHOWN IN BAR LAP SPLICE SCHEDULE, UNLESS NOTED OTHERWISE. PROVIDE CLASS B LAP UNLESS NOTED OTHERWISE.
4. PROVIDE CORNER BARS IN CONTINUOUS FOOTINGS, THE SAME SIZE AND NUMBER AS CONTINUOUS REINFORCEMENT. LAP SPLICE WITH MAIN REINFORCEMENT AS SHOWN IN BAR LAP SPLICE SCHEDULE BUT NOT LESS THAN 2'-0".
5. EXTEND WALL FOOTING REINFORCEMENT INTO COLUMN FOOTINGS WITH A MINIMUM EMBEDMENT EQUAL TO THE MINIMUM BAR DEVELOPMENT LENGTH.
6. CAST STEPPED FOOTINGS MONOLITHICALLY.
7. DOWEL CONCRETE WALLS AND PIERS INTO FOOTINGS WITH DOWELS THE SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT. EXTEND DOWELS TO WITHIN 3 INCHES OF BOTTOM OF FOOTING, TERMINATED WITH ACI STANDARD 90 DEGREE HOOK. LAP SPLICE WITH VERTICAL REINFORCEMENT UNLESS NOTED OTHERWISE.
8. CAST CONCRETE PIERS IN CONCRETE WALLS MONOLITHICALLY WITH WALLS.
9. VERIFY SIZE AND LOCATION OF MECHANICAL OPENINGS THROUGH CONCRETE MEMBERS PRIOR TO PLACING CONCRETE. PROVIDE SLEEVE OR CHASE FOR PIPING, CONDUIT, OR DUCT PENETRATIONS. CORE DRILLING IS NOT PERMITTED.
10. DO NOT LOCATE PENETRATIONS FOR THROUGH FOOTINGS. STEP FOOTINGS DOWN AS REQUIRED TO LOCATE PENETRATION IN WALL.
11. DO NOT LOCATE PENETRATIONS THROUGH PIERS, COLUMNS, BEAMS OR GRADE BEAMS UNLESS SHOWN IN DRAWINGS OR ACCEPTED BY ENGINEER.
12. INSTALL EMBEDDED PIPES OR CONDUIT IN STRUCTURAL CONCRETE AS FOLLOWS:
    a. ALUMINUM CONDUITS AND PIPES ARE NOT PERMITTED.
    b. CONDUIT AND PIPE OUTSIDE DIAMETER SHALL NOT EXCEED 1/3 THE THICKNESS OF SLAB, BEAM OR WALL IN WHICH THEY ARE EMBEDDED.
    c. SPACE CONDUIT AND PIPE A MINIMUM OF 3 DIAMETERS (WIDTHS) ON CENTER OR 4 INCHES WHICHEVER IS GREATER.
    d. PROVIDE A MINIMUM OF 1 1/2 INCH COVER FOR CONCRETE EXPOSED TO EARTH OR WEATHER OR 3/4 INCH COVER OTHERWISE, UNLESS NOTED OTHERWISE.
    e. REFER TO ACI 318, SECTION 6.3 FOR ADDITIONAL REQUIREMENTS.
13. CHAMFER EXPOSED CONCRETE CORNERS AND EDGES 3/4 INCH UNLESS NOTED OTHERWISE.
14. CONCRETE COVER FOR REINFORCEMENT SHALL BE AS INDICATED IN CONCRETE COVER SCHEDULE.

STRUCTURAL STEEL NOTES:

1. LOCATE ROOFTOP MECHANICAL UNITS AS SHOWN: COORDINATE WITH MECHANICAL DRAWINGS. NOTIFY ENGINEER IF ACTUAL UNIT WEIGHTS EXCEED THE WEIGHTS SHOWN ON DRAWINGS.
2. WHERE BEAM SPACING IS NOT NOTED, SPACE BEAMS EQUALLY BETWEEN COLUMNS OR BETWEEN COLUMNS AND WALLS.
3. MINIMUM CAPACITY OF BEAM CONNECTIONS; FOR CONNECTIONS NOT DETAILED, PROVIDE CONNECTION CAPACITY FOR REACTIONS SHOWN ON DRAWINGS OR, IF NOT SHOWN, BASED ON EITHER ALLOWABLE STRESS DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN AS FOLLOWS:
    a. AT LEAST 50 PERCENT OF THE ALLOWABLE UNIFORM LOAD FROM ALLOWABLE UNIFORM LOAD TABLES IN AISC ASD MANUAL, PART 2, FOR THE GIVEN STEEL MEMBER.
    b. AT LEAST 50 PERCENT OF THE MAXIMUM TOTAL FACTORED UNIFORM LOAD FROM MAXIMUM TOTAL FACTORED UNIFORM LOAD TABLES IN AISC LRFD MANUAL, PART 5, FOR THE GIVEN STEEL MEMBER.
    c. FOR BEAMS AND GIRDERS WITH SHEAR CONNECTORS, PROVIDE CONNECTION CAPACITY OF AT LEAST 70 PERCENT OF THE UNIFORM LOAD VALUES (ASD OR LRFD, AS APPROPRIATE), UNLESS INDICATED OTHERWISE ON DRAWINGS.
    d. CONCENTRATED LOADS NEAR SUPPORTS MUST BE ADDED.
4. PROVIDE HOT DIP GALVANIZED FASTENERS FOR GALVANIZED FRAMING CONNECTIONS AND STAINLESS STEEL FASTENERS FOR STAINLESS STEEL FRAMING CONNECTIONS.
5. FABRICATE AND ERECT STEEL IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
6. SLOPE ROOF STEEL UNIFORMLY BETWEEN ELEVATIONS SPECIFIED ON PLANS.
7. REMOVE ALL PAINT AND OTHER DEBRIS FROM STEEL PRIOR TO FIELD WELDING TO STRUCTURE. FIELD WELDS AND ADJACENT AREAS SHALL BE FIELD PRIMED AFTER INSPECTED.
8. ALL SAFETY REGULATION AND PRECAUTIONS WITH REGARDS TO FIELD WELDING SHALL BE COMPLIED WITH TO PROTECT EXISTING CONSTRUCTION TO REMAIN, FINISHES, AND ON SITE WORKERS (SCREENS & BARRIERS).
9. WHERE FILLET WELD SIZES ARE NOT SPECIFICALLY NOTED, THE FABRICATOR SHALL DETAIL A MINIMUM SIZE FILLET WELD IN ACCORDANCE WITH AWS STANDARDS. THE ACTUAL SIZES SHALL BE SHOWN ON THE SHOP DRAWINGS.
10. BACKER BARS AT COMPLETE JOINT PENETRATION WELDS MUST BE REMOVED IF "R" IS GREATER THAN 3 OR IF STEEL IS "AESS".
11. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW BY ENGINEER. USE DOUBLE ANGLE SHEAR CONNECTIONS WITH 3/4" DIAMETER ASTM A325 BOLTS WITH AT LEAST THE FOLLOWING NUMBER OF BOLT ROWS:

BEAM SIZE	NUMBER OF BOLT ROWS
W8, W10	2
W12, W14, W16	3
W18, W21, W24	4

12. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT UNLESS INDICATED IN STRUCTURAL DRAWINGS.
13. BOLTED CONNECTIONS SHALL UTILIZE TYPE 3 ASTM A 325 BOLTS, UNO. ALL CONNECTIONS SHALL BE INSTALLED SNUG TIGHT.
14. REMOVE BURRS, DIRT, AND OTHER FOREIGN MATERIALS FROM FRAYING SURFACES AND SURFACES ADJACENT TO BOLT HEADS AND NUTS. BURRS LESS THAN OR EQUAL TO 1/16" IN HEIGHT ARE PERMITTED TO REMAIN ON FAYING SURFACES.
15. FABRICATE BOLTED CONNECTIONS WITH STANDARD SIZED HOLES, UNLESS NOTED OTHERWISE.
16. COMPLY WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTED CONNECTIONS.

STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET NAME
S0.01	DESIGN DATA AND GENERAL NOTES
S0.02	GENERAL NOTES, SCHEDULES AND DETAILS
S0.03	SPECIAL INSPECTON NOTES AND SCHEDULE
S1.00	PARTIAL ROOF FRAMING PLAN AT LIBRARY, SECTIONS AND DETAILS
S1.01	PARTIAL ROOF FRAMING PLANS - AREA A, B AND C
S1.02	PARTIAL ROOF FRAMING PLAN AT LIBRARY, SECTIONS AND DETAILS
S1.03	PARTIAL ROOF FRAMING PLAN - AREA A
S3.00	FOUNDATION SECTIONS AND DETAILS

ABBREVIATIONS

ADDL	ADDITIONAL	ENGR	EDGE OF DECK	OPP	OPPOSITE
ADJ	ADJACENT	FD	FLOOR DRAIN	OF	OUSIDE FACE
APPROX	APPROXIMATE	FT	FOOT		
ARCH	ARCHITECTURAL	FDN	FOUNDATION	PL	PLATE
AESS	ARCHITECTURAL EXPOSED STRUCTUAL STEEL	FTG	FOOTING	PAF	POWDER ACTUATED FASTENER
		GALV	GALVANIZED	PE	PROFESSIONAL ENGINEER
B/ , BO	BOTTOM OF	GA	GAUGE	PERP	PERPENDICULAR
BLDG	BUILDING			PLF	POUNDS PER LINEAL FOOT
BLKG	BLOCKING	HSS	HOLLOW STEEL SECTION	PSF	POUNDS PER SQUARE FOOT
BP	BASEPLATE	HORIZ	HORIZONTAL	PSI	POUNDS PER SQUARE INCH
BRG	BEARING	HI	HIGH	PCF	POUNDS PER CUBIC FOOT
BTWN	BETWEEN	HP	HIGH POINT	PC	PRECAST
CANT	CANTILEVER	HVAC	HEATING, VENTILATION, AIR CONDITIONING	PSL	PARALLEL STRAND LUMBER
				PT	PRESSURE TREATED
CIP	CAST IN PLACE	IF	INSIDE FACE		
CJ	CONTROL JOINT	INFO	INFORMATION	R	RADIUS
CL	CENTER LINE	INT	INTERIOR	RD	ROOF DRAIN
CLR	CLEAR	INV	INVERT	RDP	REGISTERED DESIGN PROFESSIONAL
CMU	CONCRETE MASONRY UNIT(S)	K	KIPS	REQD	REQUIRED
COL	COLUMN	KSF	KIPS PER SQUARE FOOT	REINF	REINFORCING
CONC	CONCRETE			REV	REVISION
CONT	CONTINUOUS	L	ANGLE	RO	ROUGH OPENING
CFMF	COLD-FORMED METAL FRAMING	LBS	POUNDS		
		LG	LONG	SIM	SIMILAR
COORD	COORDINATE	LLH	LONG LEG HORIZONTAL	SPA	SPACE
		LLV	LONG LEG VERTICAL	STD	STANDARD
DET	DETAIL	LO	LOW	SF	SQUARE FEET
DIA	DIAMETER	LOC	LOCATION	SS	STAINLESS STEEL
DIM	DIMENSION	LW	LIGHT WEIGHT	STL	STEEL
DN	DOWN	LVL	LAMINATED VENEER LUMBER	SQ	SQUARE
DO	DITTO				
DWLS	DOWELS			THK	THICK
DWG	DRAWINGS	MFR	MANUFACTURER	T/ , TO	TOP OF
		MAX	MAXIMUM	TYP	TYPICAL
EA	EACH	MIN	MIN	T&B	TOP AND BOTTOM
EF	EACH FACE	MECH	MECHANICAL		
ES	EACH SIDE	MISC	MISCELLANEOUS	UNO	THICK
EL	ELEVATION	MO	MASONRY OPENING		
ELEV	ELEVATOR			VERT	VERTICAL
EOS	EDGE OF SLAB	NA	NOT APPLICABLE	VIF	VERIFY IN FIELD
EOD	EDGE OF DECK	NIC	NOT IN CONTRACT		
EQ	EQUAL	NOM	NOMINAL	W	WIDTH, WIDE
EQUIP	EQUIPMENT	NW	NORMAL WEIGHT	W/	WITH
EW	EACH WAY	NS	NEAR SIDE	WD	WOOD
EXIST	EXIST	NTS	NOT TO SCALE	WP	WORK POINT
EXT	EXTERIOR			WWF	WELDED WIRE FABRIC
EIFS	EXTERIOR INSULATION FINISH SYSTEM	OC	ON CENTER	WCJ	WALL CONTROL JOINT
		OD	OUTSIDE DIAMETER		
EXP	EXPANSION	OPNG	OPENING		

REV.	DATE	ITEM

NOTICE

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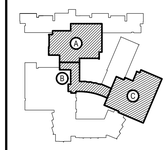

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
DESIGN DATA AND GENERAL NOTES

DRAWING BY: AED
CHECK BY: AED

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DESIGN DATA AND GENERAL NOTES
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

S0.01

CONCRETE COVER SCHEDULE

LOCATION	COVER
CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	3"
CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
#6 BARS AND LARGER	2"
#5 BARS AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, JOIST	3/4"
BEAMS, GIRDERS, COLUMNS, AND PIERS	1 1/2"

CLASS B TENSION LAP SPLICE SCHEDULE

fc' =3,000 PSI					fc' = 4,000 PSI				
BAR SIZE	TOP BAR		OTHER BAR		BAR SIZE	TOP BAR		OTHER BAR	
	CASE 1	CASE 2	CASE 1	CASE 2		CASE 1	CASE 2	CASE 1	CASE 2
#3	28	42	21	32	#3	24	36	18	28
#4	37	56	28	43	#4	32	48	25	37
#5	46	69	36	53	#5	40	60	31	46
#6	56	83	43	64	#6	48	72	37	55
#7	81	131	62	93	#7	70	105	54	81
#8	93	139	71	107	#8	80	120	62	92
#9	104	157	80	120	#9	90	136	70	104

1. TABULATED VALUES ARE IN INCHES.
2. TOP BARS ARE HORIZONTAL BARS PLACED WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW THE DEVELOPMENT LENGTH OR SPLICE.
3. CASE 1 APPLIES TO CLEAR SPACING GREATER THAN OR EQUAL TO 2 BAR DIAMETERS AND COVER GREATER THAN OR EQUAL TO 1 DIAMETER.
4. CASE 2 APPLIES TO CLEAR SPACING LESS THAN 2 BAR DIAMETERS AND COVER LESS THAN 1 DIAMETER.
5. FOR VALUES OF COVER AND SPACING BETWEEN TABULATED VALUES USE THE LONGER LAP LENGTH. DO NOT INTERPOLATE.
6. CALCULATE CENTER TO CENTER SPACING OF BARS AT LAP SPLICE LOCATIONS.
7. FOR EPOXY COATED BARS INCREASE THE TABULATED VALUES AS FOLLOWS; TOP BARS MULTIPLY TABULATED VALUE BY 1.3, FOR OTHER BARS MULTIPLY TABULATED VALUE BY 1.5.
8. FOR LIGHTWEIGHT CONCRETE MULTIPLY TABULATED VALUE BY 1.3

CONCRETE MIX

APPLICATION	EXPOSURE	F'c	MAXIMUM W/C RATIO	AIR CONTENT	NOMINAL MAX. AGGREGATE SIZE (NOTE 4)
FOOTINGS	F0	3,000 PSI	SEE NOTE 2	6% ± 1.0%	-
EXT SLAB ON GRADE	F1	4,500 PSI	0.45	6% ± 1.0%	-
SLAB ON GRADE	F0	3,500 PSI	SEE NOTE 2	SEE NOTE 3	-
SLABS AND BEAMS	F0	4,500 PSI	0.45	6% ± 1.0%	-
PIERS	F0	4,500 PSI	0.45	6% ± 1.0%	-

NOTES:
1. EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY AND CORROSION PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE.
2. WHERE NO MAXIMUM WATER TO CEMENT RATIO IS NOTED, PROPORTION WATER TO CEMENT RATIO FOR SPECIFIED CONCRETE MIX DESIGN STRENGTH.
3. DO NOT AIR ENTRAIN INTERIOR SLABS ON GRADE OR SLABS ON METAL DECK. AIR ENTRAINMENT IS NOT PERMITTED FOR CONCRETE TO RECEIVE HARD TROWEL FINISH AND ENTRAPPED AIR SHALL NOT EXCEED 3%. SLABS SHALL BE FINISHED TO AVOID SURFACE IMPERFECTIONS, INCLUDING BLISTERING AND DELAMINATION.
4. COARSE AGGREGATE SHALL BE AS INDICATED IN SPECIFICATIONS. MAXIMUM CONCRETE UNIT WEIGHT NOT TO EXCEED 150 POUNDS PER CUBIC FEET.

MASONRY REINFORCEMENT LAP SPLICE

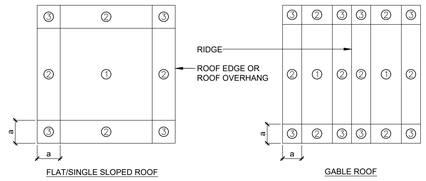
BAR LAP LENGTHS IN CMU WITH f'm = 2,000 psi			
LOCATION	#4	#5	#6
(1) BAR AT CENTER OF 6" CMU CORE OR BOND BEAM	23"	36"	73"
(1) BAR AT CENTER OF 8" CMU CORE OR BOND BEAM	23"	27"	50"
(1) BAR AT CENTER OF 12" CMU CORE OR BOND BEAM	23"	36"	73"
(2) BARS IN 8" CMU CORE LOCATED 5" FROM EACH FACE SHELL	23"	36"	73"
(2) BARS IN 12" CMU CORE LOCATED 9" FROM EACH FACE SHELL	23"	36"	73"
(2) BARS IN 8", 10", 12" BOND BEAMS LOCATED 3/4" FOR INSIDE FACE OF FACE SHELL	22"	22"	22"

LINTEL SCHEDULE

MARK	MATERIAL	TYPE	LENGTH	REMARKS
L1	L5X31/2X5/16 (LLV)		4'-8"±	COORD LENGTH W/ DOOR SCHEDUE
L2	HSS16X8X1/4 W/ CONT 5/16" PL TOP AND BOTTOM		SEE PLAN	AT WINDOW VL-13. SEE SECTION 4/S0.01, BEAR 12" ON EXIST CMU AND CONN TO COL AT OPPOSITE END. SEE 5/S0.01.

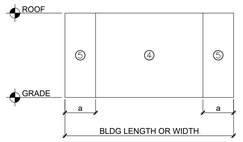
LINTEL NOTES:
1. FOR OPENINGS NOT OTHERWISE DETAILED OR SCHEDULED, INCLUDING DOORS, WINDOWS, AND MECHANICAL OPENINGS, MINIMUM LINTELS SHALL BE (FOR EACH 4 INCHES OF MASONRY WIDTH), ONE L3 1/2 X3 1/2 X 5/16 FOR SPANS UP TO 4 FEET, ONE L4X3 1/2 X5/16 LLV FOR SPANS UP TO 6 FEET; ONE L5X3 1/2X5/16 LLV FOR SPANS UP TO 8 FEET. FOR SPANS LESS THAN 2 FEET, PROVIDE A 5/16 INCH PLATE. COORDINATE OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

   FOR 10-INCH MASONRY WALLS, USE TWO L5X5X5/16 FOR SPANS UP TO 6 FEET AND TWO L6X6X5/16 FOR SPANS UP TO 8 FEET. TRIM HORIZONTAL LEG TO 4 1/2 INCHES WIDE.
2. WELD TOGETHER BACK-TO-BACK LINTELS. MAXIMUM WELD SPACING SHALL NOT EXCEED 12 INCHES ON CENTER.
3. BEAR LINTELS A MINIMUM OF 8 INCHES EACH END UNLESS NOTED OTHERWISE. GROUT CMU CORES FULL HEIGHT BELOW LINTEL BEARING.
4. HOT-DIP GALVANIZE LINTELS IN EXTERIOR WALLS.



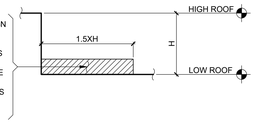
1 S0.1 ROOF PLAN - ROOF WIND PRESSURE ZONES
SCALE: 3/4= 1'-0"

NOTE:
a = 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4XROOF HEIGHT WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4 PERCENT OF LEAST HORIZONTAL DIMENSION OR 3 FEET.



2 S0.1 EXTERIOR WALL ELEVATION - WALL WIND PRESSURE ZONES
SCALE: 3/4= 1'-0"

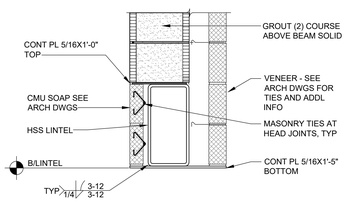
WITHIN THIS ZONE THE FOLLOWING DESIGN PRESSURES APPLY:
1. FOR PRESSURE TOWARDS SURFACE USE SAME AS WALL PRESSURE ZONES 4 AND 5.
2. FOR PRESSURE AWAY FROM SURFACE USE SAME AS ROOF PRESSURES EXCEPT ZONE 2 SHALL BE TREATED AS ZONE 1, AND ZONE 3 SHALL BE TREATED AS ZONE 2.



3 S0.1 SECTION - ROOF WIND PRESSURE ZONE AT ROOF STEPS
SCALE: 3/4= 1'-0"

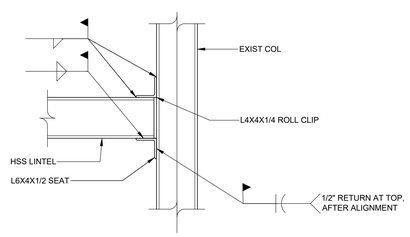
DESIGN WIND PRESSURE FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS

ROOF SLOPE	SURFACE	EFFECTIVE WIND AREA (sf)	WIND PRESSURE TOWARD SURFACE (psf)	WIND PRESSURE AWAY FROM SURFACE (psf)
0° TO 7°	ZONE 1 ROOF	10 20 50 100	10 10 10 10	17 16 16 15
	ZONE 2 ROOF EDGES	10 20 50 100	10 10 10 10	28 25 21 18
	ZONE 2 ROOF OVERHANG AT ROOF EDGES	10 20 50 100	0 0 0 0	24 24 23 23
	ZONE 3 ROOF CORNERS	10 20 50 100	10 10 10 10	42 35 25 18
	ZONE 3 ROOF OVERHANG AT ROOF CORNERS	10 20 50 100	0 0 0 0	40 31 20 12
> 7° TO 27°	ZONE 1 ROOF	10 20 50 100	10 10 10 10	15 15 14 14
	ZONE 2 ROOF EDGES	10 20 50 100	10 10 10 10	27 25 22 20
	ZONE 2 ROOF OVERHANG AT ROOF EDGES	10 20 50 100	0 0 0 0	31 31 31 31
	ZONE 3 ROOF CORNERS	10 20 50 100	10 10 10 10	39 37 33 31
	ZONE 3 ROOF OVERHANG AT ROOF CORNERS	10 20 50 100	0 0 0 0	53 47 41 36
> 27° TO 45°	ZONE 1 ROOF	10 20 50 100	15 15 14 14	17 16 15 14
	ZONE 2 ROOF EDGES	10 20 50 100	15 15 14 14	20 19 18 17
	ZONE 2 ROOF OVERHANG AT ROOF EDGES	10 20 50 100	0 0 0 0	28 28 26 25
	ZONE 3 ROOF CORNERS	10 20 50 100	15 15 14 14	20 19 18 17
	ZONE 3 ROOF OVERHANG AT ROOF CORNERS	10 20 50 100	0 0 0 0	28 28 26 26
NA	ZONE 4 WALL	10 20 50 100 500	17 16 15 14 13	18 17 16 16 14
	ZONE 5 WALL CORNERS	10 20 50 100 500	17 16 15 14 13	22 21 19 17 14



4 S0.01 LINTEL SECTIONS
SCALE: 1" = 1'-0"

NOTES:
1. SEE SCHEDULE AND LINTEL NOTES FOR LINTEL SIZES.
2. SEE LINTEL NOTES FOR ADDITIONAL INFORMATION.



5 S0.01 ANGLE LINTEL CONNECTION TO COLUMN
SCALE: 1" = 1'-0"

NOTES:
1. CONNECT TO EDGE OF FLANGES OR FACE OF FLANGE BASED ON EXISTING COLUMN ORIENTATION. FIELD VERIFY.

REV.	DATE	ITEM
01	03/19/25	BID ADD. NO. 04

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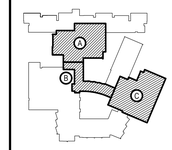

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NOT TO SCALE

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PHASE 2 - BOND IMPROVEMENTS
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DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	GENERAL NOTES, SCHEDULES AND DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

S0.02

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION NOTES:

1. THE SCHEDULE OF SPECIAL INSPECTIONS, AND SPECIAL INSPECTION NOTES INDICATE THE REQUIRED STRUCTURAL TESTS AND INSPECTIONS FOR THE PROJECT AND SHALL BE CONSIDERED THE STATEMENT OF SPECIAL INSPECTIONS. THE FOLLOWING TYPES OF CONSTRUCTION REQUIRE INSPECTION:

   A. SOILS AND FOUNDATIONS
   B. CAST-IN-PLACE CONCRETE
   C. MASONRY
   D. STRUCTURAL STEEL

2. THE OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THIS PROJECT, WHO WILL PROVIDE AND/OR COORDINATE INSPECTION AND TESTING REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE "2020 BUILDING CODE OF NEW YORK STATE".

3. STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE "2020 BUILDING CODE OF NEW YORK STATE" AND AS INDICATED IN THE SCHEDULE OF SPECIAL INSPECTIONS. THE SPECIAL INSPECTOR, INSPECTION AGENT OR TESTING AGENT SHALL BE A QUALIFIED PERSON OR AGENCY WHO HAVE RELEVANT CERTIFICATIONS, QUALIFICATIONS AND EXPERIENCE FOR EACH CATEGORY OF TESTING OR INSPECTION TO BE PERFORMED. ALL PERSONNEL PERFORMING SPECIAL INSPECTIONS AND TESTING ARE SUBJECT TO THE APPROVAL OF THE CODE ENFORCEMENT OFFICIAL. SUBMIT CREDENTIALS OF SPECIAL INSPECTORS AND TESTING TECHNICIANS FOR REVIEW WHEN REQUESTED.

4. THE SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF BUILDINGS AND REGISTERED IN THE STATE OF NEW YORK.

5. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING AT LEAST 7 DAYS PRIOR TO THE START OF CONSTRUCTION TO REVIEW THE REQUIRED SPECIAL INSPECTION AND TESTING REQUIREMENTS, NOTIFICATIONS, AND REPORTING PROCEDURES FOR THE PROJECT. ATTENDEES SHALL INCLUDE THE REGISTERED DESIGN PROFESSIONAL FOR STRUCTURAL ENGINEERING AND FOR ARCHITECTURE, OWNER OR OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, TESTING AGENCY, AND AFFECTED SUB-CONTRACTORS. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE.

6. SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED ON A CONTINUOUS OR PERIODIC BASIS DURING THE PERFORMANCE OF THE WORK, AS INDICATED IN THE SCHEDULE. CONTINUOUS AND PERIODIC INSPECTIONS SHALL BE DEFINED AS FOLLOWS:

   A. CONTINUOUS SPECIAL INSPECTION IS THE FULL TIME OBSERVATION OF WORK WHILE THE WORK IS BEING PERFORMED.

   B. PERIODIC SPECIAL INSPECTION IS THE PART-TIME OBSERVATION OF WORK WHILE THE WORK IS BEING PERFORMED OR AFTER IT HAS BEEN COMPLETED.

7. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR OR TESTING AGENCY AT LEAST 48 HOURS IN ADVANCE OF A REQUIRED INSPECTION OR TEST.

8. THE CONTRACTOR SHALL COOPERATE WITH SPECIAL INSPECTOR AND TESTING AGENCIES INCLUDING ADVANCE NOTIFICATION OF REQUIRED INSPECTION OR TEST, PROVIDING INCIDENTAL LABOR, AND SAFE ACCESS TO THE WORK AREAS INCLUDING SCAFFOLDING, AND ACCESS TO CONTRACT DOCUMENTS SO THAT INSPECTIONS AND TESTING MAY BE PERFORMED WITHOUT HINDRANCE.

9. THE SPECIAL INSPECTOR SHALL NOTIFY THE CONTRACTOR IMMEDIATELY OF DISCREPANCIES FOR CORRECTIVE ACTION. REPORTS SHALL NOTE WHEN AND HOW DEFICIENCIES WERE CORRECTED. ITEMS IMMEDIATELY CORRECTED AND SUBSEQUENTLY INSPECTED OR TESTED NEED NOT BE IDENTIFIED AS A NON-CONFORMANCE ITEM.

10. IF NON-CONFORMING WORK IS NOT CORRECTED WHILE SPECIAL INSPECTOR OR TESTING AGENT IS ON SITE, SPECIAL INSPECTOR OR TESTING AGENT SHALL NOTIFY REGISTERED DESIGN PROFESSIONAL AND CODE ENFORCEMENT OFFICIAL WITHIN 24 HOURS AND ISSUE A REPORT NOTING THE NON-CONFORMANCE.

11. CONTRACTOR SHALL PERFORM REMEDIAL/CORRECTIVE WORK IF REQUIRED AND SIGN NON-CONFORMANCE OR FIELD REPORTS STATING REMEDIAL/CORRECTIVE WORK HAS BEEN COMPLETED. CONTRACTOR SHALL SUBMIT SIGNED REPORTS TO THE REGISTERED DESIGN PROFESSIONAL AND SPECIAL INSPECTOR AS WORK PROCEEDS.

12. THE SPECIAL INSPECTOR OR TESTING AGENCY SHALL SUBMIT INTERIM REPORTS TO THE REGISTERED DESIGN PROFESSIONAL, CODE ENFORCEMENT OFFICIAL, AND SPECIAL INSPECTOR (IF PREPARED BY A TESTING AGENCY) WITHIN 7 DAYS OF INSPECTION. REPORTS SHALL BE SIGNED BY THE PERSON PERFORMING THE INSPECTION OR TEST AND THE PERSON SUPERVISING.

13. SPECIAL INSPECTOR AND EACH TESTING AGENT SHALL USE A LOG TO RECORD AND TRACK NON-CONFORMING WORK DURING CONSTRUCTION. AN UPDATED LOG SHALL BE ATTACHED TO EACH REPORT. NON-CONFORMANCE LOG SHALL INCLUDE THE FOLLOWING INFORMATION:

   -DESCRIPTION OF NON-CONFORMANCE
   -DATE OF NON-CONFORMANCE
   -DESCRIPTION OF RDP RESPONSE, IF RECEIVED
   -STATUS OF NON-CONFORMANCE: 'OPEN' OR 'CLOSED'.

14. IF NON-CONFORMING WORK IS NOT CORRECTED AT TIME OF SUBSTANTIAL COMPLETION OF STRUCTURE OR OTHER APPROPRIATE TIME, SPECIAL INSPECTOR SHALL NOTIFY CODE ENFORCEMENT OFFICIAL AND REGISTERED DESIGN PROFESSIONAL.

15. AT THE COMPLETION OF SPECIAL INSPECTIONS, A FINAL REPORT OF SPECIAL INSPECTIONS SHALL BE PREPARED BY THE SPECIAL INSPECTOR AND EACH TESTING AGENCY PERFORMING INSPECTIONS. THE FINAL REPORT SHALL INDICATE THE INSPECTIONS PERFORMED, NON-CONFORMANCES HAVE BEEN REPORTED AND RESOLVED OR IDENTIFY ANY UNRESOLVED NON-CONFORMANCE ITEMS. THE FINAL REPORT SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL(S), CODE ENFORCEMENT OFFICIAL, AND SPECIAL INSPECTOR (IF PREPARED BY A TESTING AGENCY).

16. THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.

17. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

SCHEDULE OF SPECIAL INSPECTIONS:

SOILS AND FOUNDATIONS:

INSPECTION TASK	REFERENCED STANDARD	INSPECTION FREQUENCY	TESTING/INSPECTION QUANTITY AND EXTENT
1. VERIFY SITE PREPARATION IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL EVALUATION:			
A. IDENTIFY SOILS REQUIRING UNDERCUTTING AND REPLACING WHILE OBSERVING PROOF ROLLING AND WHEN SUBGRADE IS EXPOSED.		CONT	
B. VERIFY FOOTING BEARING STRATA		PERIODIC	
C. REVIEW AND ACCEPT FILL MATERIALS		PERIODIC	
D. OBSERVE AND ACCEPT BACKFILLING AND COMPACTION PROCEDURES		CONT	
E. OBSERVE AND ACCEPT PREPARATION OF SLAB SUBGRADE AND SUBBASE		CONT	
F. VERIFY USE OF FILL MATERIAL AND LIFT THICKNESS IN FIELD		PERIODIC	
2. COMPACTION AND MOISTURE CONTENT TESTING:	ASTM D 1557 ASTM D 6938		
A. TEST OF SUBGRADE AT FOOTINGS			EACH SPREAD FOOTING AND EACH 20-FOOT LENGTH OF STRIP FOOTING
B. TEST OF SUBGRADE AND SUBBASE BELOW SLABS			EACH 2000 SF OF SLAB-ON-GRADE, BUT NOT LESS THAN 4 TESTS
C. FILL MATERIALS			EACH 2000 SF OF BUILDING AREA, BUT NOT LESS THAN 4 TESTS FOR EACH LIFT

CAST-IN-PLACE CONCRETE:

INSPECTION TASK	REFERENCED STANDARD	INSPECTION FREQUENCY	TESTING/INSPECTION QUANTITY AND EXTENT
1. INSPECT REINFORCING STEEL, INCLUDING SIZE, SPACING AND PLACEMENT			
A. FOOTINGS, FOUNDATION WALLS AND PIERS		PERIODIC	50% OF FOOTINGS
B. SLABS ON GRADE		PERIODIC	50% OF SLAB AREA
C. SLABS ON DECK		PERIODIC	50% OF SLAB AREA
D. STRUCTURAL SLABS		PERIODIC	100% OF SLAB
2. INSPECT ANCHOR RODS PRIOR TO PLACEMENT OF CONCRETE			
A. AT COLUMN BASE PLATES, BEAM POCKETS AND ELSEWHERE WHERE ANCHORS ARE SUBJECT TO SHEAR OR TENSION		PERIODIC	50% OF ANCHORS
B. AT COLUMNS IN BRACED FRAMES		PERIODIC	100% OF ANCHORS
3. VERIFY USE OF ACCEPTED DESIGN MIX			
4. SAMPLE AND TEST FRESH CONCRETE	ASTM C 172 ASTM C 31 ASTM C 94	CONT	
A. TAKE SIX CYLINDERS			EACH 50 CY OR EACH 5,000 SF OF SLAB FOR EACH CLASS OF CONCRETE
B. RECORD TIME CONCRETE IS BATCHED, SAMPLED AND TRUCK IS EMPTY			EACH TRUCK
C. PERFORM SLUMP TEST			ONE TEST EACH TRUCK, TWO TESTS IF CONCRETE IS PUMPED - ONE AT TRUCK AND ONE AT HOSE END
D. MEASURE AIR CONTENT	ASTM C 231		EACH TRUCK
E. RECORD CONCRETE AND AMBIENT AIR TEMPERATURE			EACH TRUCK
F. RECORD UNIT WEIGHT OF CONCRETE	ASTM C 138 ASTM C 567		1 TEST EACH CLASS OF CONCRETE FOR EACH DAY
G. PERFORM COMPRESIVE STRENGTH TESTS	ASTM C 39		TEST 2 CYLINDERS AT 7 DAYS AND AT 28 DAYS - RETAIN REMAINING CYLINDERS & TEST AS DIRECTED
5. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	ACI 318 5.9, 5.10	CONT	EACH PLACEMENT
6. INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	ACI 318 5.11, 5.13	PERIODIC	EACH PLACEMENT
7. INSPECT AND TEST CONCRETE SLABS ON GRADE AND METAL DECK			
A. FLOOR FLATNESS AND LEVELNESS	ASTM E 1155	PERIODIC	ENTIRE SLAB AREA
B. MOISTURE VAPOR EMISSION AND ALKALINITY	ASTM F 1869 ASTM F 710	PERIODIC	ENTIRE SLAB AREA
8. INSPECT WELDING OF REINFORCING STEEL	AWS D1.4		SEE STEEL SPECIAL INSPECTION TABLE

STRUCTURAL STEEL, STEEL JOIST, AND METAL DECK:

INSPECTION TASK	REFERENCED STANDARD	INSPECTION FREQUENCY	TESTING/INSPECTION QUANTITY AND EXTENT
1. VERIFY FABRICATOR(S) MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES	AISC 360-10 CHAPTER N	PERIODIC	
2. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:		PERIODIC	ALL BOLTS
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS			
B. MANUFACTURE'S CERTIFICATE OF COMPLIANCE			
C. TEST 3-HIGH STRENGTH BOLT ASSEMBLIES FROM EACH LOT FOR USE AT PRETENSIONED AND SLIP CRITICAL JOINTS.			
3. INSPECTION OF HIGH-STRENGTH BOLTSING:	AISC 360-10 N5.6		
A. BEARING TYPE CONNECTIONS		PERIODIC	100% OF JOINTS
B. SLIP-CRITICAL CONNECTIONS, INCLUDING PREPARATION OF THE FAYING SUFACES AND TIGHTENING		CONT	
4. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND METAL DECK:	ASTM A 6, A 568 OR A 653		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		PERIODIC	100% OF JOINTS
B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED		PERIODIC	100% OF JOINTS
5. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	AISC 360-10 A3.5		
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFIED IN CONSTRUCTION DOCUMENTS		CONT	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED			
6. INSPECTION OF WELDING OF STRUCTURAL STEEL:	AISC 360-10, N5.4, N5.5 AWS D1.1		
A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. 100% VISUAL INSPECTION AND 10% ULTRASONIC TESTING	ASTM E 587	PERIODIC	CONTINUOUS INSPECTION FOR UT TESTING
B. FILLET WELDS. 100% VISUAL INSPECTION AND 10% MAGNETIC PARTICAL TESTING	ASTM E 709 AWS D1.1		
1. SINGLE PASS (5/16 OR LESS)		PERIODIC	
2. MULTIPASS (GREATER THAN 5/16)		CONT	
C. METAL DECK WELDS	AWS D1.3		50% OF WELDS
D. SHEAR CONNECTOR WELDS	AISC 360-10 N6	PERIODIC	VERIFY 50% OF CONNECTOR WELDS. HAMMER BEND TEST TO BE PERFORMED BY CONTRACTOR
7. INSPECTION OF ERECTED STEEL FRAME:	AISC 360-10 N5.7	PERIODIC	100% OF FRAME
A. JOINT DETAILS FOR COMPLIANCE WITH ACCEPTED CONSTRUCTION DOCUMENTS			
B. BRACED FRAMES AND MOMENT FRAMES			
C. APPLICATION OF JOINT DETAILS AT EACH JOINT			
8. INSPECT CONDITION OF ERECTED MATERIALS		PERIODIC	100% OF MATERIALS
9. VERIFY COLUMN PLUMBNESS AND SPLICES		PERIODIC	100% OF COLUMNS
10. INSPECTION OF METAL DECK, INCLUDING SIZE AND SPACING OF MECHANICAL FASTENERS	AISC 360-10 N6	PERIODIC	100% OF DECK

MASONRY (LEVEL C):

INSPECTION TASK	REFERENCED STANDARD	INSPECTION FREQUENCY	TESTING/INSPECTION QUANTITY AND EXTENT
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING TO ENSURE COMPLIANCE WITH CONTRACT DOCUMENTS:			
A. PROPORTION OF SITE PREPARED MORTAR	TMS 602 ART 2.6A	PERIODIC	FIRST 5 DAYS OF MASONRY CONSTRUCTION AND TWICE PER WEEK FOR EVERY 2,500 SF OF WALL
B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	TMS 602 ART 3.5B	PERIODIC	FIRST 3 DAYS OF MASONRY CONSTRUCTION AND TWICE PER WEEK FOR EVERY 2,500 SF OF WALL
C. LOCATION OF REINFORCEMENT AND CONNECTORS	TMS 602 ART 3.4, 3.6A	PERIODIC	50% OF WALL
2. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:			
A. GROUT SPACE	TMS 602 ART 3.2 D & F	CONT	
B. GRADE, TYPE AND SIZE OF REINFORCMENT AND ANCHOR BOLTS	TMS 602 ART 2.4, 3.4	PERIODIC	
C. PLACEMENT OR REINFORCEMENT, AND CONNECTORS	TMS 602-ART 3.2E, 3.4, 3.6A	CONT	
D. PROPORTIONS OF SITE PREPARED GROUT	TMS 602 ART 2.6B	PERIODIC	
E. CONSTRUCTION OF MORTAR JOINTS	TMS 602 ART 3.3B	PERIODIC	
3. VERIFY THE FOLLOWING DURING CONSTRUCTION:			
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	TMS 602 ART 3.3F	PERIODIC	
B. TYPE SIZE AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE TO STRUCTURAL MEMBERS, FRAMES AND OTHER CONSTRUCTION	TMS 402 - Sec 1.2.1(e), 6.1.4.3, 6.2.1	CONT	
C. PLACEMENT OF GROUT	TMS 602 ART 3.5	CONT	
D. PROTECTION OF MASONRY DURING HOT AND COLD WEATHER	TMS 602 ART 1.8C & D	PERIODIC	
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	TMS 602 - ART 1.2B, 1.4B.3, 1.4B.4	CONT	

REV.	DATE	ITEM

NOTICE

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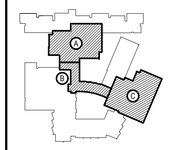

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

SPECIAL INSPECTION NOTES AND SCHEDULE

DRAWING BY: AED
CHECK BY: AED

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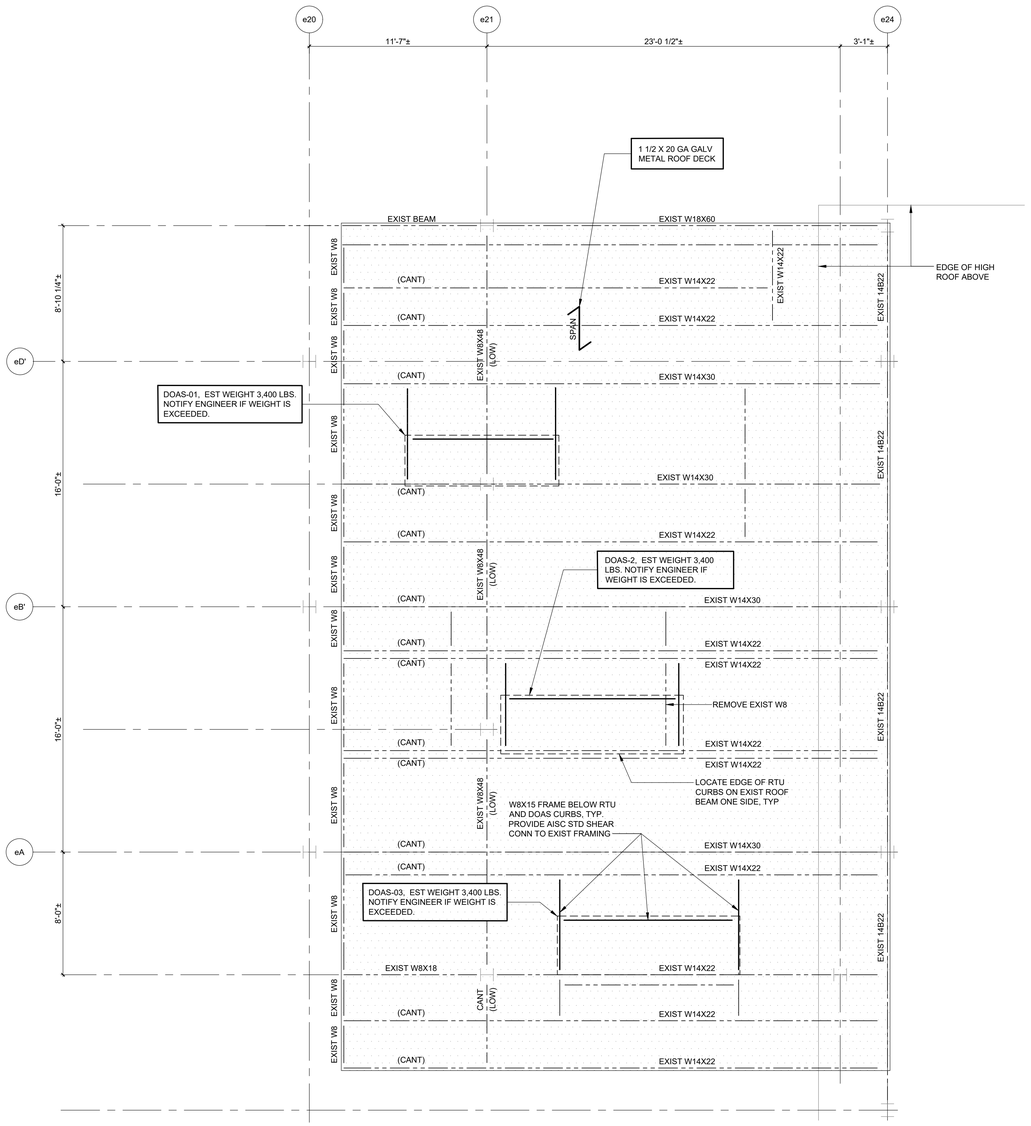
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	SPECIAL INSPECTION NOTES AND SCHEDULE
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

S0.03

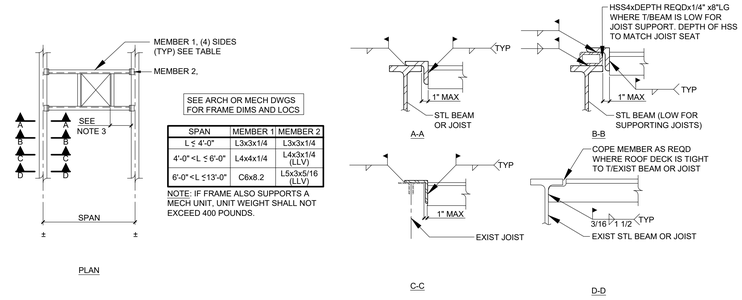


PARTIAL ROOF FRAMING PLAN AT LIBRARY

1/4" = 1'-0"

NOTES:

1. T/EXIST STEEL (B/DECK) ELEVATION (554'-1"±) UNLESS NOTED OTHERWISE. T/STEEL TO MATCH T/EXIST STEEL (B/EXIST DECK) ELEVATION. FIELD VERIFY EXIST STEEL ELEVATION.
2. ELEVATIONS NOTED (+/- X'-X") ARE IN REFERENCE TO THE SPECIFIED T/EXISTING STEEL (B/DECK) ELEVATION.
3. REMOVE AND REPLACE EXISTING METAL ROOF DECK AT AREA INDICATED IN PLAN. CLEAN TOP OF STEEL BEAMS TO REMOVE ANY METAL ROOF DECK REMNANTES, INCLUDING DECK FASTENERS, WELDS, ETC TO PROVIDE SMOOTH LEVEL SURFACE FOR METAL ROOF DECK INSTALLATION.
4. PROVIDE WELDED ROOF FRAMES AT OPENINGS AND BELOW RTU CURBS UNLESS NOTED OTHERWISE. COORDINATE ROOF OPENINGS AND RTU SIZES AND LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. SEE DETAILS 1/S1.00 FOR FRAME AT OPENINGS, PROVIDE W8 FRAMING BELOW CURBS AS NOTED IN PLAN.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EXISTING STRUCTURAL FRAMING ELEVATIONS, SIZES, ORIENTATION AND LOCATIONS PRIOR TO PREPARATION OF SUBMITTALS, FABRICATIONS OR START OF WORK. NOTIFY ENGINEER IF CONDITIONS DIFFER FROM SHOWN IN THE DRAWINGS.
6. [ ] - INDICATES AREA OF ROOF DECK TO BE REMOVED AND REPLACED WITH 1 1/2 INCH BY 20 GA GALVANIZED METAL ROOF DECK.
7. SEE S0.01 FOR ADDITIONAL INFORMATION.



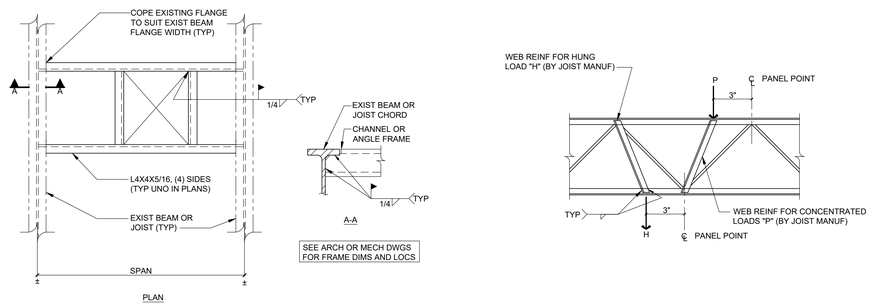
SPAN	MEMBER 1	MEMBER 2
L ≤ 4'-0"	L3x3x1/4	L3x3x1/4
4'-0" <L ≤ 6'-0"	L4x4x1/4	L4x3x1/4 (LLV)
6'-0" <L ≤13'-0"	C6x8.2	L5x3x5/16 (LLV)

1 / S1.00 TYPICAL WELDED ANGLE FRAME DETAIL

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

NOTES:

1. PROVIDE TYPICAL WELDED ANGLE FRAME AT ROOF DRAINS, EXHAUST FANS AND ROOF VENTS .. COORDINATE SIZE AND LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
2. DETAIL SHOWS DIFFERENT ATTACHMENT METHODS TO DIFFERENT EXISTING FRAMING MEMBERS. IF NOT NOTED IN PLAN, USE ATTACHMENT THAT WILL POSITION SUPPORT FRAME TIGHT TO EXISTING ROOF DECK, LOCATED FRAME DIRECTLY BELOW UNIT CURB AND WILL ACHIEVE PROPER CONNECTION TO THE EXISTING ROOF MEMBER. NOTIFY ENGINEER IF EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN IN SECTIONS A-A, B-B, C-C, OR D-D. FIELD VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION.
3. WHERE DIMENSION IS LESS THAN 6", OMIT MEMBER 1 PARALLEL TO EXISTING BEAM OR JOIST. TYPICAL (4) SIDES OF PENETRATION.



2 / S1.00 WELDED ANGLE FRAME AT MECHANICAL UNITS

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

NOTE:

1. PROVIDE WELDED ANGLE SUPPORT FRAME AT MECHANICAL UNITS BELOW ROOF TOP UNITS. COORDINATE SIZE AND LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
2. NOTIFY ENGINEER IF ACTUAL WEIGHT OF MECHANICAL UNITS EXCEED WEIGHTS NOTED ON PLAN. COORDINATE EXACT DIMENSIONS AND LOCATIONS WITH THE MECHANICAL DRAWINGS AND UNITS SUPPLIED.
3. IF EDGE OF UNIT IS LOCATED OVER AN EXISTING BEAM OR GIRDER, THE CLOSEST MEMBER PARALLEL TO THE EXISTING BEAM OR GIRDER MAY BE OMITTED.
4. SEE 1/S1.02 FOR ADDITIONAL FRAME AND FRAME CONNECTION INFORMATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION.

3 / S1.00 JOIST WEB REINFORCING

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

NOTES:

1. GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, AND EQUIPMENT SUPPLIERS, FOR EQUIPMENT LOCATIONS AND WEIGHT.
2. MINIMUM WEB REINFORCING SHALL BE L1 1/2x1 1/2x1/4 EACH SIDE OF JOIST. PROVIDE WEB REINFORCING WHEN LOAD "P" OR "H" ARE GREATER THAN 3" FROM EXISTING JOIST PANEL POINTS.

REV.	DATE	ITEM

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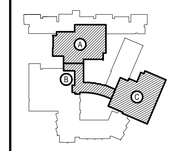

KEY PLAN

NOT TO SCALE

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

PROJECT

PARTIAL ROOF FRAMING PLAN AT LIBRARY
SECTIONS AND DETAILS

DWG TITLE

DRAWING BY: AED

CHECK BY: AED

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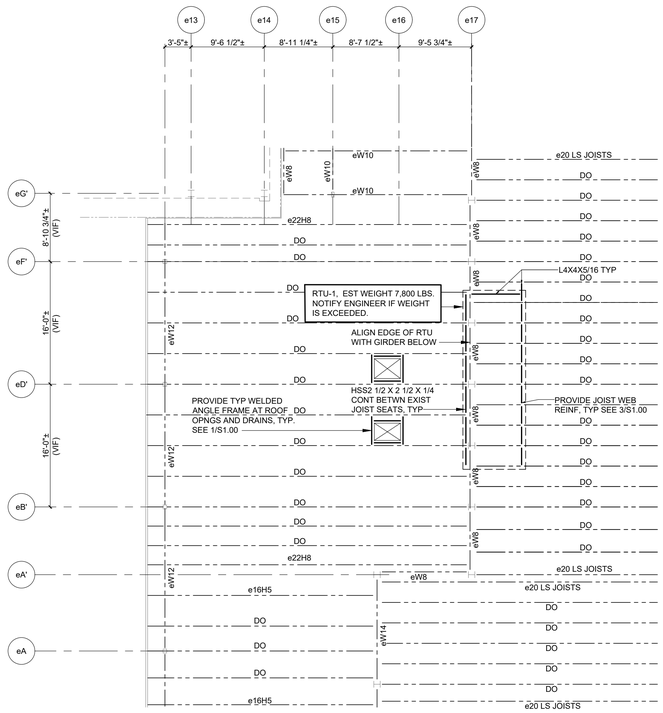
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PART. ROOF FRAMING PLAN AT LIBRARY, SECTIONS AND DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

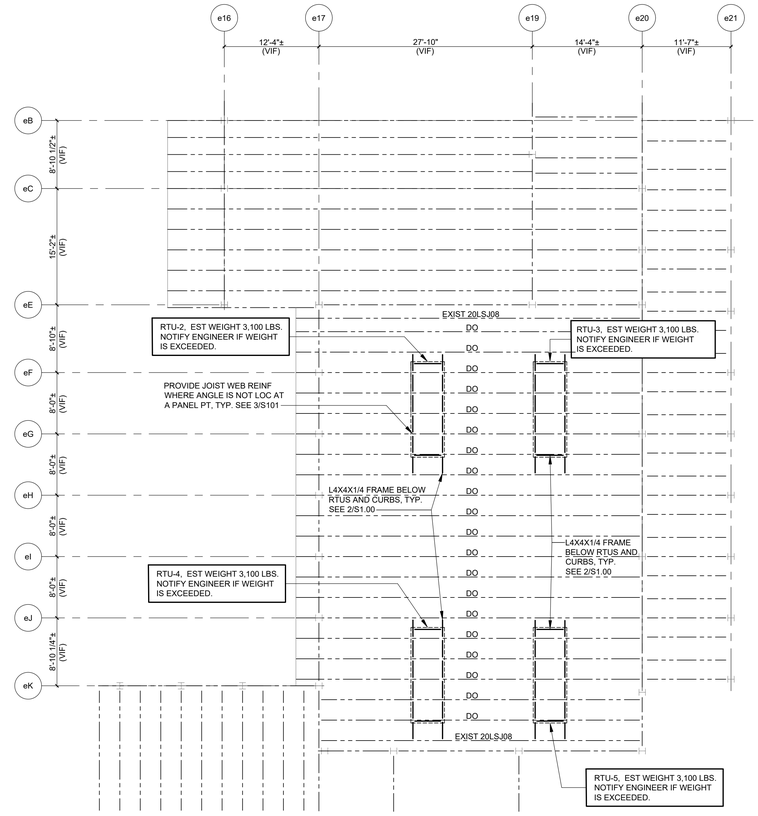
S1.00



PARTIAL ROOF FRAMING PLAN AT AREA A

1/8" = 1'-0"

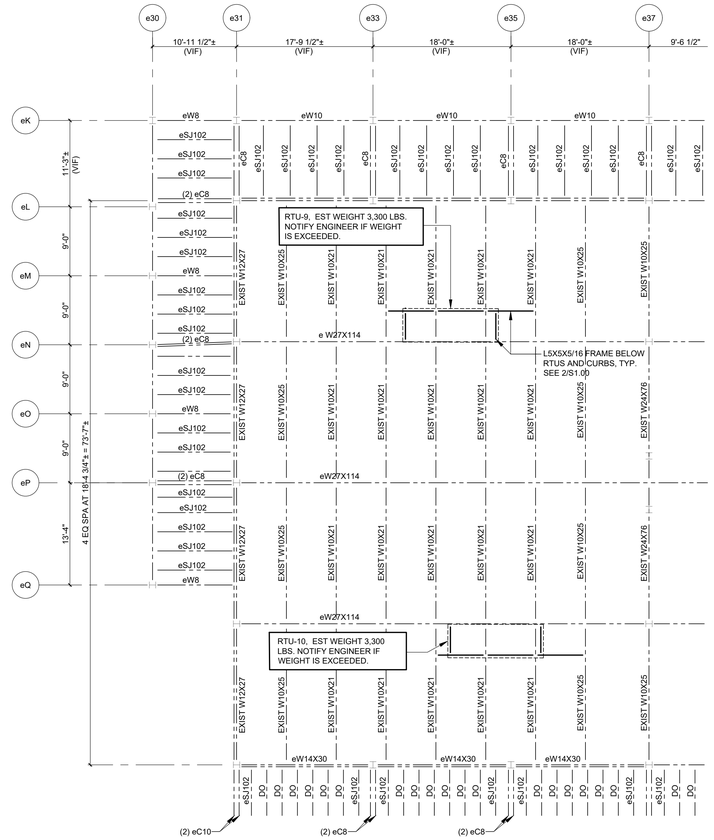
NOTES:
1. T/EXIST STEEL (B/DECK) ELEVATION (554'-3"±) UNLESS NOTED OTHERWISE. FIELD VERIFY EXISTING STEEL ELEVATION.
2. SEE PARTIAL ROOF FRAMING PLAN AT AREA B NOTES AND S0.01 FOR ADDITIONAL INFORMATION.



PARTIAL ROOF FRAMING PLAN AT AREA B

1/8" = 1'-0"

NOTES:
1. T/EXIST STEEL (B/EXIST DECK) ELEVATION (554'-3"±) UNLESS NOTED OTHERWISE. FIELD VERIFY EXISTING STEEL ELEVATION. T/STEEL TO MATCH T/EXIST STEEL (B/EXIST DECK) ELEVATION.
2. ELEVATIONS NOTED (+/- X'-X") ARE IN REFERENCE TO THE SPECIFIED T/EXISTING STEEL (B/DECK) ELEVATION.
3. RD-INDICATES ROOF DRAINS\, EF INDICATES EXHAUST FANS. RV INDICATES ROOF VENT. COORDINATE SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE WELDED ANGLE FRAME AT ROOF DRAINS, VENTS, EXHAUS FRANS AND HATCHES (ALL LOCATIONS NOT SHOWN IN STRUCTURAL DRAWINGS). SEE 1/S1.00.
4. PROVIDE WELDED ROOF FRAMES AT OPENINGS AND BELOW RTU CURBS UNLESS NOTED OTHERWISE. COORDINATE ROOF OPENING AND RTU SIZES AND LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. SEE DETAILS 1/S1.00 AND 2/S1.00 FOR MORE INFORMATION.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EXISTING STRUCTURAL FRAMING ELEVATIONS, SIZES, ORIENTATION AND LOCATIONS PRIOR TO PREPARATION OF SUBMITTALS, FABRICATIONS OR START OF WORK. NOTIFY ENGINEER IF CONDITIONS DIFFER FROM SHOWN IN THE DRAWINGS.
6. NOTIFY ENGINEER IF ACTUAL WEIGHTS OF MECHANICAL UNITS EXCEED WEIGHTS NOTED ON PLAN. WEIGHTS SHOWN INCLUDES CURB WEIGHTS. COORDINATE EXACT DIMENSIONS AND LOCATIONS WITH UNITS SUPPLIED, ARCHITECTURAL, AND MECHANICAL DRAWINGS
7. SEE S0.01 FOR ADDITIONAL INFORMATION.



PARTIAL ROOF FRAMING PLAN AT AREA C

1/8" = 1'-0"

NOTES:
1. T/EXIST STEEL ELEVATION AT RTUs (559'-1 1/2"±) UNLESS NOTED OTHERWISE. FIELD VERIFY EXISTING STEEL ELEVATION.
2. SEE PARTIAL ROOF FRAMING PLAN AT AREA B NOTES AND S0.01 FOR ADDITIONAL INFORMATION.

REV.	DATE	ITEM

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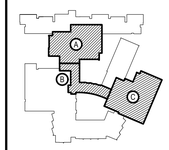

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PARTIAL ROOF FRAMING PLANS - AREA A, B, AND C

DRAWING BY: AED

CHECK BY: AED

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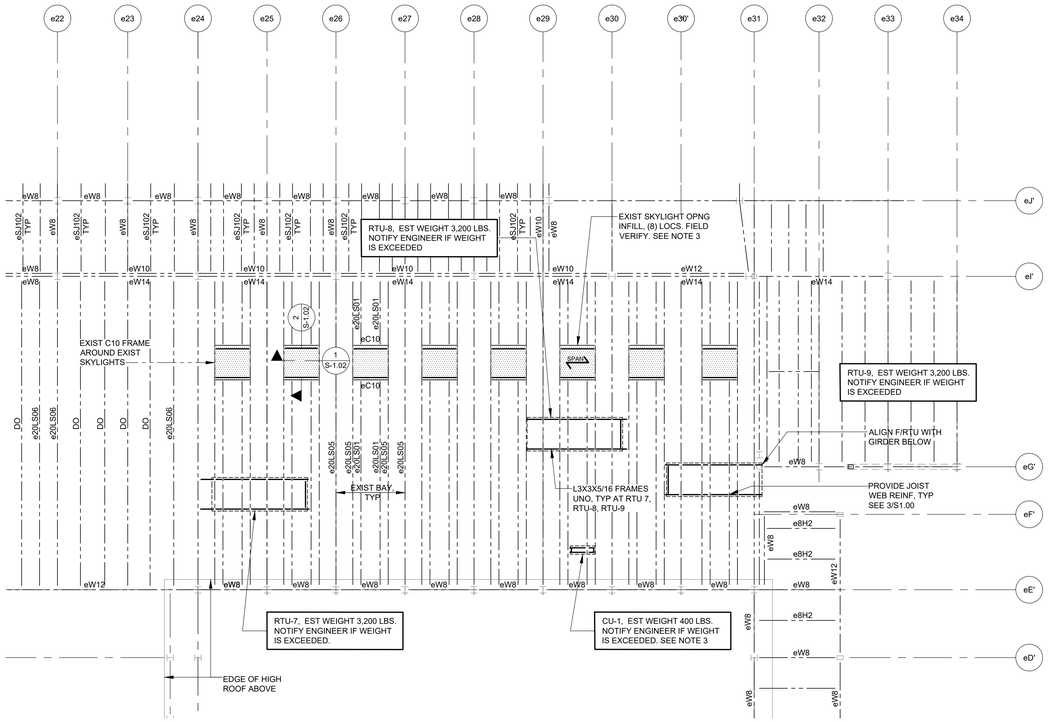
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PARTIAL ROOF FRAMING PLANS - AREA A, B, AND C
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

S1.01

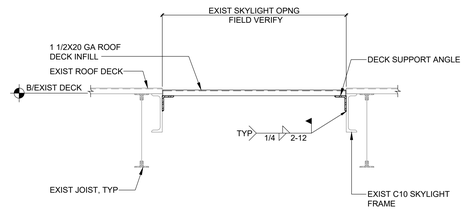


PARTIAL ROOF FRAMING PLAN AT AREA A

1/8" = 1'-0" (LIBRARY)

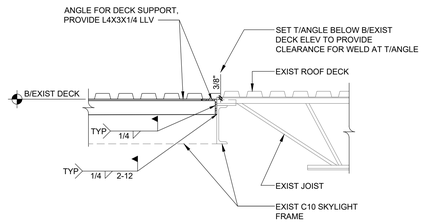
NOTES:

1. T/EXIST STEEL (B/DECK) ELEVATION (554'-3"±) UNLESS NOTED OTHERWISE. FIELD VERIFY EXISTING STEEL ELEVATION.
2. PROVIDE 1 1/2 INCH BY 20 GA GALVANIZED METAL ROOF DECK INFILL AT EXISTING SKYLIGHT OPENINGS. WELD DECK TO ANGLE SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AT 12 INCHES ON CENTER. SEE 1/S1.00 FOR ANGLE CONNECTION TO EXISTING JOISTS.
3. CU-# INDICATES CONDENSING UNITS. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR QUANTITY AND LOCATIONS. ALL LOCATIONS NOT SHOWN.
4. SEE S1.01 - PARTIAL ROOF FRAMING PLAN AT AREA B NOTES AND S0.01 FOR ADDITIONAL INFORMATION.



1 S1.02 SECTION AT SKYLIGHT INFILL

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



2 S1.02 SECTION AT SKYLIGHT INFILL

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

REV.	DATE	ITEM

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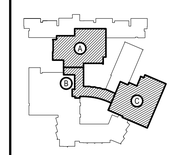

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PARTIAL ROOF FRAMING PLAN
AT AREA A (LIBRARY)

DRAWING BY: AED

CHECK BY: AED

NOTICE

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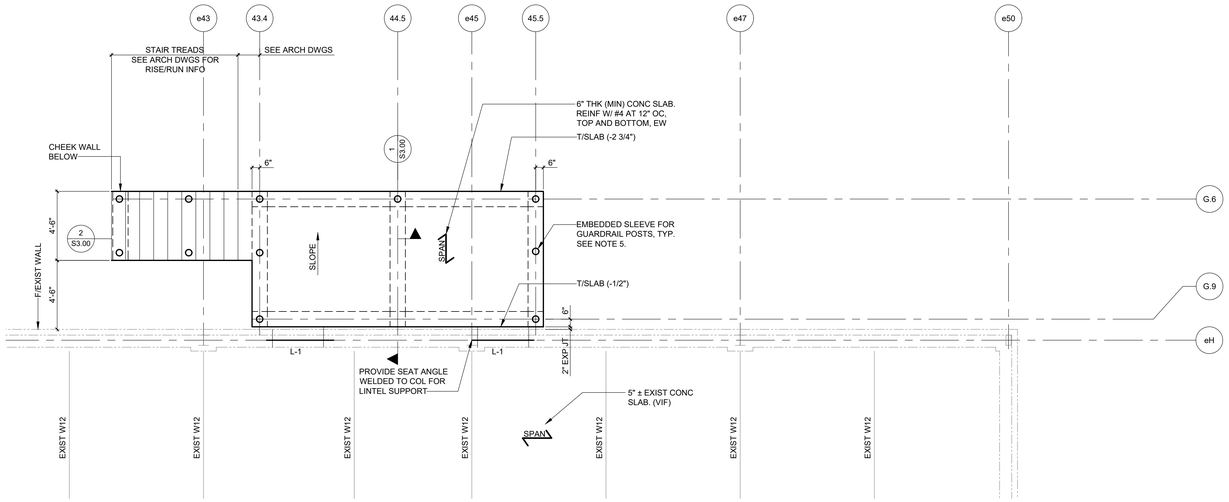
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PARTIAL ROOF FRAMING PLAN AT AREA A (LIBRARY)
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

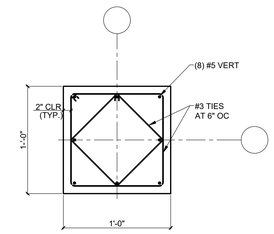
S1.02



STAIR AND LANDING FRAMING PLAN

1/4" = 1'-0"

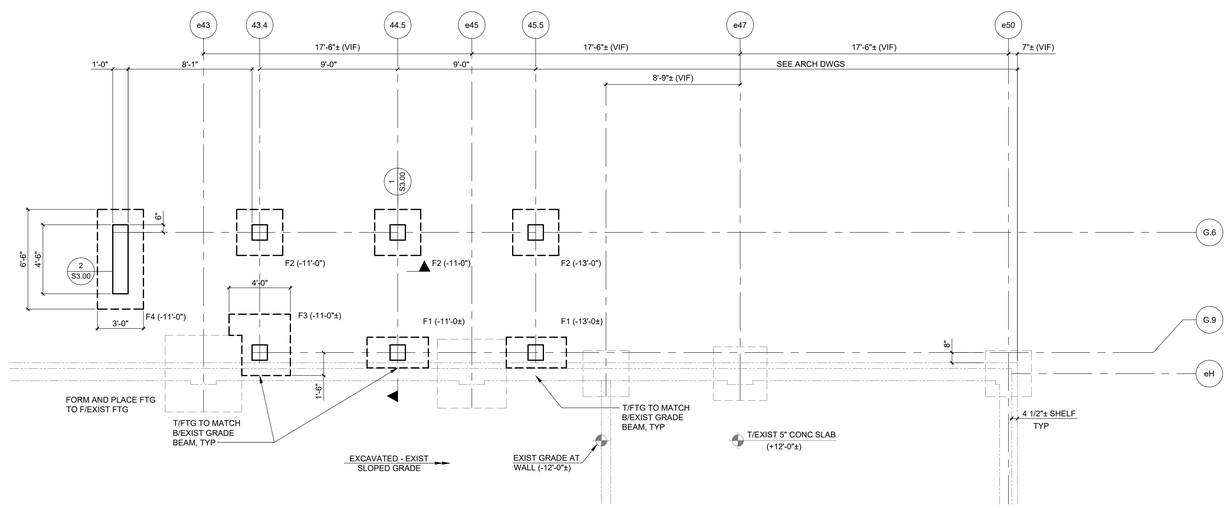
NOTES:
1. T/EXIST FIRST FLOOR SLAB ELEVATION (+539'-0"±) ABOVE REFERENCE ELEVATION (0'-0") UNLESS NOTED OTHERWISE. T/SLAB AT HIGH POINT TO MATCH T/EXISTING FLOOR ELEVATION.
2. ELEVATIONS NOTED (±X'-X") ARE WITH REPECT TO REFERENCE ELEVATION, UNLESS NOTED OTHERWISE.
3. COLUMNS ARE 12 INCH BY 12 INCH, REINFORCED CONCRETE COLUMNS UNLESS NOTED OTHERWISE. SEE DETAIL XX/XX FOR REINFORCING.
4. L-# INDICATES LINTEL. SEE S0.02 FOR LINTEL SCHEDULE AND NOTES. NOT ALL LINTELS IN WALLS ARE SHOWN.
5. COORDINATE RAILING POST, SLEEVES, STAIR LAYOUT, INCLUDING TREAD RISE AND RUN WITH ARCHITECTURAL DRAWINGS.
6. SEE S0.01 AND S0.02 FOR ADDITIONAL NOTES.



1 / S1.03 CONCRETE COLUMN DETAILS

SCALE: NTS

NOTES:
1. TIES AND CROSS TIES ARE #3 TYPICAL UNLESS NOTED OTHERWISE. STAGGER HOOK LOCATIONS ON ALTERNATE TIES. STAGGER 90° HOOK LOCATIONS ON CROSS TIES.
2. SEE 1/S3.0 AND 2/S3.0 FOR TIE/CROSS TIE SPACING AND SECTIONS AT PIERS.



STAIR AND LANDING FOUNDATION PLAN

1/4" = 1'-0"

NOTES:
1. T/EXIST FIRST FLOOR SLAB ELEVATION (+539'-0" ±) EQUALS REFERENCE ELEVATION (0'-0").
2. ELEVATIONS NOTED THUS (± X'-X") ARE WITH RESPECT TO (0'-0").
3. T/EXTERIOR FOOTING (-4'-0") MIN. TYPICAL UNLESS NOTED OTHERWISE. F_ - INDICATES FOOTING TYPE. SEE S1.03 FOR FOOTING SCHEDULE.
4. T/COLUMN (PIER) ELEVATION (-1'-0") TYPICAL UNLESS NOTED OTHERWISE. SEE 1/S1.03 FOR TYPICAL COLUMN REINFORCING DETAIL.
5. DRILL AND GROUT WALL AND FOOTING REINFORCING 6" INTO EXISTING FOUNDATIONS (TYPICAL, UNLESS NOTED OTHERWISE, FOR ALL LOCATIONS WHERE NEW FOUNDATIONS INTERFACE WITH EXISTING).
6. SEE S0.01 AND S0.02 FOR ADDITIONAL NOTES.

CANOPY COLUMN FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
F1	2'-0"X4'-0"X1'-3"	#4 AT 12" OC EA WAY	TOP AND BOTTOM
F2	3'-0"X3'-0"X1'-3"	(4) #5 EA WAY	TOP AND BOTTOM
F3	4'-0"X4'-0"X1'-3"	(5) #5 EA WAY	TOP AND BOTTOM
F4	3'-0"X6'-6"X1'-3"	#5 AT 12" OC EA WAY	TOP AND BOTTOM

REV.	DATE	ITEM

NOTICE

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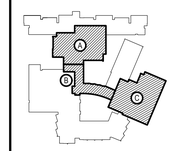

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

STAIR FOUNDATION AND FRAMING PLANS
SECTIONS AND DETAILS

DRAWING BY: AED

CHECK BY: AED

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE STAIR FOUNDATION AND FRAMING PLANS, SECTIONS AND DETAILS

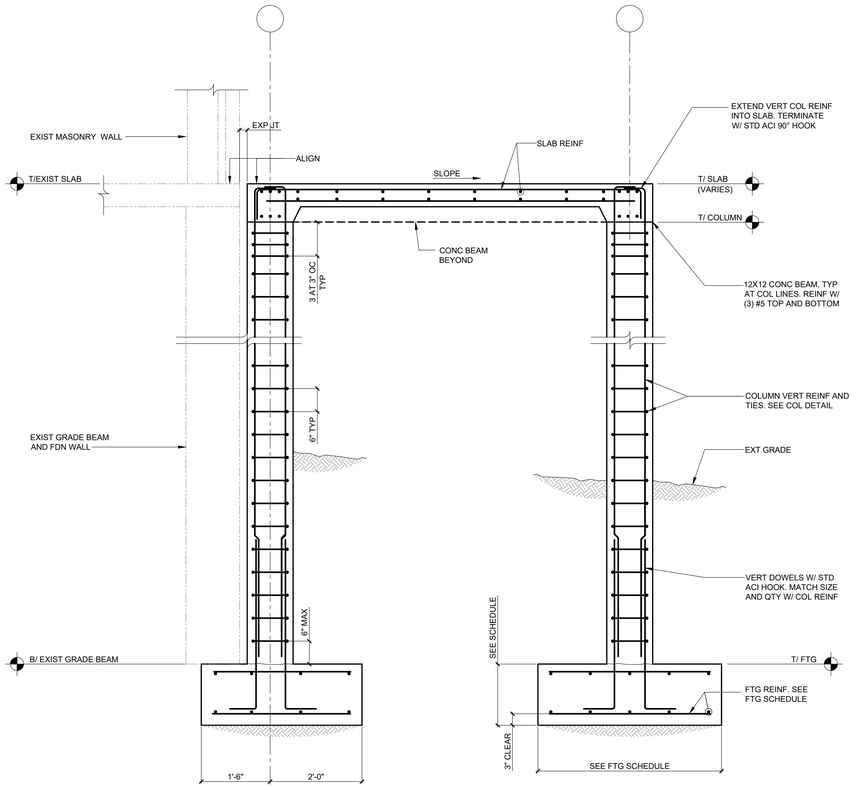
SCALE: AS NOTED

DATE: APRIL 2024

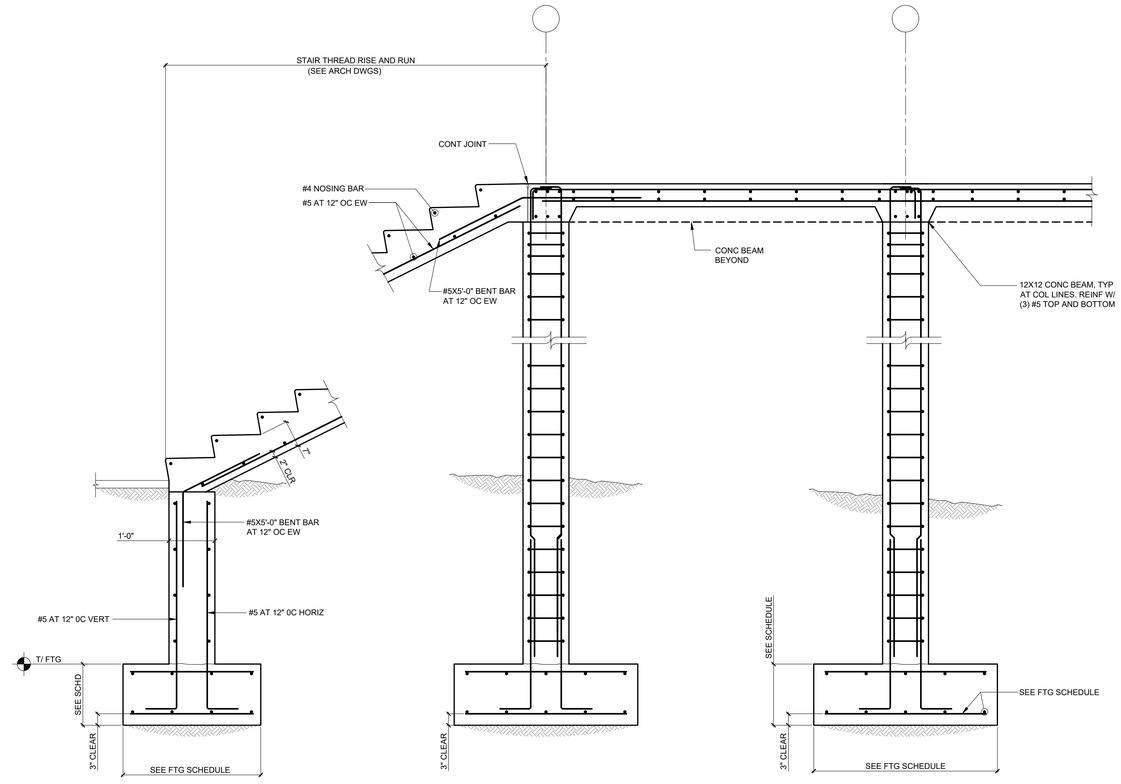
BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

S1.03



1 S3.00 SECTION AT LANDING COLUMNS
SCALE: 3/4" = 1'-0"



2 S3.00 SECTION AT LANDING STAIRS
SCALE: 3/4" = 1'-0"

REV.	DATE	ITEM

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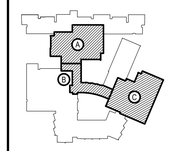

KEY PLAN
NOT TO SCALE

PROJECT
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DWG TITLE
FOUNDATION SECTIONS AND DETAILS

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SED No.	66-01-02-06-0-003-024
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PROJECT	PHASE 2 - BOND IMPROVEMENTS
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FILE No:	23-131a FLHS

S3.00

GENERAL NOTES

1. REMOVAL & RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF THE NEW WORK SHOWN HEREIN. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
2. PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF THE PROPOSED WORK & SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS & LIMITATIONS THEREOF. VERIFY ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED, COORDINATE WITH NEW & EXISTING WORK & PROVIDE CLEARANCE W/ BUILDING STRUCTURE, OTHER SERVICES, ETC.. THE CONTRACTOR SHALL INCLUDE ALL COSTS WHATSOEVER WHICH ARE INCURRED AS A RESULT OF LIMITATIONS OF THE EXISTING & NEW CONDITIONS. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT, MATERIALS, ETC. REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
3. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE & REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
4. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE BUILDING.
5. COORDINATE THE EXACT SIZE & LOCATION OF NEW OPENINGS WITH EXISTING STRUCTURE. PATCH / INSULATE AS REQUIRED. CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS FROM NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING OR NEW FIRE/ SMOKE BARRIERS. REFER TO SPECIFICATION SECTION 230680 FOR FURTHER DETAILS.
6. IT IS THE INTENT OF THIS CONTRACT FOR REMAINING SYSTEMS TO BE LEFT IN GOOD WORKING ORDER, READY FOR OPERATION. COORDINATE ANY REQUIRED SYSTEM SHUTDOWNS WITH OWNER 48 HOURS IN ADVANCE. EXISTING SYSTEM SHUTDOWNS WILL NOT BE PERMITTED IF THEY INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING. CONTRACTOR WILL BE REQUIRED TO TAKE PROPER PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS A PART OF THIS CONTRACT.
7. THE CONTRACTOR SHALL REPAIR / RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, OR DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTOR'S COST.
8. CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
9. DURING THE LIFE OF THE CONTRACT PERIOD, CONTRACTOR SHALL REMOVE ALL RUBBISH / EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS ON A DAILY BASIS. ALL AREAS / EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE KEPT CLEAN OF DUST / DEBRIS. ALL AREAS SHALL RECEIVE A FINAL CLEANING PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
10. PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
11. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO SCHEDULING THE WORK. WORK SHALL BE PERFORMED IN PROPER SEQUENCE, AS AGREED TO BY ALL TRADES. ANY COSTS INCURRED BY THE OWNER DUE TO IMPROPER SEQUENCING OF WORK WILL BE PAID FOR BY THIS CONTRACTOR.
12. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
13. PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
14. THE MECHANICAL CONTRACTOR SHALL REFER TO / REVIEW ALL OTHER TRADE DRAWINGS IN THE BID PACKAGE & SHALL BE RESPONSIBLE FOR / PERFORM ALL WORK INDICATED AS (M.C.) MECHANICAL WORK AS A PART OF THE BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE.
15. SUBSTITUTED EQUIPMENT OF GREATER OR LARGER POWER, DIMENSIONS, CAPACITIES & RATINGS MAY BE FURNISHED PROVIDED THAT SAID EQUIPMENT IS APPROVED IN WRITING PRIOR TO ORDER. ANY CONNECTING MECHANICAL SERVICES, ELECTRICAL SERVICES, BASES, STRUCTURAL APPURTENANCES, ETC. REQUIRED TO BE INCREASED DUE TO THE USE OF SAID EQUIPMENT WILL BE PAID FOR IN FULL BY THE MECHANICAL CONTRACTOR, INCLUDING ANY ADDITIONAL REQUIRED ENGINEERING FEES.
16. EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT TYPE LAMINATED, BLACK FINISH, WHITE CORE, PHENOLIC NAMEPLATE. NAMEPLATES SHOULD INDICATE THE NAME & NUMBER OF THE UNIT, UNIT VOLTAGE, & ANY INTERLOCK REFERENCE. STARTERS / DISCONNECT SWITCHES SHOULD ALSO BE EQUIPPED WITH AN IDENTICAL NAMEPLATE WITH THE SAME INFORMATION.
17. "ATTIC STOCK" - UPON COMPLETION OF THE PROJECT, MECHANICAL CONTRACTOR SHALL COMPLETELY REMOVE / DISPOSE OF FILTERS USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT, MERV-13 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PEICE OF EQUIPMENT & TURN OVER TO OWNER.
18. MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EACH SIZE MOTOR USED ON THE PROJECT. IN INSTANCES WHERE MORE THAN TEN OF THE SAME MOTOR ARE USED, MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EVERY TEN MOTORS OF A GIVEN SIZE USED ON THE PROJECT.
19. MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PEICE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PEICE OF EQUIPMENT, COMPLETE WITH INFORMATION SHOWING APPROPRIATE REPLACEMENT FILTER SIZES / TYPES, APPROPRIATE REPLACEMENT BELT SPECIFICATIONS, REPLACEMENT MOTOR SPECIFICATIONS, REPLACEMENT BEARING SPECIFICATIONS, VOLTAGES OF UNIT, ETC. THIS SHALL SERVE AS A WRITTEN DATABASE DESCRIBING ALL MAINTENANCE INFORMATION FOR EACH NEW PEICE OF EQUIPMENT USED.
20. WHERE THE INSTALLATION OF MECHANICAL SYSTEMS REQUIRES REMOVAL / MODIFICATIONS TO EXISTING CEILINGS, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MODIFICATION / REMOVAL / REINSTALLATION OF CEILING MATERIALS AS A PART OF THEIR CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE. WORK TO INCLUDE RE-FRAMING GRIDS / CUTTING PLASTER OR SHEET ROCK CEILINGS WHEN REQUIRED FOR EQUIPMENT INSTALLATION. UPON COMPLETION OF ALL WORK, BUILDING CEILINGS SHALL BE RETURNED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO THE START OF WORK.

ELECTRICAL WORK & TEMPERATURE CONTROL WIRING UNDER MECHANICAL CONTRACT

1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS & DISCONNECT SWITCHES REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT. STARTER / DISCONNECT SWITCH INSTALLATION TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT. COORDINATE WORK W/ ELECTRICAL CONTRACTOR PRIOR TO START OF WORK. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR POWER WIRING FROM DISCONNECT SWITCH TO MOTOR STARTERS & TO ALL EQUIPMENT LINE VOLTAGE LOADS.
2. POWER WIRING REQUIRED FOR CONTROLS SHALL BE PERFORMED UNDER THE MECHANICAL CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN (PER NEC REQUIREMENTS) TO PERFORM ANY & ALL ELECTRICAL WORK.

FIRESTOPPING NOTES

1. ALL PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL WALLS IN THE CONSTRUCTION CARRY A MINIMUM FIRE RATING OF 1 HR. IT SHOULD BE ASSUMED THAT ALL MACHINE ROOM WALLS / BOILER ROOM WALLS / ELECTRIC ROOM WALLS CARRY A RATING OF 2 HR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE REVIEW OF THE ARCHITECTURAL DRAWINGS IN ORDER TO DETERMINE FIRE RATINGS OF ALL WALLS / PARTITIONS RELATED TO WORK UNDER THIS CONTRACT.
2. MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS. DUCTS PENETRATING SAID RATED BARRIERS SHALL BE EQUIPPED WITH A UL LISTED FUSIBLE LINK TYPE FIRE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER, POSITIONED FOR EASY REPLACEMENT OF THE LINK.
3. MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS OCCUR BETWEEN SEPARATE SMOKE ZONES. DUCTS PENETRATING SAID FIRE / SMOKE BARRIERS SHALL BE EQUIPPED WITH A UL LISTED COMBINATION FIRE / SMOKE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE / SMOKE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER. DAMPER ACTUATOR & RELATED WIRING SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE DAMPER INSTALLATIONS W/ E.C. TO VERIFY PROPER CLEARANCES TO ASSURE PROPER DAMPER OPERATION.
4. MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC.
5. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 230680 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED. FIRESTOP MATERIALS OTHER THAN THE PRODUCTS SPECIFIED SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRESTOPPING MATERIALS.

GENERAL INSTRUMENTATION NOTES

1. AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:

- AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED).
- AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER.
- AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- THERMOMETERS SHALL HAVE 9" SCALE W/ THE ABILITY TO ANGLE THE UNIT FOR BETTER VIEWING.

THERMOMETERS TO BE "WINTERS" #TIM SERIES OR EQUAL, DUAL SCALE / LEAD FREE BRASS THERMOWELL.

2. AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:

- AT SUCTION & DISCHARGE OF EACH PUMP.
- FOR EACH MAKEUP WATER LINE.
- BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
- AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS.
- AT ALL EXPANSION / COMPRESSION TANKS.

PRESSURE GAUGES SHALL BE FULL STAINLESS STEEL / LIQUID FILLED & SHALL BE 4" DIA. MINIMUM, W/ PRESSURE SNUBBER ("WINTERS" #PFQ SERIES OR EQUAL). PROVIDE GAUGES W/ PRESSURE RANGES APPROPRIATE FOR ACCURATE MEASUREMENT / READING OF THE GAUGE.

EQUIPMENT VENTING NOTES

1. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" #HY-VENT OR EQUIVALENT.
2. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
3. MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COIN VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIN VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

DUCTWORK NOTES

1. PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 233113, AND IN CONFORMANCE WITH 'SMACNA' SPECIFICATIONS.
2. IF A DUCT ELBOW IS SHOWN TO BE RADIUSED, THEN RADIUSED ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUSED ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
3. PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNIT(S). IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 233113 & 230713 FOR FURTHER INFORMATION.
4. WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 233113 FOR FURTHER INFORMATION.
5. MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
6. MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 233113 FOR FURTHER INFORMATION.
7. ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.

TESTING and BALANCING NOTES

1. MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 230593 & 230580 FOR FURTHER DETAILS.
2. UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
3. IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED & TESTED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

BOILER ROOM and PIPING NOTES

1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING & EQUIPMENT, & INDICATE THE REQUIRED SIZE / POINTS OF TERMINATION OF THE PIPING & SUGGEST PROPER ROUTING OF SAME. IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, RISES, DROPS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM & KEEP OPENINGS / PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
2. ALL FLOOR MOUNTED BOILER ROOM EQUIPMENT SHALL BE INSTALLED ON A LEVEL, REINFORCED CONCRETE HOUSEKEEPING PAD, 4" THICK MIN. UNLESS OTHERWISE NOTED. ALL HOUSEKEEPING PADS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. PADS SHALL BE REINFORCED W/ WELDED WIRE MESH & SHALL BE POURED USING 3,000 PSI CONCRETE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL REQUIRED STRUCTURAL SUPPORTS FOR ALL PIPING SYSTEMS & EQUIPMENT AS REQUIRED. PIPING SYSTEMS SHALL BE EQUIPPED WITH EXPANSION COMPENSATORS AT THE INTERVALS REQUIRED. PROVIDE PIPING GUIDES / ANCHORS AS REQUIRED.
4. MECHANICAL CONTRACTOR SHALL PROPERLY INSULATE ALL NEW PIPING SYSTEMS & EQUIPMENT. REFER TO SPECIFICATION SECTION 230700 FOR FURTHER DETAILS REGARDING INSULATION REQUIREMENTS. UPON COMPLETION OF INSULATION WORK, MECHANICAL CONTRACTOR SHALL PROPERLY LABEL EACH PIPING RUN SHOWING THE TYPE OF FLUID CARRIED & DIRECTION OF FLOW. PIPE IDENTIFICATION MARKERS SHALL BE INSTALLED EVERY 20 FEET IN THE PIPING RUNS.
5. ALL VALVES WITHIN PIPING SYSTEMS SHALL BE TAGGED USING A 1-1/2" DIA. BRASS TAG. PROVIDE A LEGEND LISTING VALVE #, TYPE OF VALVE, SERVICE TYPE, & LOCATION OF VALVE. KEY VALVE #'S TO AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.
6. MECHANICAL CONTRACTOR SHALL SUBMIT (3) SETS OF OPERATING MANUALS FOR EACH PIECE / TYPE OF MECHANICAL EQUIPMENT.
7. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL WIRING & DEVICES AS REQUIRED TO CONTROL THE BOILER ROOM EQUIPMENT AS DESCRIBED IN THE SEQUENCE OF OPERATIONS LISTED IN THE PROJECT MANUAL. REFER TO SPECIFICATION SECTION 230900 FOR FURTHER DETAILS.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
B.D.	BACKDRAFT DAMPER
CWS	COLD WATER SUPPLY
CFM	CUBIC FEET OF AIR PER MINUTE
D.	DEEP / DEPTH
DIA./~	DIAMETER
F&T	FLOAT & THERMOSTATIC
FPM	FEET PER MINUTE
FSD	FIRE / SMOKE DAMPER - DUCT MOUNTED
FLEX	FLEXIBLE
FO	FLAT OVAL DUCTWORK
GAL.	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H.	HIGH
H.C.	HANDICAPPED
HWS	HEATING SYSTEM HOT WATER SUPPLY
HWR	HEATING SYSTEM HOT WATER RETURN
HP	HORSEPOWER
I.D.	INSIDE DIAMETER
KW.	KILOWATT
L.	LONG
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MIN.	MINIMUM
MBH	BTU x 1,000
MFR.	MANUFACTURER
M.H.	MANHOLE
MISC.	MISCELLANEOUS
MTD.	MOUNTED
G	NATURAL GAS
N.I.C.	NOT IN CONTRACT
No. / #.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.S. & Y	OUTSIDE SCREW & YOKE
O.C.	ON CENTER
PE	PNEUMATIC / ELECTRIC
PREFAB	PREFABRICATED
PRV	PRESSURE REDUCING VALVE
PSI.	POUNDS PER SQUARE INCH
R.A.	RETURN AIR
REQ'D.	REQUIRED
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SCH.	SCHEDULE
S.P.	STATIC PRESSURE
STD.	STANDARD
T	TEMPERATURE
TXV	THERMAL EXPANSION VALVE
TYP.	TYPICAL
VOL.	VOLUME
V.D.	VOLUME DAMPER
VOL.	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W.	WIDE
WB.	WET BULB TEMPERATURE
WTD	WATER TEMPERATURE DROP
WTR	WATER TEMPERATURE RISE
WPD	WATER PRESSURE DROP
ST or STM	STEAM
EXIST.	EXISTING

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
24x12 / 20"~	RECTANGULAR GALVANIZED DUCTWORK - DIMENSIONS 'W' x 'H'
	NEW SUPPLY DUCTWORK TO RISE UP
	NEW SUPPLY DUCTWORK TO DROP DOWN
	NEW RETURN DUCTWORK TO RISE UP
	NEW RETURN DUCTWORK TO DROP DOWN
	TRANSITION IN DUCTWORK
FD	FIRE DAMPER INSTALLED IN DUCTWORK
	VOLUME DAMPER IN DUCT (w/ LOCKING QUADRANT HANDLE)
	ROUND DUCTWORK TO RISE UP
	ROUND DUCTWORK TO DROP DOWN
42x18 FO	FLAT OVAL DUCT WORK
	RECTANGULAR TO ROUND DUCT TRANSITION
	ELBOW IN DUCTWORK w/ TURNING VANES
	ELBOW IN DUCTWORK (RADIUS + 1.5 x D)
	45 DEG. TAKEOFF FITTING
	90 DEG. TAKEOFF w/ BELLMOUTH FITTING
	FLEXIBLE DUCTWORK TO DIFFUSER (4 FT. MAX. RUN)
	4-WAY PATTERN CEILING DIFFUSER
	3-WAY PATTERN CEILING DIFFUSER
	2-WAY PATTERN CEILING DIFFUSER (90 DEG. / OPPOSING PATTERN)
	CEILING RETURN AIR REGISTER
	LINEAR SLOT DIFFUSER
	ROOF MOUNTED EXHAUST FAN

ROOFTOP UNIT ANCHORING

BASED ON 140 MPH WIND (50 PSF) AND 200 LB SHEAR AND PULL-OUT FOR FASTENERS.

W = WEIGHT OF UNIT IN LBS.
F_U = MINIMUM QUANTITY OF FASTENERS FOR UNIT TO CURB AND CURB TO DECK
F_R = MINIMUM QUANTITY OF FASTENERS FOR RAIL TO DECK. (UNIT TO RAIL SHOULD BE WITH THE MANUFACTURER PROVIDED TABS).
F_S = MINIMUM QUANTITY OF ¼" DIA. SHEET SCREWS PER STRAP ANCHOR POINT. STRAPS HALL BE 12GA. x 1½" ALUMINUM.

FASTENERS SHALL BE:

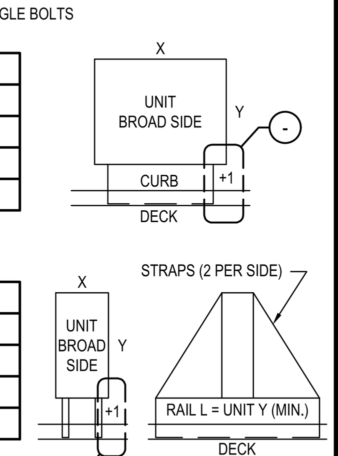
- UNIT TO CURB/RAIL - ¼" DIA. SHEET METAL SCREWS
- CURB/RAIL TO METAL DECK - ¼" DIA. SHEET METAL SCREWS
- CURB/RAIL TO CONCRETE - ¼" DIA. TAPCONS
- CURB/RAIL TO TECTUM DECK - ¼" DIA. TOGGLE BOLTS

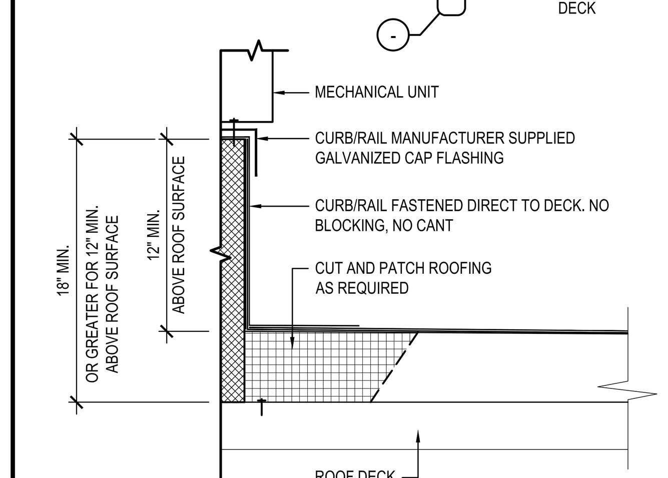
TYPE A - HORIZONTAL

	X	Y + 1	W	F_U
UP TO	5'	4'	500	4
UP TO	8'	5'	900	6
UP TO	12'	6'	1,500	12

TYPE A - VERTICAL

	X	Y + 1	F_R	F_S
UP TO	2'	4'	4	1
UP TO	3'	6'	4	1
UP TO	4'	7'	6	2





TYPICAL CURB / RAIL INSTALLATION DETAIL

SCALE: N.T.S.

PIPING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	PIPING TO RISE UP
	PIPING TO DROP DOWN
	PIPING ANCHOR
	PIPING GUIDE
	DOMESTIC COLD WATER SUPPLY PIPING
HWS	HEATING SYSTEM SUPPLY PIPING
HWR	HEATING SYSTEM RETURN PIPING
CHWS	CHILLED WATER SUPPLY PIPING
CHWR	CHILLED WATER RETURN PIPING
CDWS	CONDENSER WATER SUPPLY PIPING
CDWR	CONDENSER WATER RETURN PIPING
CD	CONDENSATE DRAINAGE PIPING
FOS	FUEL OIL SUPPLY PIPING
FOR	FUEL OIL RETURN PIPING
G	LOW PRESSURE NATURAL GAS PIPING
EG	ELEVATED PRESSURE NATURAL GAS PIPING
L	GAS COCK ("L" INDICATES LOCK SHIELD)
	DIRT LEG IN PIPING
LPG	LIQUEFIED PETROLEUM GAS PIPING
V	VENT PIPING
	LINEAR EXPANSION COMPENSATOR
	EXPANSION LOOP IN PIPING
	UNION IN PIPING
	PIPING STRAINER (w/ BLOWDOWN VALVE)
	REDUCER / INCREASER FITTINGS IN PIPING
	ECCENTRIC REDUCER IN PIPING
	THERMOMETER
	PRESSURE GAUGE
	FULL PORT BALL VALVE
	GATE VALVE
	SWING CHECK VALVE
	3-WAY VALVE (MIXING)
	CIRCUIT SETTER
3	TRIPLE DUTY VALVE
	WAFER VALVE
	PLUG / CAP IN PIPING
	PNEUMATIC CONTROL VALVE OPERATOR
	ELECTRIC CONTROL VALVE OPERATOR
	AUTOMATIC AIR VENT
	EXISTING PIPING
T	DDC TEMPERATURE SENSOR & WELL IN PIPING
P	DDC PRESSURE SENSOR IN PIPING
STM	LOW PRESSURE STEAM PIPING
	CONDENSATE RETURN PIPING
	THERMOSTATIC STEAM TRAP IN PIPING
T D / P	THERMOSTAT (D = DDC / P = PNEUMATIC)
S	DDC TEMPERATURE SENSOR
T D / P	EXISTING THERMOSTAT (D = DDC / P = =PNEUMATIC)

REV.	DATE	ITEM

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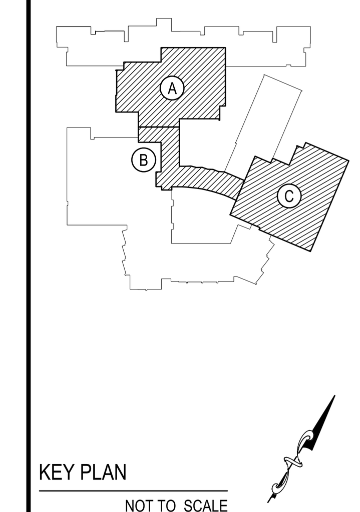

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
GENERAL NOTES, SYMBOLS and LEGENDS

DRAWING BY: GWT
CHECK BY: - - -

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	GENERAL NOTES, SYMBOLS and LEGENDS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

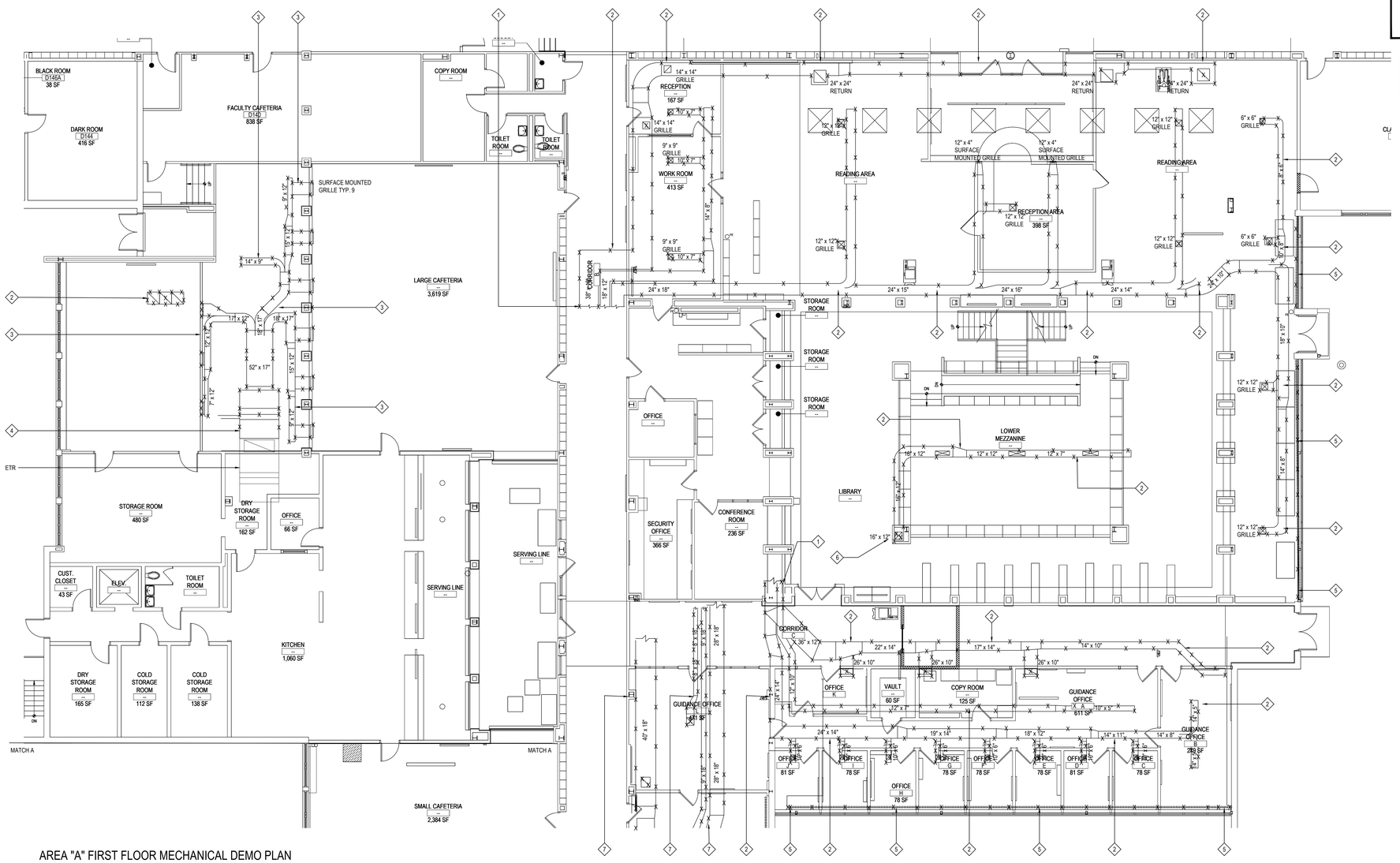
M0.01

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. DUCTWORK UP SOFFIT & CONTINUED ON ROOF, ALL TO BE REMOVED MY MC. SEE DRAWING M1.05 FOR CONTINUATION
2. MC TO REMOVE AND DISPOSE OF ALL EXISTING DUCTWORK, DIFFUSERS AND GRILLES AS SHOWN LOCATED IN THE CEILING , INCLUDING ALL TAKEOFFS, DAMPERS AND ACCESSORIES. MC RESPONSIBLE FOR ANY PATCHING WHERE MAY BE NECESSARY.
3. MC TO REMOVE AND DISPOSE OF ALL EXISTING DUCTWORK, DIFFUSERS AND GRILLES AS SHOWN LOCATED IN SOFFIT , INCLUDING ALL TAKEOFFS, DAMPERS AND ACCESSORIES. MC RESPONSIBLE FOR ANY PATCHING WHERE MAY BE NECESSARY.
4. MC TO REMOVE AND DISPOSE OF EXISTING HUNG AIR-HANDLER, AND ASSOCIATED SUPPORTS & ACCESSORIES LOCATED IN SOFFIT IN SMALL CAFETERIA. COORDINATE WITH EC TO DISCONNECT POWER. EXISTING AIR INTAKE LOCATED ON ROOF TO REMAIN. MC TO ISOLATE INTAKE TO SERVE ONLY EXISTING TO REMAIN AIR HANDLER LOCATED IN KITCHEN. GC RESPONSIBLE FOR ALL PATCHING WHERE NECESSARY.
5. MC TO REMOVE EXISTING FLOOR MOUNTED FIN TUBE, VALVES, ACCESSORIES AND COVERS AS SHOWN BACK TO MAIN HOT WATER PIPING RUN IN CRAWLSPACE BELOW. GC TO PATCH AS NECESSARY. REFER TO M1.02 FOR ADDITIONAL INFORMATION
6. DUCTWORK CONTINUED UP IN SOFFIT TO CEILING ABOVE, ALL TO BE REMOVED BY MC. SEE DRAWING M1.05 FOR CONTINUATION
7. DUCTWORK SHOWN LOCATED ON ROOF, SUPPLY AND RETURN GRILLES LOCATED IN ROOMS TO BE REMOVED BY MC, GC TO PATCH ALL ROOFING PENETRATIONS AS NECESSARY TO MAINTAIN ROOFING WARRANTY. SEE DRAWING M1.05 FOR ADDITIONAL INFORMATION

ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY



AREA "A" FIRST FLOOR MECHANICAL DEMO PLAN

NOTE:

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR DUCTWORK and EQUIPMENT DEMOLITION PLAN - AREA 'A'

DRAWING BY: GWT

CHECK BY: - - -

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SED No: 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: FIRST FLOOR DUCTWORK and EQUIPMENT DEMOLITION PLAN - AREA 'A'

SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

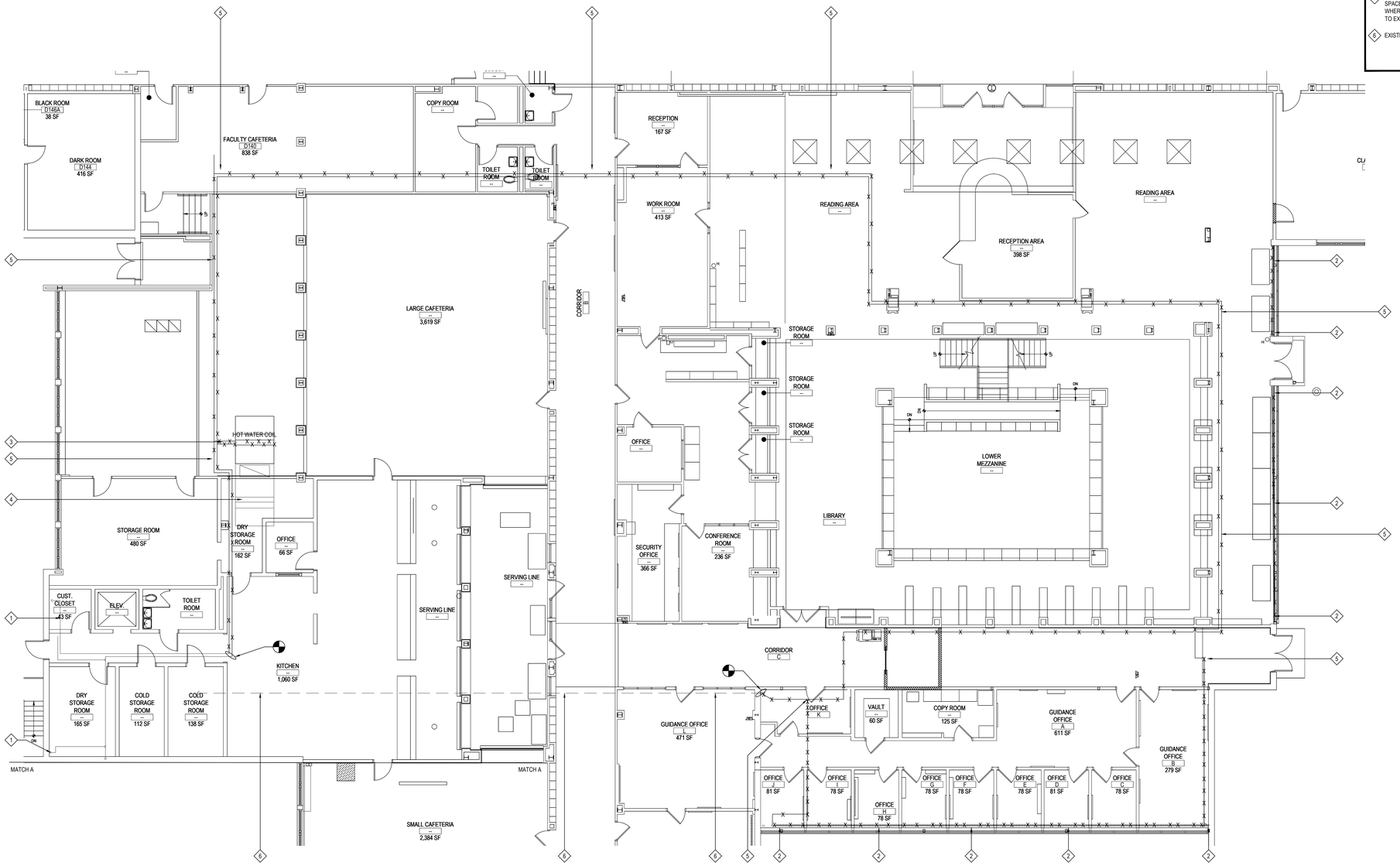
FILE No: 23-131a FLHS

M1.01

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. EXISTING HOT WATER PIPING TO REMAIN, LOCATED IN CEILING
2. MC TO DEMOLISH AND REMOVE EXISTING FLOOR MOUNTED FIN TUBE, VALVES, ACCESSORIES AND COVERS AS SHOWN BACK TO MAIN HOT WATER PIPING RUN IN CRAWLSPACE BELOW. MC RESPONSIBLE FOR ALL PATCHING WHERE NECESSARY.
3. MC TO DISCONNECT AND REMOVE EXISTING PIPING, VALVES, ACCESSORIES ASSOCIATED WITH LARGE CAFETERIA HVAC UNIT. MC RESPONSIBLE FOR ALL PATCHING WHERE NECESSARY.
4. EXISTING KITCHEN HVAC UNIT IN CEILING AND AIR INTAKE LOCATED ON ROOF TO REMAIN.
5. MC TO REMOVE EXISTING HOT WATER SUPPLY AND RETURN PIPING LOCATED IN CEILING OF SPACES AS WELL AS ANY AND ALL VALVES, ACCESSORIES. MC RESPONSIBLE FOR ALL PATCHING WHERE NECESSARY. MC TO LEAVE ANY DISCOVERED PIPING TAKE OFFS FROM HWS/HWR MAIN TO EXISTING EQUIPMENT IN TACT TO BE RECONNECTED IN THE NEW PHASE.
6. EXISTING HOT WATER PIPING TO REMAIN, LOCATED IN CRAWLSPACE BELOW



AREA "A" FIRST FLOOR MECHANICAL DEMO PLAN

NOTE:

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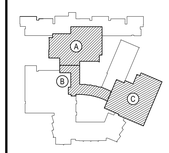

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

BASEMENT HYDRONIC PIPING
DEMOLITION PLAN - AREA 'A'

DRAWING BY: GWT

CHECK BY: - - -

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	BASEMENT HYDRONIC PIPING DEMOLITION PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

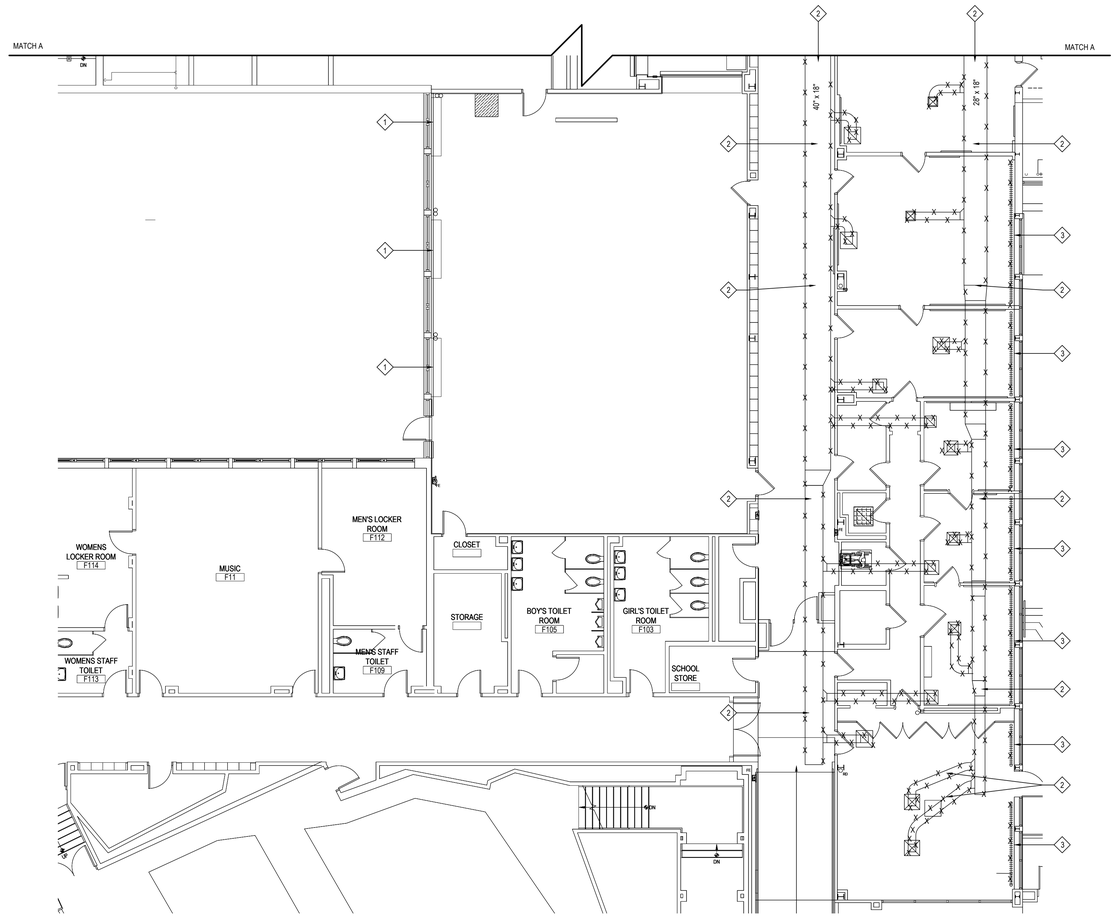
M1.02

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. MC TO DISCONNECT AND TEMPORARILY STORE EXISTING UNIT VENTILATORS, AS TO ALLOW FOR NECESSARY MODIFICATIONS TO THE SPACE TO BE MADE BY GC. EC TO DE-ENERGIZE. MC TO REINSTALL IN NEW WORK PLAN AS NOTED, COORDINATE FINAL INSTALL LOCATION WITH GC. EXISTING WALL OPENINGS TO REMAIN FOR FUTURE INSTALLATION
2. DUCTWORK LOCATED ON ROOF, CONTINUED FROM DRAWING M1.01. SUPPLY AND RETURN GRILLES LOCATED IN ROOMS TO BE REMOVED BY MC, MC TO PATCH ALL PENETRATIONS AS NECESSARY. GC TO PERFORM ALL ROOF WORK AS TO MAINTAIN ROOFING WARRANTY. SEE DRAWING M1.05 FOR DUCTWORK ON ROOF.
3. MC TO REMOVE EXISTING FLOOR MOUNTED FIN TUBE, VALVES, ACCESSORIES AND COVERS AS SHOWN BACK TO MAIN HOT WATER PIPING RUN IN CRAWLSPACE BELOW. MC RESPONSIBLE FOR ALL PATCHING WHERE NECESSARY. SEE M1.04 FOR ADDITIONAL INFORMATION

ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY



AREA "B" FIRST FLOOR MECHANICAL DEMO PLAN

NOTE:

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

REV.	DATE	ITEM

NOTICE

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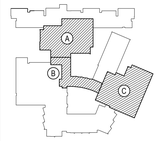

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR DUCTWORK and
EQUIPMENT DEMOLITION PLAN - AREA 'B'

DRAWING BY: GWT

CHECK BY: - - -

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE FIRST FLOOR DUCTWORK and EQUIPMENT DEMOLITION PLAN - AREA "B"

SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

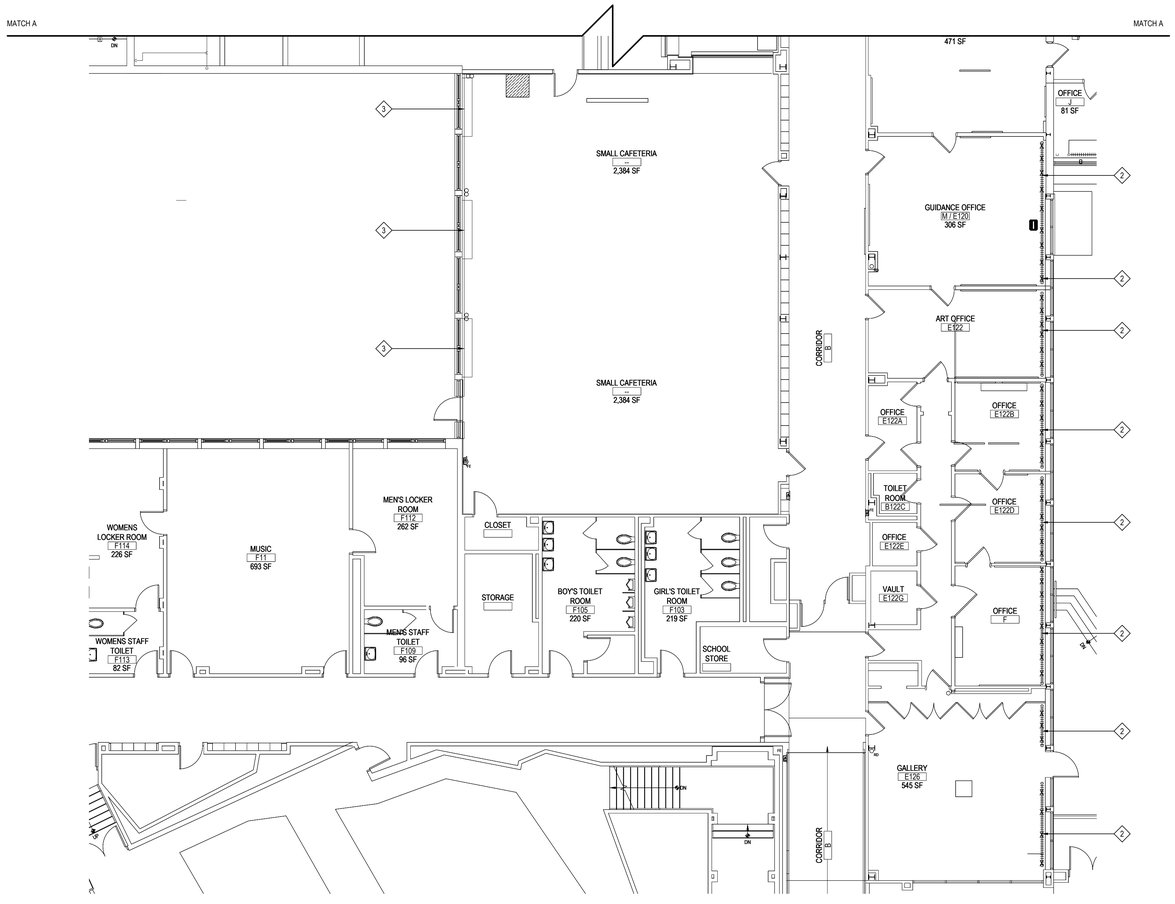
M1.03

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. NA
2. MC TO DEMOLISH AND REMOVE EXISTING FLOOR MOUNTED FIN TUBE, VALVES, ACCESSORIES AND COVERS AS SHOWN BACK TO MAIN HOT WATER PIPING RUN IN CRAWLSPACE BELOW. MC RESPONSIBLE FOR ALL PATCHING WHERE NECESSARY.
3. MC TO DISCONNECT AND TEMPORARILY STORE EXISTING UNIT VENTILATORS, AS TO ALLOW FOR NECESSARY MODIFICATIONS TO THE SPACE TO BE MADE BY GC. EC TO DE-ENERGIZE. MC TO REINSTALL IN NEW WORK PLAN AS NOTED, COORDINATE FINAL INSTALL LOCATION WITH GC. EXISTING WALL OPENINGS TO REMAIN FOR FUTURE INSTALLATION

ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY



AREA "B" FIRST FLOOR MECHANICAL DEMO PLAN

NOTE:

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

REV.	DATE	ITEM

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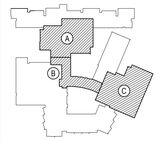

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR HYDRONIC
PIPING DEMOLITION PLAN - AREA 'B'

DRAWING BY: GWT

CHECK BY: - - -

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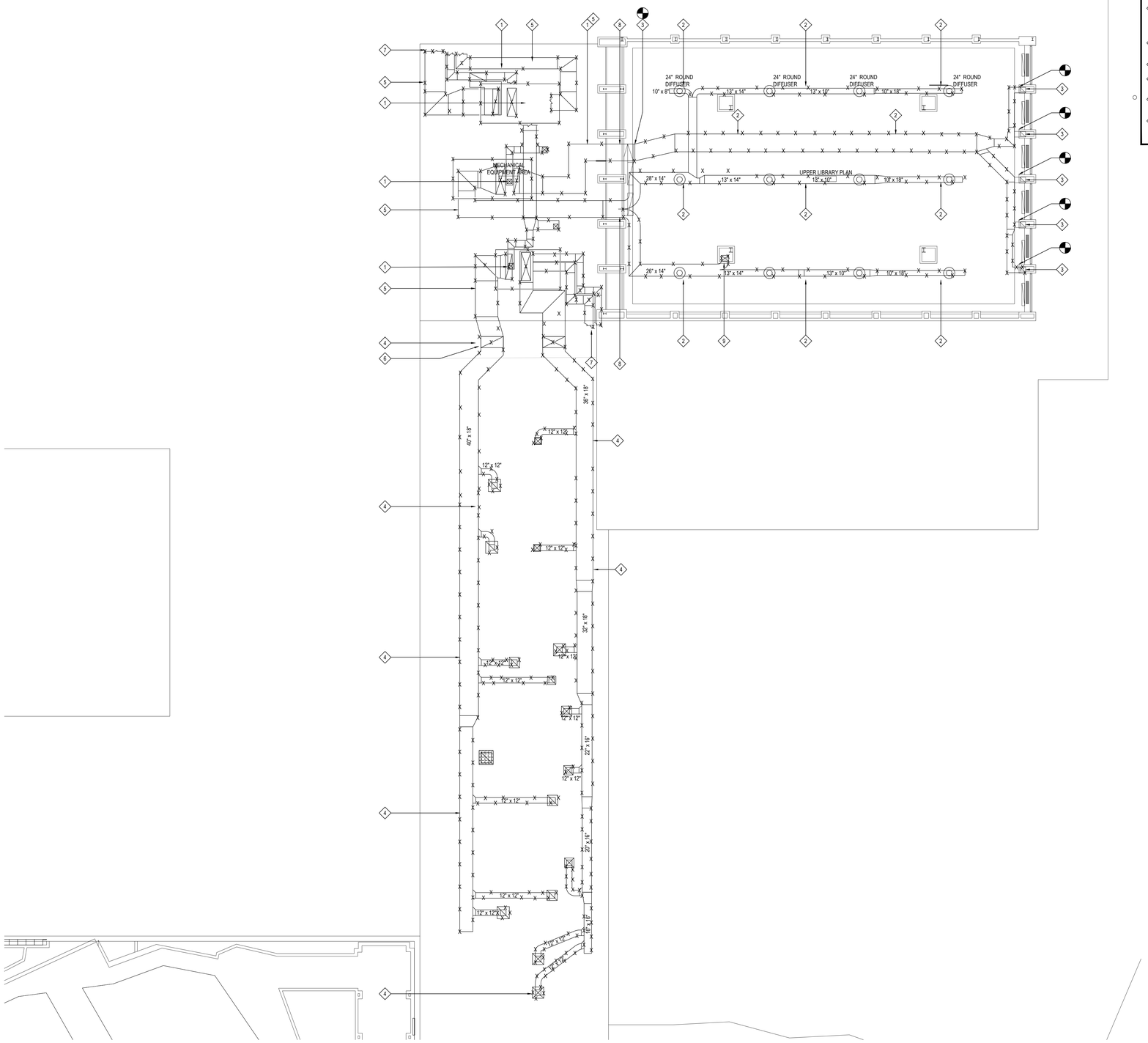
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR HYDRONIC PIPING DEMOLITION PLAN - AREA 'B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M1.04



AREA "A/ B" ROOF MECHANICAL DEMO PLAN

NOTE:

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

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. M.C. TO REMOVE AND DISPOSE OF EXISTING RTU AND ASSOCIATED DUCTWORK AS SHOWN. COORDINATE WITH EC TO DISCONNECT POWER. GC TO CAP CURB AND FLASH ROOF AS TO UPHOLD ALL EXISTING ROOFING WARRANTY WITH ALL NEW WORK.
2. MC TO REMOVE AND DISPOSE OF ALL EXISTING DUCTWORK, DIFFUSERS AND GRILLES AS SHOWN LOCATED IN CEILING OF LIBRARY, INCLUDING ALL TAKEOFFS, DAMPERS AND ACCESSORIES. MC RESPONSIBLE FOR ANY INTERIOR PATCHING WHERE MAY BE NECESSARY. ALL ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY. COORDINATE AS NECESSARY.
3. EXISTING SOFFIT TO REMAIN. DISCONNECT AND REMOVE ALL DUCTWORK FEEDING INTO SPACE AS NOTED, MC TO LEAVE EXISTING STUBS FOR FUTURE CONNECTION IN NEW WORK PLAN
4. MC TO REMOVE AND DISPOSE OF ALL EXISTING DUCTWORK LOCATED ON ROOF AS SHOWN, INCLUDING ALL SUPPORTS, TAKEOFFS, DAMPERS AND ACCESSORIES. GC RESPONSIBLE FOR PATCHING OF ROOF WHERE NECESSARY. AS TO MAINTAIN ANY AND ALL ROOFING WARRANTYS
5. DUCTWORK LOCATED IN AREA OF RAISED ROOF, ACESSIBLE THRU MULTIPLE ROOF HATCHES. REFER TO SECTION ON ARCHITECTURAL SET
6. DUCTWORK EXITS RAISED ROOF SPACE, & CONTINUES TO BE RAN ON ROOF.
7. DUCTWORK DROPS INTO SOFFIT & CONTINUES IN CEILING OF FIRST FLOOR, DRAWING M1.01
8. DUCTWORK CONTINUES INTO UPPER CEILING OF LIBRARY, ADDITIONAL DUCTWORK SHOWN ON M1.01
9. DUCTWORK DROPS INTO CHASE TO FEED UNDERSIDE OF MEZZANINE, CONTINUED ON M1.01

ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

ROOF DEMOLITION
PLAN - AREAS 'A and B'

DRAWING BY: GWT

CHECK BY: - - -

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DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE ROOF DEMOLITION PLAN - AREAS 'A AND B'

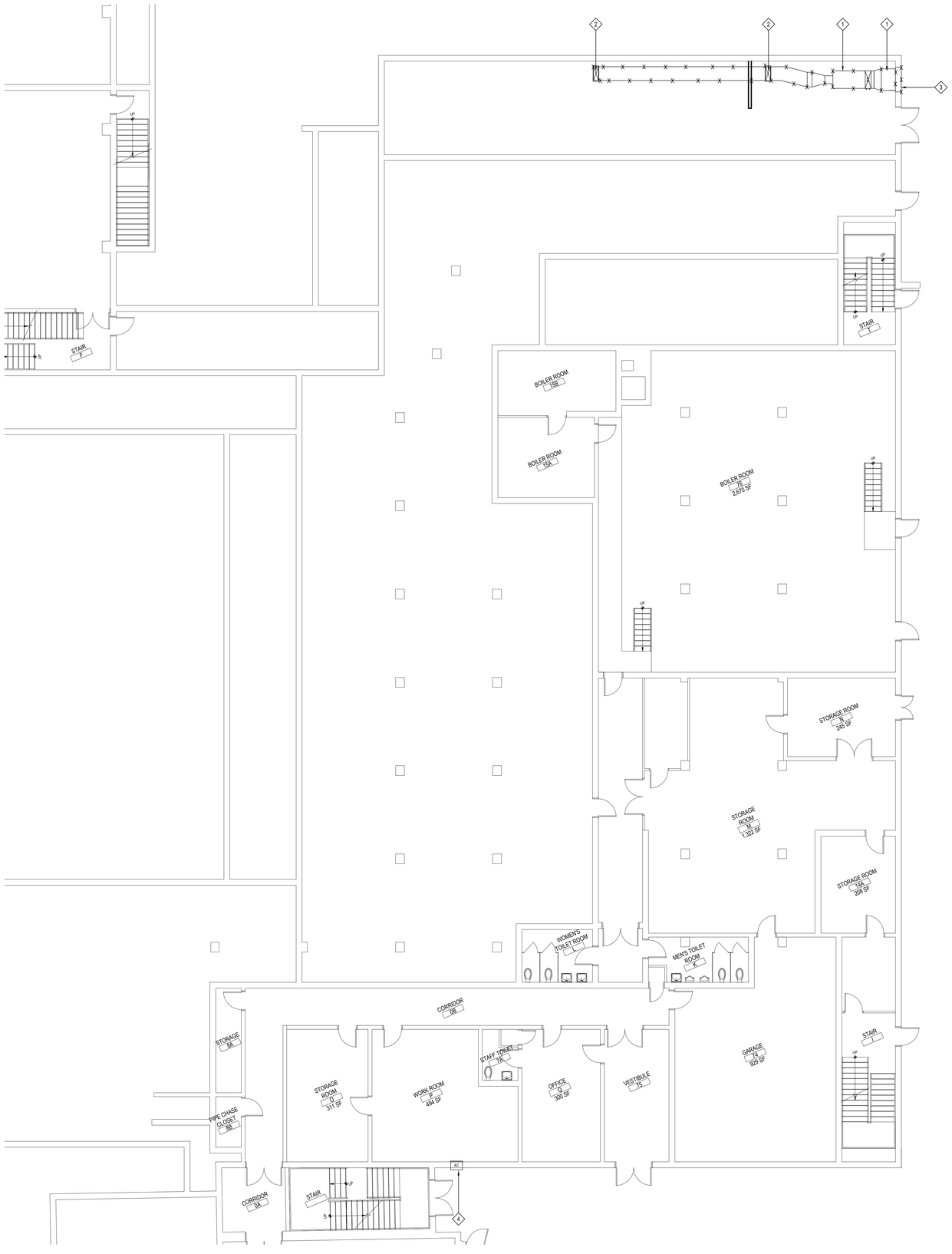
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

M1.05



AREA "C" BASEMENT MECHANICAL DEMO PLAN

NOTE:

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

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. M.C. TO REMOVE AND DISPOSE OF EXISTING CEILING HUNG AIR HANDLER, HOT WATER COIL, LOUVER & ASSOCIATED DUCTWORK , COORDINATE WITH EC TO DISCONNECT POWER AND MC TO PATCH OPENINGS AS NEEDED. SEE M1.07 FOR ADDITIONAL INFORMATION
2. EXISTING DUCTWORK THRU FLOOR TO LOCKER ROOM TO BE REMOVED BY MC, DUCTWORK CONTINUED ON DRAWING M1.08. MC TO PATCH AS NECESSARY.
3. EXISTING 50" X 36" LOUVER IN WALL TO BE REMOVED, AND TEMPORARILY PATCHED BY MC
4. MC TO TEMPORARILY REMOVE AND STORE EXISTING WINDOW AC, FOR FUTURE REINSTALLATION

REV.	DATE	ITEM

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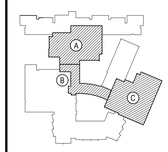

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

BASEMENT DUCTWORK and
EQUIPMENT DEMOLITION PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	BASEMENT DUCTWORK and EQUIPMENT DEMOLITION PLAN - AREA 'C'
SCALE:	AS NOTED
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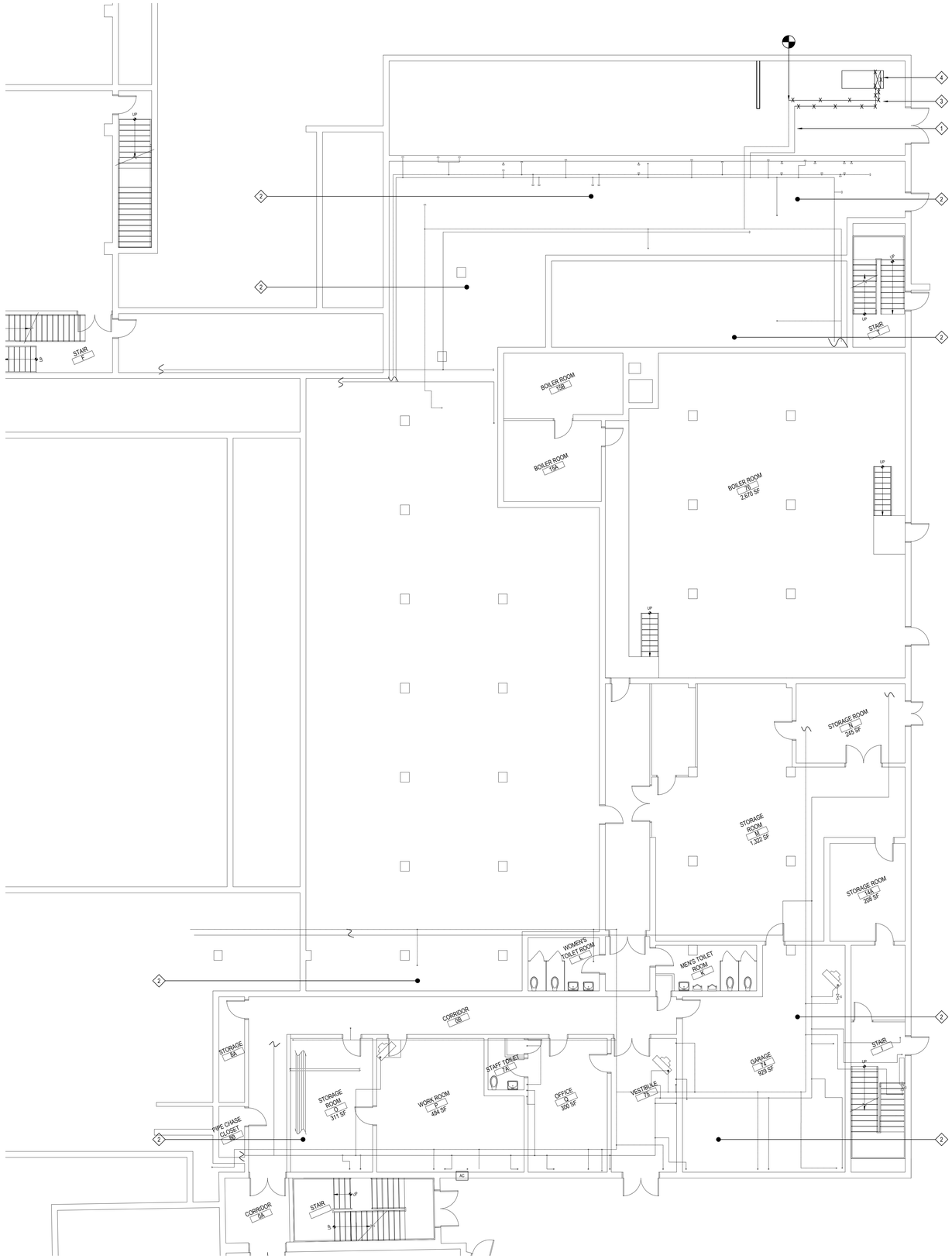
FILE No:	23-131a FLHS

M1.06



AREA "C" BASEMENT MECHANICAL HYDRONIC PIPING DEMO PLAN

NOTE:

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

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. EXISTING HOT WATER PIPING TO REMAIN.
2. MC TO CAP ALL HOT WATER LINES FROM DEMOLISHED LOCKER ROOM HEATING EQUIPMENT IN CRAWLSPACE. MC TO PATCH AS NECESSARY.
3. MC TO DISCONNECT EXISTING PIPING SERVING EXISTING HVAC UNIT IN MACHINE ROOM, MC TO TEMPORARILY CAP FOR FUTURE INSTALLATION IN NEW WORK PHASE
4. MC TO DEMOLISH AND REMOVE EXISTING HVAC UNIT IN MACHINE ROOM, MC TO CAP PIPING FOR FUTURE HV UNIT INSTALLATION. MC TO REFER TO M1.06 FOR ADDITIONAL SCOPE

MC TO NOTE THE HOT WATER SYSTEM CONTAINS 40% GLYCOL
MC TO TEST AND ADD GLYCOL TO SYSTEM TO REACH 40%

REV.	DATE	ITEM

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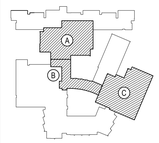

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

BASEMENT HYDRONIC PIPING
DEMOLITION PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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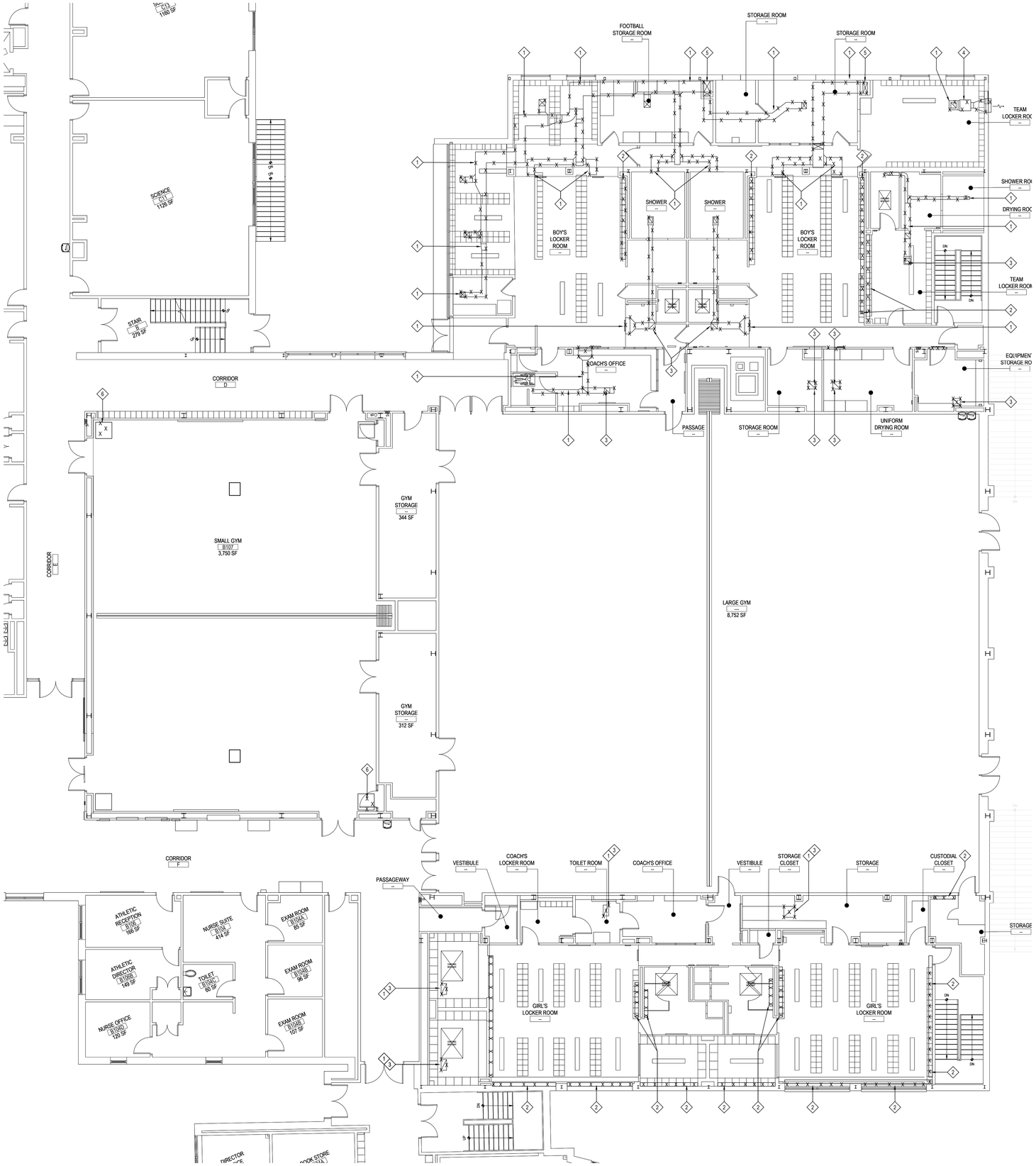
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	BASEMENT HYDRONIC DEMOLITION PLAN - AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M1.07



AREA "C" FIRST FLOOR MECHANICAL DEMO PLAN

NOTE:

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

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. M.C. TO REMOVE AND DISPOSE OF ALL EXISTING DUCTWORK, DIFFUSERS AND GRILLES AS SHOWN, INCLUDING ALL TAKEOFFS, DAMPERS AND ACCESSORIES. MC RESPONSIBLE FOR ANY INTERIOR PATCHING WHERE MAY BE NECESSARY. ALL ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY
2. MC TO REMOVE EXISTING FIN TUBE, VALVES, ACCESSORIES AND COVERS AS SHOWN BACK TO MAIN HOT WATER PIPING RUN IN BASEMENT BELOW. MC TO PATCH AS NECESSARY. REFER TO M1.07 FOR CONTINUATION
3. MC TO REFER TO ROOF PLAN DRAWING M1.09, FOR CONTINUATION WHERE DUCT MEETS EXHAUST FAN.
4. MC TO REMOVE AND DISPOSE OF EXISTING EXHAUST FAN, LOUVER AND ASSOCIATED DUCTWORK LOCATED IN CEILING PLENUM. MC TO COORDINATE WITH EC TO DISCONNECT POWER. ALL ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY
5. DUCTWORK CONTINUES DOWN TO BASEMENT LEVEL MACHINE ROOM, CONTINUED ON M1.06
6. MC TO REMOVE AND DISPOSE OF EXISTING CEILING HUNG HW UNIT HEATER, SUPPORTS AND PIPING LOCATED IN EQUIPMENT CAGE IN CORNER OF SMALL GYM. MC TO DEMO PIPING BACK TO CHASE. MC TO PATCH AS NECESSARY

ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR DUCTWORK and
EQUIPMENT DEMOLITION PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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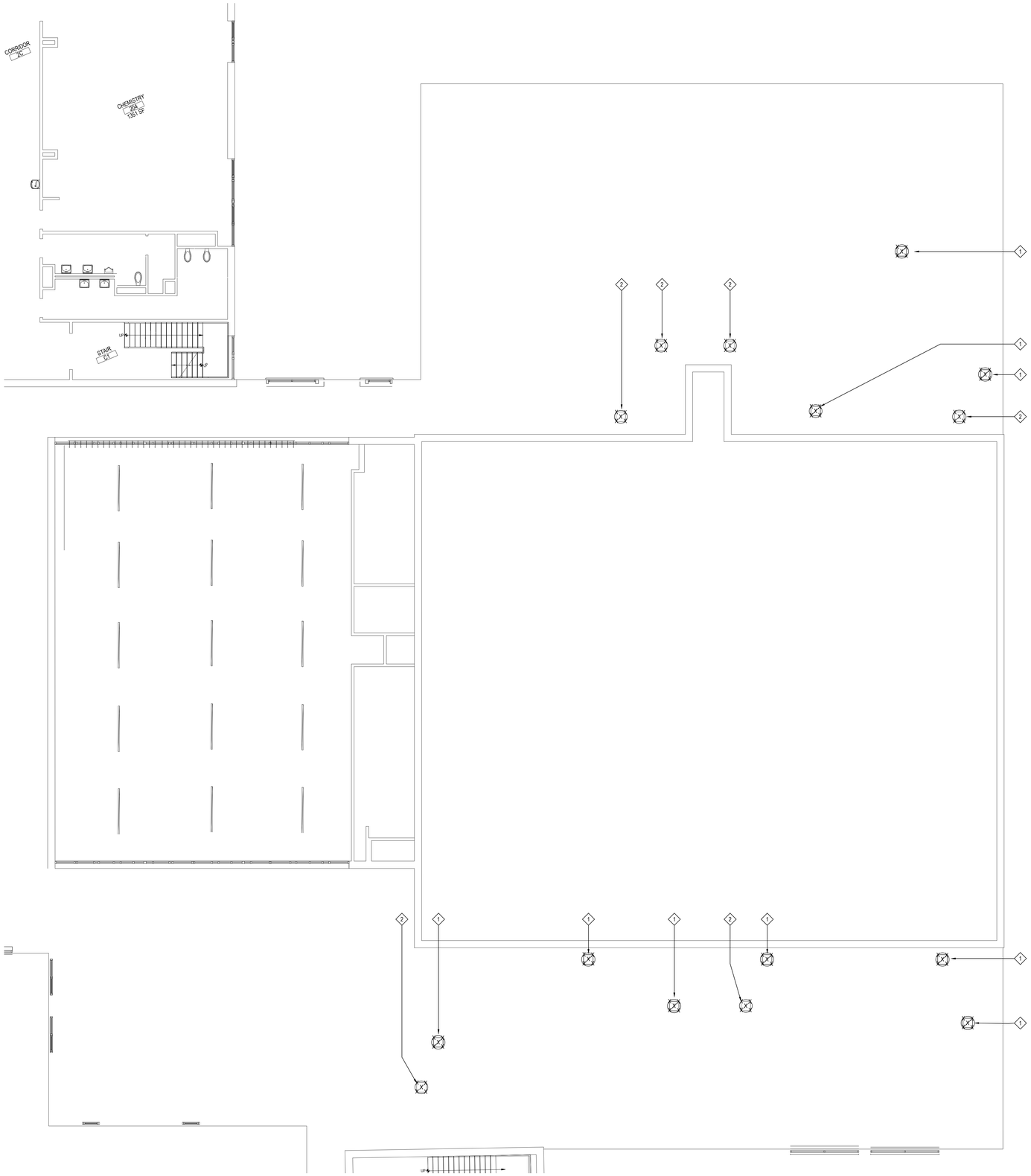
SED No:	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR DUCTWORK and EQUIPMENT DEMOLITION PLAN - AREA "C"
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M1.08



AREA "C" ROOF MECHANICAL DEMO PLAN

NOTE:

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

DEMOLITION KEY NOTES

(REFER TO THE TESTING REPORTS PRIOR TO ANY REMOVALS)

1. M.C. TO REMOVE AND DISPOSE OF EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK BELOW, COORDINATE WITH EC TO DISCONNECT POWER. GC TO CAP CURB AND FLASH ROOF. GC RESPONSIBLE FOR PATCHING OF ROOF WHERE NECESSARY AS TO MAINTAIN ANY AND ALL ROOFING WARRANTYS

2. M.C. TO REMOVE AND DISPOSE OF EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK BELOW, MC TO PRESERVE EXISTING CURB FOR FUTURE USE. COORDINATE WITH EC TO DISCONNECT POWER PRIOR TO REMOVAL

ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS DEMOLITION , AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY

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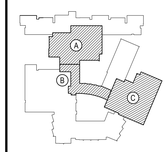

KEY PLAN

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PROJECT

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PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

ROOF DEMOLITION PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: ROOF DEMOLITION PLAN - AREA 'C'

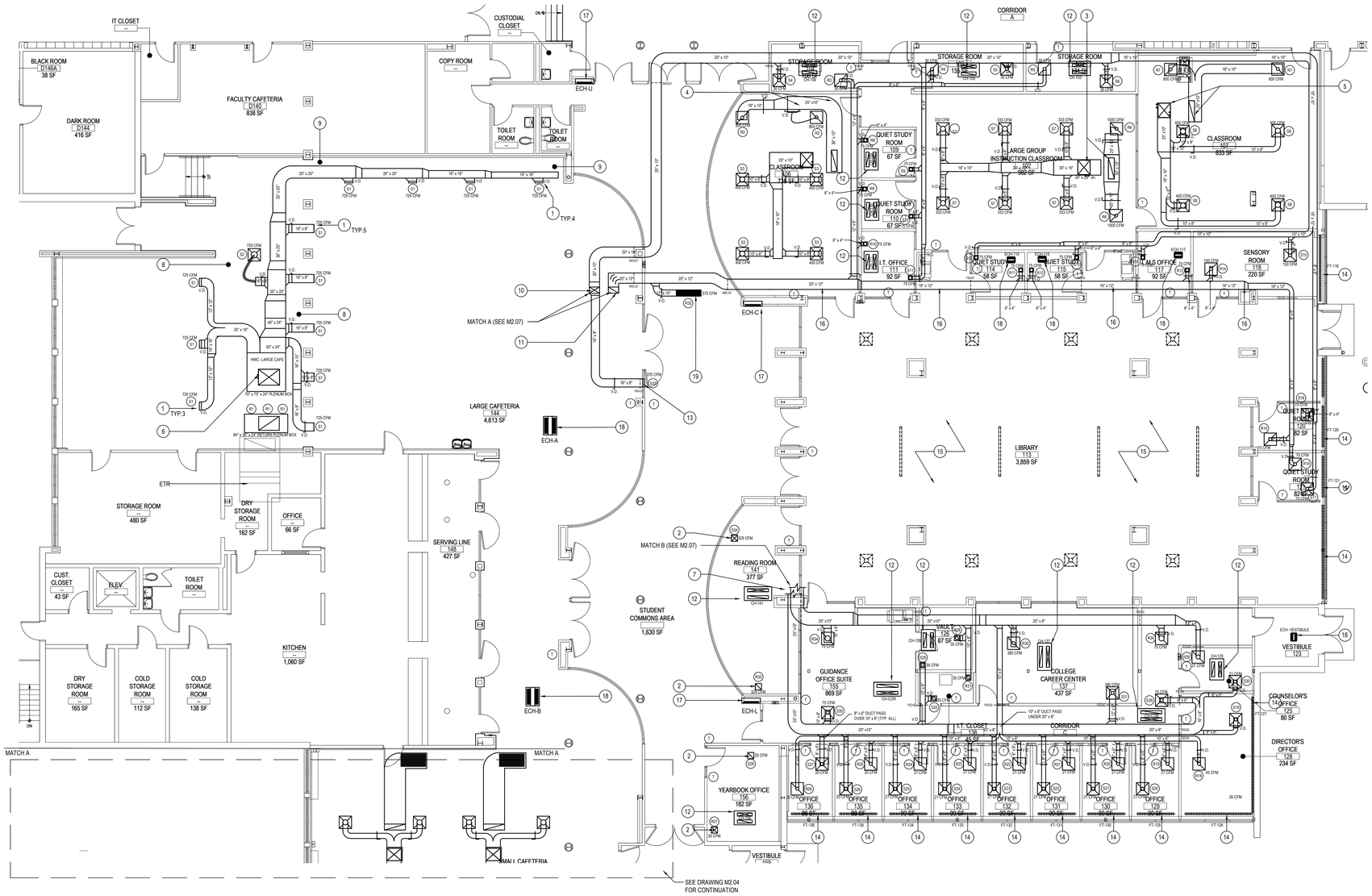
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

M1.09



AREA "A" FIRST FLOOR MECHANICAL NEW PLAN

NOTE:

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

FIRST FLOOR -AREA "A" - NEW DUCTWORK KEY PLAN NOTES

1. MC TO INSTALL NEW SURFACE MOUNTED GRILLE AS SHOWN ON KEY PLAN. REFER ALSO TO AIR OUTLET SCHEDULES FOR ADDITIONAL INFORMATION.
2. MC TO RUN NEW DUCTWORK FROM DOAS-2 DOWN THRU ROOF. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY. MC TO PROVIDE FLEX DUCT CONNECTION FROM HARD DUCT TO NEW LAY IN CEILING DIFFUSER/ RETURN GRILLE. MAXIMUM LENGTH OF FLEX DUCT TO BE 6FT. REFER TO M2.07 FOR CONTINUATION
3. MC TO RUN NEW 11X36 RETURN DOWN AND TRANSITION TO DUCT WORK AS SHOWN, MC TO INSTALL 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU- LGI) ON ROOF ABOVE & TRANSITION DUCT TO 30X15 DUCT & FURNISH & INSTALL NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-LGI) AS SHOWN. REFER TO HOT WATER PIPING PLAN FOR DETAILS OF HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL. REFER TO M2.07 FOR CONTINUATION
4. MC TO RUN NEW 11X36 RETURN DOWN AND TRANSITION TO DUCT WORK AS SHOWN, MC TO INSTALL 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU-CLASSROOM A- LGI) ON ROOF ABOVE & TRANSITION DUCT TO 25X15 DUCT & FURNISH & INSTALL NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-CLASSROOM A) AS SHOWN. REFER TO HOT WATER PIPING PLAN FOR DETAILS OF HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL. REFER TO M2.07 FOR CONTINUATION
5. MC TO RUN NEW 11X36 RETURN DOWN AND TRANSITION TO DUCT WORK AS SHOWN, MC TO INSTALL 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU-CLASSROOM B- LGI) ON ROOF ABOVE & TRANSITION DUCT TO 25X10 DUCT & FURNISH & INSTALL NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-CLASSROOM B) AS SHOWN. REFER TO HOT WATER PIPING PLAN FOR DETAILS OF HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL. REFER TO M2.07 FOR CONTINUATION
6. MC TO RUN NEW 41X31 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU-LARGE CAFE) ON ROOF ABOVE & TRANSITION DUCT INTO 75X24 PLENUM SPACE & FURNISH & INSTALL NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-LARGE CAFE) AS SHOWN. REFER TO HOT WATER PIPING PLAN FOR DETAILS OF HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL. REFER TO M2.07 FOR CONTINUATION
7. MC TO RUN NEW 25X10 SUPPLY & 25X10 RETURN DUCT DOWN FROM NEW ROOFTOP UNIT (DOAS-1) ON ROOF ABOVE MC TO DROP DOWN INTO 31" CLEAR AREA TO SERVE SPACE SHOWN. REFER TO M2.07 FOR CONTINUATION
8. MC TO INSTALL ALL DUCTWORK FROM RTU- LARGE CAFE IN EXISTING SOFFIT, MC TO MODIFY AS NECESSARY FOR INSTALLATION. MC TO SURVEY AREA PRIOR TO INSTALLATION AS TO AVOID EXISTING FIRE SPRINKLER PIPING.
9. MC TO INSTALL ALL DUCTWORK FROM RTU- LARGE CAFE IN NEW SOFFIT, BY GC. MC TO COORDINATE AS NECESSARY
10. MC TO INSTALL NEW 20X12 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (DOAS-1) FROM ROOF ABOVE, REFER TO MATCH-A FOR CONTINUATION. REFER TO HOT WATER PIPING PLAN FOR DETAILS OF HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL. REFER TO M2.07 FOR CONTINUATION
11. MC TO RUN NEW 20x12 RETURN DUCT DOWN FROM (DOAS-1) ON ROOF ABOVE. REFER TO MATCH A ON M2.07 FOR CONTINUATION
12. MC TO INSTALL NEW HW CABINET UNIT HEATER FLUSH TO CEILING, CONNECT TO EXISTING PIPING IN CEILING STUB UPS, SIZE AS SHOWN. MC TO FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, REFER TO SCHEDULE ON M6.07 FOR FURTHER INFORMATION.
13. MC TO INSTALL 12"x 12" SUPPLY GRILLE ON WALL, COORDINATE WITH GC FOR FINAL LOCATION
14. MC TO INSTALL NEW HOT WATER FLOOR MOUNTED BASEBOARD FINTUBE WITH SLOPE TOP TYPE COVERS. MC TO CONNECT TO HW PIPING LOCATED IN CEILING. REFER TO HYDRONIC PIPING PLAN M2.02 FOR FURTHER INFORMATION & REFER TO DRAWING M6.07 FOR FULL SCHEDULE AND DETAILS.
15. FOR DUCTWORK, SUPPLY GRILLES AND REGISTERS SHOWN IN CEILING OF LIBRARY REFER TO M2.07 FOR ADDITIONAL INFORMATION
16. MC TO INSTALL DUCTWORK TIGHT TO WALL
17. MC TO FURNISH AND INSTALL NEW FULLY-RECESSED ELECTRIC CABINET AS SHOWN I. REFER TO SCHEDULE ON M6.08 FOR FURTHER INFORMATION. MC RESPONSIBLE FOR ANY AND ALL NECESSARY ALTERATIONS FOR INSTALLATION. MC TO COORDINATE WITH GC FOR FINAL INSTALL LOCATION.
18. MC TO FURNISH AND INSTALL NEW CEILING MOUNTED ELECTRIC CABINET AS SHOWN . REFER TO SCHEDULE ON M6.08 FOR FURTHER INFORMATION. MC TO FURNISH WITH ANY AND ALL NECESSARY HANGERS AND SUPPORTS. MC RESPONSIBLE FOR ANY AND ALL NECESSARY ALTERATIONS FOR INSTALLATION. MC TO COORDINATE WITH GC FOR FINAL INSTALL LOCATION.
19. MC TO FURNISH AND INSTALL 48"x 12" LAY-IN RETURN GRILLE , MC TO PROVIDE HARD DUCTED CONNECTION TO GRILLE. MC TO COORDINATE WITH GC FOR FINAL LOCATION. MC TO ALTER CEILING TILE AS NECESSARY FOR CORRECT FIT

MC TO REFER TO ENTIRE DRAWING SET FOR FULL SCOPE OF WORK. MC TO REFER TO ARCH SET FOR FINAL EQUIPMENT CEILING LAYOUT

GENERAL NOTES:

1. ALL NEW SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE LAY-IN TYPE FOR 24X24 AND ALL OTHER SIZES SHALL BE SURFACE MOUNTED.
2. ALL DUCTWORK SIZES INDICATED ON PLANS.
3. ALL SUPPLY DIFFUSER NECK SIZES ON SUPPLY AIR OUTLET SCHEDULES.
4. MC TO COORDINATE ALL WORK WITH ALL OTHER PROJECT TRADES.
5. PROVIDE VOLUME DAMPERS (VD) AT ALL BRANCHES OF DUCTWORK AS SHOWN
6. MC TO REFER TO EXISTING BUILDING NEW WORK PLANS FOR ALL NEW EQUIPMENT, NEW PIPING, NEW DUCTWORK ETC IN EXISTING BUILDING FOR FURTHER DETAILS OF WORKSCOPE.
7. EACH NEW CEILING CASSETTE VRF HAS AN ASSOCIATED PLENUM RATED & PLENUM MOUNTED CONDENSATE REMOVAL PUMP (CP-VRF) ASSOCIATED WITH IT.
8. EACH NEW CEILING CASSETTE AC UNIT (AC-ROOM TAG) HAS AN ASSOCIATED PLENUM RATED & PLENUM MOUNTED CONDENSATE REMOVAL PUMP (CP-1) ASSOCIATED WITH IT.
9. ALL WALL RECESSED ELECTRICAL CABINET HEATERS INSETS SHALL BE CUT IN BY MC. MC TO THEN INSTALL. NEW ELECTRICAL CABINET HEATER & EC TO PROVIDE POWER.
10. MC TO SURVEY ALL AREAS OF NEW WORK FOR LOCATIONS OF EXISTING FIRE SPRINKLER PIPING

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR
DUCTWORK LAYOUT PLAN - AREA 'A'

DRAWING BY: GWT

CHECK BY: - - -

NOTICE

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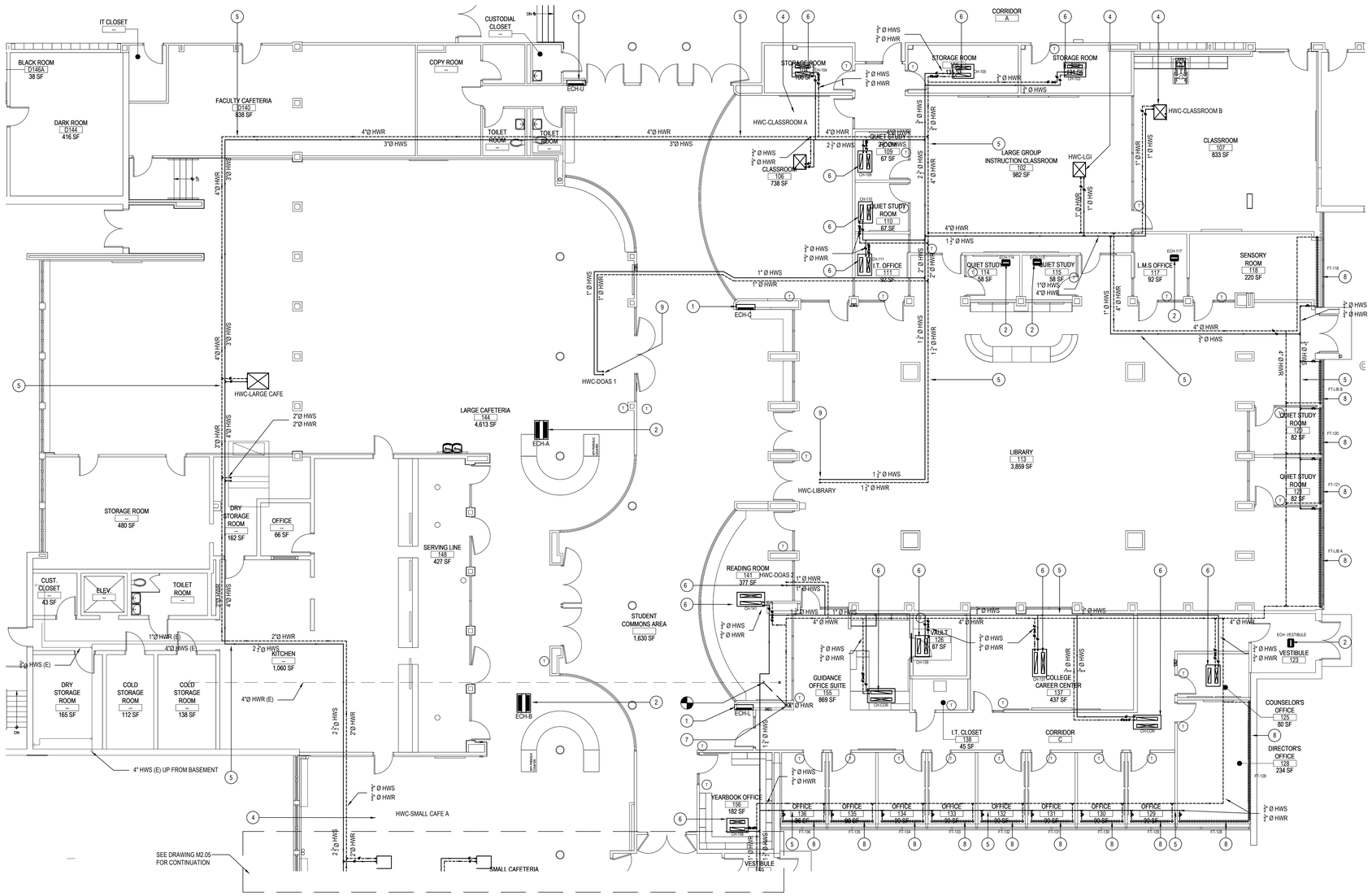
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR DUCTWORK LAYOUT PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M2.01



AREA "A" FIRST FLOOR MECHANICAL NEW PLAN

NOTE:

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

FIRST FLOOR -AREA "A" - NEW HYDRONIC HEAT PIPING KEY PLAN NOTES

1. MC TO FURNISH AND INSTALL NEW FULLY-RECESSED ELECTRIC CABINET AS SHOWN. REFER TO SCHEDULE ON M6.08 FOR FURTHER INFORMATION. MC RESPONSIBLE FOR ANY AND ALL NECESSARY ALTERATIONS FOR INSTALLATION. MC TO COORDINATE WITH GC FOR FINAL INSTALL LOCATION.
2. MC TO FURNISH AND INSTALL NEW CEILING MOUNTED ELECTRIC CABINET AS SHOWN . REFER TO SCHEDULE ON M6.08 FOR FURTHER INFORMATION. MC TO FURNISH WITH ANY AND ALL NECESSARY HANGERS AND SUPPORTS. MC RESPONSIBLE FOR ANY AND ALL NECESSARY ALTERATIONS FOR INSTALLATION. MC TO COORDINATE WITH GC FOR FINAL INSTALL LOCATION.
3. NA
4. MC TO PROVIDE AND INSTALL HOT WATER HEATING COIL VERTICALLY IN DUCTWORK LOCATED IN THE CEILING PLENUM .MC TO PROVIDE ALL VALVES AND FITTINGS AS NECESSARY FOR INSTALLATION. REFER TO DETAIL ON M6.01 FOR ADDITIONAL INFORMATION.
5. MC TO INSTALL NEW HOT WATER SUPPLY AND RETURN PIPING AS SHOWN, MC TO PROVIDE AND INSTALL ALL FITTINGS, VALVES AND HANGERS AS NECESSARY FOR PROPER INSTALLATION. MC TO SIZE PIPING AS SHOWN ON DRAWING. MC TO VERIFY THE FIT OF ALL PIPING RUNS PRIOR TO INSTALLATION.
6. MC TO INSTALL NEW HW CABINET UNIT HEATER FLUSH TO CEILING, CONNECT TO NEW HOT WATER SUPPLY & RETURN PIPING (HWS/HWR) SIZE AS SHOWN. MC TO FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, MC TO REFER TO PIPING DETAIL ON M6.01 FOR FURTHER INFORMATION, SEE SCHEDULE ON M6.07 FOR UNIT TAGS AS NOTED ON PLAN
7. MC TO CONNECT NEW 4" HWR PIPING TO EXISTING 4" HWR PIPING IN BASEMENT, MC TO DROP NEW HOT WATER RETURN PIPING DOWN IN NEW CHASE.
8. MC TO INSTALL NEW HOT WATER FLOOR MOUNTED BASEBOARD FINTUBE WITH SLOPE TOP TYPE COVERS. CONNECT TO NEW HOT WATER SUPPLY & RETURN PIPING (HWS/HWR) SIZE AS SHOWN. MC TO FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, MC TO REFER TO PIPING DETAIL ON M6.01 FOR FURTHER INFORMATION, SEE SCHEDULE ON M6.08 FOR UNIT TAGS AS NOTED ON PLAN
9. PIPING TO CONTINUE UP TO RAISE ROOF PLENUM AREA ABOVE, WHERE MC SHALL INSTALL NEW DUCT MOUNTED HOT WATER HEATING COIL AS TAGGED ON M2.07. MC TO REFER TO SCHEDULE ON M6.05 FOR COIL INFORMATION. MC RESPONSIBLE FOR ALL NECESSARY PENETRATIONS , MOUNTING HARDWARE OR MODIFICATIONS FOR INSTALLATION. MC TO REFER TO PIPING DETAIL ON M6.01 FOR FURTHER INFORMATION

GENERAL NOTES:
1. FOR ALL HWS & HWR PIPING, ALL SIZES ARE INDICATED ON THE PLANS.
2. FOR ALL EQUIPMENT WHICH USES HOT WATER PIPING FOR HEATING SOURCE, MC SHALL FURNISH & INSTALL A DDC 3-WAY MODULATING HOT WATER CONTROL VALVE. REFER TO SCHEMATIC DIAGRAMS FOR VALVE ,COIL CONNECTION DETAILS, BALANCING VALVE, SHUT OFF VALVE, CHECK VALVE DETAILS.
3. PROVIDE FLEXIBLE PIPING CONNECTIONS FOR HWS & HWR LINES TO/FROM EACH EQUIPMENT USING HOT WATER COILS.
4. MC SHALL COORDINATE NEW PIPING RUNS WITH NEW SPRINKLER LINES, NEW DUCTWORK, NEW PLUMBING LINES, & NEW ELECTRICAL CONDUIT LINES.
5. REFER TO PIPING DETAILS FOR ALL VALVE & PIPING ACCESSORIES DETAILS.
6. MC SHALL BE RESPONSIBLE TO FURNISH & INSTALL NEW DDC 3-WAY MODULATING HOT WATER CONTROL VALVES THAT ARE TO BE SIZED BY CONTROLS SUBCONTRACTOR IN CONTROLS SUBMITTAL PHASE.

MC NOTES:
MC TO INSTALL ISOLATION VALVES PRIOR TO ALL HYDRONIC HEATING EQUIPMENT ON BOTH THE HWR AND HWS LINES.
MC TO INSTALL BALANCE VALVE ON THE HWR FOR ALL HYDRONIC EQUIPMENT
MC TO NOTE THE HOT WATER SYSTEM CONTAINS 40% GLYCOL
MC TO TEST AND ADD GLYCOL TO SYSTEM TO REACH 40%

GENERAL NOTES:
1. FOR ALL HWS & HWR PIPING, ALL SIZES ARE INDICATED ON THE PLANS.
2. FOR ALL EQUIPMENT WHICH USES HOT WATER PIPING FOR HEATING SOURCE, MC SHALL FURNISH & INSTALL A DDC 3-WAY MODULATING HOT WATER CONTROL VALVE. REFER TO SCHEMATIC DIAGRAMS FOR VALVE ,COIL CONNECTION DETAILS, BALANCING VALVE, SHUT OFF VALVE, CHECK VALVE DETAILS.
3. PROVIDE FLEXIBLE PIPING CONNECTIONS FOR HWS & HWR LINES TO/FROM EACH EQUIPMENT USING HOT WATER COILS.
4. MC SHALL COORDINATE NEW PIPING RUNS WITH NEW SPRINKLER LINES, NEW DUCTWORK, NEW PLUMBING LINES, & NEW ELECTRICAL CONDUIT LINES.
5. REFER TO PIPING SCHEMATIC PLANS FOR ALL VALVE & PIPING ACCESSORIES DETAILS.
6. MC SHALL BE RESPONSIBLE TO FURNISH & INSTALL NEW DDC 3-WAY MODULATING HOT WATER CONTROL VALVES THAT ARE TO BE SIZED BY CONTROLS SUBCONTRACTOR IN CONTROLS SUBMITTAL PHASE.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR HYDRONIC
PIPING PLAN - AREA 'A'

DRAWING BY: GWT

CHECK BY: - - -

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: FIRST FLOOR HYDRONIC PIPING PLAN - AREA 'A'

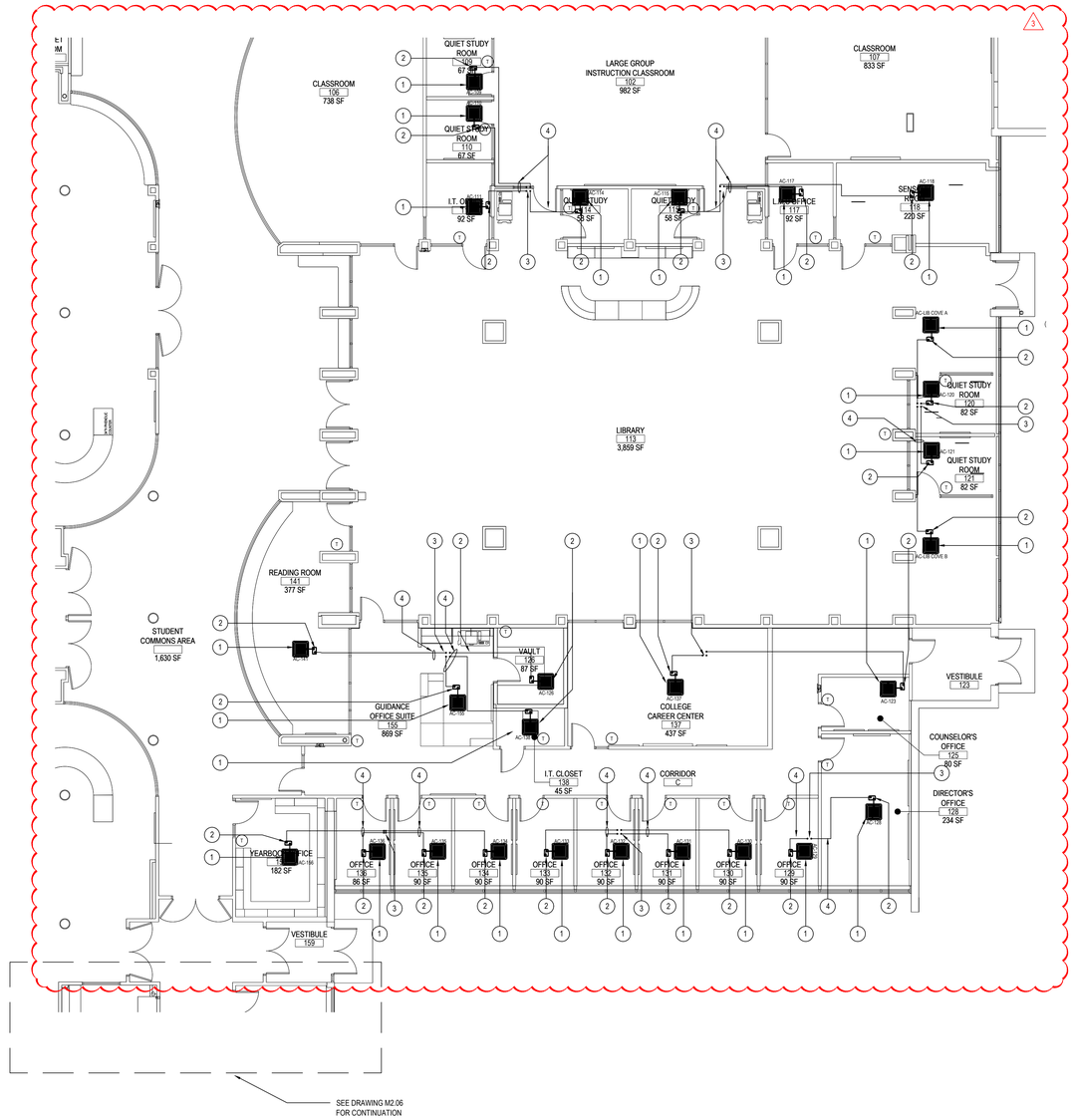
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M2.02

FIRST FLOOR -AREA "A" & "B" - NEW VRF PIPING KEY PLAN NOTES

3

1. MC TO INSTALL NEW CEILING CASSETTE FLUSH TO CEILING, MC TO REFER TO SCHEDULES AND PIPING DIAGRAM FOR INSTALLATION OF ALL VRF PIPING, MC TO USE LENGTHS AS DESCRIBED AS BASIS OF DESIGN, SIZE AS SHOWN ON PIPING TREE. MC TO FURNISH WITH PLENUM RATED LITTLE GIANT CONDENSATE, PUMP HANGERS AND ACCESSORIES AS NECESSARY. REFER TO SCHEDULES AND CUT SHEETS ON M6.11 & M6.12 DRAWINGS FOR FURTHER INFORMATION. . MC TO PROVIDE & INSTALL NEW THERMOSTAT FOR CEILING CASSETTE/ WALL MOUNTED MINISPLIT. MC TO PROVIDE ALL WIRING & CONTROLS AS REQUIRED TO INTERLOCK STAT / SENSOR W/ HEAT & EXISTING BUILDING BMS. THERMOSTAT TO BE LOCATED AT LOCATION OF PREVIOUS T-STAT IF APPLICABLE. REFER TO SPECIFICATION SECTION 230923 FOR FURTHER DETAILS. PROVIDE LINE SET COVERS
2. NEW LITTLE GIANT CONDENSATE PUMP (CP-1). SEE SCHEDULE, DWG. #M6.01 FOR FURTHER INFORMATION.
3. MC TO PROVIDE AND GC TO INSTALL NEW 5- PIPE PORTAL AS PER DETAIL ON M6.01, ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY . MC TO PIPE. MC TO COORDINATE AS NECESSARY.
4. MC TO INSTALL NEW $\frac{1}{4}$" COPPER TYPE "M" CONDENSATE PIPING IN CEILING, MC TO RUN TO POINT SHOWN AND TERMINATE ON ROOF ALL CONDENSATE PIPING TO BE INSULATED IN ACCORDANCE WITH SPEC / IECC.



AREA "A"& "B" FIRST FLOOR MECHANICAL VRF NEW PLAN

NOTE:

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

REV.	DATE	ITEM
03	03/12/25	BID ADD. NO. 03

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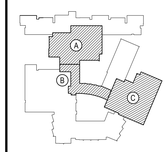

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR VRF AND
CONDENSATE PIPING PLAN - AREAS 'A and B'

DRAWING BY: GWT

CHECK BY: - - -

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOORV VRF and CONDENSATE PIPING PLAN - AREAS 'A and B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

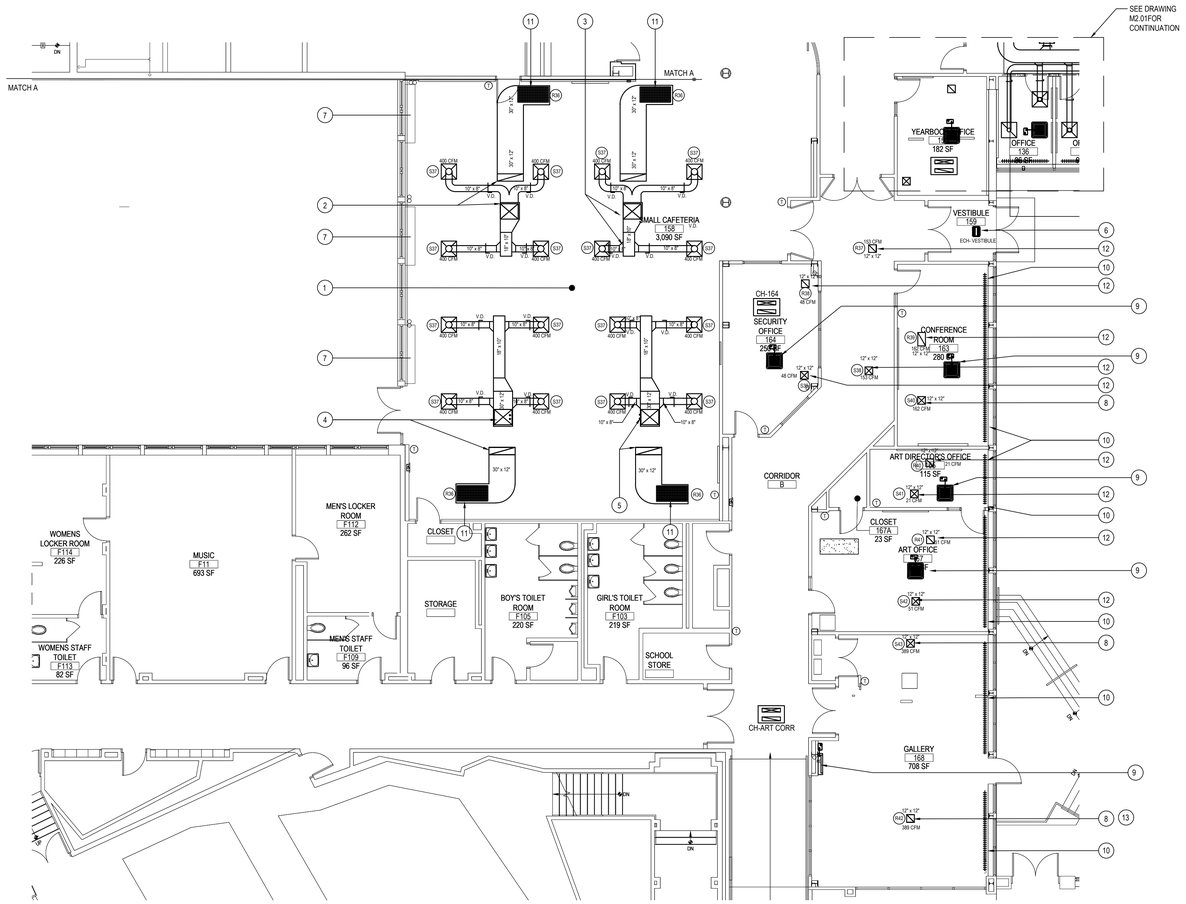
M2.03

FIRST FLOOR -AREA "B" - NEW DUCTWORK KEY PLAN NOTES

1. MC TO COORDINATE INSTALLATION OF DUCTWORK AND NEW EQUIPMENT WITH THE EXISTING FIRE SPRINKLER PIPING. MC TO SURVEY AREA PRIOR TO INSTALLATION
2. MC TO RUN NEW 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU- SMALL CAFE A) ON ROOF ABOVE & TRANSITION DUCT TO 30X12 DUCT & FURNISH & INSTALL NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-SMALL CAFE A) AS SHOWN. SEE M2.07 FOR CONTINUATION. REFER TO HOT WATER PIPING PLAN M2.05 FOR FURTHER INFO ON HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL.
3. MC TO RUN NEW 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU- SMALL CAFE B) ON ROOF ABOVE & TRANSITION DUCT TO 30X12 DUCT & FURNISH & INSTALL NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-SMALL CAFE B) AS SHOWN. SEE M2.07 FOR CONTINUATION. REFER TO HOT WATER PIPING PLAN M2.05 FOR FURTHER INFO ON HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL.
4. MC TO RUN NEW 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU- SMALL CAFE C) ON ROOF ABOVE & TRANSITION DUCT TO 30X12 DUCT & FURNISH & INSTALL NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-SMALL CAFE C) AS SHOWN. SEE M2.07 FOR CONTINUATION. REFER TO HOT WATER PIPING PLAN M2.05 FOR FURTHER INFO ON HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL.
5. MC TO RUN NEW 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU- SMALL CAFE D) ON ROOF ABOVE & TRANSITION DUCT TO 30X12 DUCT & FURNISH & INSTALL NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-SMALL CAFE D) AS SHOWN. SEE M2.07 FOR CONTINUATION. REFER TO HOT WATER PIPING PLAN M2.05 FOR FURTHER INFO ON HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL.
6. MC TO FURNISH AND INSTALL NEW CEILING MOUNTED ELECTRIC CABINET AS SHOWN IN NEW VESTIBULE. REFER TO SCHEDULE ON M6.08 FOR FURTHER INFORMATION. MC TO CENTER UNIT IN CEILNG TILE, COORDINATE WITH GC FOR FINAL INSTALL LOCATION.
7. MC TO REINSTALL PREVIOUSLY REMOVED UNIT VENTILATORS IN PREVIOUS LOCATIONS. FURNISH WITH ALL PARTS AND ACCESSORIES STORED DURING REMOVAL. MC TO CONNECT TO EXISTING HOT WATER PIPING AT POINT OF PREVIOUS DISCONNECTION.
8. MC TO RUN NEW DUCT FROM DOAS-2 DOWN THRU ROOF, ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY. MC TO CONSTRUCT PLENUM BOX TO ACCOMMODATE NEW GRILLE (SEE SCHEDULE), MC TO FURNISH EXPOSED DUCTWORK WITH VOLUME DAMPER AND GRILLE AS SHOWN. REFER TO M2.07 FOR CONTINUATION OF DUCTWORK ON ROOF
9. MC TO INSTALL NEW CEILING CASSETTE FLUSH TO CEILING, MC TO REFER TO SCHEDULES AND PIPING DIAGRAM FOR INSTALLATION OF ALL VRF PIPING, SIZE AS SHOWN. MC TO FURNISH WITH PLENUM RATED LITTLE GIANT CONDENSATE, PUMP HANGERS AND ACCESSORIES AS NECESSARY, REFER TO M2.06 FOR ADDITIONAL INFORMATION, MC TO REFER TO SCHEDULES AND CUT SHEETS ON THE M6.11 SERIES DRAWINGS FOR FURTHER INFORMATION. MC TO PIPE ALL CONDENSATE TO CUSTODIAL SINK OR TO EXTERIOR OF BUILDING, MC TO PROVIDE COORDINATE WITH GC FOR ALL NECESSARY CHASES TO RUN HIDE PIPING LINE SETS.
10. MC TO INSTALL NEW HOT WATER FLOOR MOUNTED BASEBOARD FINTUBE WITH SLOPE TOP TYPE COVERS. REFER TO DWG 2.05 FOR FURTHER INFORMATION. REFER TO DRAWING M6.07 FOR FULL SCHEDULE AND DETAILS.
11. MC TO INSTALL NEW EGG CRATE RETURN GRILLE IN CEILING. MC TO CONSTRUCT & INSTALL PLENUM RETURN BOX FOR RETURN AIR TO ASSOCIATED RTU, SEE SCHEDULE FOR GRILLE AS TAGGED
12. MC TO RUN NEW DUCT FROM DOAS-2 DOWN THRU ROOF, ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY. MC TO PROVIDE FLEX DUCT CONNECTION FROM HARD DUCT TO NEW LAY IN CEILING DIFFUSER/ RETURN GRILLE. MAXIMUM LENGTH OF FLEX DUCT TO BE 6FT. FOR RUN OF DUCTWORK ON ROOF REFER TO M2.07

GENERAL NOTES:

1. ALL NEW SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE LAY-IN TYPE FOR 24X24 AND ALL OTHER SIZES SHALL BE SURFACE MOUNTED.
2. ALL DUCTWORK SIZES INDICATED ON PLANS.
3. ALL SUPPLY DIFFUSER NECK SIZES ON SUPPLY AIR OUTLET SCHEDULES.
4. MC TO COORDINATE ALL WORK WITH ALL OTHER PROJECT TRADES.
5. PROVIDE VOLUME DAMPERS (VD) AT ALL BRANCHES OF DUCTWORK AS SHOWN.
6. MC TO REFER TO EXISTING BUILDING NEW WORK PLANS FOR ALL NEW EQUIPMENT, NEW PIPING, NEW DUCTWORK ETC IN EXISTING BUILDING FOR FURTHER DETAILS OF WORKSCOPE.
7. EACH NEW CEILING CASSETTE VRF HAS AN ASSOCIATED PLENUM RATED & PLENUM MOUNTED CONDENSATE REMOVAL PUMP (CP-VRF) ASSOCIATED WITH IT.
8. EACH NEW CEILING CASSETTE AC UNIT (AC-ROOM TAG) HAS AN ASSOCIATED PLENUM RATED & PLENUM MOUNTED CONDENSATE REMOVAL PUMP (CP-1) ASSOCIATED WITH IT.
9. ALL WALL RECESSED ELECTRICAL CABINET HEATERS INSETS SHALL BE CUT IN BY MC. MC TO THEN INSTALL. NEW ELECTRICAL CABINET HEATER & EC TO PROVIDE POWER.
10. MC TO SURVEY ALL AREAS OF NEW WORK FOR LOCATIONS OF EXISTING FIRE SPRINKLER PIPING



AREA "B" FIRST FLOOR MECHANICAL NEW WORK PLAN

NOTE:

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

REV.	DATE	ITEM

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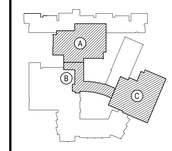

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR
DUCTWORK LAYOUT PLAN - AREA 'B'

DRAWING BY: GWT

CHECK BY: - - -

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR DUCTWORK LAYOUT PLAN - AREA 'B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M2.04

REV.	DATE	ITEM

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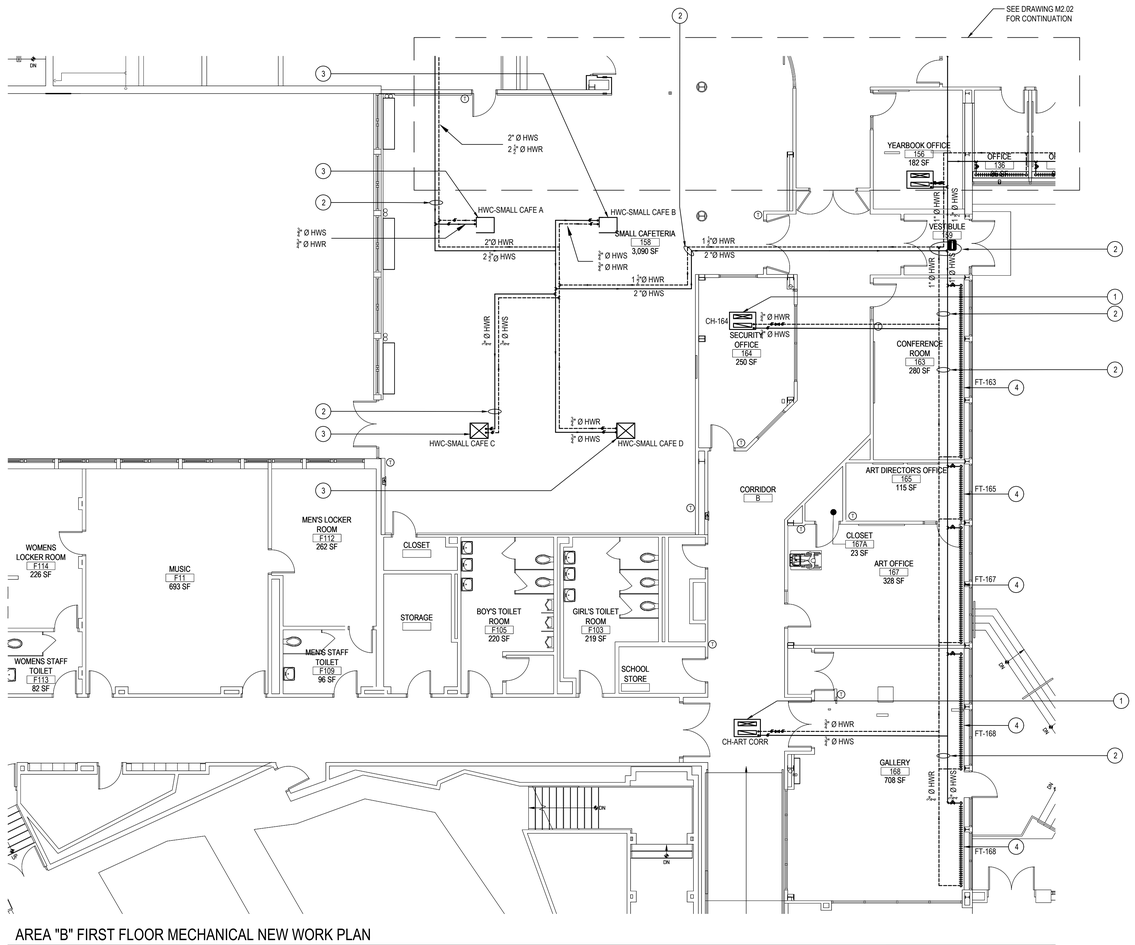
FIRST FLOOR -AREA "B" - NEW HYDRONIC PIPING KEY PLAN NOTES

1. MC TO INSTALL NEW HW CABINET UNIT HEATER FLUSH TO CEILING. CONNECT TO NEW HOT WATER SUPPLY & RETURN PIPING (HWS/HWR) SIZE AS SHOWN. MC TO PROVIDE AND FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, MC TO REFER TO PIPING DETAIL ON M6.01 FOR FURTHER INFORMATION, SEE SCHEDULE ON M6.07 FOR UNIT TAGS AS NOTED ON PLAN
2. MC TO INSTALL NEW HOT WATER SUPPLY AND RETURN PIPING AS SHOWN, MC TO PROVIDE AND INSTALL ALL FITTINGS, VALVES AND HANGERS AS NECESSARY FOR PROPER INSTALLATION. MC TO SIZE PIPING AS SHOWN ON DRAWING. MC TO VERIFY THE FIT OF ALL PIPING RUNS PRIOR TO INSTALLATION.
3. MC TO PROVIDE AND INSTALL HOT WATER HEATING COIL VERTICALLY IN DUCTWORK LOCATED IN THE CEILING PLENUM .CONNECT TO NEW HOT WATER SUPPLY & RETURN PIPING (HWS/HWR) SIZE AS SHOWN. MC TO PROVIDE AND FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, MC TO REFER TO PIPING DETAIL ON M6.01 FOR FURTHER INFORMATION, SEE SCHEDULE ON M6.05 FOR COIL TAGS AS NOTED ON PLAN
4. MC TO INSTALL NEW HOT WATER FLOOR MOUNTED BASEBOARD FINTUBE WITH SLOPE TOP TYPE COVERS. CONNECT TO NEW HOT WATER SUPPLY & RETURN PIPING (HWS/HWR) SIZE AS SHOWN. MC TO PROVIDE AND FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, MC TO REFER TO PIPING DETAIL ON M6.01 FOR FURTHER INFORMATION, SEE SCHEDULE ON M6.08 FOR UNIT TAGS AS NOTED ON PLAN

GENERAL NOTES:

1. FOR ALL HWS & HWR PIPING, ALL SIZES ARE INDICATED ON THE PLANS.
2. FOR ALL EQUIPMENT WHICH USES HOT WATER PIPING FOR HEATING SOURCE, MC SHALL FURNISH & INSTALL A DDC 3-WAY MODULATING HOT WATER CONTROL VALVE. REFER TO SCHEMATIC DIAGRAMS FOR VALVE ,COIL CONNECTION DETAILS, BALANCING VALVE, SHUT OFF VALVE, CHECK VALVE DETAILS.
3. PROVIDE FLEXIBLE PIPING CONNECTIONS FOR HWS & HWR LINES TO/FROM EACH EQUIPMENT USING HOT WATER COILS.
4. MC SHALL COORDINATE NEW PIPING RUNS WITH NEW SPRINKLER LINES, NEW DUCTWORK, NEW PLUMBING LINES, & NEW ELECTRICAL CONDUIT LINES.
5. REFER TO PIPING DETAILS FOR ALL VALVE & PIPING ACCESSORIES DETAILS .
6. MC SHALL BE RESPONSIBLE TO FURNISH & INSTALL NEW DDC 3-WAY MODULATING HOT WATER CONTROL VALVES THAT ARE TO BE SIZED BY CONTROLS SUBCONTRACTOR IN CONTROLS SUBMITTAL PHASE.

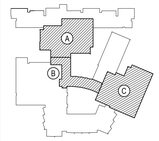
MC NOTES:
MC TO INSTALL ISOLATION VALVES PRIOR TO ALL HYDRONIC HEATING EQUIPMENT ON BOTH THE HWR AND HWS LINES. MC TO INSTALL BALANCE VALVE ON THE HWR FOR ALL HYDRONIC EQUIPMENT
MC TO NOTE THE HOT WATER SYSTEM CONTAINS 40% GLYCOL MC TO TEST AND ADD GLYCOL TO SYSTEM TO REACH 40%



AREA "B" FIRST FLOOR MECHANICAL NEW WORK PLAN

NOTE:

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



KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: FIRST FLOOR
HYDRONIC PIPING PLAN - AREA 'B'

DRAWING BY:	GWT
CHECK BY:	- - -

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR HYDRONIC PIPING PLAN - AREA 'B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M2.05

FIRST FLOOR -AREA "B" - NEW VRF PIPING KEY PLAN NOTES

1. MC TO INSTALL NEW CEILING CASSETTE FLUSH TO CEILING, MC TO REFER TO SCHEDULES AND PIPING DIAGRAM FOR INSTALLATION OF ALL VRF PIPING, MC TO USE LENGTHS AS DESCRIBED AS BASIS OF DESIGN, SIZE AS SHOWN ON PIPING TREE. MC TO FURNISH WITH PLENUM RATED LITTLE GIANT CONDENSATE, PUMP HANGERS AND ACCESSORIES AS NECESSARY. REFER TO SCHEDULES AND CUT SHEETS ON M6.11 & M6.12 DRAWINGS FOR FURTHER INFORMATION. MC TO PROVIDE & INSTALL NEW THERMOSTAT FOR CEILING CASSETTE. MC TO PROVIDE ALL WIRING & CONTROLS AS REQUIRED TO INTERLOCK STAT / SENSOR W/ HEAT & EXISTING BUILDING BMS. THERMOSTAT TO BE LOCATED AT LOCATION OF PREVIOUS T-STAT IF APPLICABLE. REFER TO SPECIFICATION SECTION 230923 FOR FURTHER DETAILS. PROVIDE LINE SET COVERS

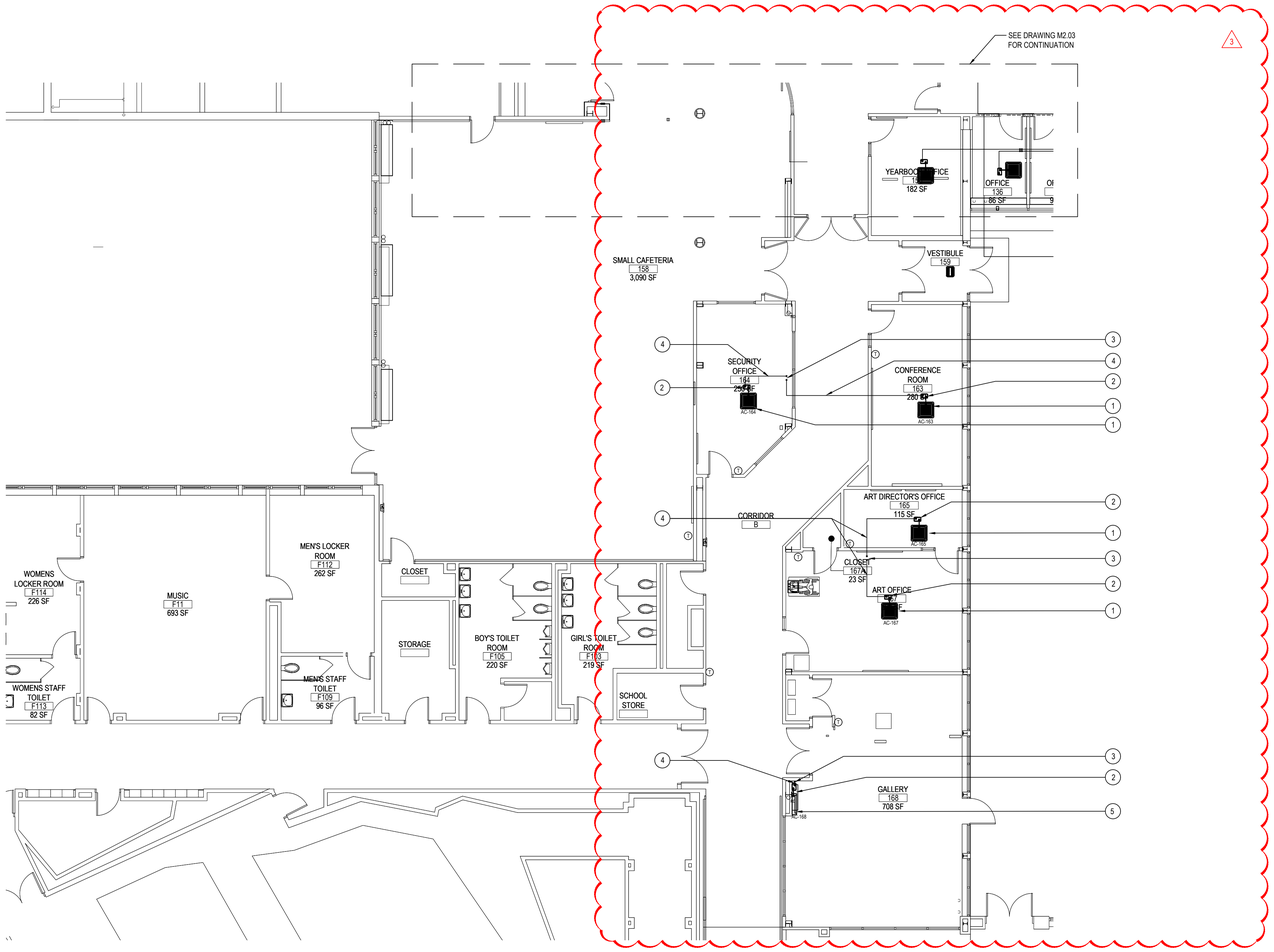
   3

2. NEW LITTLE GIANT CONDENSATE PUMP (CP-1). SEE SCHEDULE, DWG. #M6.01 FOR FURTHER INFORMATION.

3. MC TO PIPE NEW 1½" CONDENSATE PIPING THRU ROOF & PROVIDE AND INSTALL NEW 5- PIPE PORTAL AS PER DETAIL ON M6.01, MC TO HAVE CERTIFIED ROOFING SUBCONTRACTOR PENETRATE ROOF AS TO MAINTAIN ALL ROOFING WARRANTIES & INSTALL NEW PORTAL FOR NEW CONDENSATE & VRF PIPING. MC TO PIPE, MC TO COORDINATE AS NECESSARY.

4. MC TO INSTALL NEW ¾" COPPER TYPE "M" CONDENSATE PIPING IN CEILING, MC TO RUN TO POINT SHOWN AND TERMINATE ON ROOF ALL CONDENSATE PIPING TO BE INSULATED IN ACCORDANCE WITH SPEC / IECC.

5. MC TO INSTALL NEW WALL MOUNTED MINISPLIT FLUSH TO CEILING, MC TO REFER TO SCHEDULES AND PIPING DIAGRAM FOR INSTALLATION OF ALL VRF PIPING, MC TO USE LENGTHS AS DESCRIBED AS BASIS OF DESIGN, SIZE AS SHOWN ON PIPING TREE. MC TO FURNISH WITH PLENUM RATED LITTLE GIANT CONDENSATE, PUMP HANGERS AND ACCESSORIES AS NECESSARY. REFER TO SCHEDULES AND CUT SHEETS ON M6.11 & M6.12 DRAWINGS FOR FURTHER INFORMATION. . MC TO PROVIDE & INSTALL NEW THERMOSTAT FOR WALL MOUNTED MINISPLIT. MC TO PROVIDE ALL WIRING & CONTROLS AS REQUIRED TO INTERLOCK STAT / SENSOR W/ HEAT & EXISTING BUILDING BMS. THERMOSTAT TO BE LOCATED AT LOCATION OF PREVIOUS T-STAT. REFER TO SPECIFICATION SECTION 15903 FOR FURTHER DETAILS. PROVIDE LINE SET COVERS



AREA "B" FIRST FLOOR MECHANICAL NEW WORK PLAN

NOTE:

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

REV.	DATE	ITEM
03	03/12/25	BID ADD. NO. 03

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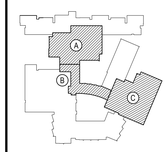

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR VRF
CONDENSATE PIPING PLAN

DRAWING BY: GWT

CHECK BY: - - -

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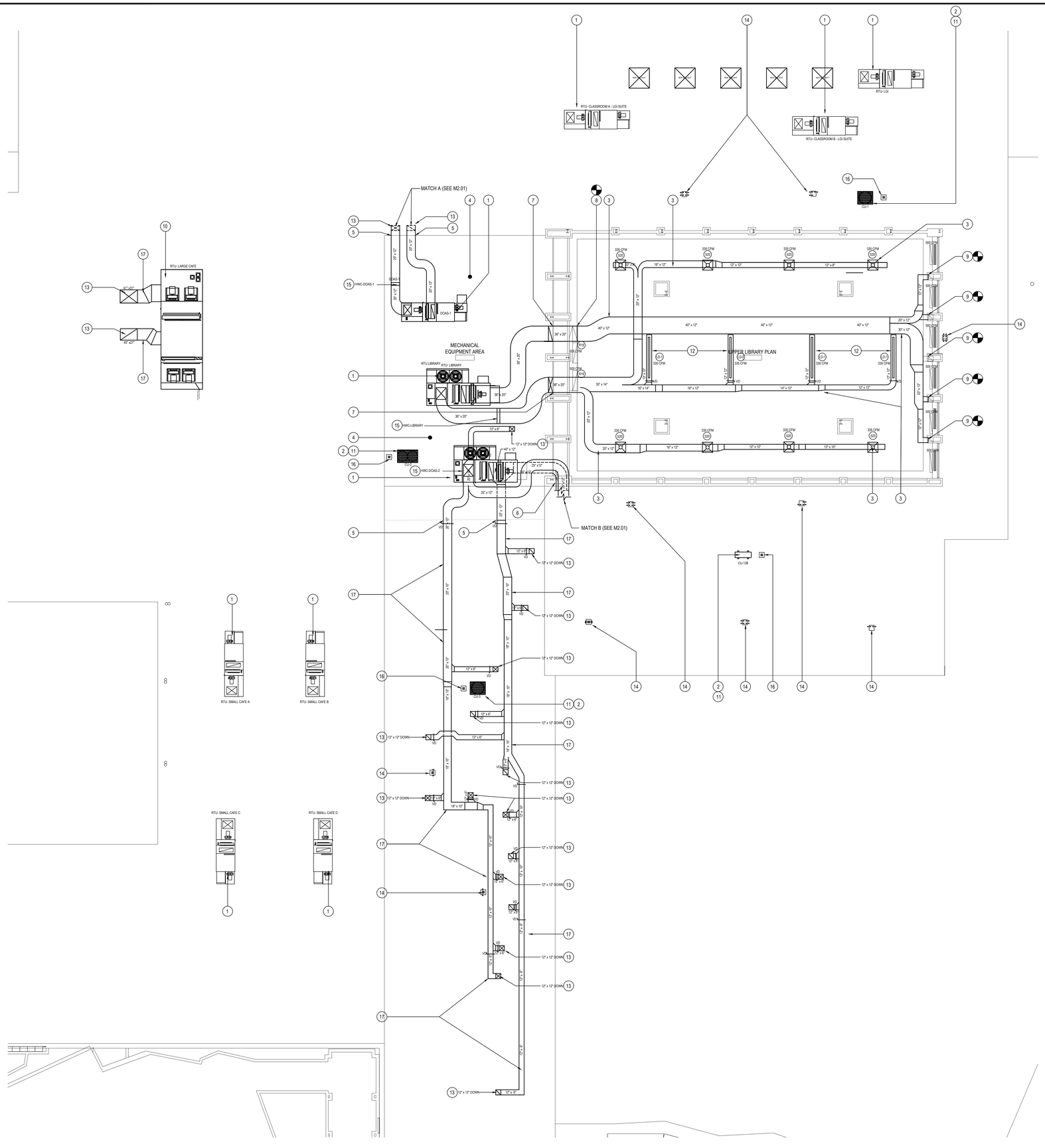
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR VRF and CONDENSATE PIPING PLAN
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M2.06



AREA "A/ B" ROOF MECHANICAL NEW WORK PLAN

NOTE:

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

NEW ADDITION-AREA "A" - NEW MECHANICAL WORK-KEY PLAN NOTES

1. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT AS SHOWN. MC TO FURNISH NEW ROOF CURB FROM APPROVED ROOFTOP MANUFACTURER. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS, STEEL SUPPORTS /ANGLES BENEATH AN ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC. GC TO PERFORM ALL WORK ON THE ROOF AS TO MAINTAIN OWNERS WARRANTY
2. MC SHALL FURNISH & INSTALL NEW OUTDOOR CONDENSING UNIT SHOWN ON PLANS. MC TO PROVIDE AND FURNISH WITH ALL ACCESSORIES, GC TO INSTALL AND FLASH SUPPORT RAILS FROM APPROVED CONDENSING UNIT MANUFACTURER. MC TO THEN INSTALL CONDENSING UNIT & FASTEN ALL FOUR SIDES WITH TIE DOWN CLIPS. FOR REFRIGERANT PIPING PENETRATIONS THROUGH ROOF, MC TO PROVIDE AND GC TO INSTALL NEW PIPE PORTAL CURB. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY
3. MC TO INSTALL ALL DUCT WORK IN CEILING OF LIBRARY. MC TO FURNISH AND PROVIDE VOLUME DAMPERS PRIOR TO ALL AIR OUTLETS. MC TO BALANCE AS INDICATED ON THE PLAN
4. MC TO INSTALL NEW DUCTWORK LOCATED IN AREA OF RAISED ROOF, ACCESSIBLE THRU MULTIPLE ROOF HATCHES. REFER TO SECTION ON ARCHITECTURAL SET
5. MC TO PENETRATE ELEVATED ROOF AREA SIDE WALL. MC TO FLASH AND PATCH AS NECESSARY. MC TO COORDINATE AS NECESSSARY. MC TO CONTINUE DUCT RUN ON ROOF. MC TO PROVIDE ALL SUPPORTS & INSULATE WITH WATERPROOF WRAPPING/ INSULATION AS PER SPEC
6. MC TO DROP NEW DUCTWORK INTO SOFFIT & CONTINUE IN CEILING OF FIRST FLOOR, DRAWING M2.01. ANY GC TO MAKE ANY AND ALL MODIFICATIONS TO SOFFIT FOR PROPER INSTALLATION, MC TO COORDINATE WITH GC.
7. MC TO RUN NEW DUCTWORK THRU WALL INTO UPPER CEILING OF LIBRARY THRU EXISTING OPENING, DUCTWORK TO RUN PARTIALLY EXPOSED THRU RAISED ROOF AREA IN ORDER TO MAINTAIN A CLEAR PATH INTO UPPER CEILING OF LIBRARY. ADDITIONAL DUCTWORK SHOWN ON M2.01. MC TO REUSE OPENING IN WALL. MC TO MODIFY AND WALL PATCH AROUND NEW DUCTWORK, MC TO MAKE ANY NECESSARY MODIFICATIONS TO EXISTING OPENING FOR INSTALLATION. MC TO INSULATE AND FLASH DUCTWORK INTO OPENING.
8. MC TO RUN NEW DUCTWORK & CONNECT TO EXISTING DUCT STUBS TO FEED TO NEW RETURN GRILLES AT EXISTING LOCATION ON WALL, ADDITIONAL DUCTWORK SHOWN ON M2.01, MC TO MAKE ANY NECESSARY MODIFICATIONS TO EXISTING OPENINGS FOR INSTALLATION
9. MC TO RUN NEW DUCTWORK & CONNECT TO EXISTING DUCT STUBS TO FEED TO FEED EXISTING RETURN GRILLES AT EXISTING LOCATION ON UPPER SILL IN LIBRARY, ADDITIONAL DUCTWORK SHOWN ON M2.01, MC TO MAKE ANY NECESSARY MODIFICATIONS TO EXISTING OPENINGS FOR INSTALLATION
10. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT (RTU-LARGE CAFE) AS SHOWN, WITH WITH SIDE DISCHARGE. MC TO PROVIDE CURB & GC TO INSTALL AND FLASH NEW ROOF CURB FROM APPROVED ROOFTOP MANUFACTURER. MC TO RUN DUCTWORK ON ROOF TO PENETRATIONS WITH NECESSARY SUPPORTS AND ACCESSORIES. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY.
11. MC SHALL RUN REFRIGERANT PIPING WITH LENGTHS AND SIZES AS SHOWN ON THE DIAGRAM ON M6.11& M6.12. MC TO HAVE SPLIT SYSTEM APPROVED MANUFACTURER COME OUT AND MARK UP EXACT LOCATIONS PRIOR TO GENERATING SUBMITTAL. MC TO PROVIDE AND GC TO INSTALL/ FLASH NEW PIPE PORTAL SYSTEM INTO ROOF. MC TO RUN NEW REFRIGERANT PIPING LINE SET ON THE ROOF WITH SUPPORTS, AS PER SPEC, TO NEW OUTDOOR CONDENSING UNIT AS SHOWN. FOR NEW SUPPORTS, REFER TO DETAILS PLANS. FOR NEW OUTDOOR UNIT, MC SHALL HAVE APPROVED SPLIT SYSTEM MANUFACTURER PROVIDE SUPPORT RAILS WHICH GC SHALL INSTALL & FLASH . MC TO THEN FASTEN UNIT TO SUPPORTS WITH TIE DOWN CLIPS. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY
12. MC TO INSTALL NEW SINGLE SLOT 8' LINEAR DIFFUSER IN CEILING AS SHOWN. MC TO CONSTRUCT PLENUM BOX IN CEILNG OF LIBRARY IN LOCATION SHOWN. PLENUM BOX TO BE 12" X 12" AND SPAN THE FULL DISTANCE OF THE LINEAR SLOT DIFFUSER.. MC TO INSTALL COLUME DAMPER IN DUCT BRANCH PRIOR TO LINEAR SLOT DIFFUSER. MC TO COORDINATE WITH GC FOR FINAL LOCATIONS.
13. MC TO PENETRATE DUCTWORK THRU ROOF AS SHOWN, REFER TO DETAIL ON M6.01 FOR FURTHER INFO. GC RESPONSIBLE FOR ALL DUCTWORK ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK. IN ORDER TO MAINTAIN THE ROOFING MANUFACTURERS WARRANTY
14. MC TO PROVIDE AND GC TO INSTALL NEW PORTALS PLUS 5-HOLE PIPE PORTAL FLASHING SYSTEM THRU ROOF, FOR NEW CONDENSATE PIPING FROM BELOW. MC TO TERMINATE CONDENSATE PIPING ONTO ROOF IN DOWN TURN. MC TO FURNISH WITH BUGSCREEN.ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY
15. MC TO INSTALL NEW DUCT MOUNTED HOT WATER COIL AS TAGGED, MC TO INSTALL ON DUCTWORK LOCATED WITHIN ROOF PLENUM SPACE. MC TO REFER TO M6.05 FOR FURTHER INFORMATION ON HOT WATER COIL. MC TO TRANSITION DUCTWORK TO ACCOMMODATE COIL AS NECESSARY FOR INSTALLATION. MC TO REFER TO M2.02 FOR HOT WATER PIPING PLAN FOR PIPE SIZING TO COIL. MC TO RUN ALL PIPING WITHIN ROOF PLENUM SPACE TO REACH NEW HOT WATER COIL
16. MC TO PROVIDE AND GC TO INSTALL NEW PORTALS PLUS 5-HOLE PIPE PORTAL FLASHING SYSTEM THRU ROOF, FOR NEW VRF PIPING FROM ADJACENT UNIT. MC TO COORDINATE FINAL INSTALL LOCATION WITH MC. PORTAL LOCATION TO BE RELOCATED FOR IDEAL REFRIGERANT FLOW. ALL VRF PIPING TO AND FROM PORTAL, RAN ON ROOF. TO BE SUPPORTED WITH ROLLER TYPE ELEVATED PIPING SUPPORTS AS PER SPEC. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY
17. MC TO INSTALL DUCTWORK AS SHOWN ON ON ROOF. MC TO PROVIDE ALL SUPPORTS & INSULATE WITH WATERPROOF WRAPPING/ INSULATION AS PER SPEC/ DETAIL #9 ON M6.01 . ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY

GENERAL NOTES:

1. FOR ALL NEW ROOFTOP (RTU) UNITS SHOWN, GC TO CUT SUPPLY AIR DUCTWORK OPENING & RETURN AIR OPENING IN ROOF. MC TO PROVIDE NEW ROOF CURB FOR EACH ROOFTOP FROM APPROVED ROOFTOP UNIT MANUFACTURER. GC TO INSTALL
2. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY
3. MC SHALL FURNISH & INSTALL NEW P-TRAPS ON NEW ROOFTOP UNITS PROVIDED FROM APPROVED ROOFTOP UNIT MANUFACTURER.
4. FOR NEW OUTDOOR CONDENSING UNIT (CU-138), MC TO HAVE APPROVED OUTDOOR CONDENSING UNIT MANUFACTURER PROVIDE SUPPORT RAILS FOR GC TO INSTALL & FLASH
5. FOR NEW OUTDOOR CONDENSING UNIT (CU-1, CU-2, CU-3), MC TO HAVE APPROVED OUTDOOR CONDENSING UNIT MANUFACTURER PROVIDE SUPPORT RAILS FOR GC TO INSTALL & FLASH

REV.	DATE	ITEM
03	03/12/25	BID ADD. NO. 03

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR DUCTWORK
LAYOUT PLAN - AREAS A' and B'

DRAWING BY: GWT

CHECK BY: UF

NOTICE

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PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR DUCTWORK LAYOUT PLAN - AREAS A' and B'
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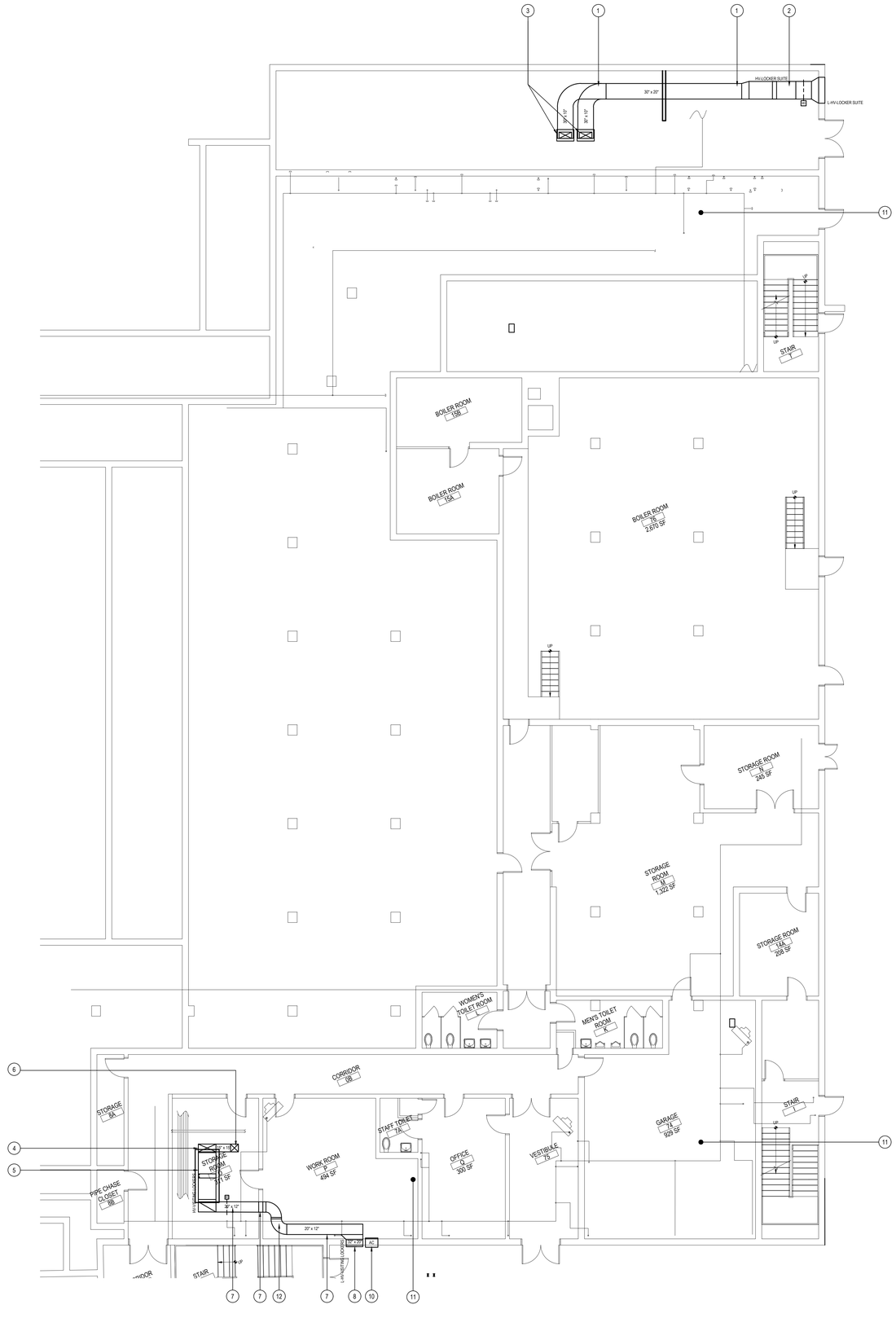
M2.07



AREA "C" BASEMENT MECHANICAL NEW WORK PLAN

NOTE:

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

BASEMENT-AREA "C" - NEW DUCTWORK KEY PLAN NOTES

1. MC TO RUN NEW 30X20 SUPPLY DUCT OVER FROM NEW HUNG HV UNIT (HV-LOCKER SUITE) IN ACCESSIBLE MACHINE ROOM. MC TO SPLIT DUCT & TRANSITION INTO (2) 30X10 DUCTS. REFER TO HOT WATER PIPING PLAN M2.09 FOR FURTHER INFORMATION FOR HWS/HWR PIPING CONNECTIONS TO/FROM NEW HEATING COIL.
2. MC TO HANG NEW HV UNIT (HV-LOCKER SUITE) FROM CEILING OF MACHINE ROOM, MC TO TRANSITION NEW DUCTWORK AS SHOWN TO NEW 50X36 INTAKE LOUVER IN EXISTING OPENING IN EXTERIOR WALL. MC TO FURNISH AND INSTALL WITH ALL NECESSARY SUPPORTS AND ACCESSORIES
3. MC TO PENETRATE FLOOR AS NECESSARY FOR NEW 30X10 SUPPLY DUCT(S) UP TO CEILING OF 1ST FLOOR LOCKER ROOMS. SEE DRAWING M2.10 FOR CONTINUATION
4. MC TO RUN NEW 15X15 SUPPLY DUCT OVER FROM NEW HUNG HV UNIT (HV-VISITING LOCKERS) IN BASEMENT STORAGE ROOM. REFER TO HOT WATER PIPING PLAN FOR DETAILS OF HWS/HWR PIPING CONNECTIONS TO/FROM NEW HEATING COIL.
5. MC TO INSTALL NEW HV UNIT (HV-LOCKER SUITE) ON NEW 4" REINFORCED CONCRETE HOUSEKEEPING PAD, BY GC, IN STORAGE ROOM, MC TO COORDINATE WITH THE DISTRICT FOR REMOVAL OF ANY SHELVING OR STORED OBJECTS WHICH MAY HINDER THE INSTALLATION OF THE HV UNIT. MC TO FURNISH WITH VIBRATION INSOLATING SUPPORTS AND ALL NECESSARY ACCESSORIES
6. MC TO PENETRATE FLOOR AS NECESSARY FOR NEW 15X15 SUPPLY DUCT UP TO CEILING OF 1ST FLOOR VISITING LOCKERS. SEE DRAWING M2.10 FOR CONTINUATION
7. MC TO INSTALL NEW 20X12 DUCTWORK AS SHOWN,MC TO MAKE ALL PENETRATIONS IN WALL & FURNISH WITH HOUR RATED FIRE DAMPER
8. MC TO PROVIDE AND INSTALL NEW 32"X20" INTAKE LOUVER. MC TO FURNISH WITH BUG SCREEN & ALL NECESSARY ACCESSORIES FOR INSTALLATION IN NEW BLANKED OUT WINDOW PANEL,MC TO PROVIDE NEW BLANK OUT PANEL AND MAKE ALL NECESSARY MODIFICATIONS TO OPENING TO ENSURE TIGHT & WEATHERPROOF INSTALLATION.
9. MC TO NOTE LOCATIONS OF ALL EXISTING PIPING IN STORAGE ROOM, ALL EXISTING TO REMAIN. MC TO COORDINATE INSTALL OF NEW EQUIPMENT/ DUCTWORK AROUND ALL EXISTING PIPING
10. MC TO REINSTALL PREVIOUSLY REMOVED AC UNIT IN OPENING NEXT TO NEW LOUVER. MC TO PROVIDE NEW BLANK OUT PANEL AND MAKE ALL NECESSARY MODIFICATIONS TO OPENING TO ENSURE TIGHT & WEATHERPROOF INSTALLATION.
11. EXISTING PIPING TO REMAIN, SEE M2.09 FOR FURTHER INFORMATION
12. DUCTWORK TO BE INSTALLED UNDER EXISTING PIPING

GENERAL NOTES:

1. ALL NEW SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE LAY-IN TYPE FOR 24X24 AND ALL OTHER SIZES SHALL BE SURFACE MOUNTED.
2. ALL DUCTWORK SIZES INDICATED ON PLANS.
3. ALL SUPPLY DIFFUSER NECK SIZES ON SUPPLY AIR OUTLET SCHEDULES.
4. MC TO COORDINATE ALL WORK WITH ALL OTHER PROJECT TRADES.
5. PROVIDE VOLUME DAMPERS (VD) AT ALL BRANCHES OF DUCTWORK AS SHOWN
6. MC TO REFER TO EXISTING BUILDING NEW WORK PLANS FOR ALL NEW EQUIPMENT, NEW PIPING, NEW DUCTWORK ETC IN EXISTING BUILDING FOR FURTHER DETAILS OF WORKSCOPE.
7. ALL WALL RECESSED ELECTRICAL CABINET HEATERS INSETS SHALL BE CUT IN BY MC. MC TO THEN INSTALL. NEW ELECTRICAL CABINET HEATER & EC TO PROVIDE POWER.
8. MC TO SURVEY ALL AREAS OF NEW WORK FOR LOCATIONS OF EXISTING FIRE SPRINKLER PIPING

REV.	DATE	ITEM

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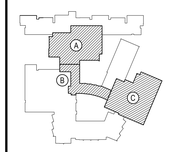

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

BASEMENT DUCTWORK
DUCTWORK LAYOUT PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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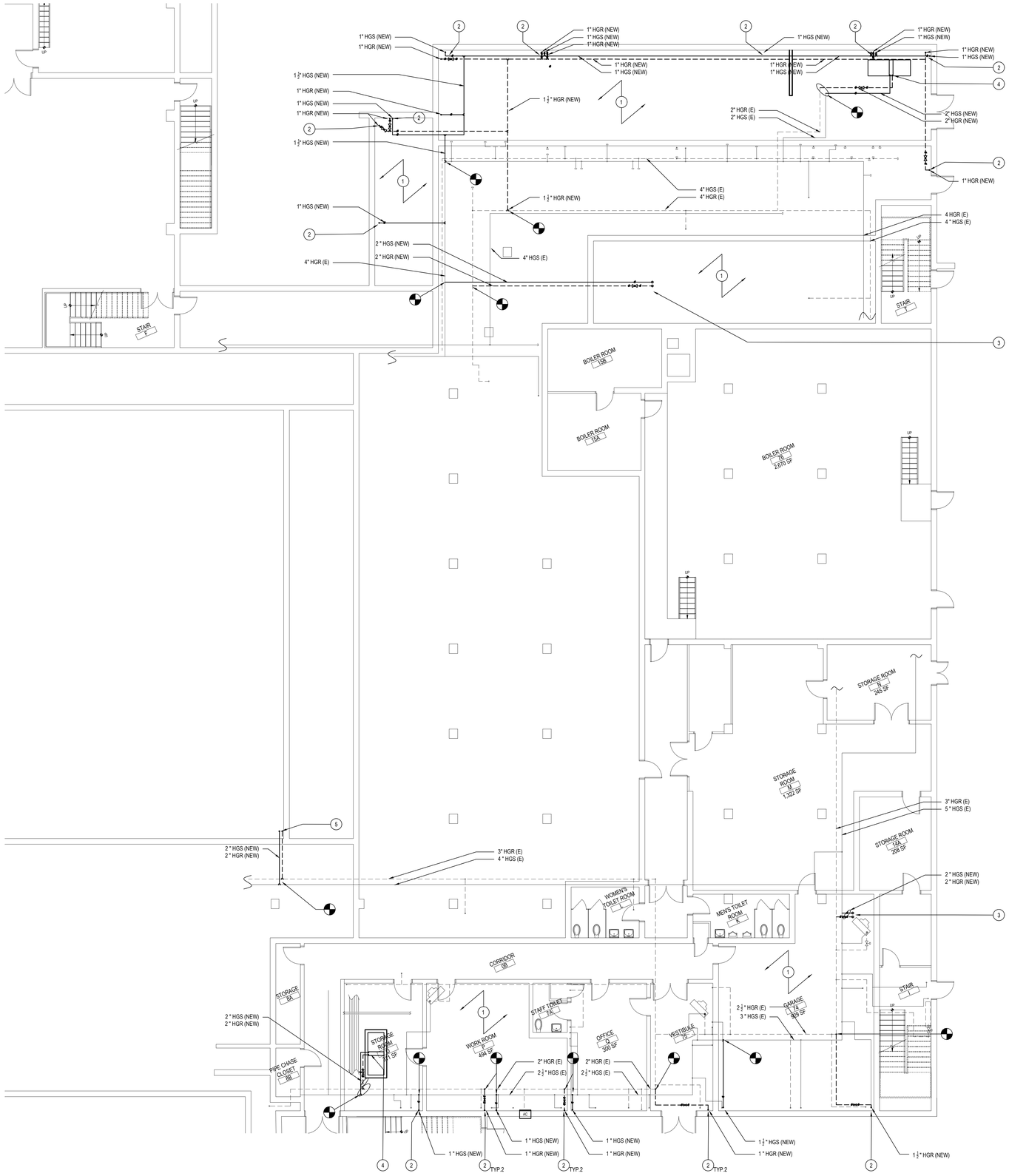

AREA "C" BASEMENT HYDRONIC PIPING NEW WORK PLAN

NOTE:

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

BASEMENT-AREA "C" - NEW HYDRONIC PIPING KEY PLAN NOTES

1. MC TO INSTALL NEW HOT WATER PIPING IN CRAWLSPACE AS SHOWN, MC TO FURNISH WITH ALL HANGERS, CONTROL VALVES, CHECK VALVES AS NECESSARY. REFER TO PLAN M2.11 FOR CONTINUATION.
2. MC TO INSTALL NEW HOT WATER PIPING AS NOTED UP TO THE ASSOCIATED FINTUBE RADIATOR IN THE LOCKER ROOM ABOVE, PIPING TO BE INSTALLED WITH THE CORNER CHASE, BY GC. MC TO REFER TO BALANCING VALVE DETAIL #3 ON M6.01 FOR FURTHER INFORMATION PERTAINING TO INSTALLATION. MC TO FURNISH WITH ALL HANGERS CONTROL VALVES, CHECK VALVES AS NECESSARY. MC RESPONSIBLE FOR MAKING ALL NECESSARY FLOOR PENETRATIONS. MC TO COORDINATE ALL NECESSARY CHASES WITH GC. REFER TO PLAN M2.10 FOR CONTINUATION.
3. MC TO BRING NEW HOT WATER PIPING UP FROM CRAWLSPACE THRU STORAGE CLOSET ABOVE INTO THE DROP CEILING, MC TO REFER TO DRAWING M2.11 FOR CONTINUATION
4. MC TO CONNECT PIPING AS SHOWN TO NEW HVAC UNIT, MC TO REFER TO BALANCING VALVE DETAIL #3 ON M6.01 FOR FURTHER INFORMATION PERTAINING TO INSTALLATION. MC TO FURNISH WITH ISOLATION VALVES, CONTROL VALVES, CHECK VALVES AS NECESSARY. REFER TO PLAN M2.07 FOR FURTHER INFORMATION.
5. MC TO BRING NEW HOT WATER PIPING UP FROM CRAWLSPACE THRU CASE WALL UP TO CEILING OF GYM, MC TO REFER TO DRAWING M2.11 FOR CONTINUATION

GENERAL NOTES:

1. FOR ALL HWS & HWR PIPING, ALL SIZES ARE INDICATED ON THE PLANS.
2. FOR ALL EQUIPMENT WHICH USES HOT WATER PIPING FOR HEATING SOURCE, MC SHALL FURNISH & INSTALL A DDC 3-WAY MODULATING HOT WATER CONTROL VALVE. REFER TO SCHEMATIC DIAGRAMS FOR VALVE ,COIL CONNECTION DETAILS, BALANCING VALVE, SHUT OFF VALVE, CHECK VALVE DETAILS.
3. PROVIDE FLEXIBLE PIPING CONNECTIONS FOR HWS & HWR LINES TO/FROM EACH EQUIPMENT USING HOT WATER COILS.
4. MC SHALL COORDINATE NEW PIPING RUNS WITH NEW SPRINKLER LINES, NEW DUCTWORK, NEW PLUMBING LINES, & NEW ELECTRICAL CONDUIT LINES.
5. REFER TO PIPING DETAILS FOR ALL VALVE & PIPING ACCESSORIES DETAILS.
6. MC SHALL BE RESPONSIBLE TO FURNISH & INSTALL NEW DDC 3-WAY MODULATING HOT WATER CONTROL VALVES THAT ARE TO BE SIZED BY CONTROLS SUBCONTRACTOR IN CONTROLS SUBMITTAL PHASE.

MC NOTES:

MC TO INSTALL ISOLATION VALVES PRIOR TO ALL HYDRONIC HEATING EQUIPMENT ON BOTH THE HWR AND HWS LINES.

MC TO INSTALL BALANCE VALVE ON THE HWR FOR ALL HYDRONIC EQUIPMENT

MC TO NOTE THE HOT WATER SYSTEM CONTAINS 40% GLYCOL

MC TO TEST AND ADD GLYCOL TO SYSTEM TO REACH 40%

REV.	DATE	ITEM

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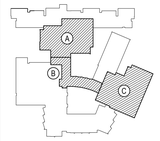

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

BASEMENT HYDRONIC
PIPING PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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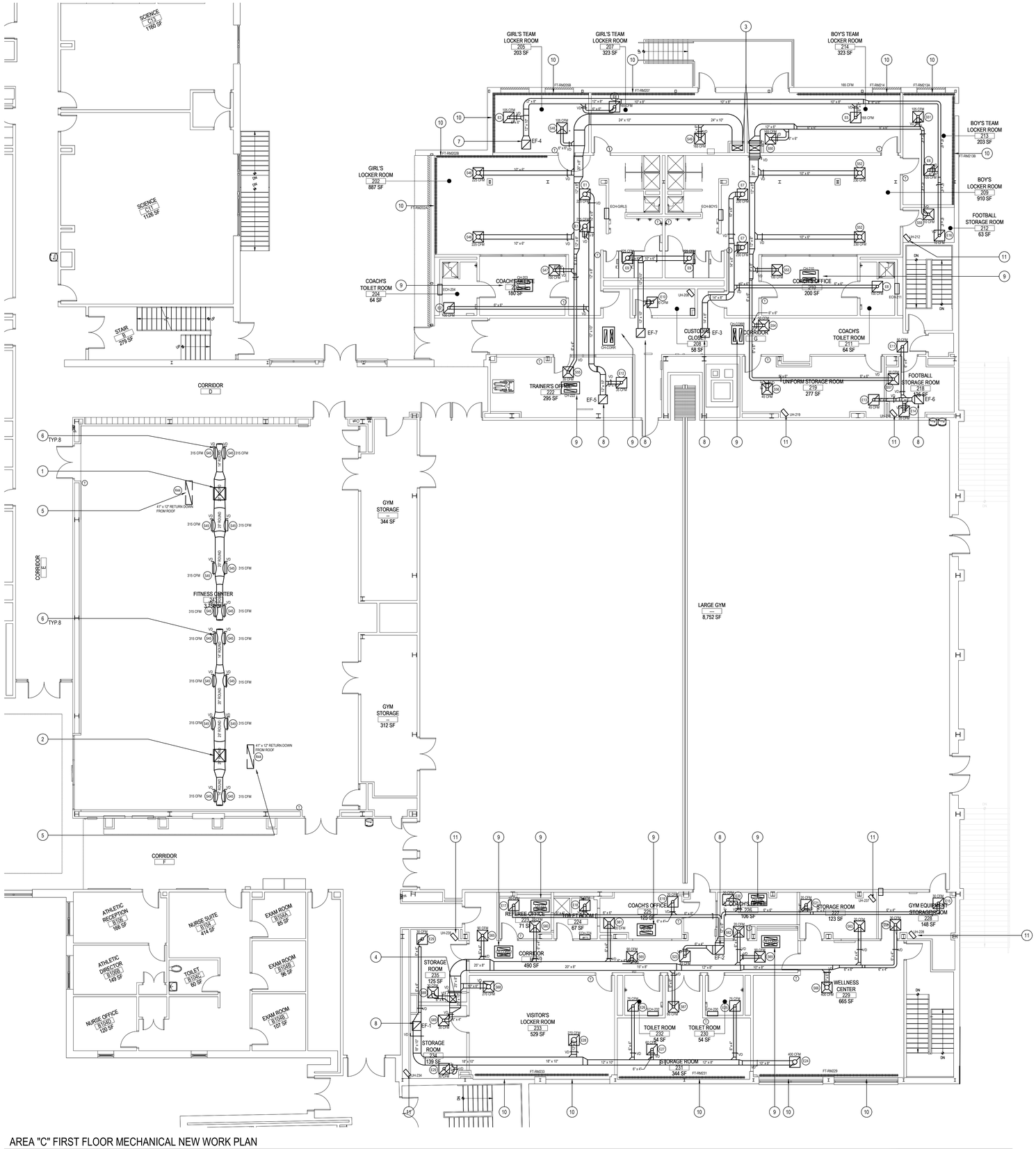

AREA "C" FIRST FLOOR MECHANICAL NEW WORK PLAN

NOTE:

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

FIRST FLOOR-AREA "C" - NEW DUCTWORK KEY PLAN NOTES

1. MC TO RUN NEW 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU- SMALL GYM A) ON ROOF ABOVE TO NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-SMALL GYM A). DUCTWORK TO THEN TRANSITION TO 28X28X28 DEEP SUPPLY PLENUM BOX AS SHOWN. ON EACH SIDE MC TO RUN NEW 25" ROUND CIRCULAR SPIRAL DUCTWORK AS SHOWN WITH VOLUME DAMPERS. SEE DRAWING M2.12 FOR CONTINUATION. REFER TO HYDRONIC PIPING PLAN ON M2.11 FOR DETAILS OF HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL.
2. MC TO RUN NEW 28X24 SUPPLY DUCT DOWN FROM NEW ROOFTOP UNIT (RTU- SMALL GYM B) ON ROOF ABOVE TO NEW VERTICALLY-DUCTWORK MOUNTED HOT WATER DUCT COIL (HWC-SMALL GYM B). DUCTWORK TO THEN TRANSITION TO 28X28X28 DEEP SUPPLY PLENUM BOX AS SHOWN. ON EACH SIDE MC TO RUN NEW 25" ROUND CIRCULAR SPIRAL DUCTWORK AS SHOWN WITH VOLUME DAMPERS.SEE DRAWING M2.12 FOR CONTINUATION. REFER TO HYDRONIC PIPING PLAN ON M2.11 FOR DETAILS OF HWS/HWR PIPING CONNECTIONS TO/FROM NEW DUCT HEATING COIL.
3. MC TO PENETRATE FLOOR AS NECESSARY FOR NEW 24X10 SUPPLY DUCT(S) UP TO CEILING OF 1ST FLOOR LOCKER ROOMS, FROM MACHINE ROOM BELOW. MC TO COORDINATE LOCATIONS AND INSTALL DUCTWORK IN CHASE PROVIDED BY GC. SEE DRAWING M2.08 FOR CONTINUATION
4. MC TO PENETRATE FLOOR AS NECESSARY FOR NEW 15" x 15" SUPPLY DUCT UP TO CEILING OF 1ST FLOOR VISITING LOCKERS, FROM BASEMENT STORAGE ROOM. MC TO COORDINATE LOCATIONS AND INSTALL DUCTWORK IN CHASE PROVIDED BY GC. SEE DRAWING M2.08 FOR CONTINUATION
5. MC TO FURNISH AND INSTALL NEW 42X12 RETURN DUCTWORK IN CEILING FROM RTU ABOVE, PROVIDE WIRE SCREEN
6. MC TO FURNISH AND INSTALL NEW DUCT MOUNTED DIFFUSERS TO NEW SPIRAL DUCTWORK. FURNISH WITH VOLUME DAMPER TO DESIGNATED CFM
7. MC TO INSTALL NEW EXHAUST DUCTWORK UP THRU ROOF TO NEW EXHAUST FAN EF-4. MC TO CUT OPENING IN ROOF , REFER TO CUT SHEET.FOR NECESSARY DIMENSIONS OF OPENING. REFER TO DRAWING M2.12 FOR ADDITIONAL INFORMATION. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS ,STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY
8. MC TO INSTALL NEW EXHAUST DUCTWORK UP THRU EXISTING ROOF CURB TO NEW EXHAUST FAN (NOTED).REFER TO DRAWING M2.12 FOR ADDITIONAL INFORMATION
9. MC TO INSTALL NEW HW CABINET UNIT HEATER FLUSH TO CEILING, MC TO CONNECT TO PIPING AS SHOWN IN NEW HYDRONIC PIPING PLAN M2.11 , SIZE AS SHOWN. MC TO FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, REFER TO SCHEDULE ON M6.07 FOR FURTHER INFORMATION.
10. MC TO INSTALL NEW HOT WATER WALL MOUNTED BASEBOARD FINTUBE WITH SLOPE TOP & BOTTOM TYPE COVERS ABOVE NEW LOCKERS. MC TO CONNECT TO HW PIPING LOCATED IN CRAWLSPACE BELOW. MC TO COORDIATE WITH GC FOR FINAL LOCATIONS AND ELEVATIONS. MC TO REFER TO HYDRONIC PIPING PLAN M2.09 & M2.11 FOR FURTHER INFORMATION. REFER TO DRAWING M6.07 FOR FULL SCHEDULE AND DETAILS.
11. MC TO INSTALL NEW CEILING HUNG HW UNIT HEATER CONNECT TO PIPING AS SHOWN IN NEW HYDRONIC PIPING PLAN M2.11 , SIZE AS SHOWN. MC TO FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, MC TO COORDINATE WITH GC FOR FINAL INSTALL LOCATION. REFER TO SCHEDULE ON M6.07 FOR FURTHER INFORMATION.

GENERAL NOTES:

1. ALL NEW SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE LAY-IN TYPE FOR 24X24 AND ALL OTHER SIZES SHALL BE SURFACE MOUNTED.
2. ALL DUCTWORK SIZES INDICATED ON PLANS.
3. ALL SUPPLY DIFFUSER NECK SIZES ON SUPPLY AIR OUTLET SCHEDULES.
4. MC TO COORDINATE ALL WORK WITH ALL OTHER PROJECT TRADES.
5. PROVIDE VOLUME DAMPERS (VD) AT ALL BRANCHES OF DUCTWORK AS SHOWN
6. MC TO REFER TO EXISTING BUILDING NEW WORK PLANS FOR ALL NEW EQUIPMENT, NEW PIPING, NEW DUCTWORK ETC IN EXISTING BUILDING FOR FURTHER DETAILS OF WORKSCOPE.
7. ALL WALL RECESSED ELECTRICAL CABINET HEATERS INSETS SHALL BE CUT IN BY MC. MC TO THEN INSTALL. NEW ELECTRICAL CABINET HEATER & EC TO PROVIDE POWER.
8. MC TO SURVEY ALL AREAS OF NEW WORK FOR LOCATIONS OF EXISTING FIRE SPRINKLER PIPING

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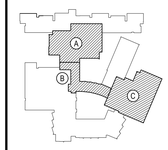

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PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR
DUCTWORK LAYOUT PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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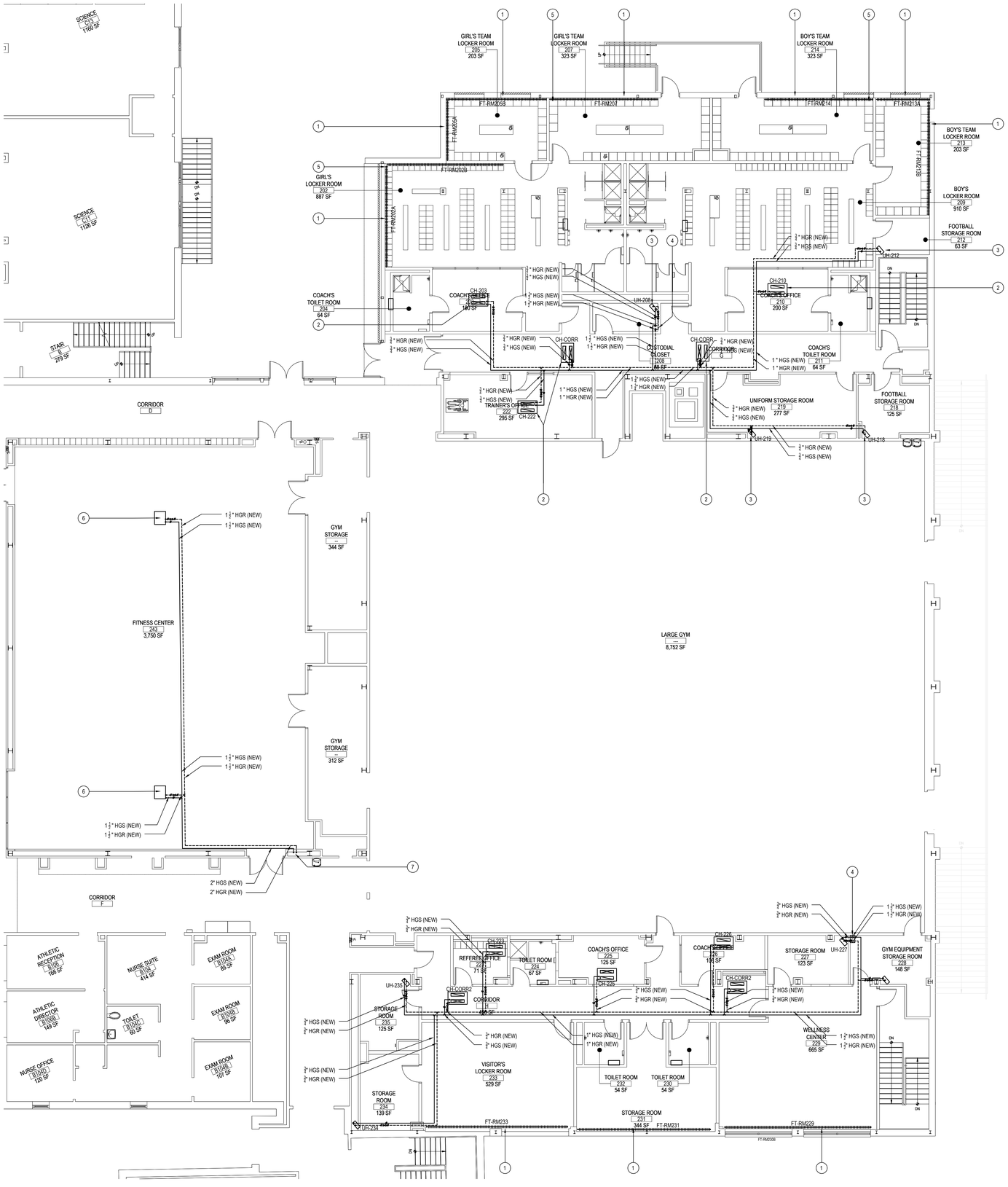

AREA "C" FIRST FLOOR HYDRONIC PIPING NEW WORK PLAN

NOTE:

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

FIRST FLOOR-AREA "C" - NEW HYDRONIC PIPING KEY PLAN NOTES

1. MC TO INSTALL NEW HOT WATER WALL MOUNTED BASEBOARD FINTUBE WITH SLOPE TOP & BOTTOM TYPE COVERS ABOVE NEW LOCKERS. MC TO CONNECT TO EXISTING HW PIPING LOCATED IN CRAWLSPACE BELOW. MC TO FURNISH WITH ALL HANGERS CONTROLVALVES, CHECK VALVES AS NECESSARY. REFER TO PLAN M2.09 FOR CONTINUATION. MC TO COORDIATE WITH GC FOR FINAL LOCATIONS AND ELEVATIONS. REFER TO DRAWING M6.07 FOR FULL SCHEDULE AND DETAILS. MC TO INSTALL & FURNISH AS PER DETAIL ON M6.01
2. MC TO INSTALL NEW FLUSH CEILING MOUNTED HW CABINET UNIT HEATER. MC TO RUN PIPING IN CEILING AS SHOWN, MC TO FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, MC TO COORDINATE WITH GC FOR FINAL INSTALL LOCATION. REFER TO SCHEDULE ON M6.07 FOR FURTHER INFORMATION. MC TO INSTALL & FURNISH AS PER DETAIL ON M6.01
3. MC TO INSTALL CEILING HUNG HW UNIT HEATER. MC TO RUN PIPING IN CEILING AS SHOWN, MC TO FURNISH WITH ALL VALVES, HANGERS AND ACCESSORIES AS NECESSARY, MC TO COORDINATE WITH GC FOR FINAL INSTALL LOCATION. REFER TO SCHEDULE ON M6.07 FOR FURTHER INFORMATION. MC TO INSTALL & FURNISH AS PER DETAIL ON M6.01
4. MC TO INSTALL & BRING NEW HOT WATER PIPING FROM CRAWLSPACE BELOW UP THRU STORAGE CLOSET TO DROP CEILING, MC TO REFER TO DRAWING M2.09 FOR CONTINUATION
5. MC TO INSTALL TO RUN HW PIPING BACK TO CORNER CHASE IN LOCKERS, PIPING TO BE CONTAINED WITHIN FINTUBE ENCLOSURE WHERE IT THEN DROPS DOWN TO THE CRAWLSPACE BELOW. MC TO REFER TO M2.08 FOR CONTINUATION OF PIPING
6. MC TO CONNECT PIPING AS SHOWN TO NEW VERTICALLY MOUNTED HEATING COIL UNIT, MC TO REFER TO BALANCING VALVE DETAIL #3 ON M6.01 FOR FURTHER INFORMATION PERTAINING TO INSTALLATION. MC TO FURNISH WITH ISOLATION VALVES, CONTROL VALVES, CHECK VALVES AS NECESSARY. REFER TO PLAN M2.10 FOR FURTHER INFORMATION.
7. MC TO INSTALL & BRING NEW HOT WATER PIPING FROM CRAWLSPACE BELOW UP THRU CHASE TO TOP OF CEILING, MC TO REFER TO DRAWING M2.09 FOR CONTINUATION

GENERAL NOTES:

1. FOR ALL HWS & HWR PIPING, ALL SIZES ARE INDICATED ON THE PLANS.
2. FOR ALL EQUIPMENT WHICH USES HOT WATER PIPING FOR HEATING SOURCE, MC SHALL FURNISH & INSTALL A DDC 3-WAY MODULATING HOT WATER CONTROL VALVE. REFER TO SCHEMATIC DIAGRAMS FOR VALVE ,COIL CONNECTION DETAILS, BALANCING VALVE, SHUT OFF VALVE, CHECK VALVE DETAILS.
3. PROVIDE FLEXIBLE PIPING CONNECTIONS FOR HWS & HWR LINES TO/FROM EACH EQUIPMENT USING HOT WATER COILS.
4. MC SHALL COORDINATE NEW PIPING RUNS WITH NEW SPRINKLER LINES, NEW DUCTWORK, NEW PLUMBING LINES, & NEW ELECTRICAL CONDUIT LINES.
5. REFER TO PIPING DETAILS FOR ALL VALVE & PIPING ACCESSORIES DETAILS.
6. MC SHALL BE RESPONSIBLE TO FURNISH & INSTALL NEW DDC 3-WAY MODULATING HOT WATER CONTROL VALVES THAT ARE TO BE SIZED BY CONTROLS SUBCONTRACTOR IN CONTROLS SUBMITTAL PHASE.

MC NOTES:
MC TO INSTALL ISOLATION VALVES PRIOR TO ALL HYDRONIC HEATING EQUIPMENT ON BOTH THE HWR AND HWS LINES.
MC TO INSTALL BALANCE VALVE ON THE HWR FOR ALL HYDRONIC EQUIPMENT
MC TO NOTE THE HOT WATER SYSTEM CONTAINS 40% GLYCOL
MC TO TEST AND ADD GLYCOL TO SYSTEM TO REACH 40%

REV.	DATE	ITEM

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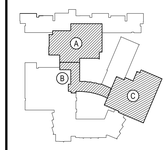

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR
HYDRONIC PIPING PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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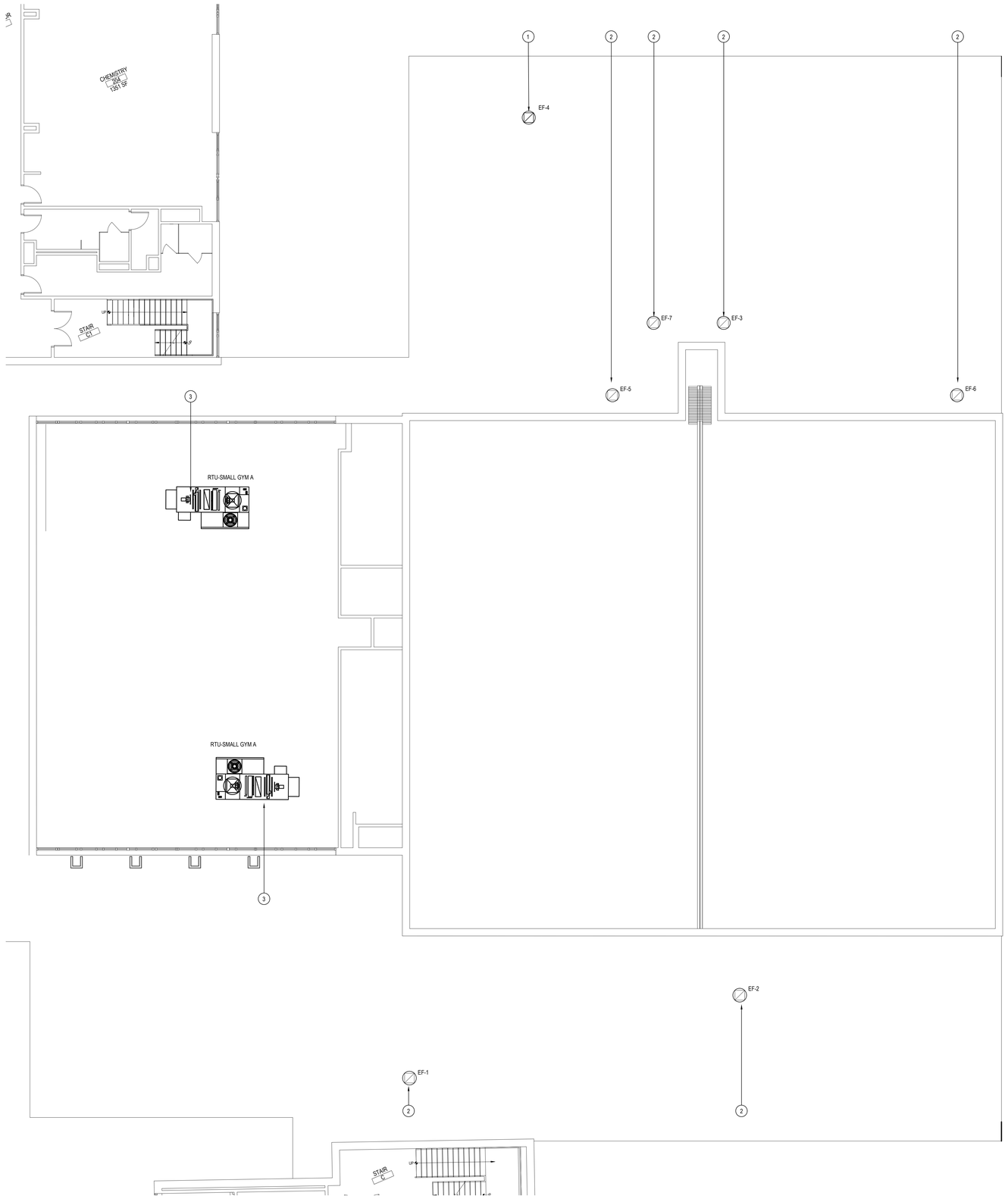
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR HYDRONIC PIPING PLAN - AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M2.11



AREA "C" ROOF MECHANICAL NEW WORK PLAN

NOTE:

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

LOCKER ROOM ROOF -AREA "C" - NEW MECHANICAL WORK-KEY PLAN NOTES

1. MC TO FURNISH & INSTALL NEW ROOFTOP EXHAUST FAN AS SHOWN. GC TO CUT OPENING IN ROOF, REFER TO CUT SHEET FOR NECESSARY DIMENSIONS OF OPENING. MC TO FURNISH, GC TO INSTALL & FLASH NEW EXHAUST FAN ROOF CURB FROM APPROVED FAN MANUFACTURER & FLASH. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS /SUPPORTS, STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY.
2. MC TO FURNISH & INSTALL NEW ROOFTOP EXHAUST FAN AS SHOWN. MC TO PROVIDE, INSTALL & FURNISH EXISTING EXHAUST FAN ROOF CURB WITH CURB ADAPTER FROM APPROVED FAN MANUFACTURER, FOR PROPER INSTALLATION OF NEW EXHAUST FAN.
3. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT AS SHOWN. MC TO MARK AND GC TO CUT 24X28 SUPPLY AIR DUCT OPENING IN ROOF; MC TO MARK AND GC TO CUT 42X12 RETURN AIR DUCT OPENING IN ROOF. MC TO FURNISH, GC TO INSTALL & FLASH NEW ROOF CURB FROM APPROVED ROOFTOP MANUFACTURER. ALL HVAC ROOF PENETRATIONS, ROOFTOP CURBS/SUPPORTS, STEEL SUPPORTS /ANGLES BENEATH AND ROOFING PATCHING ASSOCIATED WITH MECHANICAL WORK IS BY GC, IN ORDER TO MAINTAIN OWNERS ROOFING MANUFACTURER WARRANTY.

EXHAUST FAN SCHEDULE

GREENHECK AS STD.

TAG	MODEL	CFM	ESP	FAN RPM	MOTOR (HP)	INLET SONES	VOLT/PH	*WEIGHT (LBS)	OPTIONS AND ACCESSORIES	NOTES
EF-1	G-099-VG	744	0.50	1378	1/4	9.0	115/1	98.0	1,2,3,4,5,6	
EF-2	G-080-VG	278	0.50	1623	1/10	7.9	115/1	62.0	1,2,3,4,5,7	
EF-3	G-095-VG	560	0.50	1494	1/6	8.6	115/1	85.0	1,2,3,4,5,6	
EF-4	G-095-VG	550	0.50	1486	1/6	8.5	115/1	85.0	2,3,4,5,6,8	
EF-5	G-095-VG	585	0.50	1516	1/6	8.9	115/1	85.0	1,2,3,4,5,6	
EF-6	G-097-VG	115	0.50	1153	1/4	4.8	115/1	78.0	1,2,3,4,5,7	
EF-7	G-090-VG	510	0.50	1600	1/10	7.8	115/1	82.0	1,2,3,4,5,6	

Options / Accessories:

1. Aluminum curb adapter to fit existing roof curb (contractor to verify existing curb dimensions)
2. NEMA 1 disconnect switch factory mounted and wired
3. UL-705 Listing
4. Varible speed motor w/soft start and thermal overload protection
5 Factory mounted speed dial
6. Motorized leakage class 1 damper w/115v actuator and end switches
7. Gravity backdraft damper
8. New roof curb

General Notes:

*Weights include all accessories

EXHAUST FAN SCHEDULE

NOTE: GENERAL SCHEDULE NOTES:

1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE A ROOF CURB AS NOTED IN NOTES ABOVE IN SCHEDULES.
5. PROVIDE BIRDSCREEN FOR EQUIPMENT.

REV.	DATE	ITEM
03	03/12/25	BID ADD. NO. 03

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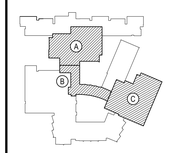

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

ROOF PLAN - AREA 'C'

DRAWING BY: GWT

CHECK BY: - - -

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE ROOF PLAN - AREA 'C'

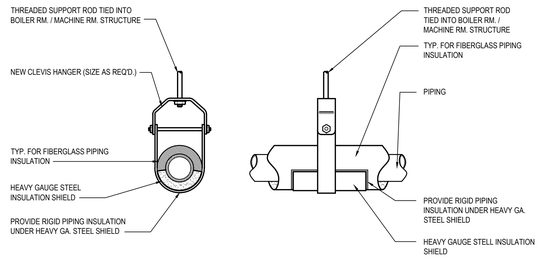
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

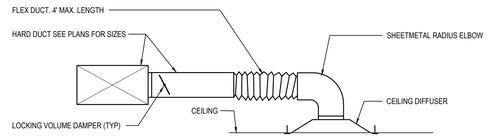
FILE No: 23-131a FLHS

M2.12



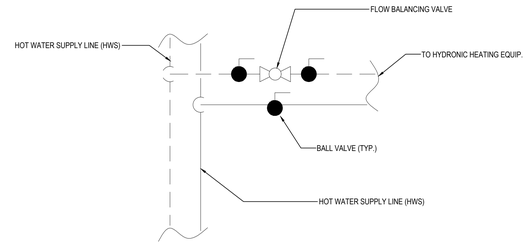
1 CLEVIS HANGER PIPING SUPPORT DETAIL

SCALE: N.T.S.



2 TYPICAL CEILING DIFFUSER INSTALLATION

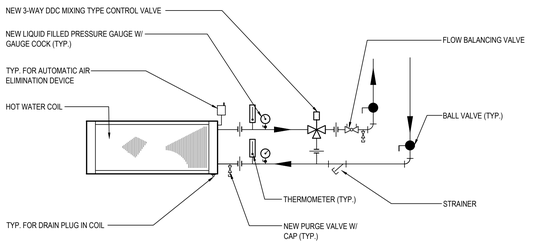
SCALE: N.T.S.



3 BALANCING VALVE DETAIL

TO BE INSTALLED PRIOR TO ALL HYDRONIC HEATING EQUIPMENT

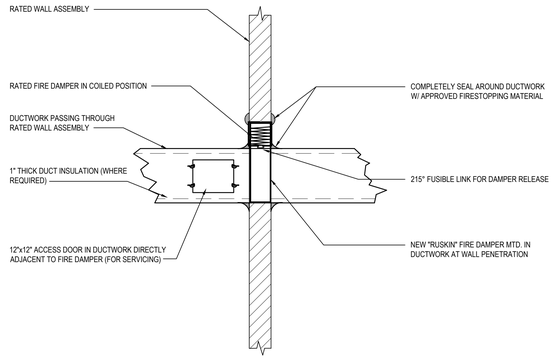
SCALE: N.T.S.



4 3 WAY HOT WATER COIL DETAIL

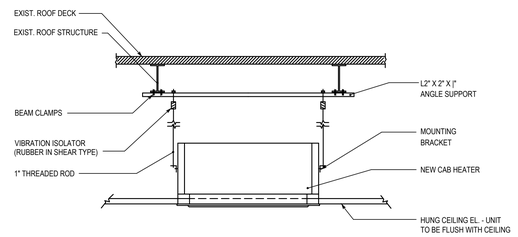
APPLICABLE FOR HOT WATER CABINET HEATERS, UNIT HEATERS, AND OTHER HYDRONIC EQUIPMENT

SCALE: N.T.S.



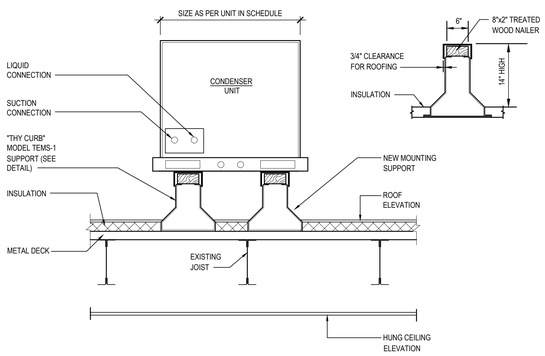
5 DUCT PENETRATION THROUGH RATED ASSEMBLY

SCALE: N.T.S.



6 FLUSH MOUNTED CABINET HEATER DETAIL

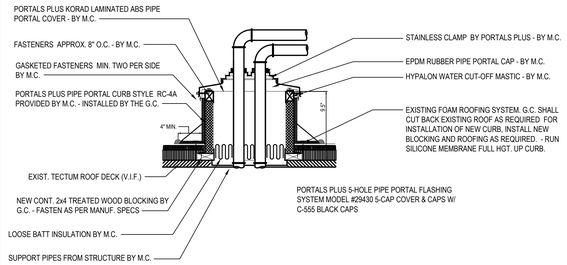
SCALE: N.T.S.



7 CONDENSER UNIT AND SUPPORT

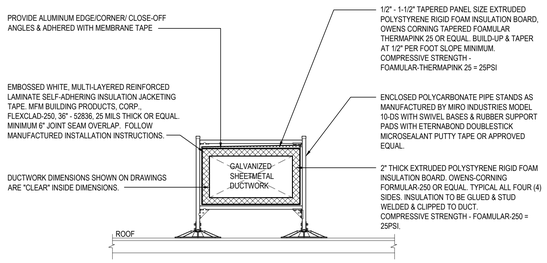
NOTE: ALL ROOF PATCHING BY MC'S CERTIFIED ROOFING SUBCONTRACTOR

SCALE: N.T.S.



8 ROOF PIPING PENETRATION DETAIL

SCALE: N.T.S.



9 EXTERIOR DUCTWORK INSULATION WITH SUPPORTS

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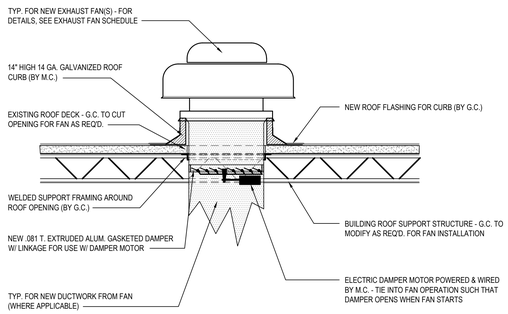

10 NEW ROOF MOUNTED EXHAUST FAN INSTALLATION

SCALE: N.T.S.

REV.	DATE	ITEM

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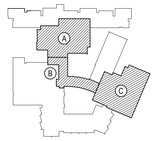

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

MECHANICAL DETAILS

DRAWING BY: GWT

CHECK BY: - - -

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	MECHANICAL DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.01

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Library (REV-4)
Model: RVE-40-30D-10I-0-G2

RVE-40-30D-10I-0-G2

Unit Performance

Design Conditions							
Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Recirc Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	11.0	4,000	829	3,171	829

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	3,032 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration			
Outdoor Air		Exhaust Air	
Intake	Discharge	Intake	Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1-2022 Compliance	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
EER	11.2	11.8	✓
IEER	14.8	19.4	✓
Enthalpy Recovery Ratio (%)	50	77.4	✓

Energy Recovery Performance	Temperature (F)								Capacity Reduction
Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	(BTU/h)
Summer	95.0	78.0	78.9	66.6	75.0	62.5/50	91.1	75.0	38,424.0
Winter	11.0	8.6	58.5	47.4	72.0	55.8/35	22.9	21.3	42,528.0

Cooling Specifications							
Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB) EAT (F)	Coil (DB/WB) LAT (F)	Reheat Capacity (MBH)	Reheat LAT (F)
Packaged DX	119.4	96.5	Inverter Scroll	75.8 / 63.4	53.0 / 53.0	98.1	75.7

Motor Specifications						
Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	4.39	5	ODP	PE	1750
Exhaust	1	0.64	5	ODP	PE	1750

Electrical Specifications					
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	78.6	110.0	70.0	0.936

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s) and control circuiting fusing	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - OA Damper Tracking	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Stop Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - Constant Position-Adj. Setpoint	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	X

Accessories	
Frost Control CycleWheel - Cycle Wheel On/Off	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper - Low Leakage	X
Roof Curb - GKD - 45.9/142.9-G14	X
Supply Air Filters - 2" Merv 13, 4-20x20x2	X
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 2-20x25x2	Std
Outdoor Air Filters - 2" Merv 8, 2-20x25x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	X
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option	Std
Not Included	
Included	X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A
Return Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Requests

Special Design Number
Special Design Request for "Duct mounted hot water coil control (0-10v) from microporcessor", (Q9999999)

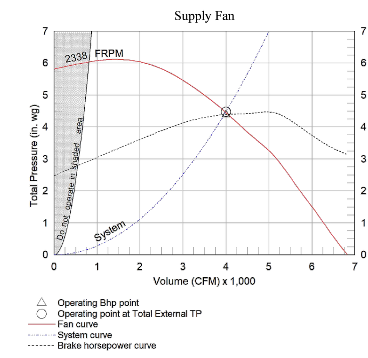
Supply Fan Charts And Performance

Supply Fan Performance					Motor		Fan		
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
4,000	2	4.481	2338	4.39	1	5	1	Plenum	Direct

Pressure Drop (in. wg)							
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.01	0.365	0.06	0.293	-	2	0.34	4.481

Sound Performance in Accordance with AMCA (Sound Power by Octave Band)										
62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
80	81	92	81	76	71	77	67	86	75	24

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



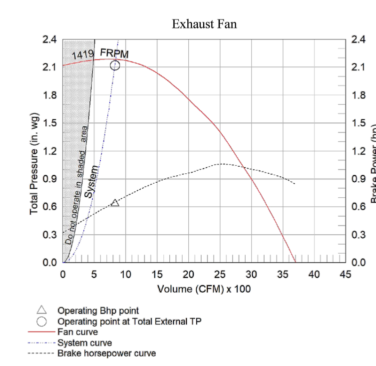
Exhaust Fan Charts And Performance

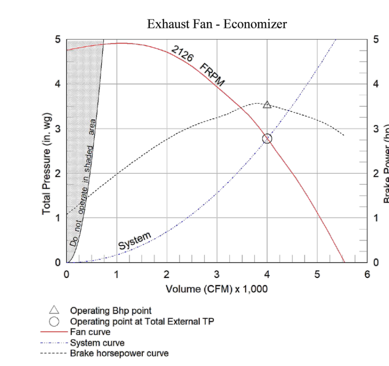
Exhaust Fan Performance						Motor		Fan		
Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
Normal	829	1.5	2.119	1419	0.64	1	5	1	Plenum	Direct
Economizer	4,000	1.5	2.774	2126	3.51	1	5	1	Plenum	Direct

Pressure Drop (in. wg)								
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.01	-	0.009	-	-	1.5	0.4	2.119
Economizer	0.16	-	-	-	-	1.5	0.9	2.774

Sound Performance in Accordance with AMCA	Sound Power by Octave Band										
Mode	62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	80	77	69	64	59	58	64	55	69	58	10
Economizer	79	78	76	69	60	59	62	53	72	60	11

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter





GKD Roof Curb

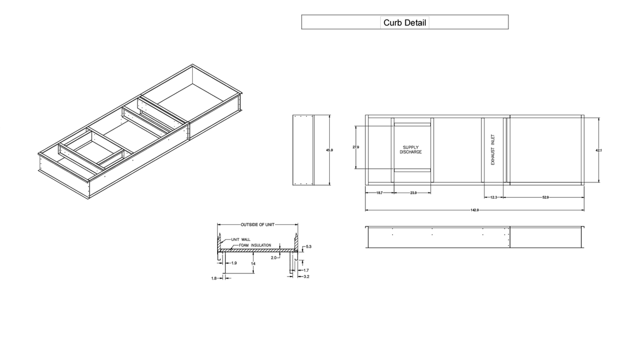
Model: GKD-45.9/142.9-G14

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
14	142.9	45.9	Galvanized	Galvanized	Yes	223

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
14 gauge galvanized steel (perimeter channels).
14 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Curb Detail

Top View of Curb



Cross-Section View of Unit on Curb

GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

RTU- LIBRARY

NOTE: GREENHECK RVE-40-30D-10I-0-G2 , FURNISH AS NOTED ON ABOVE CUTSHEET

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/19/2024
Mark: DOAS-1 (REV-3)
Model: RVE-20-30D-3I-0-A2

RVE-20-30D-3I-0-A2

Unit Performance

Design Conditions						
Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	12.6	1,125	1,125	1,125

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	1,367 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration			
Outdoor Air		Exhaust Air	
Intake	Discharge	Intake	Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1 Compliance	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
ISMRE2 (ASHRAE 90.1-2022)	5.0	7.7	✓
Enthalpy Recovery Ratio (%)	50	73.5	✓

Energy Recovery Performance	Temperature (F)								Capacity Reduction
Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	(BTU/h)
Summer	95.0	78.0	79.8	67.2	75.0	62.5/50	90.2	74.5	49,106.0
Winter	12.6	10.0	56.2	45.9	72.0	55.8/35	26.6	24.4	52,974.0

Cooling Specifications							
Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB) EAT (F)	Coil (DB/WB) LAT (F)	Reheat Capacity (MBH)	Reheat LAT (F)
Packaged DX	43.6	29.9	Inverter Scroll	79.8 / 67.2	54.4 / 54.4	35.5	83.9

Motor Specifications						
Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	0.84	1-1/2	ODP	PE	1760
Exhaust	1	0.82	1-1/2	ODP	PE	1760

Electrical Specifications					
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	25.5	35.0	23.1	1.099

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s)	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - Constant Volume-Adj. Setpoint	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Modulating Wheel, OA Temp Setpoint w/VFD Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - 100% OA-No Recirculation	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	

Accessories	
Frost Control ModulatingWheel - Modulating Wheel	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper	
Roof Curb - GKD - 39.7/120.5-G24	X
Supply Air Filters - 2" Merv 8, 1-12x24x2, 1-24x24x2	Std
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 2-16x20x2	Std
Outdoor Air Filters - 2" Merv 8, 2-16x20x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option	Std
Not Included	
Included	X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Number
Special Design Request for "Control of duct mounted hot water coil from unit's microprocessor", (Q9999999)

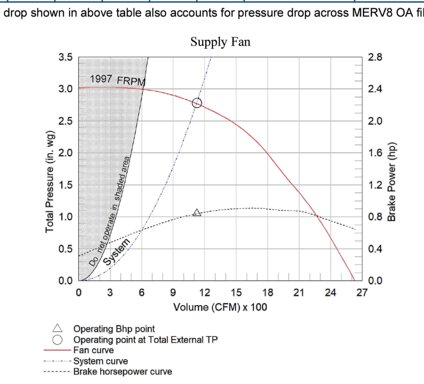
Supply Fan Charts And Performance

Supply Fan Performance					Motor		Fan		
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
1,125	2	2.783	1997	0.84	1	1-1/2	1	Plenum	Direct

Pressure Drop (in. wg)							
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.02	0.099	0.02	0.097	-	2	0.49	2.783

Sound Performance in Accordance with AMCA (Sound Power by Octave Band)										
62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
83	75	81	85	71	68	66	64	83	71	18

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



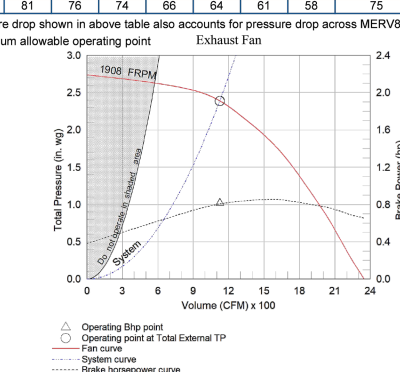
Exhaust Fan Charts And Performance

Exhaust Fan Performance						Motor		Fan		
Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
Normal	1,125	2	2.387	1908	0.82	1	1-1/2	1	Plenum	Direct

Pressure Drop (in. wg)								
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.03	-	-	-	-	2	0.35	2.387

Sound Performance in Accordance with AMCA	Sound Power by Octave Band										
Mode	62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	78	81	76	74	66	64	61	58	75	64	12

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter
*500 CFM is the minimum allowable operating point



GKD Roof Curb

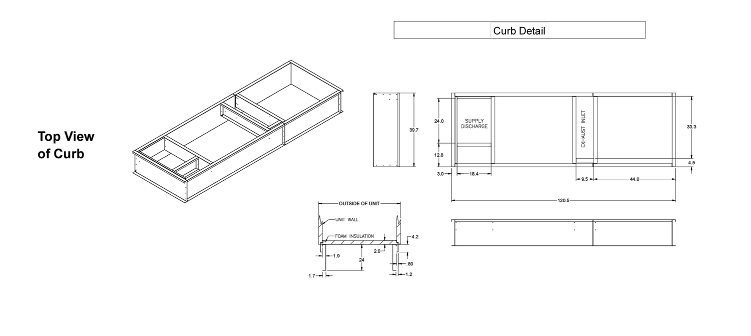
Model: GKD-39.7/120.5-G24

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
24	120.5	39.7	Galvanized	Galvanized	Yes	120

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
18 gauge galvanized steel (perimeter channels).
18 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Curb Detail

Top View of Curb



GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

DOAS-1

NOTE: GREENHECK RVE-20-30D-3I-0-A2 , FURNISH AS NOTED ON ABOVE CUTSHEET

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/19/2024
Mark: DOAS-2 (REV-3)
Model: RVE-40-41D-10I-0-A2

RVE-40-41D-10I-0-A2

Unit Performance

Design Conditions						
Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	12.6	2,610	2,610	2,610

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	3,132 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration			
Outdoor Air		Exhaust Air	
Intake	Discharge	Intake	Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1 Compliance	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
ISMRE2 (ASHRAE 90.1-2022)	5.0	8.1	✓
Enthalpy Recovery Ratio (%)	50	69.1	✓

Energy Recovery Performance	Temperature (F)								Capacity Reduction
Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	(BTU/h)
Summer	95.0	78.0	80.8	67.9	75.0	62.5/50	89.1	73.7	108,053.0
Winter	12.6	10.0	53.2	44.0	72.0	55.8/35	29.8	27.0	114,444.0

Cooling Specifications							
Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB) EAT (F)	Coil (DB/WB) LAT (F)	Reheat Capacity (MBH)	Reheat LAT (F)
Packaged DX	120.9	77.3	Inverter Scroll	80.8 / 67.9	52.5 / 52.5	76.5	79.9

Motor Specifications						
Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	2.24	3	ODP	PE	1165
Exhaust	1	2.13	3	ODP	PE	1165

Electrical Specifications					
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	71.0	100.0	62.4	1.249

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s) and control circuiting fusing	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - Constant Volume-Adj. Setpoint	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Modulating Wheel, OA Temp Setpoint w/VFD Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - 100% OA-No Recirculation	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	

Accessories	
Frost Control ModulatingWheel - Modulating Wheel	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper - Low Leakage	X
Roof Curb - GKD - 45.9/142.9-G24	X
Supply Air Filters - 2" Merv 8, 4-20x20x2	Std
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 3-16x25x2	Std
Outdoor Air Filters - 2" Merv 8, 3-16x25x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option	Std
Not Included	
Included	X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A
Return Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Number
Special Design Request for "Control of duct mounted hot water coil from unit's microprocessor", (Q9999999)

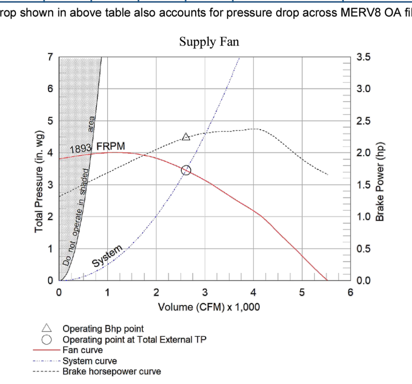
Supply Fan Charts And Performance

Supply Fan Performance					Motor		Fan		
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
2,610	2	3.45	1893	2.24	1	3	1	Plenum	Direct

Pressure Drop (in. wg)							
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.05	0.089	0.02	0.156	-	2	1.11	3.45

Sound Performance in Accordance with AMCA (Sound Power by Octave Band)										
62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
77	81	89	76	72	68	76	64	83	72	20

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



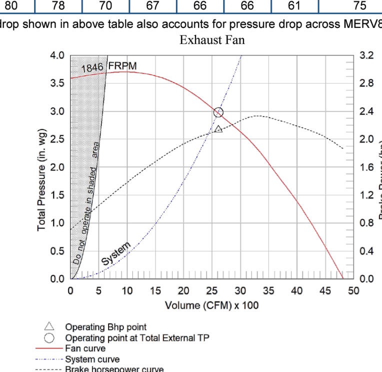
Exhaust Fan Charts And Performance

Exhaust Fan Performance						Motor		Fan		
Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
Normal	2,610	2	2.98	1846	2.13	1	3	1	Plenum	Direct

Pressure Drop (in. wg)								
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.07	-	-	-	-	2	0.91	2.98

Sound Performance in Accordance with AMCA	Sound Power by Octave Band										
Mode	62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	83	80	78	70	67	66	66	61	75	64	13

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter



GKD Roof Curb

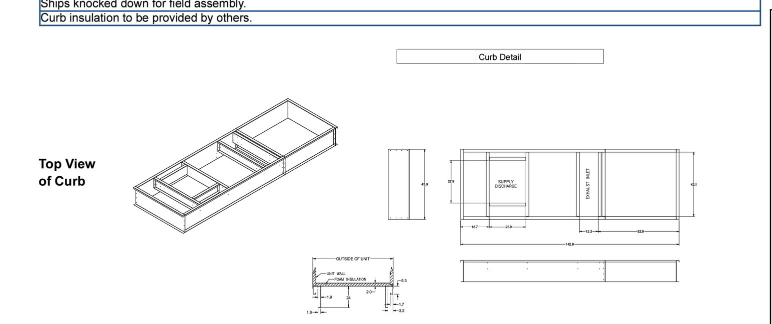
Model: GKD-45.9/142.9-G24

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
24	142.9	45.9	Galvanized	Galvanized	Yes	333

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
14 gauge galvanized steel (perimeter channels).
14 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Curb Detail

Top View of Curb



GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

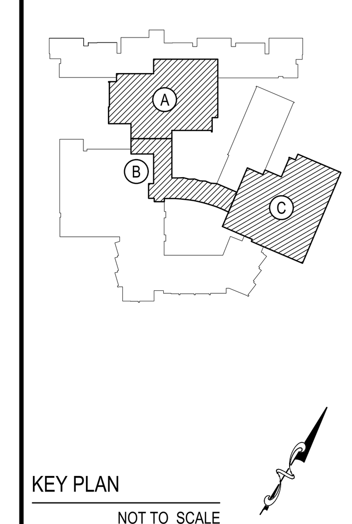
DOAS-2

NOTE: GREENHECK RVE-40-41D-7I-0-A2 , FURNISH AS NOTED ON ABOVE CUTSHEET

REV.	DATE	ITEM

NOTICE

THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. AND, THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.



KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
ROOFTOP UNIT and
DOAS UNIT SCHEDULES and DETAILS

DRAWING BY: GWT
CHECK BY: - - -

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	ROOFTOP UNIT and DOAS UNIT SCHEDULES AND DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.02

RTU- LARGE CAFE

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-LARGE CAFE (REV-4)
Model: RVE-150-74C-25I-0-J2

RVE-150-74C-25I-0-J2
Unit Performance

Design Conditions

Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Recirc Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	11.0	9,400	5,300	4,100	5,300

Unit Specifications

Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	7,632 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration

Outdoor Air Intake	Outdoor Air Discharge	Exhaust Air Intake	Exhaust Air Discharge
End	Side	Access Side	End

ASHRAE 90.1-2022 Compliance

	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
EER	10.0	11.1	✓
IEER	13.2	15.8	✓
Enthalpy Recovery Ratio (%)	50	80.8	✓

Energy Recovery Performance

Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	Capacity Reduction (BTU/h)
Summer	95.0	78.0	78.4	66.0	75.0	62.5/50	91.5	75.4	255,195.0
Winter	11.0	8.6	60.5	48.7	72.0	55.8/35	21.4	19.8	283,338.0

Temperature (F)

Cooling Specifications

Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB) EAT (F)	Coil (DB/WB) LAT (F)	Reheat Capacity (MBH)	Reheat LAT (F)
Packaged DX	277.4	222.8	Inverter Scroll	76.9 / 64.5	54.5 / 54.5	191.5	73.3

Motor Specifications

Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	2	3.97	5	ODP	PE	1750
Exhaust	2	1.44	5	ODP	PE	1750

Electrical Specifications

Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	161.5	200.0	151.3	0.857

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-LARGE CAFE (REV-4)
Model: RVE-150-74C-25I-0-J2

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s) and control circuiting fusing	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - OA Damper Tracking	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Stop Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - Constant Position-Adj. Setpoint	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	X

Accessories	
Frost Control CycleWheel - Cycle Wheel On/Off	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper	
Roof Curb - GKD - 91.4/228.83-G14	X
Supply Air Filters - 2" Merv 13, 8-16x24x2, 4-20x24x2	X
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 8-20x24x2	Std
Outdoor Air Filters - 2" Merv 8, 8-20x24x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	X
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option: Std
Not Included: (blank)
Included: X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Requests

Special Design Number
Special Design Request for "Duct mounted hot water coil control (0-10v) from microporocessor", (Q9999999)

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-LARGE CAFE (REV-4)
Model: RVE-150-74C-25I-0-J2

Supply Fan Charts And Performance

Supply Fan Performance

Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor Qty	Motor Size (hp)	Fan Qty	Fan Type	Drive-Type
9,400	1.5	3.561	1599	3.97	2	5	2	Plenum	Direct

Pressure Drop (in. wg)

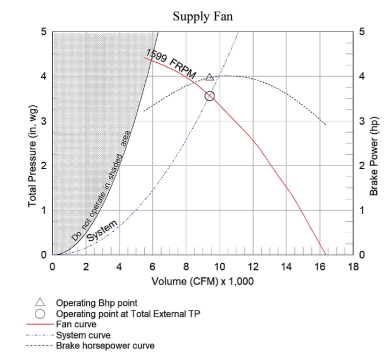
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.04	0.193	0.08	0.225	-	1.5	0.64	3.561

Sound Performance in Accordance with AMCA

62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
84	89	91	82	76	71	75	70	86	74	24

Sound Power by Octave Band

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-LARGE CAFE (REV-4)
Model: RVE-150-74C-25I-0-J2

Exhaust Fan Charts And Performance

Exhaust Fan Performance

Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor Qty	Motor Size (hp)	Fan Qty	Fan Type	Drive-Type
Normal	5,300	1.5	2.232	1596	1.44	2	5	2	Plenum	Direct
Economizer	9,400	1.5	2.296	2078	3.21	2	5	2	Plenum	Direct

Pressure Drop (in. wg)

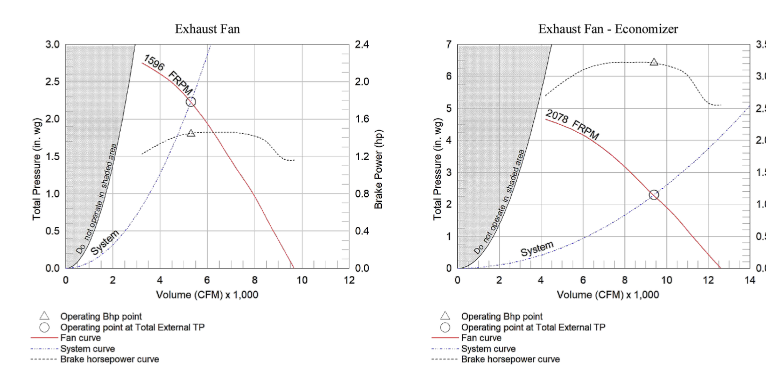
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.02	-	-	-	-	1.5	0.72	2.232
Economizer	0.05	-	-	-	-	1.5	0.74	2.296

Sound Performance in Accordance with AMCA

Mode	62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	76	78	77	71	68	67	69	63	76	64	14
Economizer	74	72	79	72	67	64	66	61	75	64	13

Sound Power by Octave Band

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter



GREENHECK Building Value in Air.

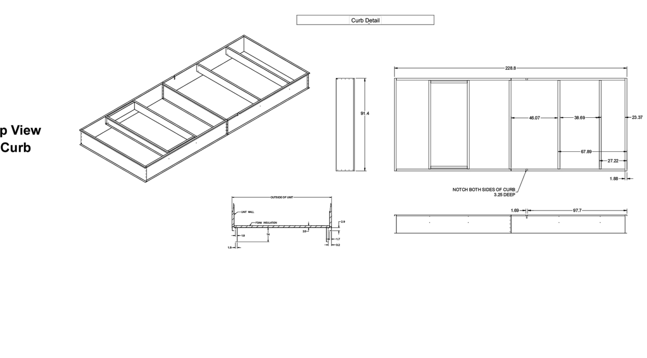
Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-LARGE CAFE (REV-4)
Model: GKD

GKD Roof Curb
Model: GKD-91.4/228.83-G14

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
14	228.83	91.4	Galvanized	Galvanized	Yes	407

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
14 gauge galvanized steel (perimeter channels).
14 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Top View of Curb



Cross-Section View of Unit on Curb

GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

RTU- LARGE CAFE

NOTE: GREENHECK RVE-150-74C-25I-0-J1 , FURNISH AS NOTED ON ABOVE CUTSHEET

RTU- SMALL CAFE

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Sm Cafe-A,B,C,D (REV-4)
Model: RVE-20-30D-4I-0-G2

RVE-20-30D-4I-0-G2
Unit Performance

Design Conditions

Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Recirc Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	11.0	1,600	924	676	924

Unit Specifications

Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
4	1,370 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration

Outdoor Air Intake	Outdoor Air Discharge	Exhaust Air Intake	Exhaust Air Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1-2022 Compliance

	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
SEER2	14.0	17.1	✓
Enthalpy Recovery Ratio (%)	50	76.1	✓

Energy Recovery Performance

Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	Capacity Reduction (BTU/h)
Summer	95.0	78.0	79.2	66.8	75.0	62.5/50	90.8	74.8	41,995.0
Winter	11.0	8.6	57.6	46.8	72.0	55.8/35	23.7	22.0	46,503.0

Temperature (F)

Cooling Specifications

Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB) EAT (F)	Coil (DB/WB) LAT (F)	Reheat Capacity (MBH)	Reheat LAT (F)
Packaged DX	53.0	39.9	Inverter Scroll	77.4 / 65.0	53.8 / 53.8	46.8	80.9

Motor Specifications

Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	0.93	1-1/2	ODP	PE	1760
Exhaust	1	0.29	1	ODP	PE	1760

Electrical Specifications

Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	26.8	35.0	23.7	0.569

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Sm Cafe-A,B,C,D (REV-4)
Model: RVE-20-30D-4I-0-G2

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s)	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - OA Damper Tracking	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Stop Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - Constant Position-Adj. Setpoint	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	X

Accessories	
Frost Control CycleWheel - Cycle Wheel On/Off	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper	
Roof Curb - GKD - 39.7/120.5-G14	X
Supply Air Filters - 2" Merv 13, 1-12x24x2, 1-24x24x2	X
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 2-16x20x2	Std
Outdoor Air Filters - 2" Merv 8, 2-16x20x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	X
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option: Std
Not Included: (blank)
Included: X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Requests

Special Design Number
Special Design Request for "Duct mounted hot water coil control (0-10v) from microporocessor", (Q9999999)

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Sm Cafe-A,B,C,D (REV-4)
Model: RVE-20-30D-4I-0-G2

Supply Fan Charts And Performance

Supply Fan Performance

Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor Qty	Motor Size (hp)	Fan Qty	Fan Type	Drive-Type
1,600	1	2.374	2009	0.93	1	1-1/2	1	Plenum	Direct

Pressure Drop (in. wg)

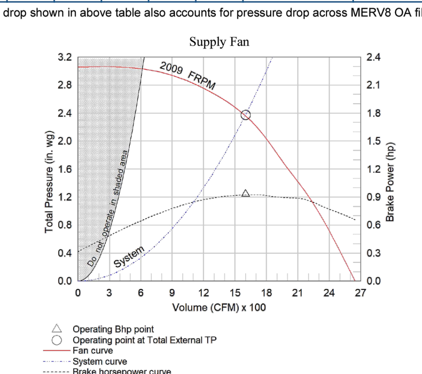
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.02	0.308	0.03	0.161	-	1	0.4	2.374

Sound Performance in Accordance with AMCA

62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
81	73	83	85	72	68	66	64	83	72	18

Sound Power by Octave Band

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Sm Cafe-A,B,C,D (REV-4)
Model: RVE-20-30D-4I-0-G2

Exhaust Fan Charts And Performance

Exhaust Fan Performance

Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor Qty	Motor Size (hp)	Fan Qty	Fan Type	Drive-Type
Normal	924	0.75	1.063	1337	0.29	1	1	1	Plenum	Direct
Economizer	1,600	0.75	1.32	1769	0.68	1	1	1	Plenum	Direct

Pressure Drop (in. wg)

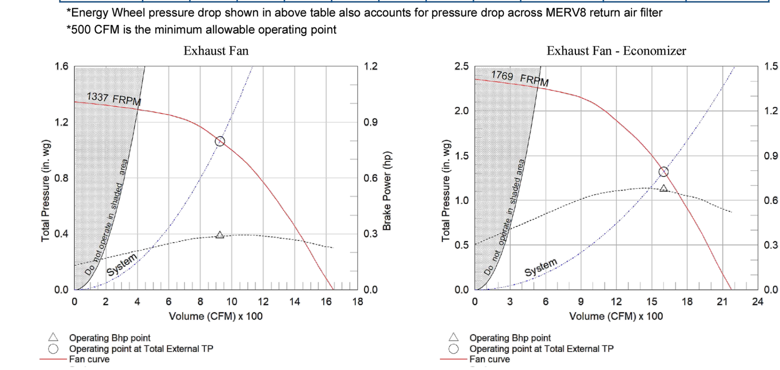
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.02	-	-	-	-	0.75	0.29	1.063
Economizer	0.07	-	-	-	-	0.75	0.5	1.32

Sound Performance in Accordance with AMCA

Mode	62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	73	74	66	70	55	54	51	49	69	57	8
Economizer	75	78	69	71	57	56	50	49	70	59	9

Sound Power by Octave Band

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter
*500 CFM is the minimum allowable operating point



GREENHECK Building Value in Air.

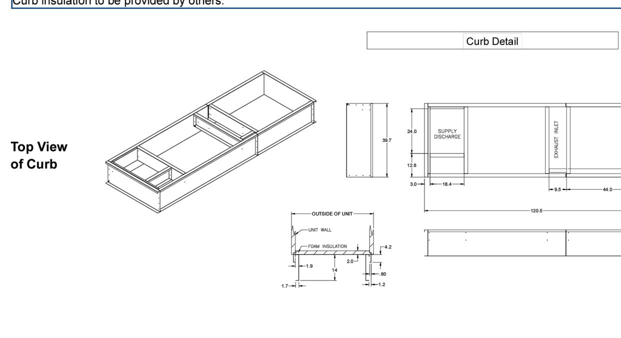
Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Sm Cafe-A,B,C,D (REV-4)
Model: GKD

GKD Roof Curb
Model: GKD-39.7/120.5-G14

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
14	120.5	39.7	Galvanized	Galvanized	Yes	87

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
18 gauge galvanized steel (perimeter channels).
18 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Top View of Curb



Cross-Section View of Unit on Curb

GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

RTU- SMALL CAFE

NOTE: GREENHECK RVE-20-30D-4I-0-G2 , FURNISH AS NOTED ON ABOVE CUTSHEET

RTU- SMALL GYM A, B

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Small Gym-A,B (REV-4)
Model: RVE-40-30D-7I-0-G2

RVE-40-30D-7I-0-G2
Unit Performance

Design Conditions

Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Recirc Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	11.0	2,400	770	1,630	770

Unit Specifications

Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
2	2,938 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration

Outdoor Air Intake	Outdoor Air Discharge	Exhaust Air Intake	Exhaust Air Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1-2022 Compliance

	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
EER	11.2	12.3	✓
IEER	14.8	21.4	✓
Enthalpy Recovery Ratio (%)	50	78.2	✓

Energy Recovery Performance

Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	Capacity Reduction (BTU/h)
Summer	95.0	78.0	78.7	66.4	75.0	62.5/50	91.2	75.1	36,036.0
Winter	11.0	8.6	59.1	47.8	72.0	55.8/35	22.4	20.8	40,000.0

Temperature (F)

Cooling Specifications

Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	Coil (DB/WB) EAT (F)	Coil (DB/WB) LAT (F)	Reheat Capacity (MBH)	Reheat LAT (F)
Packaged DX	81.5	61.6	Inverter Scroll	76.2 / 63.8	52.0 / 52.0	67.7	78.1

Motor Specifications

Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	2.05	3	ODP	PE	1165
Exhaust	1	0.55	2	ODP	PE	1165

Electrical Specifications

Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	47.8	60.0	42.7	0.808

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Small Gym-A,B (REV-4)
Model: RVE-40-30D-7I-0-G2

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s)	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - OA Damper Tracking	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Stop Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - Constant Position-Adj. Setpoint	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	X

Accessories	
Frost Control CycleWheel - Cycle Wheel On/Off	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper - Low Leakage	X
Roof Curb - GKD - 45.9/142.9-G14	X
Supply Air Filters - 2" Merv 13, 4-20x20x2	X
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 2-20x25x2	Std
Outdoor Air Filters - 2" Merv 8, 2-20x25x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	X
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option: Std
Not Included: (blank)
Included: X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A
Return Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Requests

Special Design Number
Special Design Request for "Duct mounted hot water coil control (0-10v) from microporocessor", (Q9999999)

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Small Gym-A,B (REV-4)
Model: RVE-40-30D-7I-0-G2

Supply Fan Charts And Performance

Supply Fan Performance

Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor Qty	Motor Size (hp)	Fan Qty	Fan Type	Drive-Type
2,400	1.5	3.388	1852	2.05	1	3	1	Plenum	Direct

Pressure Drop (in. wg)

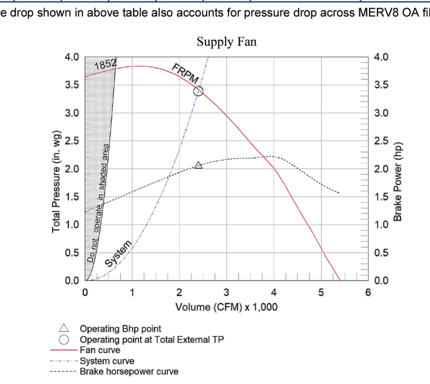
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.044	0.132	0.02	0.14	-	1.5	0.32	3.388

Sound Performance in Accordance with AMCA

62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
77	81	89	76	71	67	76	64	83	71	20

Sound Power by Octave Band

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Small Gym-A,B (REV-4)
Model: RVE-40-30D-7I-0-G2

Exhaust Fan Charts And Performance

Exhaust Fan Performance

Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor Qty	Motor Size (hp)	Fan Qty	Fan Type	Drive-Type
Normal	770	1.5	1.954	1363	0.55	1	2	1	Plenum	Direct
Economizer	2,400	1.5	2.174	1610	1.44	1	2	1	Plenum	Direct

Pressure Drop (in. wg)

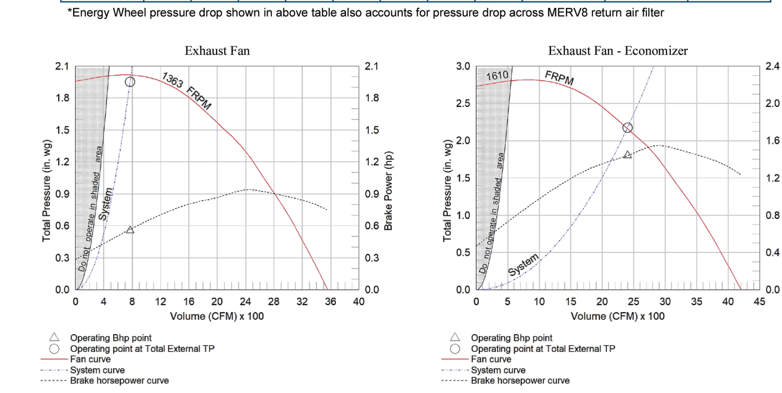
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.01	-	0.008	-	-	1.5	0.37	1.954
Economizer	0.06	-	-	-	-	1.5	0.54	2.174

Sound Performance in Accordance with AMCA

Mode	62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	79	76	68	62	58	57	63	54	69	57	10
Economizer	78	75	68	62	58	56	63	54	68	57	9

Sound Power by Octave Band

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter



GREENHECK Building Value in Air.

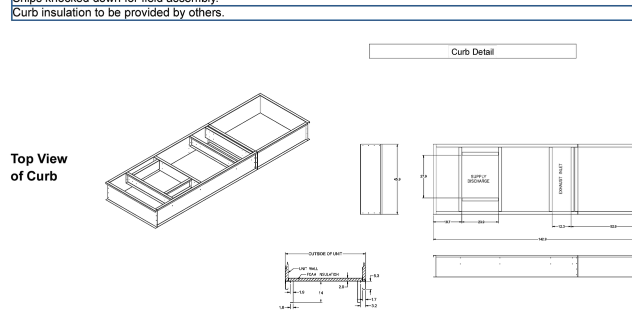
Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Small Gym-A,B (REV-4)
Model: GKD

GKD Roof Curb
Model: GKD-45.9/142.9-G14

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
14	142.9	45.9	Galvanized	Galvanized	Yes	223

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
14 gauge galvanized steel (perimeter channels).
14 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Top View of Curb



Cross-Section View of Unit on Curb

GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

RTU- SMALL GYM A, B

NOTE: GREENHECK RVE-40-30D-7I-0-G2 , FURNISH AS NOTED ON ABOVE CUTSHEET

REV.	DATE	ITEM

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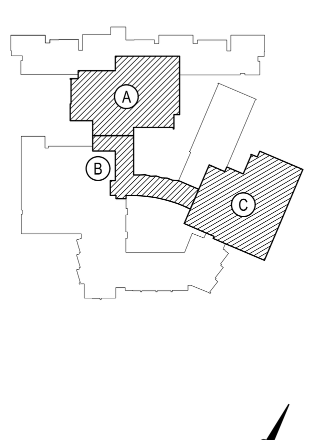

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
ROOFTOP UNIT SCHEDULES and DETAILS

DRAWING BY: GWT
CHECK BY: - - -

NOTICE
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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	ROOFTOP UNIT SCHEDULES and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.03

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Classroom A (REV-4)
Model: RVE-20-30D-3I-0-G2

RVE-20-30D-3I-0-G2
Unit Performance

Design Conditions							
Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Recirc Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	11.0	1,600	535	1,065	535

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	1,375 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration			
Outdoor Air		Exhaust Air	
Intake	Discharge	Intake	Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1-2022 Compliance	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
SEER2	14.0	16.5	✓
Enthalpy Recovery Ratio (%)	50	81.4	✓

Energy Recovery Performance	Temperature (F)								Capacity Reduction
Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	(BTU/h)
Summer	95.0	78.0	78.0	65.9	75.0	62.5/50	91.9	75.5	26,001.0
Winter	11.0	8.6	61.6	49.2	72.0	55.8/35	20.3	19.0	29,237.0

Cooling Specifications				Coil (DB/WB)		Reheat	
Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	EAT (F)	LAT (F)	Capacity (MBH)	LAT (F)
Packaged DX	43.1	36.5	Inverter Scroll	76.0 / 63.7	54.5 / 54.5	42.5	79.0

Motor Specifications						
Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	1.24	2	ODP	PE	1750
Exhaust	1	0.22	1-1/2	ODP	PE	1760

Electrical Specifications					
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	26.2	35.0	23.8	0.682

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s)	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - OA Damper Tracking	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Stop Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - Constant Position-Adj. Setpoint	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	X

Accessories	
Frost Control CycleWheel - Cycle Wheel On/Off	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper	
Roof Curb - GKD - 39.7/120.5-G14	X
Supply Air Filters - 2" Merv 13, 1-12x24x2, 1-24x24x2	X
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 2-16x20x2	Std
Outdoor Air Filters - 2" Merv 8, 2-16x20x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	X
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option	Std
Not Included	
Included	X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Requests

Special Design Number
Special Design Request for "Duct mounted hot water coil control (0-10v) from microporcessor", (Q9999999)

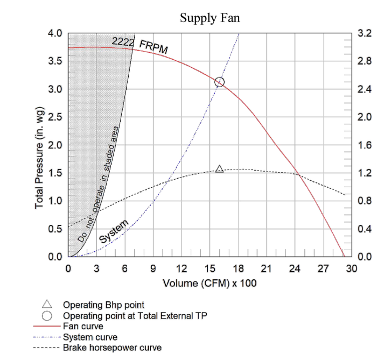
Supply Fan Charts And Performance

Supply Fan Performance					Motor		Fan		
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
1,600	1.5	3.125	2222	1.24	1	2	1	Plenum	Direct

Pressure Drop (in. wg)							
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.01	0.308	0.03	0.162	-	1.5	0.23	3.125

Sound Performance in Accordance with AMCA										
Sound Power by Octave Band 62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
84	76	85	86	75	71	68	66	85	73	20

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



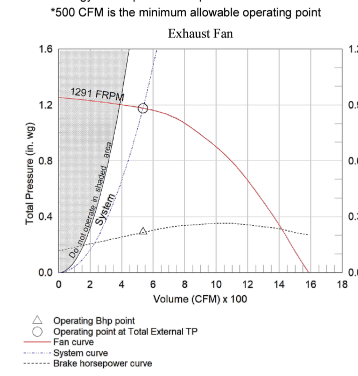
Exhaust Fan Charts And Performance

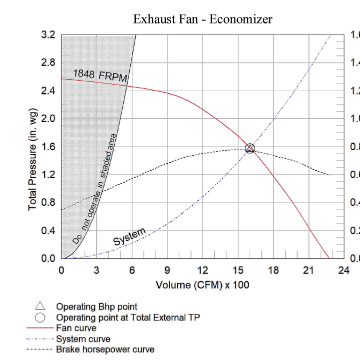
Exhaust Fan Performance						Motor		Fan		
Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
Normal	535	1	1.176	1291	0.22	1	1-1/2	1	Plenum	Direct
Economizer	1,600	1	1.57	1848	0.78	1	1-1/2	1	Plenum	Direct

Pressure Drop (in. wg)								
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.01	-	-	-	-	1	0.17	1.176
Economizer	0.07	-	-	-	-	1	0.5	1.57

Sound Performance in Accordance with AMCA											
Mode	Sound Power by Octave Band 62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	73	73	65	69	54	53	51	49	68	56	8
Economizer	74	77	67	70	56	55	50	49	69	58	8

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter
*500 CFM is the minimum allowable operating point





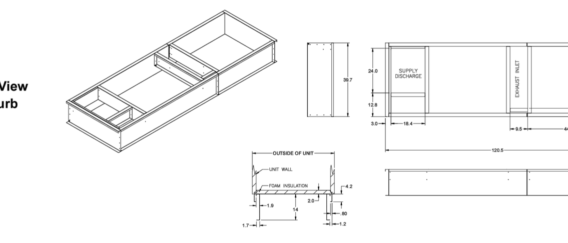
GKD Roof Curb
Model: GKD-39.7/120.5-G14

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
14	120.5	39.7	Galvanized	Galvanized	Yes	87

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
18 gauge galvanized steel (perimeter channels).
18 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Curb Detail

Top View of Curb



Cross-Section View of Unit on Curb

GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

RTU- CLASSROOM A - LGI SUITE

NOTE: GREENHECK RVE-20-30D-3I-0-G2 , FURNISH AS NOTED ON ABOVE CUTSHEET

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-Classroom B (REV-4)
Model: RVE-20-30D-3I-0-G2

RVE-20-30D-3I-0-G2
Unit Performance

Design Conditions							
Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Recirc Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	11.0	1,600	500	1,100	500

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	1,375 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration			
Outdoor Air		Exhaust Air	
Intake	Discharge	Intake	Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1-2022 Compliance	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
SEER2	14.0	16.5	✓
Enthalpy Recovery Ratio (%)	50	81.9	✓

Energy Recovery Performance	Temperature (F)								Capacity Reduction
Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	(BTU/h)
Summer	95.0	78.0	77.9	65.8	75.0	62.5/50	92.1	75.6	24,525.0
Winter	11.0	8.6	62.0	49.4	72.0	55.8/35	19.9	18.7	27,540.0

Cooling Specifications				Coil (DB/WB)		Reheat	
Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	EAT (F)	LAT (F)	Capacity (MBH)	LAT (F)
Packaged DX	43.0	36.5	Inverter Scroll	75.9 / 63.6	54.4 / 54.4	42.5	78.9

Motor Specifications						
Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	1.24	2	ODP	PE	1750
Exhaust	1	0.21	1-1/2	ODP	PE	1760

Electrical Specifications					
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	26.2	35.0	23.8	0.677

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s)	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - OA Damper Tracking	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Stop Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - Constant Position-Adj. Setpoint	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	X

Accessories	
Frost Control CycleWheel - Cycle Wheel On/Off	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper	
Roof Curb - GKD - 39.7/120.5-G14	X
Supply Air Filters - 2" Merv 13, 1-12x24x2, 1-24x24x2	X
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 2-16x20x2	Std
Outdoor Air Filters - 2" Merv 8, 2-16x20x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	X
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option	Std
Not Included	
Included	X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Requests

Special Design Number
Special Design Request for "Duct mounted hot water coil control (0-10v) from microporcessor", (Q9999999)

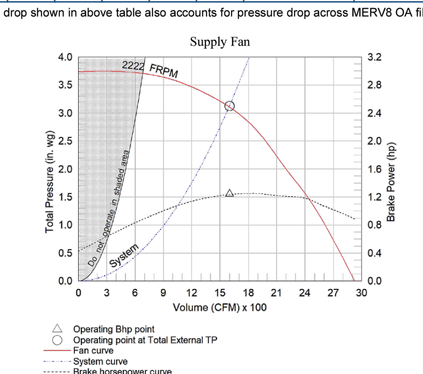
Supply Fan Charts And Performance

Supply Fan Performance					Motor		Fan		
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
1,600	1.5	3.125	2222	1.24	1	2	1	Plenum	Direct

Pressure Drop (in. wg)							
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.05	0.308	0.03	0.162	-	1.5	0.22	3.125

Sound Performance in Accordance with AMCA										
Sound Power by Octave Band 62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
84	76	85	86	75	71	68	66	85	73	20

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



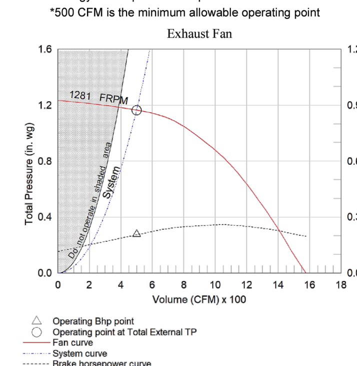
Exhaust Fan Charts And Performance

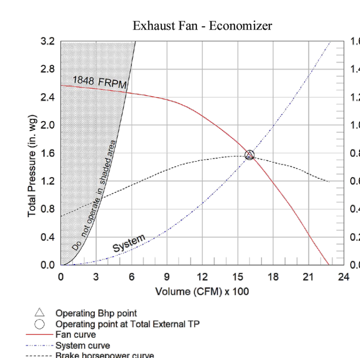
Exhaust Fan Performance						Motor		Fan		
Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
Normal	500	1	1.164	1281	0.21	1	1-1/2	1	Plenum	Direct
Economizer	1,600	1	1.57	1848	0.78	1	1-1/2	1	Plenum	Direct

Pressure Drop (in. wg)								
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.01	-	-	-	-	1	0.16	1.164
Economizer	0.07	-	-	-	-	1	0.5	1.57

Sound Performance in Accordance with AMCA											
Mode	Sound Power by Octave Band 62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	72	73	65	69	54	53	50	49	68	56	8
Economizer	74	77	67	70	55	55	50	48	69	58	8

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter
*500 CFM is the minimum allowable operating point





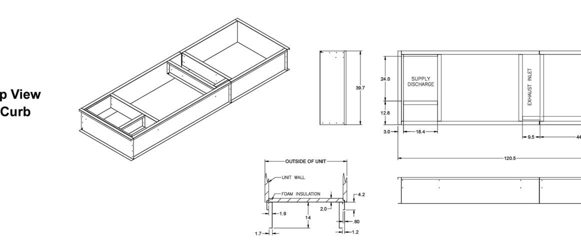
GKD Roof Curb
Model: GKD-39.7/120.5-G14

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
14	120.5	39.7	Galvanized	Galvanized	Yes	87

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
18 gauge galvanized steel (perimeter channels).
18 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Curb Detail

Top View of Curb



Cross-Section View of Unit on Curb

GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

RTU- CLASSROOM B - LGI SUITE

NOTE: GREENHECK RVE-20-30D-3I-0-G2 , FURNISH AS NOTED ON ABOVE CUTSHEET

Cut Sheet - Not for Submittal
Printed Date: 11/26/2024
Mark: RTU-LGI (REV-4)
Model: RVE-20-30D-4I-0-G2

RVE-20-30D-4I-0-G2
Unit Performance

Design Conditions							
Elevation (ft)	Summer DB (F)	Summer WB (F)	Winter DB (F)	Supply (CFM)	Outdoor Air (CFM)	Recirc Air (CFM)	Exhaust Air (CFM)
30	95.0	78.0	11.0	2,000	590	1,410	590

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	1,375 (+/- 5%)	Packaged DX	None	Outdoor	UL\cUL 1995/ 60335-2-40

Configuration			
Outdoor Air		Exhaust Air	
Intake	Discharge	Intake	Discharge
End	Bottom	Bottom	Side

ASHRAE 90.1-2022 Compliance	ASHRAE 90.1 Min. Efficiency	Calculated Efficiency	Compliance
SEER2	14.0	17.1	✓
Enthalpy Recovery Ratio (%)	50	80.6	✓

Energy Recovery Performance	Temperature (F)								Capacity Reduction
Design Condition	Outdoor Air DB	Outdoor Air WB	Supply Air DB	Supply Air WB	Return Air DB	Return Air WB/RH	Exhaust Air DB	Exhaust Air WB	(BTU/h)
Summer	95.0	78.0	78.2	66.0	75.0	62.5/50	91.8	75.4	28,408.0
Winter	11.0	8.6	61.0	48.9	72.0	55.8/35	20.7	19.4	31,860.0

Cooling Specifications				Coil (DB/WB)		Reheat	
Type	Total Capacity (MBH)	Sensible Capacity (MBH)	Lead Compressor Type	EAT (F)	LAT (F)	Capacity (MBH)	LAT (F)
Packaged DX	53.2	45.5	Inverter Scroll	75.9 / 63.6	54.5 / 54.5	51.5	78.3

Motor Specifications						
Motor	Qty	Operating Power (hp)	Size (hp)	Enclosure	Efficiency	RPM
Supply	1	1.69	2	ODP	PE	1750
Exhaust	1	0.24	1-1/2	ODP	PE	1760

Electrical Specifications					
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	FLA (A)	Fan Power (W/CFM)*
Unit	208/60/3	29.4	40.0	26.3	0.719

*Fan Power (W/CFM) = (Supply BHP + Exhaust BHP) / Supply CFM

Construction Features And Accessories

Unit	
Unit Installation - Outdoor	Std
Unit Construction - Double Wall	Std
Insulation - 2 inch 2.4# R13 foam	Std
Corrosion Resistant Fasteners	Std
Hinged Access	Std
Factory Wired Non-Fused Disconnect Switch	Std
Direct Drive Plenum Blower & Motor Assemblies	Std
Factory Wired VFDs	Std
Unit Finish - Permatector, Concrete Gray (RAL 7023)	X
Stainless Steel Condensate Drain Pan and Connection	Std
Condensate Drain Trap	Std
Short Circuit Current - 5 kA	Std
Energy Recovery Device - Polymer Wheel w/ Silica Gel Desiccant	Std
Controls	
Unit Controls - Full Control	Std
Internally Mounted Control Center with 24 VAC control transformer(s)	Std
BMS Protocol - BACNetMSTP	X
BMS Monitoring Points	
Supply Fan Control - Constant Volume-Adj. Setpoint	X
Exhaust Fan Control - OA Damper Tracking	X
Economizer Control - Temp./Enthalpy	X
Exhaust Fan Only Power	
Web-Based User Interface	Std
Energy Wheel Economizer Control - Stop Wheel	X
Energy Wheel Rotation Sensor	Std
Damper Control - Constant Position-Adj. Setpoint	X
Unoccupied Recirc Mode	
Control Accessories	
Remote Display	
Dirty Filter Sensor(s) - All	X
Airflow Monitor	
Room Thermostat	
Phase/Brownout Protection	Std
Economizer Fault Detection Diagnostics	X

Accessories	
Frost Control CycleWheel - Cycle Wheel On/Off	X
Outdoor Air Damper - Low Leakage	X
Return Air Damper	
Roof Curb - GKD - 39.7/120.5-G14	X
Supply Air Filters - 2" Merv 13, 1-12x24x2, 1-24x24x2	X
Service Outlet - Factory mounted and wired	X
Piping Vestibule	
Service Lights	
Condensate Overflow Switch	X
Spare Filters	
Exhaust Discharge Gravity Backdraft Damper	X
ElectroFin Coil Coating	
Motor Shaft Grounding	
Bipolar Ionization	
Smoke Detector(s)	
Barometric Relief Damper	
UV Lights	
Return Air Filters - 2" Merv 8, 2-16x20x2	Std
Outdoor Air Filters - 2" Merv 8, 2-16x20x2	Std
Furnace Control	
Spare Energy Wheel Belt	
Spare Energy Wheel Segments	
Energy Wheel Bypass Damper	X
Hail Guards	
Warranty Options	
Unit Warranty - 18 Months (Std.)	Std
Energy Wheel Warranty - 5 Yrs Less Motor	Std
Compressor Warranty - 18 Months (Std.)	Std
Furnace HX Warranty - 25 Yrs.	Std

Standard Option	Std
Not Included	
Included	X

Notes
Outdoor Air Damper supplied is low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in. wg), Class 1A

Special Design Requests

Special Design Number
Special Design Request for "Duct mounted hot water coil control (0-10v) from microporcessor", (Q9999999)

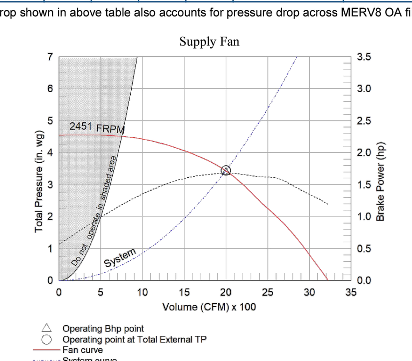
Supply Fan Charts And Performance

Supply Fan Performance					Motor		Fan		
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
2,000	1.5	3.447	2451	1.69	1	2	1	Plenum	Direct

Pressure Drop (in. wg)							
Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
0.01	0.481	0.05	0.224	-	1.5	0.25	3.447

Sound Performance in Accordance with AMCA										
Sound Power by Octave Band 62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
85	77	86	86	78	74	71	68	86	74	22

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 OA filter



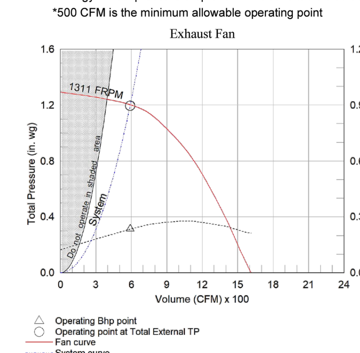
Exhaust Fan Charts And Performance

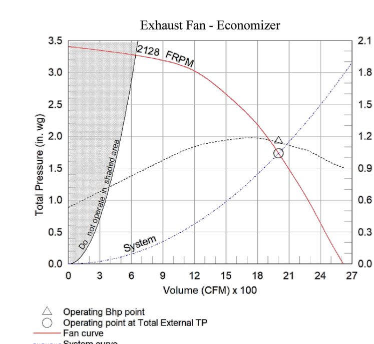
Exhaust Fan Performance						Motor		Fan		
Mode	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Qty	Size (hp)	Qty	Type	Drive-Type
Normal	590	1	1.195	1311	0.24	1	1-1/2	1	Plenum	Direct
Economizer	2,000	1	1.733	2128	1.16	1	1-1/2	1	Plenum	Direct

Pressure Drop (in. wg)								
Mode	Weatherhood	Filter	Damper	Cooling	Heating	External	Energy Wheel	Total
Normal	0.01	-	-	-	-	1	0.19	1.195
Economizer	0.1	-	-	-	-	1	0.63	1.733

Sound Performance in Accordance with AMCA											
Mode	Sound Power by Octave Band 62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
Normal	73	73	65	69	54	53	51	50	68	56	8
Economizer	79	81	77	71	64	60	56	53	74	62	11

*Energy Wheel pressure drop shown in above table also accounts for pressure drop across MERV8 return air filter
*500 CFM is the minimum allowable operating point





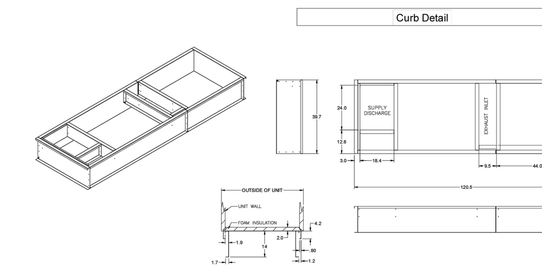
GKD Roof Curb
Model: GKD-39.7/120.5-G14

Curb Height (in.)	Curb Length (in.)	Curb Width (in.)	Material	Finish Type	Duct Adapter	Curb Weight (lb)
14	120.5	39.7	Galvanized	Galvanized	Yes	87

Standard Construction Features:
All dimensions shown are actual and in units of in.'s
If unit is selected with side or end discharge/return, there will not be bottom connections supplied with the curb.
18 gauge galvanized steel (perimeter channels).
18 gauge galvanized steel (interior channels).
Ships knocked down for field assembly.
Curb insulation to be provided by others.

Curb Detail

Top View of Curb



Cross-Section View of Unit on Curb

GENERAL SCHEDULE NOTES:
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 14" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.

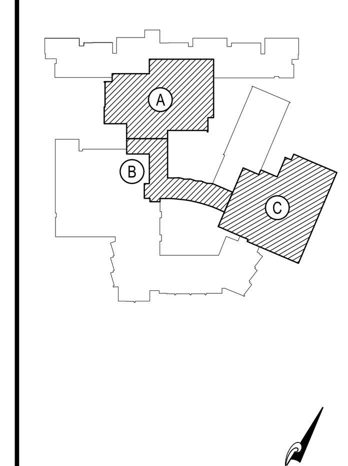
RTU- LGI

NOTE: GREENHECK RVE-20-30D-4I-0-G2 , FURNISH AS NOTED ON ABOVE CUTSHEET

REV.	DATE	ITEM

NOTICE

THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. AND, THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.



KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
ROOFTOP UNIT SCHEDULES and DETAILS

DRAWING BY: GWT
CHECK BY: - - -

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	ROOFTOP UNIT SCHEDULES and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.04

GREENHECK
Building Value in Air.

SUBMITTAL DATA

Bedford Fox La HS Phase 2 (REV-1) - Coils
USA

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Hot Water Coils

Tag	Qty	Model	Footnotes	Comment
HWC-Small Cafe A (REV-1)	1	HW58S02Q08-24x28-RH	a,b	
HWC-Small Cafe B (REV-1)	1	HW58S02Q08-24x28-RH	a,b	
HWC-Small Cafe C (REV-1)	1	HW58S02Q08-24x28-RH	a,b	
HWC-Small Cafe D (REV-1)	1	HW58S02Q08-24x28-RH	a,b	

Construction and Performance Details

Tag	...(REV-1)	...(REV-1)	...(REV-1)	...(REV-1)
Air flow (SCFM)	1600	1600	1600	1600
Altitude (ft)	0	0	0	0
Total capacity (MBH)	82.3	82.3	82.3	82.3
Entering dry bulb (°F)	63.4	63.4	63.4	63.4
Leaving dry bulb (°F)	110.9	110.9	110.9	110.9
Face velocity (ft/min)	343	343	343	343
Air pressure drop (in of water)	0.10	0.10	0.10	0.10
Air fouling factor (h·ft²·°F/Btu)	0.00000	0.00000	0.00000	0.00000
Fluid	40% PG	40% PG	40% PG	40% PG
Entering fluid temp. (°F)	170.0	170.0	170.0	170.0
Leaving fluid temp. (°F)	150.0	150.0	150.0	150.0
Fluid flow rate (GPM)	8.9	8.9	8.9	8.9
Fluid velocity (ft/s)	2.42	2.42	2.42	2.42
Fluid pressure drop (ft of water)	6.5	6.5	6.5	6.5
Fluid fouling factor (h·ft²·°F/Btu)	0.00000	0.00000	0.00000	0.00000
Fluid freezing temp. (°F)	-6.7	-6.7	-6.7	-6.7
Min. tube wall temp. (°F)	141.6	141.6	141.6	141.6
Coils per bank	1	1	1	1
Coil type	5/8	5/8	5/8	5/8
Fin height (in)	24.0	24.0	24.0	24.0
Fin length (in)	28.0	28.0	28.0	28.0
Face area (ft²)	4.67	4.67	4.67	4.67
Rows	2	2	2	2
Fin spacing (fins/in)	8	8	8	8
Fin material	Al	Al	Al	Al
Fin type	Sine	Sine	Sine	Sine
Fin thickness (in)	0.006	0.006	0.006	0.006
Tube wall thickness (in)	0.020	0.020	0.020	0.020
Turbulators	Yes	Yes	Yes	Yes
Number of feeds	4	4	4	4
Supply conn. size (in)	1.000	1.000	1.000	1.000
Return conn. size (in)	1.000	1.000	1.000	1.000
Weight (lb)	46	46	46	46
Est. operating wt. (lb)	57	57	57	57
Est. internal volume (ft³)	0.19	0.19	0.19	0.19

R5.6 (Build 190440) - 0531 Page 1 of 4 Thursday, January 25, 2024

GREENHECK
Building Value in Air.

SUBMITTAL DATA

Bedford Fox La HS Phase 2 (REV-1) - Coils
Greenheck Coil HWC-DOAS-1 (REV-2)

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Hot Water Coil

Tag	Qty	Model	Footnotes	Comment
HWC-DOAS-1 (REV-2)	1	HW56S01A57-24x28-RH	a,b	

Construction and Performance Details

Tag	HWC-DOAS-1 (REV-2)
Air flow (SCFM)	1000
Altitude (ft)	0
Total capacity (MBH)	30.9
Entering dry bulb (°F)	56.8
Leaving dry bulb (°F)	85.4
Face velocity (ft/min)	214
Air pressure drop (in of water)	0.02
Air fouling factor (h·ft²·°F/Btu)	0.00000
Fluid	40% PG
Entering fluid temp. (°F)	170.0
Leaving fluid temp. (°F)	150.0
Fluid flow rate (GPM)	3.3
Fluid velocity (ft/s)	3.63
Fluid pressure drop (ft of water)	7.9
Fluid fouling factor (h·ft²·°F/Btu)	0.00000
Fluid freezing temp. (°F)	-6.7
Min. tube wall temp. (°F)	142.1
Coils per bank	1
Coil type	5/8
Fin height (in)	24.0
Fin length (in)	28.0
Face area (ft²)	4.67
Rows	1
Fin spacing (fins/in)	7
Fin material	Al
Fin type	Sine
Fin thickness (in)	0.006
Tube wall thickness (in)	0.020
Turbulators	No
Number of feeds	1
Supply conn. size (in)	0.750
Return conn. size (in)	0.750
Weight (lb)	29
Est. operating wt. (lb)	34
Est. internal volume (ft³)	0.09

Footnotes

(a) Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard-410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.com.

R5.6 (Build 190440) - 0531 Page 1 of 3 Friday, January 26, 2024

GREENHECK
Building Value in Air.

SUBMITTAL DATA

Bedford Fox La HS Phase 2 (REV-1) - Coils
USA

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Hot Water Coils

Tag	Qty	Model	Footnotes	Comment
HWC-DOAS-2	1	HW58S01B10-24x28-RH	a,b	

Construction and Performance Details

Tag	DOAS-2
Air flow (SCFM)	2120
Altitude (ft)	0
Total capacity (MBH)	70.2
Entering dry bulb (°F)	55.2
Leaving dry bulb (°F)	85.8
Face velocity (ft/min)	454
Air pressure drop (in of water)	0.10
Air fouling factor (h·ft²·°F/Btu)	0.00000
Fluid	40% PG
Entering fluid temp. (°F)	170.0
Leaving fluid temp. (°F)	150.0
Fluid flow rate (GPM)	7.5
Fluid velocity (ft/s)	4.12
Fluid pressure drop (ft of water)	7.2
Fluid fouling factor (h·ft²·°F/Btu)	0.00000
Fluid freezing temp. (°F)	-6.7
Min. tube wall temp. (°F)	133.4
Coils per bank	1
Coil type	5/8
Fin height (in)	24.0
Fin length (in)	28.0
Face area (ft²)	4.67
Rows	1
Fin spacing (fins/in)	10
Fin material	Al
Fin type	Sine
Fin thickness (in)	0.006
Tube wall thickness (in)	0.020
Turbulators	No
Number of feeds	2
Supply conn. size (in)	0.750
Return conn. size (in)	0.750
Weight (lb)	30

R5.6 (Build 190440) - 0531 Page 1 of 10 Wednesday, January 24, 2024

GREENHECK
Building Value in Air.

SUBMITTAL DATA

Bedford Fox La HS Phase 2 (REV-1) - Coils
USA

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Hot Water Coils

Tag	Qty	Model	Footnotes	Comment
HWC-LGI (REV-4)	1	HW56S02Q09-24x28-RH	a,b	
HWC-Classroom A(REV-4)	1	HW58S02B08-24x28-RH	b,c	
HWC-Classroom B(REV-4)	1	HW58S02B08-24x28-RH	b,c	
HWC-Library(REV-4)	1	HW58S03H09-24x28-RH	a,b	
HWC-Small Cafe ABCD (REV-4)	4	HW58S02Q09-24x28-RH	a,b	
HWC-Large Cafe(REV-4)	1	HW58S02F10-36x84-RH	a,b	
HWC-Small Gym-A,B(REV-4)	2	HW58S02Q10-24x28-RH	a,b	

Construction and Performance Details

Tag	LGI	Class A	Class B	Library	Sm Cafe	Lg Cafe	Sm Gym
Air flow (SCFM)	2000	1600	1600	4000	1600	9400	2400
Altitude (ft)	0	0	0	0	0	0	0
Total capacity (MBH)	108.0	83.8	83.5	223.2	96.4	534.5	135.2
Entering dry bulb (°F)	61.0	61.6	62.0	58.5	57.6	60.5	59.1
Leaving dry bulb (°F)	110.9	110.0	110.2	110.0	113.2	113.0	111.1
Face velocity (ft/min)	429	343	343	857	343	448	514
Air pressure drop (in of water)	0.16	0.10	0.10	0.67	0.12	0.19	0.24
Air fouling factor (h·ft²·°F/Btu)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Fluid	40% PG	40% PG	40% PG	40% PG	40% PG	40% PG	40% PG
Entering fluid temp. (°F)	170.0	170.0	170.0	170.0	170.0	170.0	170.0
Leaving fluid temp. (°F)	150.0	150.0	150.0	150.0	150.0	150.0	150.0
Fluid flow rate (GPM)	11.6	9.0	9.0	24.0	10.4	57.5	14.5
Fluid velocity (ft/s)	3.17	4.92	4.90	3.28	2.83	2.61	3.97
Fluid pressure drop (ft of water)	10.8	13.9	13.7	13.1	8.7	6.6	15.4
Fluid fouling factor (h·ft²·°F/Btu)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Fluid freezing temp. (°F)	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7
Min. tube wall temp. (°F)	141.1	141.5	141.5	138.1	141.3	138.6	140.7
Coils per bank	1	1	1	1	1	1	1
Coil type	5/8	5/8	5/8	5/8	5/8	5/8	5/8
Fin height (in)	24.0	24.0	24.0	24.0	24.0	36.0	24.0
Fin length (in)	28.0	28.0	28.0	28.0	28.0	84.0	28.0
Face area (ft²)	4.67	4.67	4.67	4.67	4.67	21.00	4.67
Rows	2	2	2	3	2	2	2
Fin spacing (fins/in)	9	8	8	9	9	10	10
Fin material	Al	Al	Al	Al	Al	Al	Al
Fin type	Sine	Sine	Sine	Sine	Sine	Sine	Sine
Fin thickness (in)	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Tube wall thickness (in)	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Turbulators	Yes	No	No	Yes	Yes	Yes	Yes
Number of feeds	4	2	2	8	4	24	4
Supply conn. size (in)	1.000	1.000	1.000	1.000	1.000	2.000	1.250
Return conn. size (in)	1.000	1.000	1.000	1.000	1.000	2.000	1.250
Weight (lb)	47	43	43	57	47	166	49

R5.6 (Build 190440) - 0531 Page 1 of 6 Tuesday, November 26, 2024

GREENHECK
Building Value in Air.

SUBMITTAL DATA

Bedford Fox La HS Phase 2 (REV-1) - Coils
USA

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Construction and Performance Details(cont.)

Tag	...-4)	...-4)	...-4)	...-4)	...-4)	...-4)	...-4)
Est. operating wt. (lb)	58	52	52	73	58	228	61
Est. internal volume (ft³)	0.19	0.18	0.18	0.28	0.19	0.86	0.21

Footnotes

(a) Coil is NOT certified by AHRI.
(b) Tube OD 0.625, Tube spacing 1.500 x 1.299
(c) Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard-410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.com.

R5.6 (Build 190440) - 0531 Page 2 of 6 Tuesday, November 26, 2024

HWC- SMALL CAFE A,B,C,D

NOTE: HOT WATER DUCT COIL TIED TO RTU- SMALL CAFE A,B,C & D RESPECTIVELY

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED CLEARANCES WHERE IT IS TO BE INSTALLED.
2. INSTALL IN ACCORDANCE WITH APPROVED MANUFACTURER'S EXACT REQUIREMENTS.
3. MC SHALL HAVE PROPOSED COIL MANUFACTURER MAKE VISIT TO FIELD MEASURE DUCTWORK WHERE COIL IS TO BE INSTALLED PRIOR TO GENERATING SUBMITTAL.

DUCT MOUNTED HOT WATER COIL (HWC-DOAS-1)

NOTE: HOT WATER DUCT COIL TIED TO DOAS-1, LOCATED ON ROOF

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED CLEARANCES WHERE IT IS TO BE INSTALLED.
2. INSTALL IN ACCORDANCE WITH APPROVED MANUFACTURER'S EXACT REQUIREMENTS.
3. MC SHALL HAVE PROPOSED COIL MANUFACTURER MAKE VISIT TO FIELD MEASURE DUCTWORK WHERE COIL IS TO BE INSTALLED PRIOR TO GENERATING SUBMITTAL.

DUCT MOUNTED HOT WATER COIL (HWC-DOAS-2)

NOTE: HOT WATER DUCT COIL TIED TO DOAS-2 ON ROOF

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED CLEARANCES WHERE IT IS TO BE INSTALLED.
2. INSTALL IN ACCORDANCE WITH APPROVED MANUFACTURER'S EXACT REQUIREMENTS.
3. MC SHALL HAVE PROPOSED COIL MANUFACTURER MAKE VISIT TO FIELD MEASURE DUCTWORK WHERE COIL IS TO BE INSTALLED PRIOR TO GENERATING SUBMITTAL.

DUCT MOUNTED HOT WATER COIL (TAG AS NOTED ON SHEET)

NOTE: HOT WATER DUCT COIL TIED TO EACH RESPECTIVE RTU AS NOTED

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED CLEARANCES WHERE IT IS TO BE INSTALLED.
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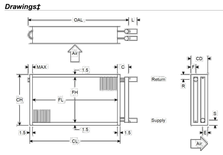
GREENHECK
Building Value in Air.

SUBMITTAL DRAWINGS

Bedford Fox La HS Phase 2 (REV-1) - Coils
USA

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Drawings‡



‡ Ventdrain diameter: 1/2", type: FPT, location: Face.

Dimensions*

Tag	HWC-LGI (REV-4)	HWC-Library(REV-4)
Model	HW58S02Q09-24x28-RH	HW58S03H09-24x28-RH
Weight	47	57
Fin material & type	0.006 Aluminum Sine-wave	0.006 Aluminum Sine-wave
Tube wall	0.02 / Smooth	0.02 / Smooth
Casing material / flange	16 ga. galv. steel (std) / Stacking	16 ga. galv. steel (std) / Stacking
Coating	None	None
Turbulators	Yes	Yes
Header diameter	1.125	1.125
Supply / return conn. size	1 / 1	1 / 1
Connection type	MPT Copper	MPT Copper
Number of feeds	4 (Quarter)	8 (Half)
FH / FL	24 / 28	24 / 28
CH / CL	27 / 31	27 / 31
OAL / CD	34.5 / 6.5	34.5 / 6.5
C	4.25	4.25
S / R	2 / 2	2 / 2
E / F	2.6 / 2.6	1.95 / 1.95
L / MAX	2 / 2.25	2 / 2.25

* All distances are measured as inches.

R5.6 (Build 190440) - 0531 Page 3 of 6 Tuesday, November 26, 2024

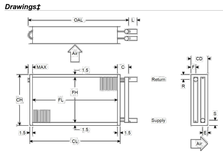
GREENHECK
Building Value in Air.

SUBMITTAL DRAWINGS

Bedford Fox La HS Phase 2 (REV-1) - Coils
USA

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Drawings‡



‡ Ventdrain diameter: 1/2", type: FPT, location: Face.

Dimensions*

Tag	HWC-Small Cafe ABCD (REV-4)	HWC-Large Cafe(REV-4)
Model	HW58S02Q09-24x28-RH	HW58S02F10-36x84-RH
Weight	47	166
Fin material & type	0.006 Aluminum Sine-wave	0.006 Aluminum Sine-wave
Tube wall	0.02 / Smooth	0.02 / Smooth
Casing material / flange	16 ga. galv. steel (std) / Stacking	16 ga. galv. steel (std) / Stacking
Coating	None	None
Turbulators	Yes	Yes
Header diameter	1.125	2.125
Supply / return conn. size	1 / 1	1 / 2
Connection type	MPT Copper	MPT Copper
Number of feeds	4 (Quarter)	24 (Full)
FH / FL	24 / 28	36 / 84
CH / CL	27 / 31	39 / 87
OAL / CD	34.5 / 6.5	91.5 / 6.5
C	4.25	5.25
S / R	2 / 2	2.5 / 2.5
E / F	2.6 / 2.6	1.85 / 1.85
L / MAX	2 / 2.25	3.5 / 2.25

* All distances are measured as inches.

R5.6 (Build 190440) - 0531 Page 4 of 6 Tuesday, November 26, 2024

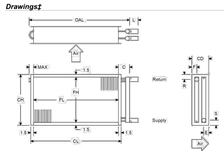
GREENHECK
Building Value in Air.

SUBMITTAL DRAWINGS

Bedford Fox La HS Phase 2 (REV-1) - Coils
Greenheck Coil HWC-Small Gym-A,B(REV-4)

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Drawings‡



‡ Ventdrain diameter: 1/2", type: FPT, location: Face.

Dimensions*

Tag	HWC-Small Gym-A,B(REV-4)
Model	HW58S02Q10-24x28-RH
Weight	49
Fin material & type	0.006 Aluminum Sine-wave
Tube wall	0.02 / Smooth
Casing material / flange	16 ga. galv. steel (std) / Stacking
Coating	None
Turbulators	Yes
Header diameter	1.375
Supply / return conn. size	1.25 / 1.25
Connection type	MPT Copper
Number of feeds	4 (Quarter)
FH / FL	24 / 28
CH / CL	27 / 31
OAL / CD	34.75 / 6.5
C	4.5
S / R	2.125 / 2.125
E / F	1.85 / 1.85
L / MAX	3 / 2.25

* All distances are measured as inches.

R5.6 (Build 190440) - 0531 Page 5 of 6 Tuesday, November 26, 2024

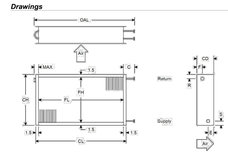
GREENHECK
Building Value in Air.

SUBMITTAL DRAWINGS

Bedford Fox La HS Phase 2 (REV-1) - Coils
USA

888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

Drawings



Dimensions*

Tag	HWC-Classroom A(REV-4)	HWC-Classroom B(REV-4)
Model	HW58S02B08-24x28-RH	HW58S02B08-24x28-RH
Weight	43	43
Fin material & type	0.006 Aluminum Sine-wave	0.006 Aluminum Sine-wave
Tube wall	0.02 / Smooth	0.02 / Smooth
Casing material / flange	16 ga. galv. steel (std) / Stacking	16 ga. galv. steel (std) / Stacking
Coating	None	None
Turbulators	No	No
Supply / return conn. size	1 / 1	1 / 1
Connection type	MPT Copper	MPT Copper
Number of feeds	2	2
FH / FL	24 / 28	24 / 28
CH / CL	27 / 31	27 / 31
OAL / CD	34.25 / 6.5	34.25 / 6.5
C	4	4
S / R	1.875 / 1.875	1.875 / 1.875
E / F	2.6 / 2.6	2.6 / 2.6
MAX	2.25	2.25

* All distances are measured as inches.

R5.6 (Build 190440) - 0531 Page 6 of 6 Tuesday, November 26, 2024

DUCT MOUNTED HOT WATER COIL DIMENSIONS

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED CLEARANCES WHERE IT IS TO BE INSTALLED.
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REV.	DATE	ITEM

NOTICE

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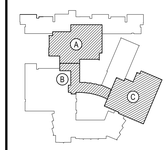

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
HOT WATER COIL SCHEDULES

DRAWING BY: GWT
CHECK BY: - - -

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	HOT WATER COIL SCHEDULES
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.05

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 01/22/2024
Mark: HV-LOCKER SUITE
Model: MSX-P112-H12-MF

MSX-P112-H12-MF
Unit Performance

Design Conditions					
Elevation (ft)	Summer DB (°F)	Summer WB (°F)	Winter (°F)	Supply (CFM)	Outdoor Air (CFM)
30	95.0	78.0	0.0	1,965	1,965

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	858 (+/- 5%)	None	Hot Water Coil	Outdoor/Indoor	UL / cUL 60335-2-40

Configuration				
Unit Orientation	Unit Configuration	Outdoor Air Intake	Return Air Intake	Supply Air Discharge
Horizontal	Constant Volume 100% OA	End	-	End

Heating Specifications									
Type	Fluid Type: Type	Fluid Type: %	Flow Rate (GPM)	Fluid PD (ft wg)	Capacity (MBH)	Fluid Conditions: EWT (°F)	Fluid Conditions: LWT (°F)	Performance: EAT (°F)	Performance: LAT (°F)
Hot Water	Propylene	40	27.5	3.30	255.4	170.0	150.0	0.0	120.1

Air Performance									
Type	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Fan: Qty	Fan: Type	Fan: Size (in.)	Fan: Drive-Type
Supply	1,965	1.5	2.04	2439	1.15	1	Mixed Flow	15	Direct-Drive

Motor Specifications					
Motor	Qty	Size (HP)	Enclosure	Efficiency	RPM
Supply Fan Motor	1	1-1/2	ODP	NEMA Premium	1725

Electrical Specifications				
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	SCCR
Unit	208/60/3	8.7	15	5kA

C ETL US LISTED INTERTEK

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 01/22/2024
Mark: HV-LOCKER SUITE
Model: MSX-P112-H12-MF

CONSTRUCTION FEATURES AND ACCESSORIES

Unit	
Unit Installation - Indoor or Outdoor	Std
Unit Construction - Double Wall	X
Wall Insulation - 1in. fiberglass - Entire unit	X
Base Insulation - 1in. fiberglass - entire unit base pan	Std
Paneled Bottom - Sheet metal liner for base insulation	X
Corrosion Resistant Fasteners	Std
Access and Connections - Right side when facing intake	X
Service Access - Hinged access doors	X
Unit Finish - G90 Galvanized	X
Finish Color	
Supply Fan - Direct-drive, mixed flow plenum	X
Supply Fan and Motor Vibration isolation - Neoprene	X
Controls	
Unit Controls - Microprocessor	X
Remote Panel	
BMS Communication - Monitoring and control	X
BMS Protocol - BACnet MSTP	X
Temperature Control - Discharge control	X
Supply Fan VFD - VFD by factory	X
Supply Fan Control - Constant Volume	X
Unoccupied Mode (Night Setback)	
Recirculation Control	
Control Accessories	
Remote display	
Heating Inlet Air Sensor	X
Cooling Inlet Air Sensor	
Dirty Filter Switch	X
Fire Stat Type III (Ships loose)	
120V/24V Smoke Detector (Ships loose)	
Inlet Damper End Switch	
External Cooling Lockout Relay	
Freeze Protection (Supply Air Low Limit)	X
Auxiliary Supply Starter Contacts	
Auxiliary Exhaust Starter Contacts	
Heating Coil Freeze Protection	
Airflow Proving Monitoring Contact	

Accessories	
Factory Installed, Lockable, NEMA 3R Disconnect	Std
Weatherhood	
Supply Air Filters - 2" MERV 8, 16x20x2 - (4)	X
Outdoor Air Inlet Damper - Low leakage	X
Supply Air Outlet Damper	
Return Air Damper	
Diffuser	
Roof Curb	
Combination Curb	
Electrofin Coil Coating	
Fan Bearing Extended Lube Lines	
Inlet Damper Module	X
Spare Belts	
Spare Filters	
Motor with Shaft Grounding	
Service Outlet	
Service Lights	
Warranty Options	
Unit Warranty - 18 months (std.)	X
5 Year Compressor Warranty	

Standard Option	Std
Not Included	
Included	X

Notes
Damper(s) supplied are low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in.wg), Class 1A
Verify that the correct BMS Protocol has been selected before ordering.

GREENHECK
Building Value in Air.

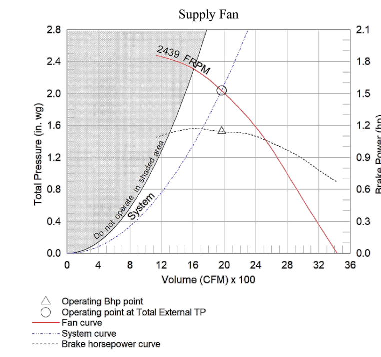
Cut Sheet - Not for Submittal
Printed Date: 01/22/2024
Mark: HV-LOCKER SUITE
Model: MSX-P112-H12-MF

Fan Charts And Performance

Supply Fan Performance										
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor: Qty	Motor: Size (HP)	Fan: Qty	Fan: Type	Fan: Drive-Type
1,965	1.5	2.04	2439	1.15	1	1-1/2	1	Mixed Flow	Direct

Pressure Drop (in. wg)							
Diffuser	Weatherhood	Filter	Damper	Cooling	Heating	External	Total
-	-	0.076	0.032	-	0.431	1.5	2.04

Sound Performance in Accordance with AMCA										
Sound Power by Octave Band: 62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
77	72	75	70	75	76	74	69	81	70	17.6



GREENHECK
Building Value in Air.

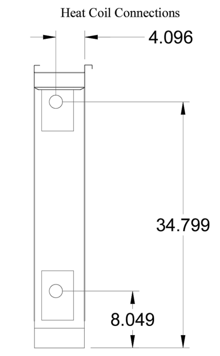
Cut Sheet - Not for Submittal
Printed Date: 01/22/2024
Mark: HV-LOCKER SUITE
Model: MSX-P112-H12-MF

Heating Specifications

Heating Performance									
Type	Fluid Type: Type	Fluid Type: %	Flow Rate (GPM)	Fluid PD (ft wg)	Capacity (MBH)	Fluid Conditions: EWT (°F)	Fluid Conditions: LWT (°F)	Performance: EAT (°F)	Performance: LAT (°F)
Hot Water	Propylene	40	27.5	3.30	255.4	170.0	150.0	0.0	120.1

Coil Information				
HW Coil Model	Fins Per Inch	Rows Deep	Face Velocity (ft/min)	Connection Size (in.)
Custom	14	3	449	2.5

Unit Details	
Copper tube, aluminum fin coil construction	Coil control valves must be field provided by others



GENERAL SCHEDULE NOTES :
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
5. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
6. REFER TO EACH HV UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.

HV- LOCKER SUITE

NOTE: GREENHECK MSX-P112-H12-MF, FURNISH AS NOTED ON ABOVE CUTSHEET

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 10/07/2024
Mark: HV-VISITING LOCKERS (REV-1)
Model: MSX-P109-H12-MF

MSX-P109-H12-MF
Unit Performance

Design Conditions					
Elevation (ft)	Summer DB (°F)	Summer WB (°F)	Winter (°F)	Supply (CFM)	Outdoor Air (CFM)
30	95.0	78.0	0.0	1,170	1,170

Unit Specifications					
Qty	Weight (lb)	Cooling Type	Heating Type	Unit Installation	Unit ETL Listing
1	829 (+/- 5%)	None	Hot Water Coil	Outdoor/Indoor	UL / cUL 60335-2-40

Configuration				
Unit Orientation	Unit Configuration	Outdoor Air Intake	Return Air Intake	Supply Air Discharge
Horizontal	Constant Volume 100% OA	End	-	End

Heating Specifications									
Type	Fluid Type: Type	Fluid Type: %	Flow Rate (GPM)	Fluid PD (ft wg)	Capacity (MBH)	Fluid Conditions: EWT (°F)	Fluid Conditions: LWT (°F)	Performance: EAT (°F)	Performance: LAT (°F)
Hot Water	Propylene	40	13.4	0.459	124.7	170.0	150.0	0.0	98.5

Air Performance									
Type	Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Fan: Qty	Fan: Type	Fan: Size (in.)	Fan: Drive-Type
Supply	1,170	1.5	1.64	2777	0.56	1	Mixed Flow	11	Direct-Drive

Motor Specifications					
Motor	Qty	Size (HP)	Enclosure	Efficiency	RPM
Supply Fan Motor	1	3/4	ODP	Standard	3600

Electrical Specifications				
Power Supply	Rating (V/C/P)	MCA (A)	MOP (A)	SCCR
Unit	208/60/3	4.8	15	5kA

C ETL US LISTED INTERTEK

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 10/07/2024
Mark: HV-VISITING LOCKERS (REV-1)
Model: MSX-P109-H12-MF

CONSTRUCTION FEATURES AND ACCESSORIES

Unit	
Unit Installation - Indoor or Outdoor	Std
Unit Construction - Double Wall	X
Wall Insulation - 1in. fiberglass - Entire unit	X
Base Insulation - 1in. fiberglass - entire unit base pan	Std
Paneled Bottom - Sheet metal liner for base insulation	X
Corrosion Resistant Fasteners	Std
Access and Connections - Right side when facing intake	X
Service Access - Hinged access doors	X
Unit Finish - G90 Galvanized	X
Finish Color	
Supply Fan - Direct-drive, mixed flow plenum	X
Supply Fan and Motor Vibration isolation - Neoprene	X
Controls	
Unit Controls - Microprocessor	X
Remote Panel	
BMS Communication - Monitoring and control	X
BMS Protocol - BACnet MSTP	X
Temperature Control - Discharge control	X
Supply Fan VFD - VFD by factory	X
Supply Fan Control - Constant Volume	X
Unoccupied Mode (Night Setback)	
Recirculation Control	
Control Accessories	
Touchscreen Mount	
Heating Inlet Air Sensor	X
Cooling Inlet Air Sensor	
Dirty Filter Switch	X
Fire Stat Type III (Ships loose)	
120V/24V Smoke Detector (Ships loose)	
Inlet Damper End Switch	
External Cooling Lockout Relay	
Freeze Protection (Supply Air Low Limit)	X
Auxiliary Supply Starter Contacts	
Auxiliary Exhaust Starter Contacts	
Heating Coil Freeze Protection	
Airflow Proving Monitoring Contact	

Accessories	
Factory Installed, Lockable, NEMA 3R Disconnect	Std
Weatherhood	
Supply Air Filters - 2" MERV 8, 16x20x2 - (4)	X
Outdoor Air Inlet Damper - Low leakage	X
Supply Air Outlet Damper	
Return Air Damper	
Diffuser	
Roof Curb	
Combination Curb	
Electrofin Coil Coating	
Fan Bearing Extended Lube Lines	
Inlet Damper Module	X
Spare Belts	
Spare Filters	
Motor with Shaft Grounding	
Service Outlet	
Service Lights	
Warranty Options	
Unit Warranty - 18 months (std.)	X
5 Year Compressor Warranty	

Standard Option	Std
Not Included	
Included	X

Notes
Damper(s) supplied are low leakage, motorized VCD-23 (leakage rate of 3 CFM/ft^2 @ 1 in.wg), Class 1A
Verify that the correct BMS Protocol has been selected before ordering.

GREENHECK
Building Value in Air.

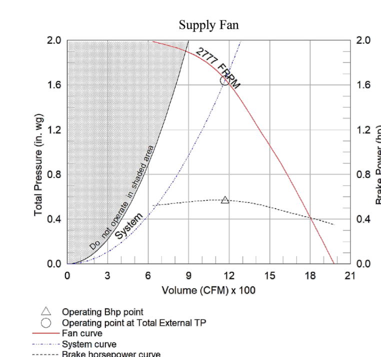
Cut Sheet - Not for Submittal
Printed Date: 10/07/2024
Mark: HV-VISITING LOCKERS (REV-1)
Model: MSX-P109-H12-MF

Fan Charts And Performance

Supply Fan Performance									
Total Volume (CFM)	External SP (in. wg)	Total SP (in. wg)	RPM	Operating Power (hp)	Motor: Qty	Motor: Size (HP)	Fan: Qty	Fan: Type	Fan: Drive-Type
1,170	1.5	1.64	2777	0.56	1	3/4	1	Mixed Flow	Direct

Pressure Drop (in. wg)							
Diffuser	Weatherhood	Filter	Damper	Cooling	Heating	External	Total
-	-	0.027	0.011	-	0.101	1.5	1.64

Sound Performance in Accordance with AMCA										
Sound Power by Octave Band: 62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones
75	69	73	69	72	75	74	67	80	69	16.5



GREENHECK
Building Value in Air.

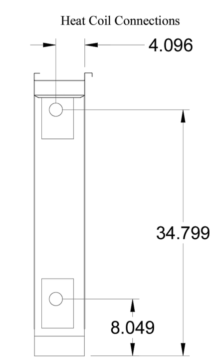
Cut Sheet - Not for Submittal
Printed Date: 10/07/2024
Mark: HV-VISITING LOCKERS (REV-1)
Model: MSX-P109-H12-MF

Heating Specifications

Heating Performance									
Type	Fluid Type: Type	Fluid Type: %	Flow Rate (GPM)	Fluid PD (ft wg)	Capacity (MBH)	Fluid Conditions: EWT (°F)	Fluid Conditions: LWT (°F)	Performance: EAT (°F)	Performance: LAT (°F)
Hot Water	Propylene	40	13.4	0.459	124.7	170.0	150.0	0.0	98.5

Coil Information				
HW Coil Model	Fins Per Inch	Rows Deep	Face Velocity (ft/min)	Connection Size (in.)
HW58S02H12-30x21	12	2	267	2.5

Unit Details	
Copper tube, aluminum fin coil construction	Coil control valves must be field provided by others



GENERAL SCHEDULE NOTES :
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
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6. REFER TO EACH HV UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.

HV- VISITING LOCKERS

NOTE: GREENHECK MSX-P109-H12-MF, FURNISH AS NOTED ON ABOVE CUTSHEET

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 02/05/2025
Mark: Louvers (Chanel Frame)
Model: EHV-550D

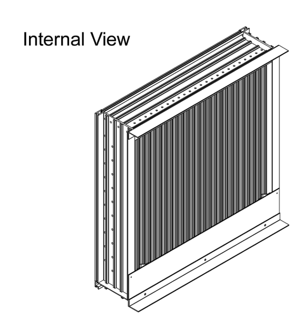
EHV-550D
AMCA 540 and 550 Listed Hurricane Louver
Miami-Dade and Florida Product Approved
Extruded Aluminum, Wind-Driven Rain

EHV-550D 5.5 in. Frame

APPLICATION & DESIGN
EHV-550D is a Miami-Dade County and Florida Product Approved stationary horizontal blade wind driven rain extruded aluminum louver designed to protect air intake and exhaust openings in building exterior walls. EVH-550D is tested in accordance with AMCA 500-L Air Performance, Water Penetration and Wind Drive Rain. EHV-550D is tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris (Enhanced Protection, Missile Level E). EHV-550D is tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. EHV-550D is licensed to bear the AMCA seal allowing design professionals to select and apply with confidence. EHV-550D is tested and qualified per the following Florida test protocols: TAS 201(Large Missile Impact), TAS 202(Uniform Static Air Pressure), and TAS 203(Cyclic Wind Loading). Per Miami-Dade D.R.E.R., EHV-550D may be installed in locations where the room behind the louver is NOT designed to drain water penetrating into the room or the room will house non-water resistant or water proof equipment components or supplies.

PRODUCT DETAILS
Frame: 5.5 in. x 0.188 in. Frame Thickness
Frame Type: Channel
Blades: 0.08 in. Fixed Blade Thickness
Material: Aluminum
Sizing: Rough Opening
Shape: Rectangular
Construction: Mechanically Fastened
Impact Qualified: Enhanced Lev E

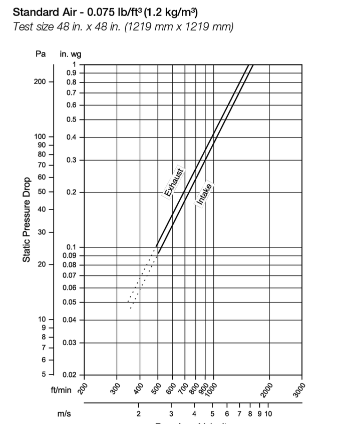
Internal View



Width and height furnished approximately 0.50 under size.

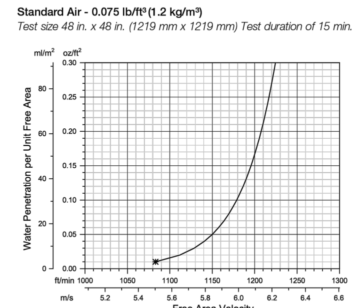
OPTIONS & ACCESSORIES
Finish: Mill
Bird Screen: 0.75 in. x 0.05 in., Flat Expanded Aluminum, Internal, Mill Finish
Mounting: Continuous Angles
Union Label: Required
Warranty: 1 year Standard Product Warranty

Airflow Resistance
Standard Air - 0.075 lb/ft³ (1.2 kg/m³)
Test size 48 in. x 48 in. (1219 mm x 1219 mm)



Model EHV-550D resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information. (Test Figure 5.5-6.5)

Water Penetration
Standard Air - 0.075 lb/ft³ (1.2 kg/m³)
Test size 48 in. x 48 in. (1219 mm x 1219 mm) Test duration of 15 min.



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through 0.01 oz. (3 g) of water (penetration) per sq. ft. (m²) of louver free area. •**The beginning point of water penetration for Model EHV-550D is 1083 fpm (5.502 m/s) free area velocity.** These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

SUMMARY

ID #	TAG	QTY	W (in.)	H (in.)	FREE AREA (ft2)	FREE AREA (%)	SECT. WIDE	SECT. HIGH	SECT. SHIP	MAX STRUCT. DEPTH (in.)
25-1		1	50	36	5.75	47.1	1	1	1	9,999

PERFORMANCE

ID #	TAG	APPLICATION	VOLUME (CFM)	FREE AREA VELOCITY (ft/min)	PRESSURE DROP (in. wg)	BPWP (ft/min)
25-1		Intake	2,000	348	0.045	1,083

**Calculated pressure drop does not include the effects of screens, filters or other accessories

Total Louver Qty: 1 **Total Weight (lb):** 97 **Louver Area (ft2):** 13
Total Ship Sect.: 1

**Weight shown is an estimate only based on the default base product configuration without options or accessories.
The maximum design wind load is 100 PSF. Please refer to the product data submittal information for installation instructions. Any additional structural reinforcing members or materials not otherwise shown as "By Greenheck" shall be considered by others. Unless indicated otherwise the following are NOT included in the quote provided: structural steel, anchors into surrounding substrate or structure, shims, backer rod, sealant, dissimilar material isolation, field measuring, installation, flashing, trim, enclosures, blankoff panels, mullion covers, hinged frames, removable subframes, custom bird/insect screen, 3-coat, metallic and/or exotic paint finishes, bituminous paints, taxes, PE stamped structural calculations or job specific engineered submittal drawings. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blankoff panels are not subject to structural analysis unless indicated otherwise by Greenheck.

Wind-Driven Rain Performance

3 in./hr. (75 mm/hr.) Rainfall Rate & 29 mph (13 m/s) Wind Velocity: Ventilation Air Core Velocity fpm (m/s)	Ventilation Air Free Area Velocity fpm (m/s)	Water Penetration Effectiveness %	Water Penetration Classification	8 in./hr. (203 mm/hr.) Rainfall Rate & 50 mph (22.4 m/s) Wind Velocity: Ventilation Air Core Velocity fpm (m/s)	Ventilation Air Free Area Velocity fpm (m/s)	Water Penetration Effectiveness %	Water Penetration Classification
0 (0.0)	0 (0.0)	100	A	0 (0.0)	0 (0.0)		A
98 (0.5)	177 (0.9)	100	A	98 (0.5)	177 (0.9)		A
197 (1.0)	356 (1.8)	100	A	197 (1.0)	356 (1.8)		A
295 (1.5)	533 (2.7)	100	A	295 (1.5)	533 (2.7)		A
394 (2.0)	712 (3.6)	100	A	394 (2.0)	712 (3.6)		A
492 (2.5)	889 (4.5)	100	A	492 (2.5)	889 (4.5)		A
591 (3.0)	1068 (5.4)	100	A	591 (3.0)	1068 (5.4)		A
689 (3.5)	1245 (6.3)	100	A	689 (3.5)	1245 (6.3)		A
787 (4.0)	1422 (7.2)	100	A	782 (4.0)	1413 (7.2)	99.7	A
886 (4.5)	1600 (8.1)	100	A	883 (4.5)	1595 (8.1)	99.6	A
980 (5.0)	1770 (9.0)	100	A	980 (5.0)	1770 (9.0)	99.5	A

Wind-Driven Rain Penetration Classes: Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.80

Water penetration classification ratings are based on the amount of simulated rain that penetrates the louver during a specific rainfall rate, wind velocity, and intake velocity. Ratings are based on a 39.4 in. x 39.4 in. (1 m x 1 m) core size.

L-HV- LOCKER SUITE

NOTE: MC TO FURNISH WITH BIRD SCREEN, TO BE INSTALLED IN EXISTING OPENING LOCATED IN WALL

GREENHECK
Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 02/05/2025
Mark: Louvers (Flanged Frame)
Model: EHV-550D

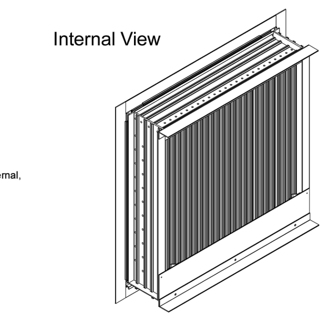
EHV-550D
AMCA 540 and 550 Listed Hurricane Louver
Miami-Dade and Florida Product Approved
Extruded Aluminum, Wind-Driven Rain

EHV-550D 5.5 in. Frame

APPLICATION & DESIGN
EHV-550D is a Miami-Dade County and Florida Product Approved stationary horizontal blade wind driven rain extruded aluminum louver designed to protect air intake and exhaust openings in building exterior walls. EVH-550D is tested in accordance with AMCA 500-L Air Performance, Water Penetration and Wind Drive Rain. EHV-550D is tested in accordance with AMCA 540 Test Method for Louvers Impacted by Wind Borne Debris (Enhanced Protection, Missile Level E). EHV-550D is tested in accordance with AMCA 550 Test Method for High Velocity Wind Driven Rain Resistant Louvers. EHV-550D is licensed to bear the AMCA seal allowing design professionals to select and apply with confidence. EHV-550D is tested and qualified per the following Florida test protocols: TAS 201(Large Missile Impact), TAS 202(Uniform Static Air Pressure), and TAS 203(Cyclic Wind Loading). Per Miami-Dade D.R.E.R., EHV-550D may be installed in locations where the room behind the louver is NOT designed to drain water penetrating into the room or the room will house non-water resistant or water proof equipment components or supplies.

PRODUCT DETAILS
Frame: 5.5 in. x 0.188 in. Frame Thickness
Frame Type: Flanged, 1.5 in., Exterior
Blades: 0.08 in. Fixed Blade Thickness
Material: Aluminum
Sizing: Rough Opening
Shape: Rectangular
Construction: Mechanically Fastened
Impact Qualified: Enhanced Lev E

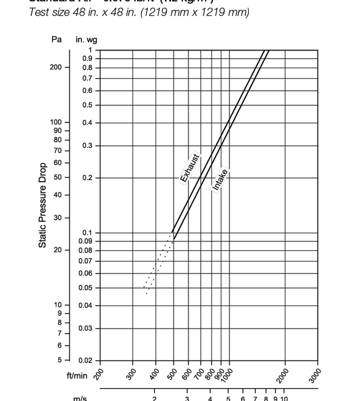
Internal View



Width and height furnished approximately 0.50 under size.

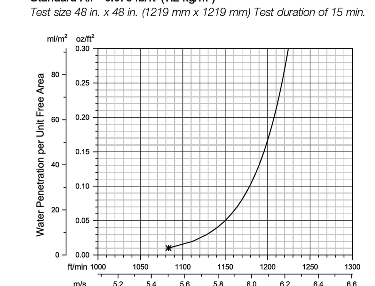
OPTIONS & ACCESSORIES
Finish: Mill
Bird Screen: 0.75 in. x 0.05 in., Flat Expanded Aluminum, Internal, Mill Finish
Mounting: Continuous Angles
Union Label: Required
Warranty: 1 year Standard Product Warranty

Airflow Resistance
Standard Air - 0.075 lb/ft³ (1.2 kg/m³)
Test size 48 in. x 48 in. (1219 mm x 1219 mm)



Model EHV-550D resistance to airflow (pressure drop) varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information. (Test Figure 5.5-6.5)

Water Penetration
Standard Air - 0.075 lb/ft³ (1.2 kg/m³)
Test size 48 in. x 48 in. (1219 mm x 1219 mm) Test duration of 15 min.



The AMCA Water Penetration Test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory test conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through 0.01 oz. (3 g) of water (penetration) per sq. ft. (m²) of louver free area. •**The beginning point of water penetration for Model EHV-550D is 1083 fpm (5.502 m/s) free area velocity.** These performance ratings do not guarantee a louver to be weatherproof or stormproof and should be used in combination with other factors including good engineering judgement in selecting louvers.

SUMMARY

ID #	TAG	QTY	W (in.)	H (in.)	FREE AREA (ft2)	FREE AREA (%)	SECT. WIDE	SECT. HIGH	SECT. SHIP	MAX STRUCT. DEPTH (in.)
26-1		1	32	20	1.63	38.3	1	1	1	9,999

PERFORMANCE

ID #	TAG	APPLICATION	VOLUME (CFM)	FREE AREA VELOCITY (ft/min)	PRESSURE DROP (in. wg)	BPWP (ft/min)
26-1		Intake	1,200	735	0.203	1,083

**Calculated pressure drop does not include the effects of screens, filters or other accessories

Total Louver Qty: 1 **Total Weight (lb):** 34 **Louver Area (ft2):** 4
Total Ship Sect.: 1

**Weight shown is an estimate only based on the default base product configuration without options or accessories.
The maximum design wind load is 100 PSF. Please refer to the product data submittal information for installation instructions. Any additional structural reinforcing members or materials not otherwise shown as "By Greenheck" shall be considered by others. Unless indicated otherwise the following are NOT included in the quote provided: structural steel, anchors into surrounding substrate or structure, shims, backer rod, sealant, dissimilar material isolation, field measuring, installation, flashing, trim, enclosures, blankoff panels, mullion covers, hinged frames, removable subframes, custom bird/insect screen, 3-coat, metallic and/or exotic paint finishes, bituminous paints, taxes, PE stamped structural calculations or job specific engineered submittal drawings. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blankoff panels are not subject to structural analysis unless indicated otherwise by Greenheck.

Wind-Driven Rain Performance

3 in./hr. (75 mm/hr.) Rainfall Rate & 29 mph (13 m/s) Wind Velocity: Ventilation Air Core Velocity fpm (m/s)	Ventilation Air Free Area Velocity fpm (m/s)	Water Penetration Effectiveness %	Water Penetration Classification	8 in./hr. (203 mm/hr.) Rainfall Rate & 50 mph (22.4 m/s) Wind Velocity: Ventilation Air Core Velocity fpm (m/s)	Ventilation Air Free Area Velocity fpm (m/s)	Water Penetration Effectiveness %	Water Penetration Classification
0 (0.0)	0 (0.0)	100	A	0 (0.0)	0 (0.0)		A
98 (0.5)	177 (0.9)	100	A	98 (0.5)	177 (0.9)		A
197 (1.0)	356 (1.8)	100	A	197 (1.0)	356 (1.8)		A
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Wind-Driven Rain Penetration Classes: Class	Effectiveness
A	1 to 0.99
B	0.989 to 0.95
C	0.949 to 0.80
D	Below 0.80

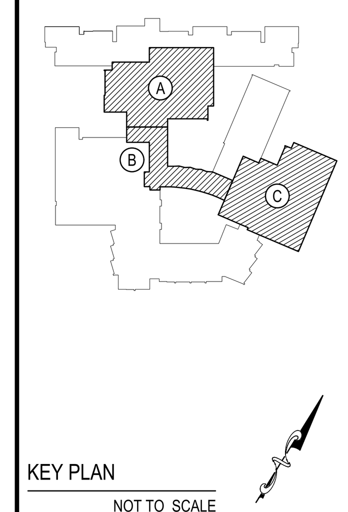
Water penetration classification ratings are based on the amount of simulated rain that penetrates the louver during a specific rainfall rate, wind velocity, and intake velocity. Ratings are based on a 39.4 in. x 39.4 in. (1 m x 1 m) core size.

L-HV- VISITING LOCKERS

NOTE: MC TO FURNISH WITH BUG SCREEN & FLANGE, TO BE INSTALLED IN EXISTING WINDOW, IN BLANK OUT PANEL PROVIDED AND INSTALLED BY MC.

REV.	DATE	ITEM

NOTICE
THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. AND, THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.



KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
HEATING and VENTILATING SCHEDULES

DRAWING BY: GWT
CHECK BY: - - -

NOTICE
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SED No. 66-01-02-06-0-003-024
DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT: PHASE 2 - BOND IMPROVEMENTS
DWG TITLE: HEATING and VENTILATING SCHEDULES

SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

M6.06

HYDRONIC UNIT HEATERS

ZEHNDER-RITTLING AS STD.

General								Heating												Unit Dimensions			Unit Electrical		
Quantity	Tag	Model	Size	Airflow CFM	Altitude (ft.)	Coil Config	Fan Speed	EAT DB (deg.F)	LAT DB (deg.F)	Total Capacity (MBH)	Max Mounting Height (in.)	Fluid Flow (gpm)	WPD (ft.)	EWT (deg.F)	Fluid ΔT (deg.F)	LWT (deg.F)	Fluid Type	Glycol %	FPI	Unit Height (in.)	Unit Width (in.)	Unit Length (in.)	Unit Voltage	Motor HP	Motor FLA
1	UH-212	RH	RH-18	310	0	Hot Water	Low	68.0	88.6	7.0	10.17	0.7	0.1	170.0	20.0	150.0	Propylene Glycol	40	12	15	16.9	12	115/60/1	1/30	0.7
1	UH-218	RH	RH-18	310	0	Hot Water	Low	68.0	88.6	7.0	10.17	0.7	0.1	170.0	20.0	150.0	Propylene Glycol	40	12	15	16.9	12	115/60/1	1/30	0.7
2	UH-219	RH	RH-18	310	0	Hot Water	Low	68.0	88.6	7.0	10.17	0.7	0.1	170.0	20.0	150.0	Propylene Glycol	40	12	15	16.9	12	115/60/1	1/30	0.7
1	UH-208	RH	RH-18	310	0	Hot Water	Low	68.0	88.6	7.0	10.17	0.7	0.1	170.0	20.0	150.0	Propylene Glycol	40	12	15	16.9	12	115/60/1	1/30	0.7
1	UH-227	RH	RH-18	310	0	Hot Water	Low	68.0	88.6	7.0	10.17	0.7	0.1	170.0	20.0	150.0	Propylene Glycol	40	12	15	16.9	12	120/60/1	1/30	0.7
1	UH-228	RH	RH-24	350	0	Hot Water	Low	68.0	92.3	9.3	11.3	0.9	0.2	170.0	20.0	150.0	Propylene Glycol	40	12	15	16.9	12	120/60/1	1/30	0.7
1	UH-235	RH	RH-18	310	0	Hot Water	Low	68.0	88.6	7.0	10.17	0.7	0.1	170.0	20.0	150.0	Propylene Glycol	40	12	15	16.9	12	120/60/1	1/30	0.7
1	UH-234	RH	RH-18	310	0	Hot Water	Low	68.0	88.6	7.0	10.17	0.7	0.1	170.0	20.0	150.0	Propylene Glycol	40	12	15	16.9	12	120/60/1	1/30	0.7

UNIT HEATER SCHEDULE - LOCKERS

NOTE: HYDRONIC, ZENDER RITLING AS STD.

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE INTEGRAL THERMOSTAT
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

PROJECT SCHEDULE - CABINET UNIT HEATER

ZEHNDER-RITTLING AS STD.

General									Heating										Unit Dimensions			Unit Electrical				
Quantity	Tag	Model	Description	Size	Airflow (CFM)	ESP (in.wc)	Coil Config	Fan Speed	EAT DB (deg.F)	LAT DB (deg.F)	Total Capacity (MBH)	Fluid Flow (gpm)	WPD (ft.)	EWT (deg.F)	Fluid ΔT (deg.F)	LWT (deg.F)	Fluid Type	Glycol %	Unit Height (in.)	Unit Width (in.)	Unit Length (in.)	Motor Qty	Motor Voltage	Prim Motor HP	Sec. Motor HP	Motor FLA
1	CH-164	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	220	0	2-row	High	68.0	131.8	15.2	1.6	0.7	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5		0.5
1	CH-ART CORR	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	08	810	0	2-row	High	68.0	128.7	53.4	5.7	1.8	170.0	20.0	150.0	Propylene Glycol	40	24	10	68.2	2	120/60/1	1/5	1/5	2.36

CABINET UNIT HEATER SCHEDULE - ART WING

NOTE: HYDRONIC, ZENDER RITLING AS STD.

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

HYDRONIC CABINET UNIT HEATERS

ZEHNDER-RITTLING AS STD.

General										Heating										Unit Dimensions			Unit Electrical		
Quantity	Tag	Model	Description	Size	Airflow (CFM)	ESP (in.wc)	Altitude (ft.)	Coil Config	Fan Speed	EAT DB (deg.F)	LAT DB (deg.F)	Total Capacity (MBH)	Fluid Flow (gpm)	WPD (ft.)	EWT (deg.F)	Fluid ΔT (deg.F)	LWT (deg.F)	Fluid Type	Glycol %	Unit Height (in.)	Unit Width (in.)	Unit Length (in.)	Motor Qty	Motor Voltage	Prim Motor HP	Motor FLA
1	CH-203	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	150	0	0	2-row	Medium	68.0	139.2	11.6	1.2	0.4	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
1	CH-210	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	150	0	0	2-row	Medium	68.0	139.2	11.6	1.2	0.4	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
1	CH-222	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	220	0	0	2-row	High	68.0	131.8	15.2	1.6	0.7	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
2	CH-CORR1	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	03	200	0	0	2-row	Medium	68.0	143.0	16.3	1.8	1.0	170.0	20.0	150.0	Propylene Glycol	40	24	10	44.2	1	120/60/1	1/5	0.52
1	CH- 223	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	125	0	0	1-row	Low	68.0	109.4	5.6	0.6	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
1	CH-225	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	03	140	0	0	1-row	Low	68.0	117.0	7.4	0.8	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	44.2	1	120/60/1	1/5	0.52
1	CH- 226	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	125	0	0	1-row	Low	68.0	109.4	5.6	0.6	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
2	CH-CORR2	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	04	310	0	0	1-row	Medium	68.0	109.6	14.0	1.5	0.4	170.0	20.0	150.0	Propylene Glycol	40	24	10	50.2	1	120/60/1	1/5	0.58

CABINET UNIT HEATER SCHEDULE - LOCKERS

NOTE: HYDRONIC, ZENDER RITLING AS STD.

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
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3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

HYDRONIC CABINET UNIT HEATERS

ZEHNDER-RITTLING AS STD.

General										Heating										Unit Dimensions			Unit Electrical			
Quantity	Tag	Room Type	Model	Description	Size	Airflow (CFM)	ESP (in.wc)	Altitude (ft.)	Coil Config	Fan Speed	EAT DB (deg.F)	LAT DB (deg.F)	Total Capacity (MBH)	Fluid Flow (gpm)	WPD (ft.)	EWT (deg.F)	Fluid ΔT (deg.F)	LWT (deg.F)	Fluid Type	Glycol %	Unit Height (in.)	Unit Width (in.)	Unit Length (in.)	Motor Qty	Motor Voltage	Prim Motor HP	Motor FLA
1	CH-104	Storage #104	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	125	0	0	1-row	Low	68.0	109.4	5.6	0.6	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
1	CH-105	Storage #105	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	220	0	0	1-row	High	68.0	97.6	7.1	0.8	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
1	CH-103	Storage #103	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	220	0	0	1-row	High	68.0	97.6	7.1	0.8	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
3	CH-109, CH-110, CH-111,	Quiet Study #109/#110/ #111	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	125	0	0	1-row	Low	68.0	109.4	5.6	0.6	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
1	CH-141	Reading #141	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	04	220	0	0	2-row	Low	68.0	147.5	19.0	2.0	1.5	170.0	20.0	150.0	Propylene Glycol	40	24	10	50.2	1	120/60/1	1/5	0.58
1	CH-139	Copy-Storage #139	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	125	0	0	1-row	Low	68.0	109.4	5.6	0.6	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
1	CH-137	College Career #137	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	04	310	0	0	2-row	Medium	68.0	141.4	24.7	2.7	2.3	170.0	20.0	150.0	Propylene Glycol	40	24	10	50.2	1	120/60/1	1/5	0.58
1	CH-125	Councelors #125	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	125	0	0	1-row	Low	68.0	109.4	5.6	0.6	0.1	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5
2	CH-COR	Corridor	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	04	220	0	0	1-row	Low	68.0	115.9	11.4	1.2	0.3	170.0	20.0	150.0	Propylene Glycol	40	24	10	50.2	1	120/60/1	1/5	0.58
1	CH-156	Yearbook #156	RFRC-420	RFRC-420 - RECESSED, BOTTOM IN, BOTTOM OUT	02	125	0	0	2-row	Low	68.0	142.4	10.1	1.1	0.3	170.0	20.0	150.0	Propylene Glycol	40	24	10	38.2	1	120/60/1	1/5	0.5

CABINET UNIT HEATER SCHEDULE - LIBRARY

NOTE: HYDRONIC, ZENDER RITLING AS STD.

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

REV.	DATE	ITEM

NOTICE

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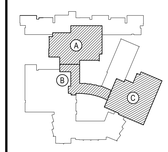

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

CABINET HEATER and
UNIT HEATER SCHEDULES and DETAILS

DRAWING BY: GWT

CHECK BY: - - -

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: CABINET HEATER and UNIT HEATER SCHEDULES and DETAILS

SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

M6.07

Pump Data Sheet - Patterson HVAC Pumps

Company: MJD Combustion Sales
Name: Howard Ehrlich
Date: 02/01/2024

Patterson The Pump People. A Gorman-Rupp Company

Pump:

Model:	E2DA9A-1	Dimensions:	
Type:	HVES	Suction:	2.5 in
Synch Speed:	1800 rpm	Discharge:	2 in
Dia:	8.5625 in		
Size:	2.5x2x9.5		
Impeller:	D05-87193		
Specific Speeds:	Ns: 942		
	Nss: 4741		

Fluid:

Name:	30% Propylene glycol		
SG:	0.992	Vapor Pressure:	4.44 psi a
Density:	61.8 lb/ft³	Atm Pressure:	14.7 psi a
Viscosity:	0.736 cP		
Temperature:	170 °F	Margin Ratio:	1

Pump Limits:

Temperature:	---	Sphere Size:	---
Wkg Pressure:	---		

Search Criteria:

Flow:	170 US gpm	Near Miss:	---
Head:	70 ft	Static Head:	0 ft

Motor:

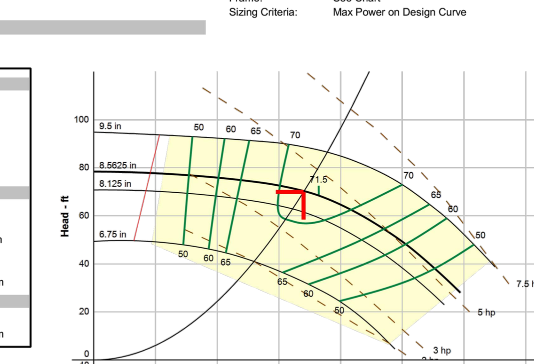
Standard:	NEMA	Size:	7.5 hp
Enclosure:	ODP	Speed:	1800 rpm
Frame:	See Chart		
Sizing Criteria:	Max Power on Design Curve		

Pump Selection Warnings:
None

--- Duty Point ---
Flow: 170 US gpm
Head: 70.1 ft
Eff: 70.9%
Power: 4.19 hp
NPSHr: 8.31 ft
Speed: 1760 rpm

--- Design Curve ---
Shutoff Head: 78.5 ft
Shutoff dP: 33.7 psi
Min Flow: 45.6 US gpm
BEP: 71.5% @ 182 US gpm
NOL Power: 5.37 hp @ 297 US gpm

--- Max Curve ---
Max Power: 7.46 hp @ 325 US gpm



Refer to Working Pressure vs. Temperature chart for maximum rated working pressure. All data are subject to change. Contact factory for certified data.

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
204	1760	63.5	70.3	4.61	9.97
170	1760	70.1	70.9	4.19	8.31
136	1760	73.7	67.7	3.69	7.68
102	1760	75.8	60.3	3.21	7.56
68	1760	77.1	46.2	2.88	7.46

Selected from catalog: Patterson HVAC.60, Vers 1.4.3

EXISTING HYDRONIC HEATING PUMP SYSTEM REPORT

NOTE:

GREENHECK Building Value in Air.

Cut Sheet - Not for Submittal
Printed Date: 01/27/2025
Mark: Smoke Dampers
Model: SMD-201

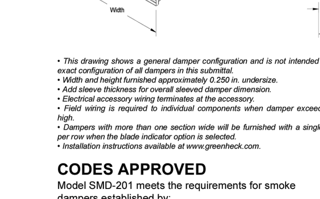
SMD-201 Smoke Damper

APPLICATION & DESIGN

Model SMD-201 is a leakage rated smoke damper with 3V style blades. The SMD-201 has been qualified to 2,000 ft/min and 6 in. wg for operational closure in emergency smoke control situations. Model SMD-201 may be installed horizontally or vertically (with blades running horizontally) and is rated for airflow and leakage in either direction.

DAMPER RATINGS

Ratings	
LeakageClass:	I
Operational Ratings	
Velocity:	Up to 2,000 ft/min
Pressure:	6 in. wg
Temperature:	Up to 350 F



PRODUCT DETAILS

Frame Type:	Channel
Frame Thickness:	16 ga
Closure Device:	None
Blade Action:	Parallel
Blade Seal:	Silicone
Blade Indicator:	None
Axle/Linkage Material:	Plated Steel
Axle Bearings:	316 SS
Sizing:	Nominal

• This drawing shows a general damper configuration and is not intended to depict the exact configuration of all dampers in this submittal.
• Width and height furnished approximately 0.250 in. undersize.
• Add sleeve thickness for overall sleeved damper dimension.
• Electrical accessory wiring terminates at the accessory.
• Field wiring is required to individual components when damper exceeds 84.000 in. high.
• Dampers with more than one section wide will be furnished with a single OCI device per row when the blade indicator option is selected.
• Installation instructions available at www.greenheck.com.

ACTUATOR INFORMATION

Actuator Type:	120 VAC
Operating Mode:	Two Position
Actuator Operation:	Spring Return
Fail Position:	Closed
Time Cycle:	Standard
Operating Temperature:	250 F
Velocity:	2,000 ft/min
Pressure:	4 in. wg
NEMA Enclosure:	1

CODES APPROVED

Model SMD-201 meets the requirements for smoke dampers established by:
National Fire Protection Association:
NFPA Standards 90A, 92, 101, 105
IBC (International Building Codes)
CSFM (California State Fire Marshal)
Leakage (Smoke) Damper Listing (3230-0981:104)
Underwriters Laboratories:
UL Classified to U.S. and Canadian safety standards
Standard 555S (Listing # R13317)

c UL us

OPTIONS & ACCESSORIES

Union Label:	Required

SUMMARY

ID #	TAG	QTY	WIDTH	HEIGHT	CONFIGURATION			
SMD-201			SIZE AS PER DUCT		Compact Configuration: No	Actuator Mounting: Ext Sideplate	Actuator Location: Left Side	Drive Arrangement: Drive-MLS-11-1FEL-1
					Actuator Mfr: Honeywell	Actuator Model: MS4103F1025	Actuator Qty: 1	Act. Orientation: Perp Down
					Damper Location: 6.188 in.	Mounting: Vertical	Component Location Code: CL-7	
SMD-201			SIZE AS PER DUCT		Compact Configuration: No	Actuator Mounting: Ext Sideplate	Actuator Location: Left Side	Drive Arrangement: Drive-MLS-11-1FEL-1
					Actuator Mfr: Honeywell	Actuator Model: MS4103F1025	Actuator Qty: 1	Act. Orientation: Parallel
					Damper Location: 6.188 in.	Mounting: Vertical	Component Location Code: CL-8	

CAPS 4.46.1069 F:\ENGINEERING\Projects\Andy Siegelson\BBS\Bedford Fox Lane HS Phase 2 - GT\Bedford Dampers - BBS-GT.gfcj Generated by: asiegelson@adehvac.com Page 1 of 3

SMOKE DAMPER (SMD-201)

NOTE: MC TO INSTALL AT ALL LOCATIONS AS TAGGED ON PLAN

ELECTRIC HEATERS STELPRO AS STD.

TAG	ROOM TYPE	MODEL	CAPACITY (W)	AIRFLOW (CFM)	VOLTS/PH	FLA (A)	ACCESSORIES / NOTES	THERMOSTAT
ECH-A	ECH-Cafeteria -A	ACBH1283CT	12,000	600	208/3	34.6	CBHDIS80A, CBHTB36	BUILT-IN
ECH-B	ECH-Cafeteria -B	ACBH1283CT	12,000	600	208/3	34.6	CBHDIS80A, CBHTB36	BUILT-IN
ECH-C	ECH-Commons -C	ACBH1283CT	12,000	600	208/3	34.6	CBHDIS80A, CBHTB36	BUILT-IN
ECH-U	ECH-Commons Upper	ACBH1583CT	15,000	1000	208/3	43.0	CBHDIS80A, CBHTB48	BUILT-IN
ECH-L	ECH-Commons Lower	ACBH0681CT	6,000	300	208/3	18.0	CBHDIS80A, CBHTB24	BUILT-IN
ECH-204	Girls Coach Toilet #204	ARWF1008	1,000	40	208/1	4.9	RWFDIS277T	BUILT-IN
ECH-GIRLS	Girls Toilet	ACBH0483CT	4,000	300	208/3	12.4	CBHDIS80A, CBHTB24	BUILT-IN
ECH-BOYS	Boys Toilet	ACBH1583CT	4,000	300	208/3	12.4	CBHDIS80A, CBHTB24	BUILT-IN
ECH-211	Boys Coach Toilet #211	ARWF1008	1,000	40	208/1	4.9	RWFDIS277T	BUILT-IN
ECH-224	Toilet #224	ARWF1008	1,000	40	208/1	4.9	RWFDIS277T	BUILT-IN
ECH-232	Toilet #232	ARWF1008	1,000	40	208/1	4.9	RWFDIS277T	BUILT-IN
ECH-230	Toilet #230	ARWF1008	1,000	40	208/1	4.9	RWFDIS277T	BUILT-IN
ECH-RM 117	LMA OFFICE	ASK1508	1,500	60	208/1	7.3	SKDIS250, SKRE153T	BY OTHERS
ECH-RM 115	QUIET STUDY	ASK1008	1,000	60	208/1	4.9	SKDIS250, SKRE153T	BY OTHERS
ECH-RM 114	QUIET STUDY	ASK1008	1,000	60	208/1	4.9	SKDIS250, SKRE153T	BY OTHERS
ECH-VESTIBULE	VESTIBULE	ASK1508	1,500	60	208/1	7.3	SKDIS250, SKRE153T	BY OTHERS

NOTES:
All disconnect switches and thermostats shall be factory installed and wired.

ELECTRIC CABINET HEATER SCHEDULE

NOTE: ELECTRIC,STELPRO AS STD.

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. MC TO HAVE FACTORY-AUTHORIZED VRF SYSTEM MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE & LAY OUT THE EXACT LOCATION(S) OF EACH INDOOR UNIT(S) & MEASURE THE EXACT REFRIGERANT LINE SET PIPING RUNS AND PROVIDE A DETAIL SUBMITTAL BASED ON EXISTING FIELD CONDITIONS FOR FORMAL SUBMITTAL FOR REVIEW & APPROVAL PROCESS BY ENGINEER OF RECORD.
7. MC SHALL PROVIDE SUPPORTS FROM APPROVED OUTDOOR UNIT MANUFACTURER & FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH ME PRESENT.
8. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
9. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT.
10. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
11. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
12. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
13. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
14. PROVIDE MERV 13 RATED FILTERS.
15. FOR CEILING MOIUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
16. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

PROJECT SCHEDULE - ELEMENT AND ENCLOSURE ZEHNDER-RITTLING AS STD.

General											Enclosure				Heating						
Quantity	Primary tag	Model	Description	Fin Size	Tube Diameter	Fin Spacing	Coil Config	Rows of Element	Active Length (ft.)	Arrangement of Lengths	Model	Depth	Height	Total Length (ft.)	EAT DB (deg.F)	Total Capacity (MBH)	Fluid Flow (gpm)	EWT (deg.F)	Fluid ΔT (deg.F)	LWT (deg.F)	WPD (ft.)
1	FT-163	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	12.5	1 (6 ft), 1 (6½ ft)	FS	5 3/8" D	20" H	23	68.0	14.5	1.5	170.0	20.0	150.0	0.7
1	FT-165	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	5	1 (5 ft)	FS	5 3/8" D	20" H	7	68.0	5.8	0.6	170.0	20.0	150.0	0.2
1	FT-167	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	12	2 (12 ft)	FS	5 3/8" D	20" H	15	68.0	16.6	1.7	170.0	20.0	150.0	0.8
1	FT-168	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	23.5	2 (11½ ft), 2 (12 ft)	FS	5 3/8" D	24" H	27	68.0	36.0	3.6	170.0	20.0	150.0	3.2

FIN TUBE SCHEDULE - ART SUITE

NOTE: ALL PERFORMANCE IS WITH 40% GLYCOL HYDRONIC, ZENDER RITLING AS STD.

Bedford Fox Lane HS PH2 - BBS-GT

PROJECT SCHEDULE - ELEMENT AND ENCLOSURE

General										Enclosure					Heating						
Quantity	Primary tag	Model	Description	Fin Size	Tube Diameter	Fin Spacing	Coil Config	Rows of Element	Active Length (ft.)	Model	Depth	Height	Inactive Length (ft.)	Total Length (ft.)	EAT DB (deg.F)	Total Capacity (MBH)	Fluid Flow (gpm)	EWT (deg.F)	Fluid ΔT (deg.F)	LWT (deg.F)	WPD (ft.)
1	FT-RM202A/FT-RM202B	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	34.5	FSOS	5 3/8" D	24" H	6.5	41	68.0	44.4	4.4	170.0	20.0	150.0	4.7
1	FT-RM205A/FT-RM205B	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	12	FSOS	5 3/8" D	24" H	17	29	68.0	12.9	1.3	170.0	20.0	150.0	0.6
1	FT-RM207	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	15.5	FSOS	5 3/8" D	24" H	4.5	20	68.0	19.9	2.0	170.0	20.0	150.0	1.1
1	FT-RM214	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	15.5	FSOS	5 3/8" D	24" H	6.5	22	68.0	19.9	2.0	170.0	20.0	150.0	1.1
1	FT-RM213A/FT-RM213B	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	12	FSOS	5 3/8" D	24" H	18	30	68.0	12.9	1.3	170.0	20.0	150.0	0.6
1	FT-RM209	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	29	FSOS	5 3/8" D	24" H	1	30	68.0	37.3	3.7	170.0	20.0	150.0	3.4
1	FT-RM233	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	21	FSOS	5 3/8" D	24" H	2.5	23.5	68.0	27.0	2.7	170.0	20.0	150.0	1.9
1	FT-RM231	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	17	FSOS	5 3/8" D	24" H	8	25	68.0	18.3	1.8	170.0	20.0	150.0	1.0
1	FT-RM229	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	23	FSOS	5 3/8" D	24" H	1	24	68.0	32.8	10.9	170.0	6.0	164.0	26.2

FIN TUBE SCHEDULE - LOCKERS

NOTE: ALL PERFORMANCE IS WITH 40% GLYCOL HYDRONIC, ZENDER RITLING AS STD.

PROJECT SCHEDULE - ELEMENT AND ENCLOSURE

General											Enclosure				Heating						
Quantity	Tag	Room Type	Model	Description	Fin Size	Tube Diameter	Fin Spacing	Coil Config	Rows of Element	Active Length (ft.)	Model	Depth	Height	Total Length (ft.)	EAT DB (deg.F)	Total Capacity (MBH)	Fluid Flow (gpm)	EWT (deg.F)	Fluid ΔT (deg.F)	LWT (deg.F)	WPD (ft.)
1	FT-118	Sensory	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	7.5	FSOS	5 3/8" D	24" H	15	68.0	8.1	0.8	170.0	20.0	150.0	0.3
1	FT-120	Quiet Study	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	4	FSOS	5 3/8" D	24" H	7.5	68.0	4.3	0.4	170.0	20.0	150.0	0.1
1	FT-121	Quiet Study	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	4	FSOS	5 3/8" D	24" H	7.5	68.0	4.3	0.4	170.0	20.0	150.0	0.1
1	FT-LIB A	Library Window	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	9.5	FSOS	5 3/8" D	24" H	16.5	68.0	10.2	1.0	170.0	20.0	150.0	0.4
1	FT-LIB B	Library Window	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	3-1/4" X 3-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	14	FS	5 3/8" D	14" H	16	68.0	10.9	1.1	170.0	20.0	150.0	0.4
1	FT-125	Councelor	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	4.5	FS	5 3/8" D	14" H	6.5	68.0	5.0	0.6	170.0	16.1	153.9	0.2
1	FT-127	Storage	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	5	FSOS	5 3/8" D	24" H	15.5	68.0	5.4	0.5	170.0	20.0	150.0	0.2
1	FT-128	Director	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	2-3/4" X 4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	28	FS	5 3/8" D	14" H	32	68.0	19.8	2.0	170.0	20.0	150.0	1.1
1	FT-(129-136)	Councelors (x8)	Copper-Aluminum	COPPER TUBE-ALUMINUM FIN	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	4.5	FSOS	5 3/8" D	24" H	7.5	68.0	4.9	0.5	170.0	20.0	150.0	0.1

NOTES:

All performance is with 40% propelene glycol

FIN TUBE SCHEDULE - LIBRARY

NOTE: ALL PERFORMANCE IS WITH 40% GLYCOL HYDRONIC, ZENDER RITLING AS STD.

REV.	DATE	ITEM

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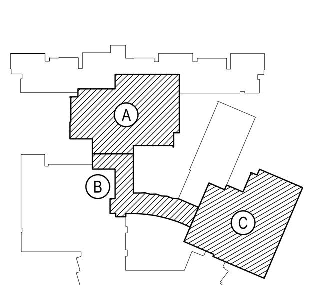

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
FIN TUBE and ELECTRIC
CABINET HEATER SCHEDULES and DETAILS

DRAWING BY: GWT
CHECK BY: - - -

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIN TUBE and ELECTRIC CABINET HEATER SCHEDULES and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.08

NEW ADDITION

TAG: DOAS-1

SPACE/ROOM	FLOOR	ROOM SF	OUTSIDE AIR CFM	FINAL ADJUSTED O.A. CFM
STUDENT COMMONS-UPPER	1ST	1060	80	120
QUIET STUDY ROOM A-LIBRARY SUITE	1ST	66	48	72
QUIET STUDY ROOM B-LIBRARY SUITE	1ST	66	48	72
SENSORY ROOM-LGI SUITE	1ST	145	98	147
QUIET STUDY ROOM C-LGI SUITE	1ST	66	48	72
LMS OFFICE-LGI SUITE	1ST	70	13	20
I.T. OFFICE-LGI SUITE	1ST	70	13	20
QUIET STUDY ROOM D-LGI SUITE	1ST	70	49	74
QUIET STUDY ROOM E-LGI SUITE	1ST	70	49	74
QUIET STUDY ROOM F-LGI SUITE	1ST	70	49	74
STORAGE ROOM A-LGI SUITE	1ST	99	15	23
STORAGE ROOM B-LGI SUITE	1ST	123	19	29
STORAGE ROOM C-LGI SUITE	1ST	115	18	27
STUDENT COMMONS-LOWER	1ST	1690	123	185

NEW ADDITION

TAG: DOAS-2

SPACE/ROOM	FLOOR	ROOM SF	OUTSIDE AIR CFM	FINAL ADJUSTED O.A. CFM
COLLEGE CAREER CENTER-GUID SUITE	1ST	427	253	380
COUNSELORS OFFICE A-GUID SUITE	1ST	72	13	20
COUNSELORS OFFICE B-GUID SUITE	1ST	72	13	20
COUNSELORS OFFICE C-GUID SUITE	1ST	88	14	21
COUNSELORS OFFICE D-GUID SUITE	1ST	88	14	21
COUNSELORS OFFICE E-GUID SUITE	1ST	88	14	21
COUNSELORS OFFICE F-GUID SUITE	1ST	88	14	21
COUNSELORS OFFICE G-GUID SUITE	1ST	88	14	21
COUNSELORS OFFICE H-GUID SUITE	1ST	88	14	21
COUNSELORS OFFICE I-GUID SUITE	1ST	88	14	21
COUNSELORS OFFICE J-GUID SUITE	1ST	88	14	21
STORAGE ROOM-GUID SUITE	1ST	95	15	23
DIRECTORS OFFICE-GUID SUITE	1ST	133	17	26
YEARBOOK OFFICE-GUID SUITE	1ST	177	20	30
CONFERENCE ROOM-ART SUITE	1ST	266	108	162
ART DIRECTORS OFFICE-ART SUITE	1ST	85	14	21
ART OFFICE-ART SUITE	1ST	280	34	51
GALLERY-ART SUITE	1ST	564	259	389
CORRIDOR-ART SUITE	1ST	1350	102	153
SECURITY OFFICE-CAFÉ SUITE	1ST	235	32	48
READING ROOM	1ST	367	219	329
GUIDANCE OFFICE SUITE	1ST	855	97	146
COPY STORAGE ROOM-GUID SUITE	1ST	124	79	119
IT CLOSET-GUID SUITE	1ST	45	23	35

Room Number	Floor	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required	SYSTEMS
LIBRARY	1ST	Libraries	10	5	0.12	0	3900	39	663	0.8	829	0	
READING ROOM	1ST	Classroom (age 9 plus)	35	10	0.12	0	367	13	175	0.8	219	0	DOAS-1
QUIET STUDY ROOM A-LIBRARY SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	66	3	38	0.8	48	0	DOAS-1
QUIET STUDY ROOM B-LIBRARY SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	66	3	38	0.8	48	0	DOAS-1
SENSORY ROOM-LGI SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	145	6	78	0.8	98	0	DOAS-1
QUIET STUDY ROOM C-LGI SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	66	3	38	0.8	48	0	DOAS-1
LMS OFFICE-LGI SUITE	1ST	Office space	5	5	0.06	0	70	1	10	0.8	13	0	DOAS-1
I.T. OFFICE-LGI SUITE	1ST	Office space	5	5	0.06	0	70	1	10	0.8	13	0	DOAS-1
QUIET STUDY ROOM D-LGI SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	70	3	39	0.8	49	0	DOAS-1
QUIET STUDY ROOM E-LGI SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	70	3	39	0.8	49	0	DOAS-1
QUIET STUDY ROOM F-LGI SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	70	3	39	0.8	49	0	DOAS-1
CLASSROOM A-LGI SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	900	32	428	0.8	535	0	SEPARATE RTU
CLASSROOM B-LGI SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	738	26	349	0.8	437	0	SEPARATE RTU
LARGE GROUP INSTRUCTION	1ST	Media center	25	10	0.12	0	1110	28	414	0.8	518	0	SEPARATE RTU
STORAGE ROOM A-LGI SUITE	1ST	Storage room	0	0	0.12	0	99	0	12	0.8	15	0	DOAS-1
STORAGE ROOM B-LGI SUITE	1ST	Storage room	0	0	0.12	0	123	0	15	0.8	19	0	DOAS-1
STORAGE ROOM C-LGI SUITE	1ST	Storage room	0	0	0.12	0	115	0	14	0.8	18	0	DOAS-1
GUIDANCE OFFICE SUITE	1ST	Office space	5	5	0.06	0	855	5	77	0.8	97	0	DOAS-1
COPY STORAGE ROOM-GUID SUITE	1ST	Copy, printing room	4	5	0.06	0.5	124	1	13	0.8	17	62	DOAS-1
IT CLOSET-GUID SUITE	1ST	Telephone/data entry	60	5	0.06	0	45	3	18	0.8	23	0	DOAS-1
COLLEGE CAREER CENTER-GUID SUITE	1ST	Classroom (age 9 plus)	35	10	0.12	0	427	15	202	0.8	253	0	DOAS-1
COUNSELORS OFFICE A-GUID SUITE	1ST	Office space	5	5	0.06	0	72	1	10	0.8	13	0	DOAS-1
COUNSELORS OFFICE B-GUID SUITE	1ST	Office space	5	5	0.06	0	72	1	10	0.8	13	0	DOAS-1
COUNSELORS OFFICE C-GUID SUITE	1ST	Office space	5	5	0.06	0	88	1	11	0.8	14	0	DOAS-2
COUNSELORS OFFICE D-GUID SUITE	1ST	Office space	5	5	0.06	0	88	1	11	0.8	14	0	DOAS-2
COUNSELORS OFFICE E-GUID SUITE	1ST	Office space	5	5	0.06	0	88	1	11	0.8	14	0	DOAS-2
COUNSELORS OFFICE F-GUID SUITE	1ST	Office space	5	5	0.06	0	88	1	11	0.8	14	0	DOAS-2
COUNSELORS OFFICE G-GUID SUITE	1ST	Office space	5	5	0.06	0	88	1	11	0.8	14	0	DOAS-2
COUNSELORS OFFICE H-GUID SUITE	1ST	Office space	5	5	0.06	0	88	1	11	0.8	14	0	DOAS-2
COUNSELORS OFFICE I-GUID SUITE	1ST	Office space	5	5	0.06	0	88	1	11	0.8	14	0	DOAS-2
COUNSELORS OFFICE J-GUID SUITE	1ST	Office space	5	5	0.06	0	88	1	11	0.8	14	0	DOAS-2
STORAGE ROOM-GUID SUITE	1ST	Storage room	0	0	0.12	0	95	0	12	0.8	15	0	DOAS-2
DIRECTORS OFFICE-GUID SUITE	1ST	Office space	5	5	0.06	0	133	1	13	0.8	17	0	DOAS-2
YEARBOOK OFFICE-GUID SUITE	1ST	Office space	5	5	0.06	0	177	1	16	0.8	20	0	DOAS-2
CONFERENCE ROOM-ART SUITE	1ST	Conference room	50	5	0.06	0	266	14	86	0.8	108	0	DOAS-2
ART DIRECTORS OFFICE-ART SUITE	1ST	Office space	5	5	0.06	0	85	1	11	0.8	14	0	DOAS-2
ART OFFICE-ART SUITE	1ST	Office space	5	5	0.06	0	280	2	27	0.8	34	0	DOAS-2

Room Number	Floor	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required	SYSTEMS
168 GALLERY-ART SUITE	1ST	Museums Gallery	40	7.5	0.06	0	708	29	260	0.8	325	0	DOAS-2
CORRIDOR-ART SUITE	1ST	Corridor	0	0	0.06	0	1350	0	81	0.8	102	0	DOAS-2
STUDENT COMMONS AREA-LOWER	1ST	Corridor	0	0	0.06	0	1630	0	98	0.8	123	0	SEPARATE RTU
164 SECURITY OFFICE-CAFÉ SUITE	1ST	Office space	5	5	0.06	0	250	2	25	0.8	32	0	DOAS-2
SMALL CAFETERIA	1ST	Cafeteria, fast food	100	7.5	0.18	0	3179	318	2958	0.8	3698	0	SEPARATE RTU
LARGE CAFETERIA	1ST	Cafeteria, fast food	100	7.5	0.18	0	4554	456	4240	0.8	5300	0	SEPARATE RTU
GIRLS LOCKER ROOM	1ST	Sports locker room	0	0	0	0.5	887	0	0	0.8	0	443.5	STEAM H-V UNIT FOR MAKEUP AIR
GIRLS TEAM LOCKER ROOM -SMALL	1ST	Sports locker room	0	0	0	0.5	203	0	0	0.8	0	101.5	STEAM H-V UNIT FOR MAKEUP AIR
GIRLS TEAM LOCKER ROOM -SMALL	1ST	Sports locker room	0	0	0	0.5	203	0	0	0.8	0	101.5	STEAM H-V UNIT FOR MAKEUP AIR
BOYS LOCKER ROOM	1ST	Sports locker room	0	0	0	0.5	910	0	0	0.8	0	455	STEAM H-V UNIT FOR MAKEUP AIR
BOYS TEAM LOCKER ROOM - SMALL	1ST	Sports locker room	0	0	0	0.5	203	0	0	0.8	0	101.5	STEAM H-V UNIT FOR MAKEUP AIR
BOYS TEAM LOCKER ROOM - LARGE	1ST	Sports locker room	0	0	0	0.5	323	0	0	0.8	0	161.5	STEAM H-V UNIT FOR MAKEUP AIR
GIRLS COACH OFFICE	1ST	Office space	5	5	0.06	0	180	1	16	0.8	20	0	STEAM H-V UNIT FOR MAKEUP AIR
BOYS COACH OFFICE	1ST	Office space	5	5	0.06	0	200	1	17	0.8	22	0	STEAM H-V UNIT FOR MAKEUP AIR
BOYS/GIRLS LOCKER CORRIDOR	1ST	Corridor	0	0	0.06	0	662	0	40	0.8	50	0	STEAM H-V UNIT FOR MAKEUP AIR
FOOTBALL STORAGE ROOM-SMALL	1ST	Storage room	0	0	0.12	0	63	0	8	0.8	10	0	STEAM H-V UNIT FOR MAKEUP AIR
TRAINERS OFFICE	1ST	Office space	5	5	0.06	0	295	2	28	0.8	35	0	STEAM H-V UNIT FOR MAKEUP AIR
UNIFORM STORAGE ROOM	1ST	Storage room	0	0	0.12	0	277	0	34	0.8	43	0	STEAM H-V UNIT FOR MAKEUP AIR
FOOTBALL STORAGE ROOM-LARGE	1ST	Storage room	0	0	0.12	0	125	0	15	0.8	19	0	STEAM H-V UNIT FOR MAKEUP AIR
223 REF OFF	1ST	Office space	5	5	0.06	0	71	1	10	0.8	13	0	STEAM H-V UNIT FOR MAKEUP AIR
225 COACH OFF	1ST	Office space	5	5	0.06	0	126	1	13	0.8	17	0	STEAM H-V UNIT FOR MAKEUP AIR
226 COACH OFF	1ST	Office space	5	5	0.06	0	106	1	12	0.8	15	0	STEAM H-V UNIT FOR MAKEUP AIR
227 STG RM	1ST	Storage room	0	0	0.12	0	123	0	15	0.8	19	0	STEAM H-V UNIT FOR MAKEUP AIR
228 GYM EQUIP STG	1ST	Storage room	0	0	0.12	0	148	0	18	0.8	23	0	STEAM H-V UNIT FOR MAKEUP AIR
229 WELLNESS CENTER	1ST	Classroom (age 9 plus)	35	10	0.12	0	663	24	320	0.8	400	0	STEAM H-V UNIT FOR MAKEUP AIR
231 STG RM	1ST	Storage room	0	0	0.12	0	343	0	42	0.8	53	0	STEAM H-V UNIT FOR MAKEUP AIR
233 VISITING LOCKERS	1ST	Sports locker room	0	0	0	0.5	530	0	0	0.8	0	265	STEAM H-V UNIT FOR MAKEUP AIR
234 STG RM	1ST	Storage room	0	0	0.12	0	138	0	17	0.8	22	0	STEAM H-V UNIT FOR MAKEUP AIR
235 STG RM	1ST	Storage room	0	0	0.12	0	139	0	17	0.8	22	0	STEAM H-V UNIT FOR MAKEUP AIR
VISITING LOCKERS CORRIDOR	1ST	Corridor	0	0	0.06	0	498	0	30	0.8	38	0	STEAM H-V UNIT FOR MAKEUP AIR
STUDENT COMMONS AREA-UPPER	1ST	Corridor	0	0	0.06	0	1060	0	64	0.8	80	0	
SMALL GYM	1ST	Gym, stadium, arena (play area)	7	20	0.18	0	3777	27	1220	0.8	1525	0	

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

OUTDOOR AIR DEMAND CALCULATIONS

DRAWING BY: GWT

CHECK BY: - - -

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	OUTDOOR AIR DEAMND CALCULATIONS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.09

ANEMOSTAT AIR OUTLET SCHEDULE

TAG	ROOM	INSTALLATION	GRILLE TYPE	Quantity	NECK SIZE	FRAME SIZE	CFM RANGE	MAX NC	MANUFACTURE/ MODEL	COMMENTS
AREA A										
S1	LARGE CAFÉ	WALL MOUNTED	SUPPLY	12	~20X10	-	725	<20	20L	SEE NOTES
S2	LARGE CAFÉ	LAY-IN	SUPPLY	1	15	24X24	725	<20	ZPL	SEE NOTES
R1	LARGE CAFÉ	LAY-IN	RETURN	3	23x23	24X24	3134	32	AC30-0-L	SEE NOTES
S3	106 CR	LAY-IN	SUPPLY	4	10	24X24	300	<20	ZPL	SEE NOTES
R2	106 CR	LAY-IN	RETURN	2	23x23	24X24	800	<20	AC30-45-L	SEE NOTES
S4	104 STG	LAY-IN	SUPPLY	1	6	24X24	30	<20	ZPL	SEE NOTES
R3	104 STG	LAY-IN	RETURN	1	23x23	24X24	30	<20	AC30-45-L	SEE NOTES
S5	105 STG	LAY-IN	SUPPLY	1	6	24X24	30	<20	ZPL	SEE NOTES
R4	105 STG	LAY-IN	RETURN	1	23x23	24X24	30	<20	AC30-45-L	SEE NOTES
S6	103 STG	LAY-IN	SUPPLY	1	6	24X24	30	<20	ZPL	SEE NOTES
R5	103 STG	LAY-IN	RETURN	1	23x23	24X24	30	<20	AC30-45-L	SEE NOTES
S7	102 LGI	LAY-IN	SUPPLY	6	10	24X24	333	<20	ZPL	SEE NOTES
R6	102 LGI	LAY-IN	RETURN	2	23x23	24X24	1000	24	AC30-45-L	SEE NOTES
S8	107 CR	LAY-IN	SUPPLY	4	10	24X24	400	<20	ZPL	SEE NOTES
R7	107 CR	LAY-IN	RETURN	2	23x23	24X24	800	<20	AC30-45-L	SEE NOTES
S9	109 QS	LAY-IN	SUPPLY	1	6	12x12	75	<20	Z1	SEE NOTES
R8	109 QS	LAY-IN	RETURN	1	8x8	-	75	<20	30-45	SEE NOTES
S10	110 QS	LAY-IN	SUPPLY	1	6	12x12	75	<20	Z1	SEE NOTES
R9	110 QS	LAY-IN	RETURN	1	8x8	-	75	<20	30-45	SEE NOTES
S11	111 QS	LAY-IN	SUPPLY	1	6	12x12	75	<20	Z1	SEE NOTES
R10	111 QS	LAY-IN	RETURN	1	8x8	-	75	<20	30-45	SEE NOTES
S12	114 ITO	LAY-IN	SUPPLY	1	6	12x12	75	<20	Z1	SEE NOTES
R11	114 ITO	LAY-IN	RETURN	1	8x8	-	75	<20	30-45	SEE NOTES
S13	115 LMSO	LAY-IN	SUPPLY	1	6	12x12	75	<20	Z1	SEE NOTES
R12	115 LMSO	LAY-IN	RETURN	1	8x8	-	75	<20	30-45	SEE NOTES
S14	117 QS	LAY-IN	SUPPLY	1	6	12x12	75	<20	Z1	SEE NOTES
R13	117 QS	LAY-IN	RETURN	1	8x8	-	75	<20	30-45	SEE NOTES
S15	118 SENS	LAY-IN	SUPPLY	1	6	24X24	150	<20	ZPL	SEE NOTES
R14	118 SENS	LAY-IN	RETURN	1	23x23	24X24	150	<20	AC30-45-L	SEE NOTES
S16	120 QSR	LAY-IN	SUPPLY	1	6	24X24	75	<20	ZPL	SEE NOTES
R15	120 QSR	LAY-IN	RETURN	1	23x23	24X24	75	<20	AC30-45-L	SEE NOTES
S17	121 QSR	LAY-IN	SUPPLY	1	6	24X24	75	<20	ZPL	SEE NOTES
R16	121 QSR	LAY-IN	RETURN	1	23x23	24X24	75	<20	AC30-45-L	SEE NOTES
S18	127 STG	LAY-IN	SUPPLY	1	6	24X24	23	<20	ZPL	SEE NOTES
R17	127 STG	LAY-IN	RETURN	1	23x23	24X24	23	<20	AC30-45-L	SEE NOTES
S19	128 OFF	LAY-IN	SUPPLY	1	6	24X24	40	<20	ZPL	SEE NOTES
R18	128 OFF	LAY-IN	RETURN	1	23x23	24X24	40	<20	AC30-45-L	SEE NOTES
S20	129 OFF	LAY-IN	SUPPLY	1	6	24X24	21	<20	ZPL	SEE NOTES
R19	129 OFF	LAY-IN	RETURN	1	23x23	24X24	21	<20	AC30-45-L	SEE NOTES
S21	130 OFF	LAY-IN	SUPPLY	1	6	24X24	21	<20	ZPL	SEE NOTES
R20	130 OFF	LAY-IN	RETURN	1	23x23	24X24	21	<20	AC30-45-L	SEE NOTES
S22	131 OFF	LAY-IN	SUPPLY	1	6	24X24	21	<20	ZPL	SEE NOTES
R21	131 OFF	LAY-IN	RETURN	1	23x23	24X24	21	<20	AC30-45-L	SEE NOTES
S23	132 OFF	LAY-IN	SUPPLY	1	6	24X24	21	<20	ZPL	SEE NOTES
R22	132 OFF	LAY-IN	RETURN	1	23x23	24X24	21	<20	AC30-45-L	SEE NOTES
S24	133 OFF	LAY-IN	SUPPLY	1	6	24X24	21	<20	ZPL	SEE NOTES
R23	133 OFF	LAY-IN	RETURN	1	23x23	24X24	21	<20	AC30-45-L	SEE NOTES
S25	134 OFF	LAY-IN	SUPPLY	1	6	24X24	21	<20	ZPL	SEE NOTES
R24	134 OFF	LAY-IN	RETURN	1	23x23	24X24	21	<20	AC30-45-L	SEE NOTES
S26	135 OFF	LAY-IN	SUPPLY	1	6	24X24	20	<20	ZPL	SEE NOTES
R25	135 OFF	LAY-IN	RETURN	1	23x23	24X24	20	<20	AC30-45-L	SEE NOTES
S27	136 OFF	LAY-IN	SUPPLY	1	6	24X24	20	<20	ZPL	SEE NOTES
R26	136 OFF	LAY-IN	RETURN	1	23x23	24X24	20	<20	AC30-45-L	SEE NOTES
S28	156 YBO	LAY-IN	SUPPLY	1	6	24X24	30	<20	ZPL	SEE NOTES
R27	156 YBO	LAY-IN	RETURN	1	23x23	24X24	30	<20	AC30-45-L	SEE NOTES
S29	126 VAULT	LAY-IN	SUPPLY	1	6	24X24	35	<20	ZPL	SEE NOTES
R28	126 VAULT	LAY-IN	RETURN	1	23x23	24X24	35	<20	AC30-45-L	SEE NOTES
S30	125 CO	LAY-IN	SUPPLY	1	6	24X24	21	<20	ZPL	SEE NOTES
R29	125 CO	LAY-IN	RETURN	1	23x23	24X24	21	<20	AC30-45-L	SEE NOTES
S31	137 CO	LAY-IN	SUPPLY	1	10	24X24	380	<20	ZPL	SEE NOTES
R30	137 CO	LAY-IN	RETURN	1	23x23	24X24	380	<20	AC30-45-L	SEE NOTES
S32	138 ITCL	LAY-IN	SUPPLY	1	6	12X12	35	<20	Z1	SEE NOTES
R31	138 ITCL	LAY-IN	RETURN	1	8x8	-	35	<20	30-45	SEE NOTES
S33	LIBRARY/ CAFE CORRIDOR	WALL MOUNTED	SUPPLY	1	12X12	-	366	<20	20L	SEE NOTES
R32	LIBRARY/ CAFE CORRIDOR	LAY-IN	RETURN	1	47x11	48x12	366	<20	AC30-0-L	SEE NOTES
S34	141 RR	LAY-IN	SUPPLY	1	10	24X24	329	<20	ZPL	SEE NOTES
R33	141 RR	LAY-IN	RETURN	1	23x23	24X24	329	<20	AC30-45-L	SEE NOTES
S35	155 GUIDANCE SUITE	LAY-IN	SUPPLY	2	6	24X24	125	<20	ZPL	SEE NOTES
R34	155 GUIDANCE SUITE	LAY-IN	RETURN	2	23x23	24X24	125	<20	AC30-45-L	SEE NOTES
S36	STUDENT COMMONS	LAY-IN	SUPPLY	2	8	24X24	183	<20	ZPL	SEE NOTES
R35	STUDENT COMMONS	LAY-IN	RETURN	1	23x23	24X24	303	<20	AC30-45-L	SEE NOTES

NOTES:

1. CEILING BORDER/FRAME TYPE SHALL BE COORDINATED WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN TO ENSURE PROPER BORDER COMPATIBILITY.
2. DIFFUSERS WITH DIE STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3-CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. PROVIDE REMOTE CABLE OPERATED OPPOSED BLADE DAMPERS FOR ALL DIFFUSERS LOCATED IN INACCESSIBLE CEILINGS.
5. COORDINATE COLOR/FINISH WITH ARCHITECT.
6. RETURN GRILLES TO BE 3/4" BLADE SPACING.
7. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANASIOS (718.913.8520)

LINEAR DIFFUSER SCHEDULE

TAG	TYPE	SLOT WIDTH (IN.) AND QUANTITY	CAPACITY (CFM/LF)	NOISE CRITERIA	MODEL NO.	REMARKS
LD-1	LINEAR DIFFUSER	1" 1 SLOT	50	<20	FFBF-100	-

NOTES:

1. PROVIDE CABLE OPERATED REMOTE O.B.D FOR VOLUME ADJUSTMENT FROM DIFFUSER FACE, WHERE LOCATIED ABOVE NON-ACCESSIBLE CEILING.
2. BORDER TYPES SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING TYPE FOR THE ROOM IN WHICH THE AIR DEVICE IS LOCATED.
3. SEE THE PLANS FOR LOCATION AND CFM OF EACH AIR DEVICE. COORDINATE TOTAL CONTINUOUS LINEAR FACE AND FRAME PER ARCHITECTURAL REFLECTED CEILING PLAN.
4. COORDINATE FINAL LOCATION, FINISH AND TRIM WITH ARCHITECTURAL.
5. INACTIVE SECTIONS OF LINEAR DIFFUSERS TO BE USED AS RETURN WHERE NOTED. PROVIDE RETURN SECTIONS WITH LIGHT SHIELDS.
6. PLENUMS TO BE FURNISHED BY SHEET METAL CONTRACTORS.
7. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANASIOS (718.913.8520)

ANEMOSTAT AIR OUTLET SCHEDULE

TAG	ROOM	INSTALLATION	GRILLE TYPE	Quantity	NECK SIZE	FRAME SIZE	CFM RANGE	MAX NC	MANUFACTURE/ MODEL	COMMENTS
AREA B										
S37	158 SMALL CAFÉ	LAY-IN	SUPPLY	16	10	24X24	400	<20	ZPL	SEE NOTES
R36	158 SMALL CAFÉ	LAY-IN	RETURN	4	23x47	48x24	1600	<20	AC30-0-L	SEE NOTES
S38	ART CORRIDOR	LAY-IN	SUPPLY	1	8	24X24	153	<20	ZPL	SEE NOTES
R37	ART CORRIDOR	LAY-IN	RETURN	1	23x23	24X24	153	<20	AC30-45-L	SEE NOTES
S39	164 SEC OFF	LAY-IN	SUPPLY	1	6	24X24	48	<20	ZPL	SEE NOTES
R38	164 SEC OFF	LAY-IN	RETURN	1	23x23	24X24	48	<20	AC30-45-L	SEE NOTES
S40	163 CONF	LAY-IN	SUPPLY	1	8	24X24	162	<20	ZPL	SEE NOTES
R39	163 CONF	LAY-IN	RETURN	1	23x23	24X24	162	<20	AC30-45-L	SEE NOTES
S41	165 ADO	LAY-IN	SUPPLY	1	6	24X24	21	<20	ZPL	SEE NOTES
R40	165 ADO	LAY-IN	RETURN	1	23x23	24X24	21	<20	AC30-45-L	SEE NOTES
S42	167 AO	LAY-IN	SUPPLY	1	6	24X24	51	<20	ZPL	SEE NOTES
R41	167 AO	LAY-IN	RETURN	1	23x23	24X24	51	<20	AC30-45-L	SEE NOTES
S43	168 GALLERY	LAY-IN	SUPPLY	1	10	24X24	389	<20	ZPL	SEE NOTES
R42	168 GALLERY	LAY-IN	RETURN	1	23x23	24X24	389	<20	AC30-45-L	SEE NOTES
AREA A/B ROOF										
S44	UPPER LIBRARY	LAY-IN	SUPPLY	12	10	24X24	335	<20	ZPL	SEE NOTES
R43	UPPER LIBRARY	WALL MOUNTED	RETURN	2	~20X10	-	500	<20	30L-0	SEE NOTES

NOTES:

1. CEILING BORDER/FRAME TYPE SHALL BE COORDINATED WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN TO ENSURE PROPER BORDER COMPATIBILITY.
2. DIFFUSERS WITH DIE STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3-CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. PROVIDE REMOTE CABLE OPERATED OPPOSED BLADE DAMPERS FOR ALL DIFFUSERS LOCATED IN INACCESSIBLE CEILINGS.
5. COORDINATE COLOR/FINISH WITH ARCHITECT.
6. RETURN GRILLES TO BE 3/4" BLADE SPACING.
7. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANASIOS (718.913.8520)

ANEMOSTAT AIR OUTLET SCHEDULE

TAG	ROOM	INSTALLATION	GRILLE TYPE	Quantity	NECK SIZE	FRAME SIZE	CFM RANGE	MAX NC	MANUFACTURE/ MODEL	COMMENTS
AREA C										
S45	SMALL GYM	DUCT MOUNTED	SUPPLY	16	~16X12	-	315	<20	20L	SEE NOTES
R44	SMALL GYM	OPEN PLENUM	RETURN	2	23x47	48x24	2600	<20	AC30-0-L	SEE NOTES
S46	202 GIRLS LR	LAY-IN	SUPPLY	2	8	24X24	225	<20	ZPL	SEE NOTES
E1	202 GIRLS LR	LAY-IN	EXHAUST	2	23x23	24X24	225	<20	AC30-45-L	SEE NOTES
S47	203/4 COACH	LAY-IN	SUPPLY	1	6	24X24	100	<20	ZPL	SEE NOTES
E2	203/4 COACH	LAY-IN	EXHAUST	1	23x23	24X24	100	<20	AC30-45-L	SEE NOTES
S48	205 GIRLS TEAM LR	LAY-IN	SUPPLY	1	6	24X24	105	<20	ZPL	SEE NOTES
E3	205 GIRLS TEAM LR	LAY-IN	EXHAUST	1	23x23	24X24	105	<20	AC30-45-L	SEE NOTES
S49	207 GIRLS TEAM LR	LAY-IN	SUPPLY	1	8	24X24	165	<20	ZPL	SEE NOTES
E4	207 GIRLS TEAM LR	LAY-IN	EXHAUST	1	23x23	24X24	165	<20	AC30-45-L	SEE NOTES
S50	214 BOYS TEAM LR	LAY-IN	SUPPLY	1	8	24X24	165	<20	ZPL	SEE NOTES
E5	214 BOYS TEAM LR	LAY-IN	EXHAUST	1	23x23	24X24	165	<20	AC30-45-L	SEE NOTES
S51	213 BOYS TEAM LR	LAY-IN	SUPPLY	1	6	24X24	105	<20	ZPL	SEE NOTES
E6	213 BOYS TEAM LR	LAY-IN	EXHAUST	1	23x23	24X24	105	<20	AC30-45-L	SEE NOTES
S52	209 BOYS LR	LAY-IN	SUPPLY	2	8	24X24	230	<20	ZPL	SEE NOTES
E7	209 BOYS LR	LAY-IN	EXHAUST	2	23x23	24X24	230	<20	AC30-45-L	SEE NOTES
S53	210/11 COACH	LAY-IN	SUPPLY	1	6	24X24	100	<20	ZPL	SEE NOTES
E8	210/11 COACH	LAY-IN	EXHAUST	1	23x23	24X24	100	<20	AC30-45-L	SEE NOTES
E9	TOILET RM5	LAY-IN	EXHAUST	2	23x23	24X24	225	<20	AC30-45-L	SEE NOTES
E10	208 CUST	LAY-IN	EXHAUST	1	23x23	24X24	20	<20	AC30-45-L	SEE NOTES
S54	LR CORRIDOR	LAY-IN	SUPPLY	1	6	24X24	50	<20	ZPL	SEE NOTES
E11	LR CORRIDOR	LAY-IN	EXHAUST	1	23x23	24X24	50	<20	AC30-45-L	SEE NOTES
S55	222 TO	LAY-IN	SUPPLY	1	6	24X24	35	<20	ZPL	SEE NOTES
E12	222 TO	LAY-IN	EXHAUST	1	23x23	24X24	35	<20	AC30-45-L	SEE NOTES
S56	219 UNI STG	LAY-IN	SUPPLY	1	6	24X24	45	<20	ZPL	SEE NOTES
E13	219 UNI STG	LAY-IN	EXHAUST	1	23x23	24X24	45	<20	AC30-45-L	SEE NOTES
S57	218 FB STG	LAY-IN	SUPPLY	1	6	24X24	20	<20	ZPL	SEE NOTES
E14	218 FB STG	LAY-IN	EXHAUST	1	23x23	24X24	20	<20	AC30-45-L	SEE NOTES
S58	228 GYM STG	LAY-IN	SUPPLY	1	6	24X24	30	<20	ZPL	SEE NOTES
E15	228 GYM STG	LAY-IN	EXHAUST	1	23x23	24X24	30	<20	AC30-45-L	SEE NOTES
S59	212 FB STG	LAY-IN	SUPPLY	1	6	24X24	10	<20	ZPL	SEE NOTES
E16	212 FB STG	LAY-IN	EXHAUST	1	23x23	24X24	10	<20	AC30-45-L	SEE NOTES
S60	223 REF OFF	LAY-IN	SUPPLY	1	6	24X24	20	<20	ZPL	SEE NOTES
E17	223 REF OFF	LAY-IN	EXHAUST	1	23x23	24X24	20	<20	AC30-45-L	SEE NOTES
E18	224 TOILET	LAY-IN	EXHAUST	1	23x23	24X24	75	<20	AC30-45-L	SEE NOTES
E19	225 COACH OFF	LAY-IN	EXHAUST	1	23x23	24X24	20	<20	AC30-45-L	SEE NOTES
S61	225 COACH OFF	LAY-IN	SUPPLY	1	6	24X24	20	<20	ZPL	SEE NOTES
E20	226 COACH OFF	LAY-IN	EXHAUST	1	23x23	24X24	20	<20	AC30-45-L	SEE NOTES
S62	226 COACH OFF	LAY-IN	SUPPLY	1	6	24X24	20	<20	ZPL	SEE NOTES
E21	227 STG RM	LAY-IN	EXHAUST	1	23x23	24X24	20	<20	AC30-45-L	SEE NOTES
S63	227 STG RM	LAY-IN	SUPPLY	1	6	24X24	20	<20	ZPL	SEE NOTES
E22	228 GYM STG RM	LAY-IN	EXHAUST	1	23x23	24X24	30	<20	AC30-45-L	SEE NOTES
S64	228 GYM STG RM	LAY-IN	SUPPLY	1	6	24X24	30	<20	ZPL	SEE NOTES
E23	CORRIDOR-2	LAY-IN	EXHAUST	1	23x23	24X24	45	<20	AC30-45-L	SEE NOTES
S65	CORRIDOR-2	LAY-IN	SUPPLY	3	6	24X24	90	<20	ZPL	SEE NOTES
E24	229 WELLNESS	LAY-IN	EXHAUST	1	23x23	24X24	400	<20	AC30-45-L	SEE NOTES
S66	229 WELLNESS	LAY-IN	SUPPLY	1	10	24X24	400	<20	ZPL	SEE NOTES
E25	230 TOILET RM	LAY-IN	EXHAUST	1	23x23	24X24	75	<20	AC30-45-L	SEE NOTES
E26	232 TOILET RM	LAY-IN	EXHAUST	1	23x23	24X24	75	<20	ZPL	SEE NOTES
E27	231 STG RM	LAY-IN	EXHAUST	1	23x23	24X24	60	<20	AC30-45-L	SEE NOTES
S67	231 STG RM	LAY-IN	SUPPLY	1	6	24X24	60	<20	ZPL	SEE NOTES
E28	233 VISITOR LR	LAY-IN	EXHAUST	1	23x23	24X24	270	<20	AC30-45-L	SEE NOTES
S68	233 VISITOR LR	LAY-IN	SUPPLY	1	8	24X24	270	<20	ZPL	SEE NOTES
S69	234/5 STG RM	LAY-IN	SUPPLY	2	6	24X24	30	<20	ZPL	SEE NOTES
E29	234/5 STG RM	LAY-IN	EXHAUST	2	23x23	24X24	30	<20	AC30-45-L	SEE NOTES

NOTES:

1. CEILING BORDER/FRAME TYPE SHALL BE COORDINATED WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN TO ENSURE PROPER BORDER COMPATIBILITY.
2. DIFFUSERS WITH DIE STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3-CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. PROVIDE REMOTE CABLE OPERATED OPPOSED BLADE DAMPERS FOR ALL DIFFUSERS LOCATED IN INACCESSIBLE CEILINGS.
5. COORDINATE COLOR/FINISH WITH ARCHITECT.
6. RETURN GRILLES TO BE 3/4" BLADE SPACING.
7. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANASIOS (718.913.8520)

SUPPLY/ EXHAUST/ RETURN GRILLE SCHEDULE

NOTE:

REV.	DATE	ITEM

NOTICE

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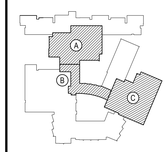

KEY PLAN

NOT TO SCALE

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

PROJECT

DWG TITLE: GRILLE SCHEDULES

DRAWING BY: GWT

CHECK BY: - - -

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	GRILLE SCHEDULES
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.10

VRF SYSTEM CU-1

LG — MULTI V
Bedford HS (23-131A) - BBS 11.15.24 - Rev.4(ver 1.9.2.10)

System Model Selection - ODU

System Name: CU-1 — **Date: 11/15/2024**
System No : 1/3

1. Design conditions - Outdoor

	Cooling DBT(°F)	Cooling WBT(°F)	Cooling RH(%)	Heating DBT(°F)	Heating WBT(°F)	Heating RH(%)
OAT	91.9	73.9	43.3	10.9	10.2	86.0
IAT	75.0	63.0	51.7	69.8	56.9	44.8

2. Outdoor Units

Model Name	No. of IDUs (Current / Max.) (EA)	Combination Ratio (Current / Max.) (%)	Corrected Capacity / Block Load (Cooling / Heating) (%)	Pre-charged Ref. amount (lbs)	Additional Ref. Amount (lbs)
ARUM072BTE5	11 / 13	96 / 130	0.0 / 0.0	14.30	11.19

Nominal/Corrected Capa. (kBtu/h) Cooling	Nominal/Corrected Capa. (kBtu/h) Heating	Nominal/Corrected PI (kW) Cooling	Nominal/Corrected PI (kW) Heating
72.0/61.5	81.0/79.5	4.3/3.3	5.4/8.2

Efficiency(Btu/h/W) Cooling	Efficiency(Btu/h/W) Heating	Weight(lbs)	Dimension (WxHxD) (inch)	Volt	Phase	Hz	MCA (A)	MOP (A)
18.5	9.7	430x1	36-5/8x66-17/32x29-29/32	208~230	3	60	22.6	35

3. Pipes

Diameter(Liq:Gas,inch)	Length(ft)
1/4 : 1/2	160.0
3/8 : 5/8	80.0
3/8 : 3/4	25.0

4. Branch/Header

Model Name	Quantity
ARBLN01621	10
-	-
-	-

LG — MULTI V
Bedford HS (23-131A) - BBS 11.15.24 - Rev.4(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-1 — **Date: 11/15/2024**
System No : 1/3

5. Indoor Units(1)

Room	Room Load TC	Room Load SC	Room Load HC	Cooling DBT	Cooling WBT	Heating DBT	Heating WBT	Model Name	Rated/Corrected TC	Rated/Corrected SC	Rated/Corrected HC	Capa/Room Load TC	Capa/Room Load SC	Capa/Room Load HC
AC-109/ RM 109 QUIET STUDY	5.0	3.0	6.0	75.0	63.0	69.8	56.9	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-110/ RM 110 QUIET STUDY	5.0	3.0	6.0	75.0	63.0	69.8	56.9	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-111/ RM 111 QUIET STUDY	5.0	3.0	6.0	75.0	63.0	69.8	56.9	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-114/ RM 114 I.T. OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.9	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-115/ RM 115 LMS OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.9	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-117/ RM 117 QUIET STUDY	5.0	3.0	6.0	75.0	63.0	69.8	56.9	ARNU073TRD4	7.5/6.6	5.4/4.7	8.5/8.5	132.7	157.1	142.1
AC-118/ RM 118 SENSORY RM	9.0	6.0	10.0	75.0	63.0	69.8	56.9	ARNU093TRD4	9.6/8.4	6.9/6.0	10.9/10.9	93.3	99.7	109.3
AC-120/ RM 120 QUIET STUDY	7.0	5.0	8.0	75.0	63.0	69.8	56.9	ARNU073TRD4	7.5/6.6	5.4/4.7	8.5/8.5	94.8	94.3	106.6
AC-121/ RM 121 QUIET STUDY	7.0	5.0	8.0	75.0	63.0	69.8	56.9	ARNU073TRD4	7.5/6.6	5.4/4.7	8.5/8.5	94.8	94.3	106.6
AC-Lib Cove A/ LIBRARY COVE A	7.0	5.0	8.0	75.0	63.0	69.8	56.8	ARNU073TRD4	7.5/6.6	5.4/4.7	8.5/8.5	94.8	94.3	106.6
AC-Lib Cove B/ LIBRARY COVE B	7.0	5.0	8.0	75.0	63.0	69.8	56.9	ARNU073TRD4	7.5/6.6	5.4/4.7	8.5/8.5	94.8	94.3	106.6

LG — MULTI V
Bedford HS (23-131A) - BBS 11.15.24 - Rev.4(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-1 — **Date: 11/15/2024**
System No : 1/3

6. Indoor Units(2)

Tag	Model Name	Type	Est. Discharge Temp.(°F) Cooling	Est. Discharge Temp.(°F) Heating	Air flow rate (CFM)	Remark
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU073TRD4	CASSETTE 4WAY	59.3	98.7	264.9	-
	ARNU093TRD4	CASSETTE 4WAY	56.3	104.4	283.0	NA
	ARNU073TRD4	CASSETTE 4WAY	59.3	98.7	264.9	NA
	ARNU073TRD4	CASSETTE 4WAY	59.3	98.7	264.9	NA
	ARNU073TRD4	CASSETTE 4WAY	59.3	98.7	264.9	NA
	ARNU073TRD4	CASSETTE 4WAY	59.3	98.7	264.9	NA

LG — MULTI V
Bedford HS (23-131A) - BBS 11.15.24 - Rev.4(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-1 — **Date: 11/15/2024**
System No : 1/3

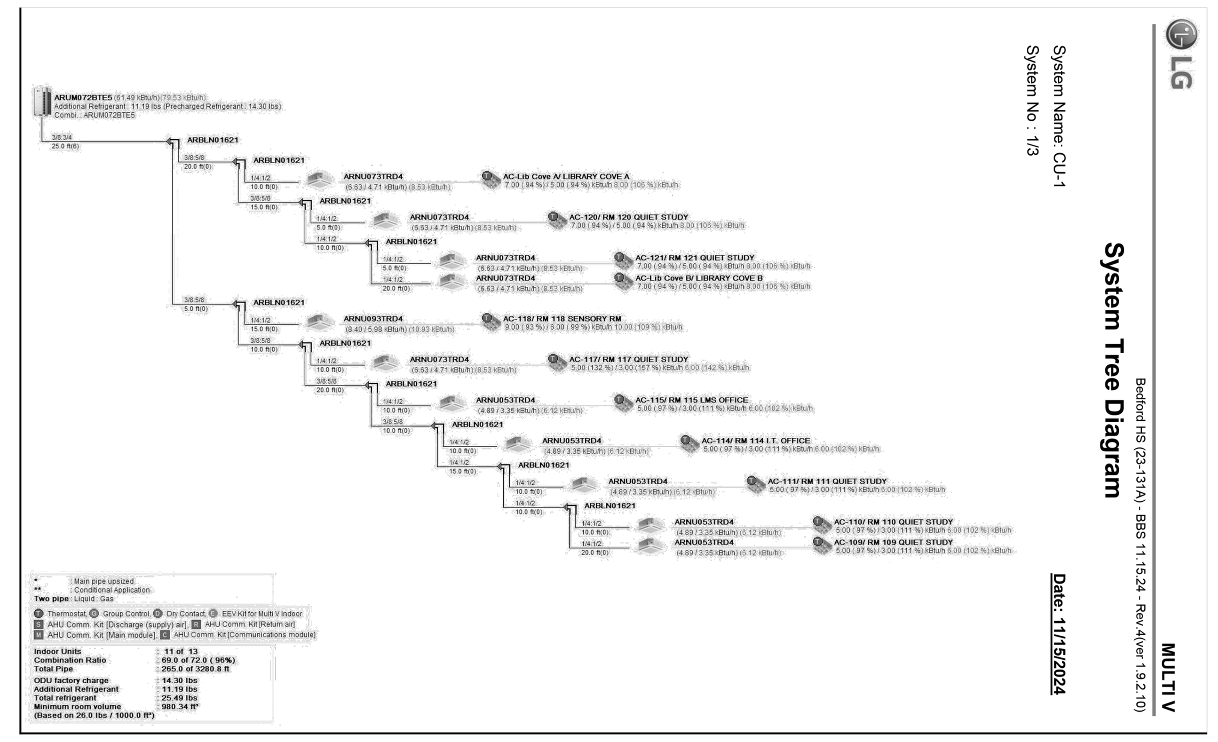
7. Indoor Units(3)

Tag	Model Name	Weight	Dimension (WxHxD)	Volt	Phase	Hz	MCA (A)	RLA (A)
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU073TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU093TRD4	32 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU073TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU073TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU073TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU073TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2

INDOOR UNIT VRF SYSTEM SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. MC TO HAVE FACTORY-AUTHORIZED VRF SYSTEM MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE & LAY OUT THE EXACT LOCATION(S) OF EACH INDOOR UNIT(S) & MEASURE THE EXACT REFRIGERANT LINE SET PIPING RUNS AND PROVIDE A DETAIL SUBMITTAL BASED ON EXISTING FIELD CONDITIONS FOR FORMAL SUBMITTAL FOR REVIEW & APPROVAL PROCESS BY ENGINEER OF RECORD.
8. ALL INDOOR EQUIPMENT SHALL BE SUPPORTED/INSTALLED IN EXACT ACCORDANCE WITH APPROVED INDOOR EQUIPMENT MANUFACTURER'S REQUIREMENTS.

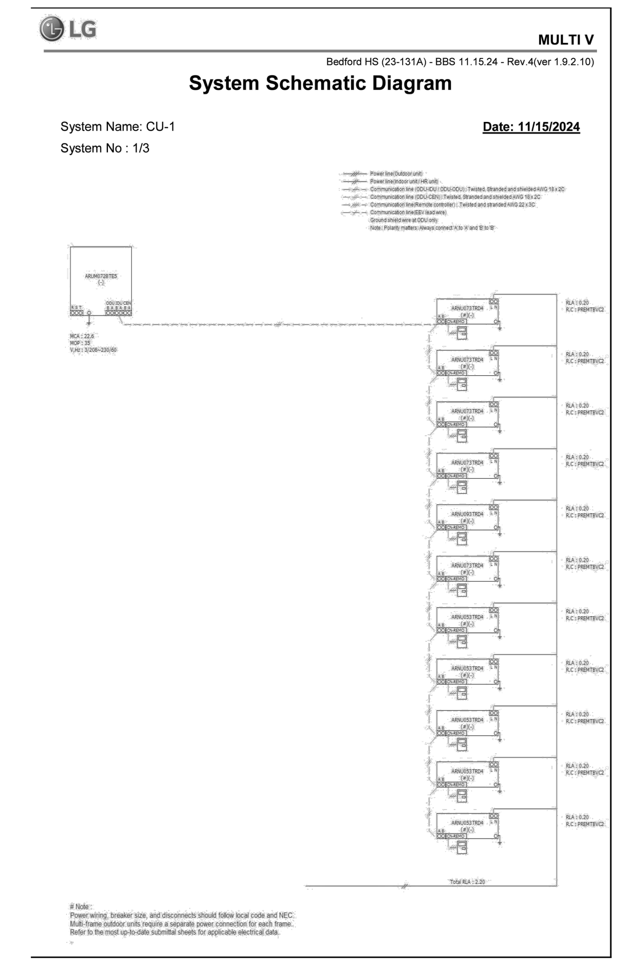
OUTDOOR UNIT VRF SYSTEM SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. MC TO HAVE FACTORY-AUTHORIZED VRF SYSTEM MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE & LAY OUT THE EXACT LOCATION(S) OF EACH INDOOR UNIT(S) & MEASURE THE EXACT REFRIGERANT LINE SET PIPING RUNS AND PROVIDE A DETAIL SUBMITTAL BASED ON EXISTING FIELD CONDITIONS FOR FORMAL SUBMITTAL FOR REVIEW & APPROVAL PROCESS BY ENGINEER OF RECORD.
7. MC SHALL PROVIDE SUPPORTS FROM APPROVED OUTDOOR UNIT MANUFACTURER & FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH ME PRESENT.

NOTE:



SYSTEM CU-1 VRF PIPING TREE DIAGRAM

NOTE:



SYSTEM CU-1 VRF SCHEMATIC WIRING DIAGRAM

NOTE:

VRF SYSTEM CU-2

LG — MULTI V
Bedford HS (23-131A) - BBS 11.15.24 - Rev.4(ver 1.9.2.10)

System Model Selection - ODU

System Name: CU-2 — **Date: 11/15/2024**
System No : 2/3

1. Design conditions - Outdoor

	Cooling DBT(°F)	Cooling WBT(°F)	Cooling RH(%)	Heating DBT(°F)	Heating WBT(°F)	Heating RH(%)
OAT	91.9	73.9	43.3	10.9	10.2	86.0
IAT	75.0	63.0	51.7	69.8	56.8	44.6

2. Outdoor Units

Model Name	No. of IDUs (Current / Max.) (EA)	Combination Ratio (Current / Max.) (%)	Corrected Capacity / Block Load (Cooling / Heating) (%)	Pre-charged Ref. amount (lbs)	Additional Ref. Amount (lbs)
ARUM121BTE5	16 / 20	98 / 130	0.0 / 0.0	23.20	17.73

Nominal/Corrected Capa. (kBtu/h) Cooling	Nominal/Corrected Capa. (kBtu/h) Heating	Nominal/Corrected PI (kW) Cooling	Nominal/Corrected PI (kW) Heating
119.7/100.9	135.0/132.6	7.7/6.2	9.2/14.2

Efficiency(Btu/h/W) Cooling	Efficiency(Btu/h/W) Heating	Weight(lbs)	Dimension (WxHxD) (inch)	Volt	Phase	Hz	MCA (A)	MOP (A)
16.4	9.3	507x1	48-13/16x66-17/32x29-29/32	208~230	3	60	30.9	40

3. Pipes

Diameter(Liq:Gas,inch)	Length(ft)
1/4 : 1/2	230.0
3/8 : 5/8	95.0
3/8 : 3/4	5.0
3/8 : 7/8	20.0
1/2 : 1-1/8	25.0

4. Branch/Header

Model Name	Quantity
ARBLN01621	13
ARBLN03321	2
-	-
-	-
-	-

LG — MULTI V
Bedford HS (23-131A) - BBS 11.15.24 - Rev.4(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-2 — **Date: 11/15/2024**
System No : 2/3

5. Indoor Units(1)

Room	Room Load TC	Room Load SC	Room Load HC	Cooling DBT	Cooling WBT	Heating DBT	Heating WBT	Model Name	Rated/Corrected TC	Rated/Corrected SC	Rated/Corrected HC	Capa/Room Load TC	Capa/Room Load SC	Capa/Room Load HC
AC-125/ RM 125 COUNSELORS OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-126/ RM 126 VAULT	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-128/ RM 128 DIRECTORS OFFICE	9.0	6.0	10.0	75.0	63.0	69.8	56.8	ARNU093TRD4	9.6/8.4	6.9/6.0	10.9/10.9	93.3	99.7	109.3
AC-129/ RM 129 OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-130/ RM 130 OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-131/ RM 131 OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-132/ RM 132 OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-133/ RM 133 OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-134/ RM 134 OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-135/ RM 135 OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-136/ RM 136 OFFICE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-137/ RM 137 COLLEGE CAREER CENTER	18.0	12.0	21.0	75.0	63.0	69.8	56.8	ARNU183TQD4	19.1/16.6	13.8/11.6	21.5/21.6	92.1	96.9	102.7
AC-139/ RM 139 COPY/ STORAGE	5.0	3.0	6.0	75.0	63.0	69.8	56.8	ARNU053TRD4	5.5/4.9	3.9/3.4	6.1/6.1	97.8	111.8	102.0
AC-141/ RM 141 READING RM	12.0	8.0	13.0	75.0	63.0	69.8	56.8	ARNU123TRD4	12.3/10.8	8.9/7.7	13.6/13.6	90.2	96.9	105.0
AC-155/ RM 155 GUIDANCE WAITING	15.0	11.0	17.0	75.0	63.0	69.8	56.8	ARNU153TQD4	15.4/13.6	11.1/9.6	17.1/17.2	90.4	87.4	100.9
AC-156/ RM 156 YEARBOOK OFFICE	9.0	6.0	10.0	75.0	63.0	69.8	56.8	ARNU093TRD4	9.6/8.4	6.9/6.0	10.9/10.9	93.3	99.7	109.3

LG — MULTI V
Bedford HS (23-131A) - BBS 11.15.24 - Rev.4(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-2 — **Date: 11/15/2024**
System No : 2/3

6. Indoor Units(2)

Tag	Model Name	Type	Est. Discharge Temp.(°F) Cooling	Est. Discharge Temp.(°F) Heating	Air flow rate (CFM)	Remark
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU093TRD4	CASSETTE 4WAY	56.3	104.4	283.0	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU183TQD4	CASSETTE 4WAY	49.0	118.7	395.5	NA
	ARNU053TRD4	CASSETTE 4WAY	63.8	90.5	264.9	NA
	ARNU123TRD4	CASSETTE 4WAY	52.7	109.6	307.3	NA
	ARNU153TQD4	CASSETTE 4WAY	53.1	109.5	388.0	NA
	ARNU093TRD4	CASSETTE 4WAY	56.3	104.4	283.0	NA

LG — MULTI V
Bedford HS (23-131A) - BBS 11.15.24 - Rev.4(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-2 — **Date: 11/15/2024**
System No : 2/3

7. Indoor Units(3)

Tag	Model Name	Weight	Dimension (WxHxD)	Volt	Phase	Hz	MCA (A)	RLA (A)
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU093TRD4	32 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU183TQD4	35 lbs	22-7/16x10x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU053TRD4	29 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU123TRD4	32 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU153TQD4	35 lbs	22-7/16x10x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU093TRD4	32 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2

INDOOR UNIT VRF SYSTEM SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. MC TO HAVE FACTORY-AUTHORIZED VRF SYSTEM MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE & LAY OUT THE EXACT LOCATION(S) OF EACH INDOOR UNIT(S) & MEASURE THE EXACT REFRIGERANT LINE SET PIPING RUNS AND PROVIDE A DETAIL SUBMITTAL BASED ON EXISTING FIELD CONDITIONS FOR FORMAL SUBMITTAL FOR REVIEW & APPROVAL PROCESS BY ENGINEER OF RECORD.
8. ALL INDOOR EQUIPMENT SHALL BE SUPPORTED/INSTALLED IN EXACT ACCORDANCE WITH APPROVED INDOOR EQUIPMENT MANUFACTURER'S REQUIREMENTS.

OUTDOOR UNIT VRF SYSTEM SCHEDULE NOTES:
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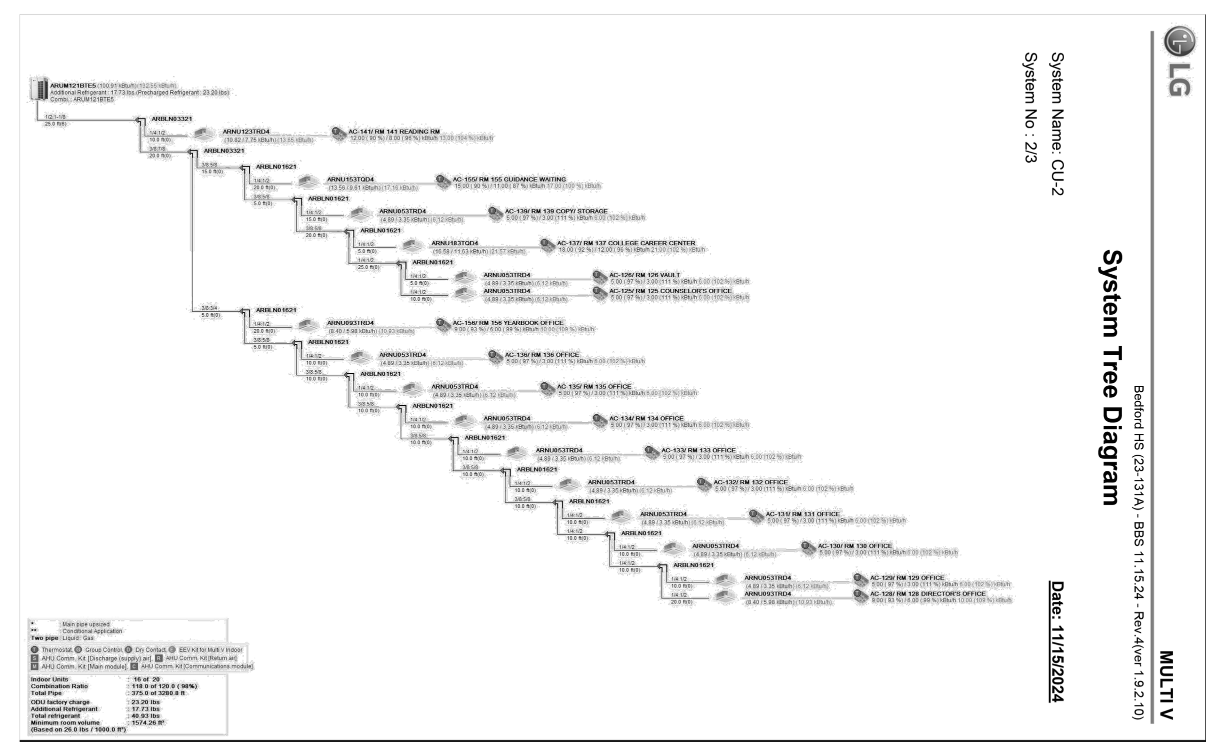
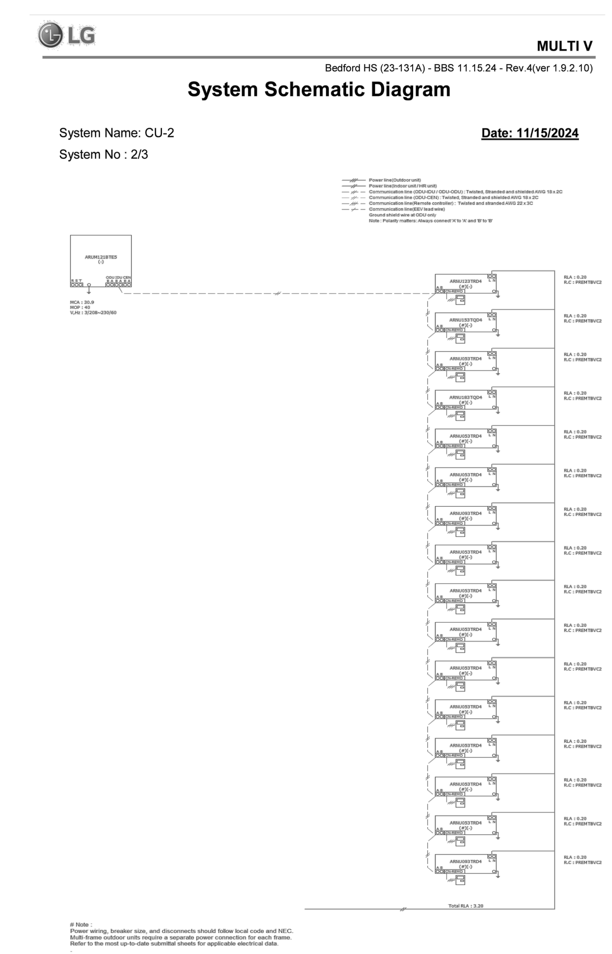
7. MC SHALL PROVIDE SUPPORTS FROM APPROVED OUTDOOR UNIT MANUFACTURER & FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH ME PRESENT.

NOTE:



SYSTEM CU-2 VRF PIPING TREE DIAGRAM

NOTE:



SYSTEM CU-2 VRF SCHEMATIC WIRING DIAGRAM

NOTE:

VRF SYSTEM CU-3

LG — MULTI V
Bedford HS (23-131A) - BBS 9.20.24 - Rev.2(ver 1.9.2.10)

System Model Selection - ODU

System Name: CU-3 — **Date: 09/20/2024**
System No : 3/3

1. Design conditions - Outdoor

	Cooling DBT(°F)	Cooling WBT(°F)	Cooling RH(%)	Heating DBT(°F)	Heating WBT(°F)	Heating RH(%)
OAT	91.9	73.9	43.3	10.9	10.2	86.0
IAT	75.0	63.0	51.7	69.8	56.9	44.7

2. Outdoor Units

Model Name	No. of IDUs (Current / Max.) (EA)	Combination Ratio (Current / Max.) (%)	Corrected Capacity / Block Load (Cooling / Heating) (%)	Pre-charged Ref. amount (lbs)	Additional Ref. Amount (lbs)
ARUM072BTE5	5 / 13	100 / 130	0.0 / 0.0	14.30	8.02

Nominal/Corrected Capa. (kBtu/h) Cooling	Nominal/Corrected Capa. (kBtu/h) Heating	Nominal/Corrected PI (kW) Cooling	Nominal/Corrected PI (kW) Heating
72.0/61.1	81.0/79.5	4.3/3.5	5.4/8.4

Efficiency(Btu/h/W) Cooling	Efficiency(Btu/h/W) Heating	Weight(lbs)	Dimension (WxHxD) (inch)	Volt	Phase	Hz	MCA (A)	MOP (A)
17.6	9.5	430x1	36-5/8x66-17/32x29-29/32	208~230	3	60	22.6	35

3. Pipes

Diameter(Liq:Gas,inch)	Length(ft)
1/4 : 1/2	140.0
3/8 : 5/8	30.0
3/8 : 3/4	35.0

4. Branch/Header

Model Name	Quantity
ARBLN01621	3
ARBLN03321	1
-	-

LG — MULTI V
Bedford HS (23-131A) - BBS 9.20.24 - Rev.2(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-3 — **Date: 09/20/2024**
System No : 3/3

5. Indoor Units(1)

Room	Room Load TC	Room Load SC	Room Load HC	Cooling DBT	Cooling WBT	Heating DBT	Heating WBT	Model Name	Rated/Corrected TC	Rated/Corrected SC	Rated/Corrected HC	Capa/Room Load TC	Capa/Room Load SC	Capa/Room Load HC
AC-163/ RM 163 CONFERENCE RM	15.0	11.0	17.0	75.0	63.0	69.8	56.9	ARNU153TQD4	15.4/13.6	11.1/9.6	17.1/17.2	90.4	87.4	100.9
AC-164/ RM 164 SECURITY OFFICE	9.0	6.0	10.0	75.0	63.0	69.8	56.8	ARNU093TRD4	9.6/8.4	6.9/6.0	10.9/10.9	93.3	99.7	109.3
AC-165/ RM 165 ART DIRECTORS OFFICE	15.0	11.0	17.0	75.0	63.0	69.8	56.9	ARNU153TQD4	15.4/13.6	11.1/9.6	17.1/17.2	90.4	87.4	100.9
AC-167/ RM 167 ART OFFICE	15.0	11.0	17.0	75.0	63.0	69.8	56.9	ARNU153TQD4	15.4/13.6	11.1/9.6	17.1/17.2	90.4	87.4	100.9
AC-168/ RM 168 ART GALLERY	15.0	11.0	17.0	75.0	63.0	69.8	56.9	ARNU183SKS4	19.1/16.8	13.6/11.8	21.5/21.6	112.1	107.1	126.9

LG — MULTI V
Bedford HS (23-131A) - BBS 9.20.24 - Rev.2(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-3 — **Date: 09/20/2024**
System No : 3/3

6. Indoor Units(2)

Tag	Model Name	Type	Est. Discharge Temp.(°F) Cooling	Est. Discharge Temp.(°F) Heating	Air flow rate (CFM)	Remark
	ARNU153TQD4	CASSETTE 4WAY	53.1	109.5	388.0	NA
	ARNU093TRD4	CASSETTE 4WAY	56.3	104.4	283.0	NA
	ARNU153TQD4	CASSETTE 4WAY	53.1	109.5	388.0	NA
	ARNU153TQD4	CASSETTE 4WAY	53.1	109.5	388.0	NA
	ARNU183SKS4	WALL MOUNTED	53.9	108.9	494.4	-

LG — MULTI V
Bedford HS (23-131A) - BBS 9.20.24 - Rev.2(ver 1.9.2.10)

System Model Section - IDU

System Name: CU-3 — **Date: 09/20/2024**
System No : 3/3

7. Indoor Units(3)

Tag	Model Name	Weight	Dimension (WxHxD)	Volt	Phase	Hz	MCA (A)	RLA (A)
	ARNU153TQD4	35 lbs	22-7/16x10x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU093TRD4	32 lbs	22-7/16x8-7/16x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU153TQD4	35 lbs	22-7/16x10x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU153TQD4	35 lbs	22-7/16x10x22-7/16 inch	208~230	1	60	0.25	0.2
	ARNU183SKS4	28.7 lbs	39-9/32x13-19/32x8-9/32 inch	208~230	1	60	0.65	0.52

INDOOR UNIT VRF SYSTEM SCHEDULE NOTES:
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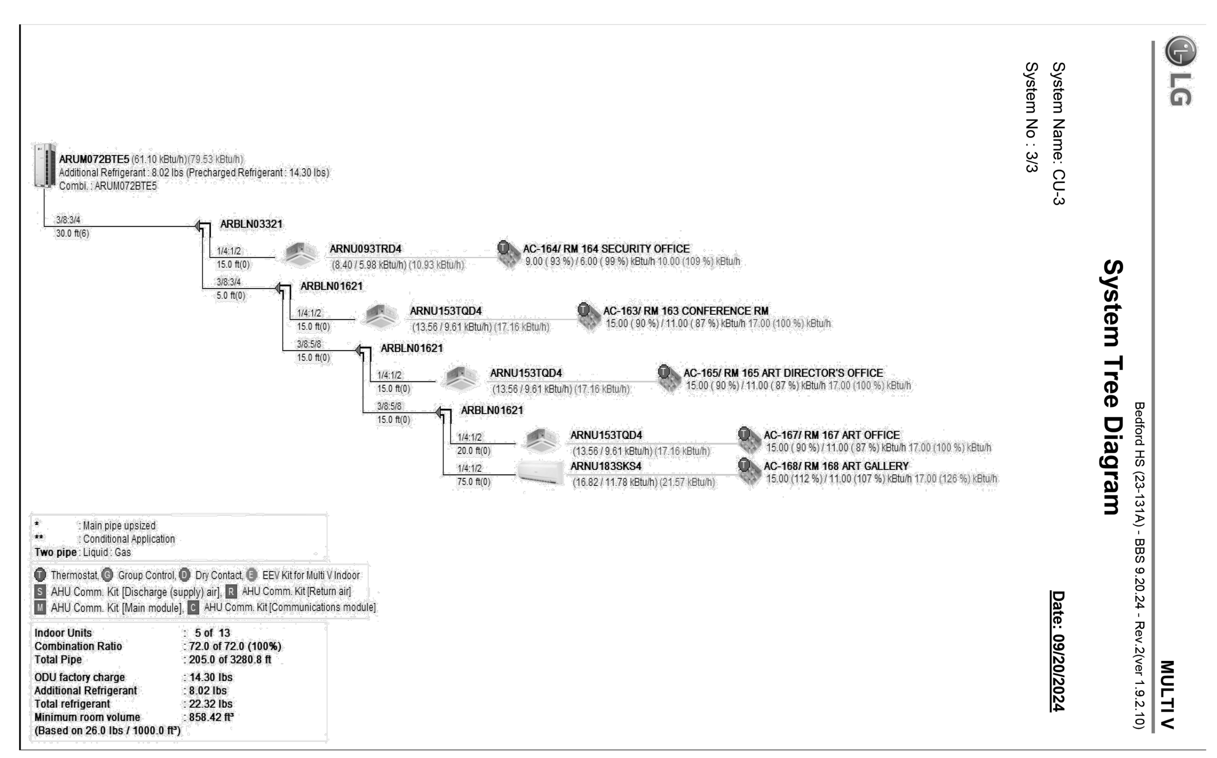
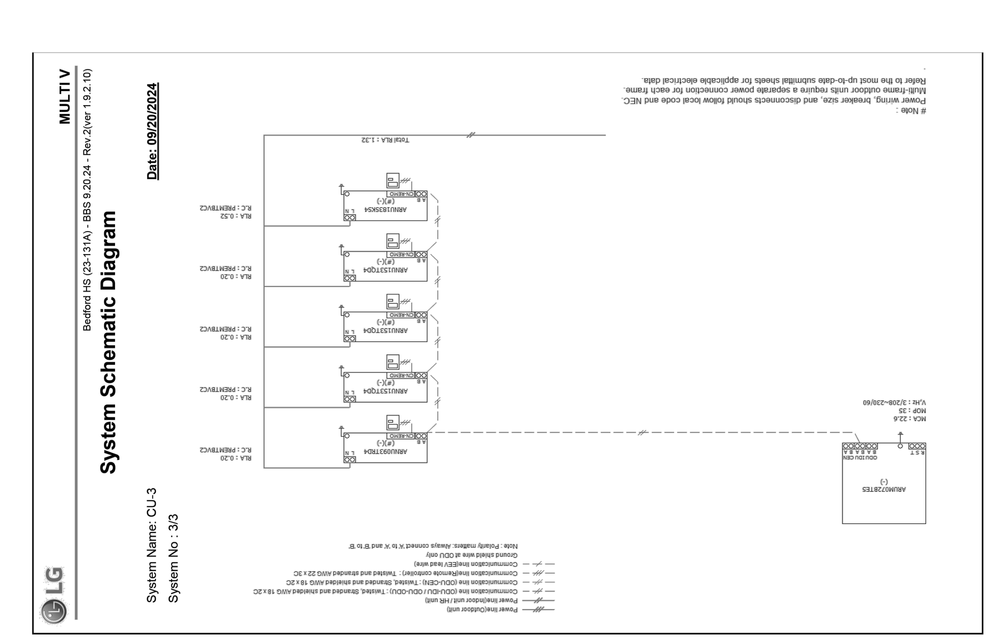
NOTE:



SYSTEM CU-3 VRF PIPING TREE DIAGRAM

NOTE:



SYSTEM CU-3 VRF SCHEMATIC WIRING DIAGRAM

NOTE:

REV.	DATE	ITEM

NOTICE

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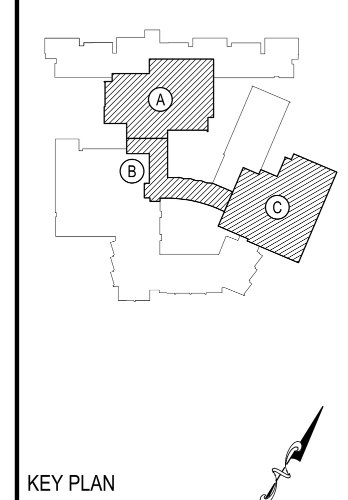

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
VRF SYSTEMS, PIPING
SCHEMATICS, SCHEDULES and DETAILS

DRAWING BY: GWT
CHECK BY: - - -

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	VRF SYSTEMS, PIPING SCHEMATICS, SCHEDULES AND DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.11

CU-1 & 3

Tag No.:

ARUM072BTE5
Multi V™ 5 with LGRED° 208-230V ODU
6 Ton Single Frame Heat Pump and Heat Recovery

LG Life's Good

Performance:
Cooling Mode:

Nominal Capacity (Btu/h)	72,000
Power Input (kW)	4.28

Heating Mode:

Nominal Capacity (Btu/h)	81,000
Power Input (kW)	5.39

Rated capacity is certified under AHRI Standard 1230-2023. Ratings are subject to change without notice. Current and past certified ratings are available at www.ahridirectory.org.

Electrical:

Frame	ARUM072BTE5
Power Supply (V/Hz/Ø)[1]	208-230/60/3
MOP (A)	35
MCA (A)	22.6
Rated Amps (A)	19.1
Compressor A (A)	14.1
Compressor B (B)	-
Fan (A)	5.0

Piping:[2]

Frame	ARUM072BTE5
Refrigerant Charge (lbs.)	14.3
Liquid (in., O.D.)	3/8 Braze
High Pressure Vapor (in, O.D.)	5/8 Braze
Low Pressure Vapor (in., O.D.)	3/4 Braze

Operating Range:

Cooling (°F DB)**	5 - 122
Heating (°F WB)	-22 - 61
Synchronous	
Cooling Based (°F DB)	14 - 81
Heating Based (°F WB)	14 - 61

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max. Number of Indoor Units[3]	13
Sound Pressure[4] dB(A)	58.0
Weight	
Frame	ARUM072BTE5
Net (lbs.)	430
Shipping (lbs.)	452
Communication Cable (No x AWG)[5]	2 x 18
Heat Exchanger Coating	Black Fin II

Compressor:

Type	HSS DC Scroll
Quantity	1
Oil / Type	PVE / FVC68D

Fan:

Type	Propeller
Quantity	1
Motor Drive	Brushless Digitally Controlled Direct
Air Flow Rate (rated/max, CFM)	6,600 / 8,470

Notes:
1. Power wiring cable size must comply with the applicable local and national codes. Cables terminate at each frame.
2. For main pipe segment size, refer to the LATS Multi V tree diagram.
3. The combination ratio must be between 50-130%.
4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745 for the combination of outdoor units.
5. Communication cable between ODU and IDUs must be 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the Main ODU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
6. Acceptable operating voltage: 187V - 253V
7. SCCR rating: 56 kA RMS symmetrical 208V maximum / 62 kA RMS symmetrical 230V maximum.
8. Fan ESP (in wg) selectable range is 0.16 to 0.32.

Standard Features:
- Advanced Smart Load Control
- Intelligent Heating
- HiPOR (High Pressure Oil Return)
- Smart Oil Control
- Night Quiet Operation
- Fault Detection and Diagnosis
- Active Refrigerant Control
- Variable Heat Path Exchanger
- Subcooling and Vapor Injection Control
- Liquid Cooled Inverter Controller
- Advanced Comfort Cooling

Optional Accessories:
☐ Air Guide - ZAGDKA51A
☐ Hail Guard Kit - ZHGDKA51A
☐ Low Ambient Baffle Kit - ZLABKA51A, Control Kit - PRVC2 (1 per system)
☐ Drain Pan Heater - ZPLT1A51A

LGRED° Powerful Heat Technology · Inverter · AHRI CERTIFIED www.ahridirectory.org Variable Refrigerant Flow (VRF) Multi-Split AC and HP AHRI Standard 1230

**Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +122°F and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

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SB_MultiV_5_ODU_ARUM072BTE5_2024_02_16_134652

CU-2

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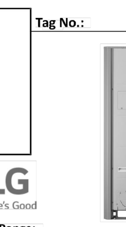

ARUM121BTE5
Multi V™ 5 with LGRED° 208-230V ODU
10 Ton Single Frame Heat Pump and Heat Recovery

Performance:
Cooling Mode:

Nominal Capacity (Btu/h)	119,700
Power Input (kW)	7.72

Heating Mode:

Nominal Capacity (Btu/h)	135,000
Power Input (kW)	9.20

Rated capacity is certified under AHRI Standard 1230-2023. Ratings are subject to change without notice. Current and past certified ratings are available at www.ahridirectory.org.

Electrical:

Frame	ARUM121BTE5
Power Supply (V/Hz/Ø)[1]	208-230/60/3
MOP (A)	40
MCA (A)	30.9
Rated Amps (A)	26.3
Compressor A (A)	18.3
Compressor B (B)	-
Fan (A)	8.0

Piping:[2]

Frame	ARUM121BTE5
Refrigerant Charge (lbs.)	23.2
Liquid (in., O.D.)	1/2 Braze
High Pressure Vapor (in, O.D.)	3/4 Braze
Low Pressure Vapor (in., O.D.)	1-1/8 Braze

Operating Range:

Cooling (°F DB)**	5 - 122
Heating (°F WB)	-22 - 61
Synchronous	
Cooling Based (°F DB)	14 - 81
Heating Based (°F WB)	14 - 61

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max. Number of Indoor Units[3]	20
Sound Pressure[4] dB(A)	59.0
Weight	
Frame	ARUM121BTE5
Net (lbs.)	507
Shipping (lbs.)	534
Communication Cable (No x AWG)[5]	2 x 18
Heat Exchanger Coating	Black Fin II

Compressor:

Type	HSS DC Scroll
Quantity	1
Oil / Type	PVE / FVC68D

Fan:

Type	Propeller
Quantity	2
Motor Drive	Brushless Digitally Controlled Direct
Air Flow Rate (rated/max, CFM)	8,400 / 11,300

Notes:
1. Power wiring cable size must comply with the applicable local and national codes. Cables terminate at each frame.
2. For main pipe segment size, refer to the LATS Multi V tree diagram.
3. The combination ratio must be between 50-130%.
4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745 for the combination of outdoor units.
5. Communication cable between ODU and IDUs must be 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the Main ODU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
6. Acceptable operating voltage: 187V - 253V
7. SCCR rating: 56 kA RMS symmetrical 208V maximum / 62 kA RMS symmetrical 230V maximum.
8. Fan ESP (in wg) selectable range is 0.16 to 0.32.

Standard Features:
- Advanced Smart Load Control
- Intelligent Heating
- HiPOR (High Pressure Oil Return)
- Smart Oil Control
- Night Quiet Operation
- Fault Detection and Diagnosis
- Active Refrigerant Control
- Variable Heat Path Exchanger
- Subcooling and Vapor Injection Control
- Liquid Cooled Inverter Controller
- Advanced Comfort Cooling

Optional Accessories:
☐ Air Guide - ZAGDKA52A
☐ Hail Guard Kit - ZHGDKA52A
☐ Low Ambient Baffle Kit - ZLABKA52A, Control Kit - PRVC2 (1 per system)
☐ Base Pan Heater - ZPLT1A52A

**Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +122°F and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

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CU/ AC-138 Qty. (1)

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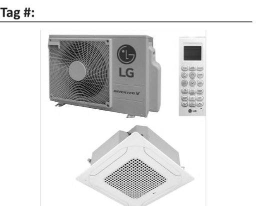

LC098HV
Ceiling Cassette Single Zone
Indoor Unit (IDU) - LCN098HV4, Outdoor Unit (ODU) - LUU090HV

Performance:
Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,600 ~ 9,000 ~ 9,900
SEER2	20.20
EER2	13.65

SEER - Seasonal Energy Efficiency Ratio · EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	4,400 ~ 11,000 ~ 12,100
HSPF2	10.55
Max. Heating @ Indoor 70°F DB	
Outdoor 17°F DB	11,000
Outdoor 5°F DB	10.100
Outdoor -4°F DB	9,040

HSPF - Heating Seasonal Performance Factor

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
MOP (A)	15
MCA (A)	11.9
Cooling Rated Amps (A)	9.65
Heating Rated Amps (A)	9.65
Compressor (A)	9.0
Fan Motor (IDU + ODU) (A)	0.65
Cooling Power Input (kW)	0.66
Heating Power Input (kW)	0.83

MOP - Maximum Overcurrent Protection · MCA - Minimum Circuit Ampacity

Piping:

Liquid (in., O.D., Connection Size/Pipe Size)	1/4 / 1/4
Vapor (in., O.D., Connection Size/Pipe Size)	3/8 / 3/8
Additional Refrigerant (oz./ft.)	0.22
Max. Pipe Length (ft.)[2]	66
Piping Length (no add'l refrig., ft.)	25
Max. Elevation (ft.)	49

Features:
- Inverter (Variable Speed Compressor)
- Internal Condensate Pump
- Swirl Wind / Jet Cool
- IDU compatible with Multi F ODUs
- Auto Restart
- Auto Changeover
- Ultra-quiet Turbo Fan
- Optional Wi-Fi Control

Included Accessories:
- Wireless Remote Controller — AKB73757604 (Also referenced by Model No. PQWRHQ0FDB)

Required Accessories:
☒ Panel (24-13/32" x 24-13/32") - PT-QAGW0

Optional Accessories:
☐ Ventilation Flange[1] - PTVK430
☐ MultiSITE™ CRC[1] Controller - PREMTBVC2/C3/C4
☐ Simple Remote Controller - PREMTC00U
☐ Standard III Remote Controller (White / Black) - PREMTB100 / PREMTBB10
☐ Deluxe Remote Controller – PREMTA201
☐ Remote Temperature Button Sensor - ZRTBS01
☐ Simple Dry Contact (1 contact, 24 VAC external power) - PDRYCB100
☐ Dry Contact for Third Party Thermostat - PDRYCB320
☐ Dry Contact for Economizer - PDRYCB400
☐ AHU Communication Kit - PAHCMR000
☐ Auxiliary Heater Kit[1] - PRARH1
☐ Wi-Fi Module - PWFMDD200
☐ Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP01A
☐ Drain Pan Heater - PQSH1202

Operating Range:
Outdoor Unit:

Cooling (°F DB)	0 - 118
Heating (°F WB)	-4 ~ +64

Indoor Unit:

Cooling (°F WB)	57 ~ 77
Heating (°F DB)	59 ~ 81

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	2.43
IDU Sound Pressure (H/M/L) (±3 dB[A])[3]	36 / 33 / 30
ODU Sound Pressure Max. (Cooling / Heating) (±3 dB[A])[3]	47 / 51
ODU Net / Shipping Weight (lbs.)	71 / 76
IDU Net / Shipping Weight (lbs.)	31 / 37
Grille Net / Shipping Weight (lbs.)	7 / 9

Fan:

ODU Type	Propeller
IDU Type	Turbo
Fan Speeds (Fan/Cool/Heat)	4 / 5 / 4
Quantity (ODU + IDU)	(1 + 1)
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Air Flow Rate (CFM)	988
IDU Air Flow (CFM H/M/L)	300 / 265 / 230
Dehumidification (pts./hr.)	1.6

Notes:
1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Must comply with applicable codes for fire isolation dampers.
4. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
5. All communication / connection (power) cable from the outdoor unit to the indoor unit is field supplied and must be a minimum of four-conductor, 14 AWG, stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only), and must comply with applicable local and national codes.
6. This unit comes with a dry helium charge.
7. Nominal data is rated 0 ft. above sea level, with 25 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
8. Power wiring cable size must comply with the applicable local and national code.
9. Must follow installation instructions in the applicable LG installation manual.
10. Multi-compatible IDUs include socket adapters for refrigerant pipe connection with Single Zone systems.

ENERGY STAR · ENERGY STAR COLD CLIMATE · Inverter · 162279 · AHRI CERTIFIED® Unitary Small HP AHRI Standard 210/240

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov. (ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.)

For a complete list of available accessories, contact your LG representative.
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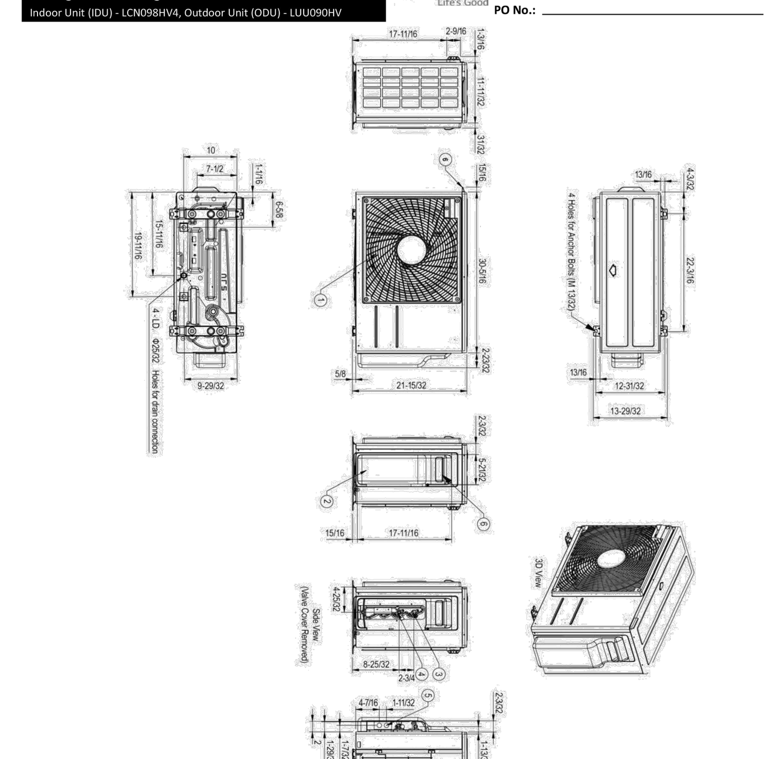
SB_SZ_FourWayCassette2x2_LC098HV_2024_02_14_144246

Job Name/Location:

LC098HV
Ceiling Cassette Single Zone
Indoor Unit (IDU) - LCN098HV4, Outdoor Unit (ODU) - LUU090HV

Tag No.:
Date:
PO No.:



No.	Part Name
1	Air outlet
2	Control cover & service valve cover
3	Vapor pipe connection
4	Liquid pipe connection
5	Conduit
6	Handle
7	Intake air temperature sensor cover

[Unit: inch]

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SB_SZ_FourWayCassette2x2_LC098HV_2024_02_14_144246

Job Name/Location:

LC098HV
Ceiling Cassette Single Zone
Indoor Unit (IDU) - LCN098HV4, Outdoor Unit (ODU) - LUU090HV

Tag No.:
Date:
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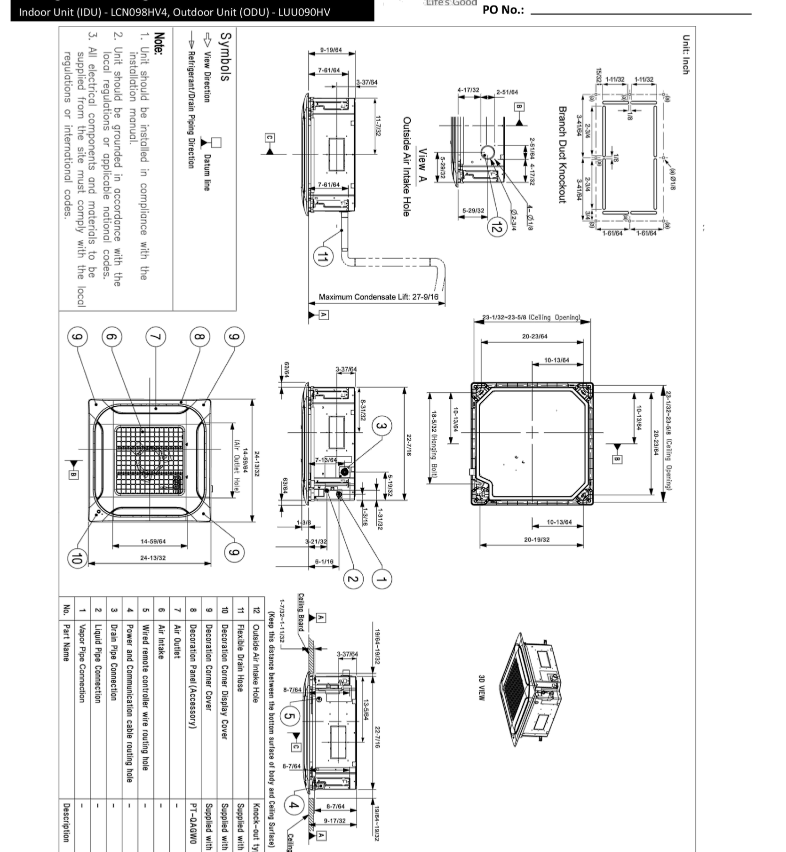

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SB_SZ_FourWayCassette2x2_LC098HV_2024_02_14_144246

1:1 IT CLOSET 138 DEDICATED CASSETTE (CU-138/ AC-138) (LG AS BASIS OF DESIGN)

NOTE:

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. MC TO HAVE FACTORY-AUTHORIZED VRF SYSTEM MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE & LAY OUT THE EXACT LOCATION(S) OF EACH INDOOR UNIT(S) & MEASURE THE EXACT REFRIGERANT LINE SET PIPING RUNS AND PROVIDE A DETAIL SUBMITTAL BASED ON EXISTING FIELD CONDITIONS FOR FORMAL SUBMITTAL FOR REVIEW & APPROVAL PROCESS BY ENGINEER OF RECORD.
8. ALL INDOOR EQUIPMENT SHALL BE SUPPORTED/INSTALLED IN EXACT ACCORDANCE WITH APPROVED INDOOR EQUIPMENT MANUFACTURER'S REQUIREMENTS.
9. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
10. PROVIDE STARTER & DISCONNECT FOR EQUIPMENT.
11. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
12. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
13. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
14. MC TO HAVE FACTORY-AUTHORIZED VRF SYSTEM MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE & LAY OUT THE EXACT LOCATION(S) OF EACH INDOOR UNIT(S) & MEASURE THE EXACT REFRIGERANT LINE SET PIPING RUNS AND PROVIDE A DETAIL SUBMITTAL BASED ON EXISTING FIELD CONDITIONS FOR FORMAL SUBMITTAL FOR REVIEW & APPROVAL PROCESS BY ENGINEER OF RECORD.
15. MC SHALL PROVIDE SUPPORTS FROM APPROVED OUTDOOR UNIT MANUFACTURER & FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH ME PRESENT.

AC-109, 110, 111, 114, 115 125, 126, 129 to 136, 139 Qty. (16)

Tag No.:

ARNU053TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
5,500 Btu/h Indoor Unit

Performance:

Cooling Capacity (Btu/h)[1]	5,500
Heating Capacity (Btu/h)[1]	6,100
L/M/H Power Input at Factory Default (W)	11 / 12 / 13

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
Rated Amps	0.20

Piping:

Refrigerant	
Liquid Line (in., O.D.)	1/4 Flare
Vapor Line (in., O.D.)	1/2 Flare
Condensate	
Condensate Line (in., I.D.)	1
Factory Installed Pump[2]	Yes

Entering Mixed Air:

Cooling Maximum[1] (°F WB)	76
Heating Minimum (°F DB)	59

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure dB(A) (H/M/L)[3]	29 / 27 / 26
Sound Power dB(A) (H)[4]	46
Standard Filter Type	Washable
Unit Net Weight (lbs.)	29
Unit Shipping Weight (lbs.)	34
Panel Net Weight (lbs.)	7
Panel Shipping Weight (lbs.)	11

Fan:

Type	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Motor Quantity	1
Air Flow Rate H/M/L (CFM)	265 / 247 / 212

Controls Features:
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- Dual thermistor control
- Dual setpoint control
- Timer (on/off)
- Weekly schedule
- Auto direction/ swing (up/down)
- Swirl wind (alternating vanes)
- Fan speed control
- Jet cool (fast cooling)
- Filter life display
- Multiple auxiliary heater applications
- Child lock
- Group control
- High ceiling
- Hot start
- Self diagnostics
- External on/off control
- Wi-Fi compatible
- Auto fan
- Leak detection

Required Accessories:
☒ Panel (24-13/32" x 24-13/32") - PT-QAGW0

Optional Accessories:
☐ Ventilation Flange - PTVK430
☐ Wireless Remote Controller - PWLSSB21H
☐ MultiSITE™ CRC2 Controller - PREMTBVC2
☐ MultiSITE CRC2+ Controller - PREMTBVC3
☐ MultiSITE CRC2+Z Controller - PREMTBVC4
☐ Simple Remote Controller - PREMTC00U
☐ Standard III Remote Controller (White Housing) – PREMTB100
☐ Standard III Remote Controller (Black Housing) – PREMTBB10
☐ Deluxe Remote Controller – PREMTA201
☐ Remote Temperature Button Sensor - ZRTBS01
☐ Simple Dry Contact (1 contact, 24 VAC external power) - PDRYCB100
☐ Dry Contact for Third Party Thermostat[5] - PDRYCB320
☐ Dry Contact for Economizer - PDRYCB400
☐ Auxiliary Heater Kit[5] - PRARH1
☐ Wi-Fi Module - PWFMDD200

Notes:
1. See Engineering Manual for sensible and latent capacities.
2. Maximum lift is 27-9/16 inches from bottom of unit.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. Sound Power levels are tested in a reverberation chamber under ISO Standard 3741.
5. If a Third-Party Dry Contact and an LG internal heater or an LG Auxiliary Heater Kit is installed, supplemental heat capability cannot be controlled by the Third-Party Thermostat.
6. Communication cable between (main) outdoor unit to indoor units / heat recovery units to be 18 AWG, 2-conductor, twisted, stranded, shielded. Ensure the communication cable shield is properly grounded to the (main) outdoor unit chassis only. ⊘ **DO NOT** ground the outdoor unit to indoor units / heat recovery units communication cable at any other point. Wiring must comply with all applicable local and national codes.
7. Power wiring is field provided, and must comply with the applicable local and national codes.
8. This unit comes with a dry nitrogen charge.
9. All capacities are net with a combination ratio between 95 – 105%.
10. Must follow installation instructions in the applicable LG installation manual.

Inverter · 162279

For a complete list of available accessories, contact your LG representative.
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SB_MV_FourWay_Cassette2x2_ARNU053TRD4_2024_02_15_122044

AC-117, 120, 121, Lib Cove A, Lib Cove B Qty. (5)

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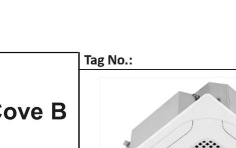

ARNU073TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
7,500 Btu/h Indoor Unit

Performance:

Cooling Capacity (Btu/h)[1]	7,500
Heating Capacity (Btu/h)[1]	8,500
L/M/H Power Input at Factory Default (W)	11 / 12 / 13

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
Rated Amps	0.20

Piping:

Refrigerant	
Liquid Line (in., O.D.)	1/4 Flare
Vapor Line (in., O.D.)	1/2 Flare
Condensate	
Condensate Line (in., I.D.)	1
Factory Installed Pump[2]	Yes

Entering Mixed Air:

Cooling Maximum[1] (°F WB)	76
Heating Minimum (°F DB)	59

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure dB(A) (H/M/L)[3]	29 / 27 / 26
Sound Power dB(A) (H)[4]	46
Standard Filter Type	Washable
Unit Net Weight (lbs.)	29
Unit Shipping Weight (lbs.)	34
Panel Net Weight (lbs.)	7
Panel Shipping Weight (lbs.)	11

Fan:

Type	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Motor Quantity	1
Air Flow Rate H/M/L (CFM)	265 / 247 / 212

Controls Features, Required Accessories (☒ Panel (24-13/32" x 24-13/32") - PT-QAGW0), Optional Accessories and Notes 1–10: as listed for ARNU053TRD4.

SB_MV_FourWay_Cassette2x2_ARNU073TRD4_2024_02_15_122044

AC-118, 156, 164 Qty. (3)

Tag No.:

ARNU093TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
9,600 Btu/h Indoor Unit

Performance:

Cooling Capacity (Btu/h)[1]	9,600
Heating Capacity (Btu/h)[1]	10,900
L/M/H Power Input at Factory Default (W)	12 / 13 / 14

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
Rated Amps	0.20

Piping:

Refrigerant	
Liquid Line (in., O.D.)	1/4 Flare
Vapor Line (in., O.D.)	1/2 Flare
Condensate	
Condensate Line (in., I.D.)	1
Factory Installed Pump[2]	Yes

Entering Mixed Air:

Cooling Maximum[1] (°F WB)	76
Heating Minimum (°F DB)	59

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure dB(A) (H/M/L)[3]	30 / 29 / 27
Sound Power dB(A) (H)[4]	47
Standard Filter Type	Washable
Unit Net Weight (lbs.)	32
Unit Shipping Weight (lbs.)	38
Panel Net Weight (lbs.)	7
Panel Shipping Weight (lbs.)	11

Fan:

Type	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Motor Quantity	1
Air Flow Rate H/M/L (CFM)	283 / 265 / 251

Controls Features, Required Accessories (☒ Panel (24-13/32" x 24-13/32") - PT-QAGW0), Optional Accessories and Notes 1–10: as listed for ARNU053TRD4.

SB_MV_FourWay_Cassette2x2_ARNU093TRD4_2024_02_15_122044

AC-155, 163, 165, 167 Qty. (4)

Tag No.:

ARNU153TQD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
15,400 Btu/h Indoor Unit

Performance:

Cooling Capacity (Btu/h)[1]	15,400
Heating Capacity (Btu/h)[1]	17,100
L/M/H Power Input at Factory Default (W)	18 / 21 / 24

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
Rated Amps	0.20

Piping:

Refrigerant	
Liquid Line (in., O.D.)	1/4 Flare
Vapor Line (in., O.D.)	1/2 Flare
Condensate	
Condensate Line (in., I.D.)	1
Factory Installed Pump[2]	Yes

Entering Mixed Air:

Cooling Maximum[1] (°F WB)	76
Heating Minimum (°F DB)	59

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure dB(A) (H/M/L)[3]	36 / 34 / 32
Sound Power dB(A) (H)[4]	51
Standard Filter Type	Washable
Unit Net Weight (lbs.)	35
Unit Shipping Weight (lbs.)	40
Panel Net Weight (lbs.)	7
Panel Shipping Weight (lbs.)	11

Fan:

Type	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Motor Quantity	1
Air Flow Rate H/M/L (CFM)	388 / 353 / 328

Controls Features, Required Accessories (☒ Panel (24-13/32" x 24-13/32") - PT-QAGW0), Optional Accessories and Notes 1–10: as listed for ARNU053TRD4.

SB_MV_FourWay_Cassette2x2_ARNU153TQD4_2024_02_15_122045

AC-137 Qty. (1)

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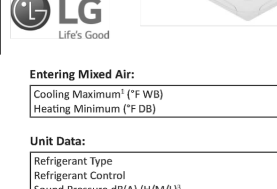

ARNU183TQD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
19,100 Btu/h Indoor Unit

Performance:

Cooling Capacity (Btu/h)[1]	19,100
Heating Capacity (Btu/h)[1]	21,500
L/M/H Power Input at Factory Default (W)	19 / 22 / 25

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
Rated Amps	0.20

Piping:

Refrigerant	
Liquid Line (in., O.D.)	1/4 Flare
Vapor Line (in., O.D.)	1/2 Flare
Condensate	
Condensate Line (in., I.D.)	1
Factory Installed Pump[2]	Yes

Entering Mixed Air:

Cooling Maximum[1] (°F WB)	76
Heating Minimum (°F DB)	59

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure dB(A) (H/M/L)[3]	37 / 35 / 34
Sound Power dB(A) (H)[4]	52
Standard Filter Type	Washable
Unit Net Weight (lbs.)	35
Unit Shipping Weight (lbs.)	40
Panel Net Weight (lbs.)	7
Panel Shipping Weight (lbs.)	11

Fan:

Type	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Motor Quantity	1
Air Flow Rate H/M/L (CFM)	396 / 388 / 353

Controls Features, Required Accessories (☒ Panel (24-13/32" x 24-13/32") - PT-QAGW0), Optional Accessories and Notes 1–10: as listed for ARNU053TRD4.

SB_MV_FourWay_Cassette2x2_ARNU183TQD4_2024_02_15_122045

AC-168 Qty. (1)

Tag #:

ARNU183SKS4
Multi V™ Standard Wall Mounted Unit
19,100 Btu/h Indoor Unit

Performance:

Total Cooling Capacity (Btu/h)[1]	19,100
Heating Capacity (Btu/h)[1]	21,500
Max Power Input (W)[2]	53
H / M / L Power Input at Factory Default (W)	32 / 26 / 16

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Electrical:

Power Supply (V/Hz/Ø)	208-230 / 60 / 1
Rated Amps	0.52

Piping:

Refrigerant	
Liquid Line (in., O.D.)	1/4 Flare
Vapor Line (in., O.D.)	1/2 Flare
Condensate	
Condensate Line (in., I.D.)	1
Factory Installed Pump	No

Controls Features:
- Auto changeover (Heat Recovery only)
- Auto operation
- Auto restart
- Dual thermistor control
- Dual setpoint control
- Multiple auxiliary heater applications
- Timer (on/off)
- Weekly schedule
- Auto direction/ swing (up/down)
- Fan speed control
- Jet cool (fast cooling)
- Filter life display
- Child lock
- Group control
- Hot start
- Self diagnostics
- External on/off control
- Wi-Fi (built-in)
- Auto Fan
- Leak Detection

Optional Accessories:
☐ Wireless Remote Controller - PWLSSB21H
☐ MultiSITE™ CRC2 Controller - PREMTBVC2
☐ MultiSITE™ CRC2+ Controller - PREMTBVC3
☐ MultiSITE™ CRC2+Z Controller - PREMTBVC4
☐ Simple Remote Controller - PREMTC00U
☐ Standard III Remote Controller – PREMTB100
☐ Standard III Remote Controller – PREMTBB10
☐ Remote Temperature Button Sensor - ZRTBS01
☐ Simple Dry Contact (1 contact, 24 VAC external power) - PDRYCB100
☐ Dry Contact for Third Party Thermostat - PDRYCB320
☐ Dry Contact for Economizer - PDRYCB400
☐ Auxiliary Heater Kit - PRARS1

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure dB(A) (H / M / L)[3]	43 / 39 / 34
Primary Filter Type	Washable
Unit Net Weight (lbs.)	28.7
Unit Shipping Weight (lbs.)	31.7

Fan:

Type	Cross Flow
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Motor Quantity	1
Air Flow Rate H / M / L (CFM)	494 / 424 / 371

Notes:
1. See Engineering Manual for sensible and latent capacities.
2. Max. power input is rated at maximum setting value.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. All communication cable must be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national codes. Ensure the communication cable is properly grounded at the main outdoor unit only. Do not ground the communication cable to outdoor units / heat recovery units communication cable at any other point. Wiring must comply with all applicable local and national codes.
5. Power wiring is field provided and must comply with the applicable local and national codes.
6. This unit comes with a dry nitrogen charge.
7. All capacities are net with a combination ratio between 95 – 105%.
8. Must follow installation instructions in the applicable LG installation manual.

For a complete list of available accessories, contact your LG representative.
For continual product development, LG reserves the right to change specifications without notice.
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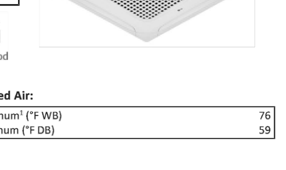
SB_MultiV_Standard_Wall_Mounted_ARNU183SKS4_2023_02_27_100736

AC-141 Qty. (1)

Tag No.:



ARNU123TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
12,300 Btu/h Indoor Unit

Performance:

Cooling Capacity (Btu/h)[1]	12,300
Heating Capacity (Btu/h)[1]	13,600
L/M/H Power Input at Factory Default (W)	13 / 15 / 17

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
Rated Amps	0.20

Piping:

Refrigerant	
Liquid Line (in., O.D.)	1/4 Flare
Vapor Line (in., O.D.)	1/2 Flare
Condensate	
Condensate Line (in., I.D.)	1
Factory Installed Pump[2]	Yes

Entering Mixed Air:

Cooling Maximum[1] (°F WB)	76
Heating Minimum (°F DB)	59

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure dB(A) (H/M/L)[3]	32 / 30 / 27
Sound Power dB(A) (H)[4]	48
Standard Filter Type	Washable
Unit Net Weight (lbs.)	32
Unit Shipping Weight (lbs.)	38
Panel Net Weight (lbs.)	7
Panel Shipping Weight (lbs.)	11

Fan:

Type	Turbo
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Motor Quantity	1
Air Flow Rate H/M/L (CFM)	307 / 283 / 247

Controls Features, Required Accessories (☒ Panel (24-13/32" x 24-13/32") - PT-QAGW0), Optional Accessories and Notes 1–10: as listed for ARNU053TRD4.

SB_MV_FourWay_Cassette2x2_ARNU123TRD4_2024_02_15_122045

VRF INDOOR TERMINAL UNITS (LG AS BASIS OF DESIGN)

NOTE:

INDOOR UNIT VRF SYSTEM SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. MC TO HAVE FACTORY-AUTHORIZED VRF SYSTEM MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE & LAY OUT THE EXACT LOCATION(S) OF EACH INDOOR UNIT(S) & MEASURE THE EXACT REFRIGERANT LINE SET PIPING RUNS AND PROVIDE A DETAIL SUBMITTAL BASED ON EXISTING FIELD CONDITIONS FOR FORMAL SUBMITTAL FOR REVIEW & APPROVAL PROCESS BY ENGINEER OF RECORD.
8. ALL INDOOR EQUIPMENT SHALL BE SUPPORTED/INSTALLED IN EXACT ACCORDANCE WITH APPROVED INDOOR EQUIPMENT MANUFACTURER'S REQUIREMENTS.

OUTDOOR UNIT VRF SYSTEM SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. MC TO HAVE FACTORY-AUTHORIZED VRF SYSTEM MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE & LAY OUT THE EXACT LOCATION(S) OF EACH INDOOR UNIT(S) & MEASURE THE EXACT REFRIGERANT LINE SET PIPING RUNS AND PROVIDE A DETAIL SUBMITTAL BASED ON EXISTING FIELD CONDITIONS FOR FORMAL SUBMITTAL FOR REVIEW & APPROVAL PROCESS BY ENGINEER OF RECORD.
7. MC SHALL PROVIDE SUPPORTS FROM APPROVED OUTDOOR UNIT MANUFACTURER & FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH ME PRESENT.

REV.	DATE	ITEM

NOTICE
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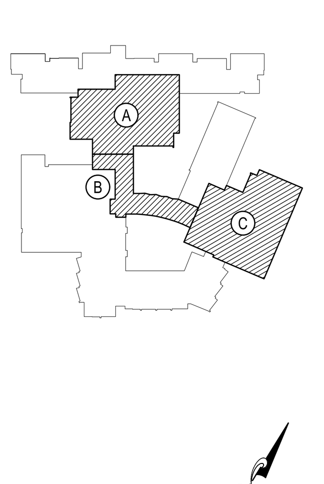

KEY PLAN
NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: VRF SYSTEMS, EQUIPMENT CUTSHEETS

DRAWING BY: GWT
CHECK BY: - - -

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	VRF SYSTEMS, PIPING SCHEMATICS, SCHEDULES AND DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

M6.12

FIRE STOP NOTES

1. ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED BY PLUMBING CONTRACTOR.
2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS SUITABLE.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED.
4. FIRESTOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS.

NEW WORK SCOPE NOTES

1. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIXTURES AS SHOWN IN PLUMBING FIXTURE SCHEDULE ON DRAWING #P6.01.
2. INSTALL NEW PIPING WITH CONNECTIONS TO EXISTING MAIN PIPING TO EACH NEW FIXTURE.
3. CONNECT VENT PIPING TO EXISTING VENTS.
4. SEE GENERAL NOTES AND PLUMBING SPECIFICATIONS DIVISION 22 FOR MORE DETAIL.
5. DEMOLITION AND RECONSTRUCTION OF PLUMBING WALLS BY PLUMBING CONTRACTOR.
6. IN ALL INSTANCES WHERE NEW FIXTURES ARE PROPOSED THE PLUMBING CONTRACTOR SHALL PERFORM ALL DEMOLITION REQUIRED FOR REMOVAL OF EXISTING FIXTURE CARRIERS AND INSTALL NEW FIXTURE CARRIERS. PLUMBING CONTRACTOR SHALL THEN BUILD/PATCH MASONRY WALLS AS REQUIRED INCLUDING NEW TILE FINISHES. UPON COMPLETION OF MASONRY/TILE THE PLUMBING CONTRACTOR SHALL INSTALL NEW FIXTURES PER SPECIFICATIONS

UTILITY NOTES

1. PIPING LOCATIONS ARE SCHEMATIC AND EACH TRADE SHALL RUN PIPING IN ORDER TO USE THE LEAST AMOUNT OF MATERIAL.
2. PLUMBING CONTRACTOR SHALL PROVIDE VENT PIPING FOR ALL PLUMBING FIXTURES AS PER CODE.
3. PLUMBING NOTE: PIPING SIZES SEE SCHEDULE THIS SHEET.
4. P.C. TO VERIFY SIZE OF SERVICE REQUIRED, SIZE AND EXACT LOCATION OF CONNECTIONS TO EACH PIECE OF FIXTURE AND/OR APPLIANCE.

EPA 67.4 NOTE

1. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NEW AND/OR REPLACEMENT PLUMBING FIXTURES. THE RESPECTIVE FIXTURES MUST ADHERE TO THE "LEAD-FREE" DIVISION 22 SPECIFICATIONS OUTLINING THE INSTALLATION MEANS AND METHODS AS WELL AS THE FIXTURE ITSELF BEING "LEAD FREE." THE CONTRACTOR SHALL PROVIDE THE REQUIRED SUBMITTALS FOR ALL FIXTURES AND BUILDING MATERIALS PRIOR TO THE FIXTURE INSTALLATION, AND CONFIRM ON THE JOBSITE THAT THE FIXTURE ADHERES TO "LEAD-FREE" REGULATIONS.
   a. FOLLOWING THE POTABLE FIXTURE INSTALLATION; THE P.C. SHALL REMOVE ALL FILTERS AND STRAINERS AND FLUSH THE FIXTURE OF DEBRIS FROM THE SYSTEM.
2. FOLLOWING THE COMPLETION OF THE P.C. WORK SCOPE, THE OWNER SHALL HAVE THE WATER CONDITIONS TESTED FOR LEAD CONTAMINANTS BY A THIRD-PARTY TESTING FIRM TO REGULATION 67.4 OF THE DEPARTMENT OF HEALTH REGULATIONS AS PART OF SECTION 1417 OF THE FEDERAL SAFE WATER ACT TO DETERMINE THEM AS "LEAD-FREE" COMPLIANT.
3. IF A FIXTURE DOES NOT COMPLY WITH SUB-PART REGULATION 67.4 OF THE DOH SECTION 1417 OF THE FEDERAL SAFE WATER ACT, THE P.C. SHALL PROVIDE A REPLACEMENT FIXTURE AT NO ADDITIONAL COST, TO THEN REPEAT THE INSTALLATION AND TESTING REQUIREMENTS. THE P.C. SHALL ABSORB THE FEE FOR THE FIRST LEAD TESTING PROCEDURE AS WELL AS THE FOLLOWING CONFIRMATION PROCEDURES AT NO ADDITIONAL COST TO THE OWNER.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING DOMESTIC COLD WATER PIPING
	EXISTING DOMESTIC HOT WATER PIPING
	EXISTING DOMESTIC HOT WATER RETURN PIPING
SW	EXISTING SANITARY WASTE PIPING
	NEW DOMESTIC COLD WATER PIPING
	NEW DOMESTIC HOT WATER PIPING
	NEW DOMESTIC HOT WATER RETURN PIPING
SW	NEW SANITARY WASTE PPIPING
	NEW VENT PIPING
	EXISTING VENT PIPING
CODP	DENOTES CLEAN OUT DECK PLATE
E.CODP	DENOTES EXISTING OUT DECK PLATE
	NEW BALL VALVE IN PIPING
	NEW HAMMER ARRESTOR IN PIPING
	CONNECTION POINT OF NEW WORK TO BE DONE.
X X	DEMOLITION WORK TO BE DONE
W.	WASTE PIPING
V.	VENT PIPING
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RE-CIRCULATION PIPING
CWS	COLD WATER SUPPLY PIPING
RECIRC.	RECIRCULATION

GENERAL CONSTRUCTION NOTES

1. PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID AND PERFORM ALL INVESTIGATION WORK BEFORE SUBMITTING A BID ON THE PLUMBING WORK.
2. CONNECT ALL HOT WATER, COLD WATER, VENT, AND WASTE PIPING AS REQUIRED INCLUDING PIPING, VALVES, TAPS, ESCUTCHEONS, SLEEVES, ACCESS DOORS, CLEANOUTS, PIPE HANGERS, INSULATION, ETC.
3. PROVIDE AND INSTALL PLUMBING FIXTURES INCLUDING ALL CUTTING AND PATCHING AS REQUIRED INCLUDING WASTE, VENT, AND WATER SUPPLY CONNECTIONS AND FITTINGS (ALL TRAPS TO HAVE CLEANOUTS).
4. ALL WORK SHALL BE IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING RELATED FEES.
5. PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO CONSTRUCTION.
6. INTERIOR DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER. UNDERGROUND DOMESTIC WATER PIPING SHALL BE TYPE "K" COPPER FOR UP TO 2" AND DUCTILE IRON OVER 2". WASTE PIPING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE, HUB AND SPIGOT UNDERGROUND, AND NO HUB INSIDE BUILDING. STORM DRAIN PIPING SHALL BE NO HUB CAST IRON SOIL PIPE INSIDE BUILDING. VENT PIPING SHALL BE NO HUB CAST IRON.
7. ALL WORK SHALL BE PROPERLY TESTED AND CLEANED. PROVIDE ONE YEAR WARRANTY FROM DATE OF ACCEPTED COMPLETION ON ALL PARTS AND LABOR.
8. ALL EXPOSED METALWORK ON PLUMBING FIXTURES SHALL BE CHROME PLATED.
9. PROVIDE SHUTOFF VALVE ON WATER SUPPLY BRANCH TO EACH INDIVIDUAL FIXTURE IN AN ACCESSIBLE LOCATION.
10. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
11. WHERE DISSIMILAR METALS ARE CONNECTED, PROVIDE AN APPROVED MAKE OF NON-GALVANIC ISOLATOR, DIELECTRIC UNION OR FLANGES.
12. PROVIDE AND INSTALL BOLT CAPS ON ALL TOILETS.
13. RUN LOCAL HORIZONTAL DRAINAGE PIPING AT A GRADE OF 1/4-INCH PER FOOT WHEREVER POSSIBLE, BUT NO LESS THAN 1/8-INCH PER FOOT; HOUSE DRAINS AT 1/8-INCH PER FOOT UNLESS OTHERWISE NOTED AND OUTSIDE UNDERGROUND DRAINAGE PIPING AS INDICATED OR REQUIRED BY CODE.
14. RUN VENT PIPING WITH LONG TURN ELBOWS AT CHANGES IN DIRECTION, GRADE TO DRAIN OUT CONDENSATION, AND CONNECT AT BASE TO PREVENT ACCUMULATION OF RUST.
15. PROVIDE CLEANOUTS (FULL SIZE UP TO 4-INCHES AND AT LEAST HALF-SIZE FOR LARGER PIPES WITH 4-INCH MINIMUM), WHERE INDICATED, APPROXIMATELY EVERY 50 FEET ON HORIZONTAL DRAINAGE PIPING, AT CHANGES IN DIRECTION, AT BASE OF LEADERS, SOIL, AND WASTE STACKS, AND AS REQUIRED BY CODE.
16. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORE DRILLING THRU WALLS, FLOORS AND CUTTING AND PATCHING AS REQUIRED TO FACILITATE INSTALLATION OF PIPES AND PLUMBING FIXTURES.
17. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL NEW VENTS FROM FIXTURES UP TO ROOF AS SHOWN.
18. ALL FLOOR TRAPS SHALL BE INSTALLED WITH PRIMER TAPPING FOR WATER CONNECTION TO TRAP.
19. P.C. SHALL PROVIDE AND INSTALL PIPE INSULATION ON ALL DOMESTIC COLD WATER SUPPLY, HOT WATER SUPPLY, HOT WATER SUPPLY (RE-CIRCULATION LINE) AND ROOF DRAIN PIPING THAT IS EXPOSED ABOVE CEILINGS OR IN CRAWL SPACE AND PIPE CHASES.

EXISTING PIPING FIELD VERIFICATION NOTES

PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE IN THEIR PROPOSAL, EXISTING FIELD VERIFICATION OF ALL EXISTING PLUMBING INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. COLD WATER LINES
2. HOT WATER SUPPLY LINES
3. HOT WATER RE-CIRCULATION LINES
4. SANITARY WASTE LINES
5. VENT LINES

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

GENERAL NOTES, LEGENDS, ETC.

DRAWING BY: - - -

CHECK BY: - - -

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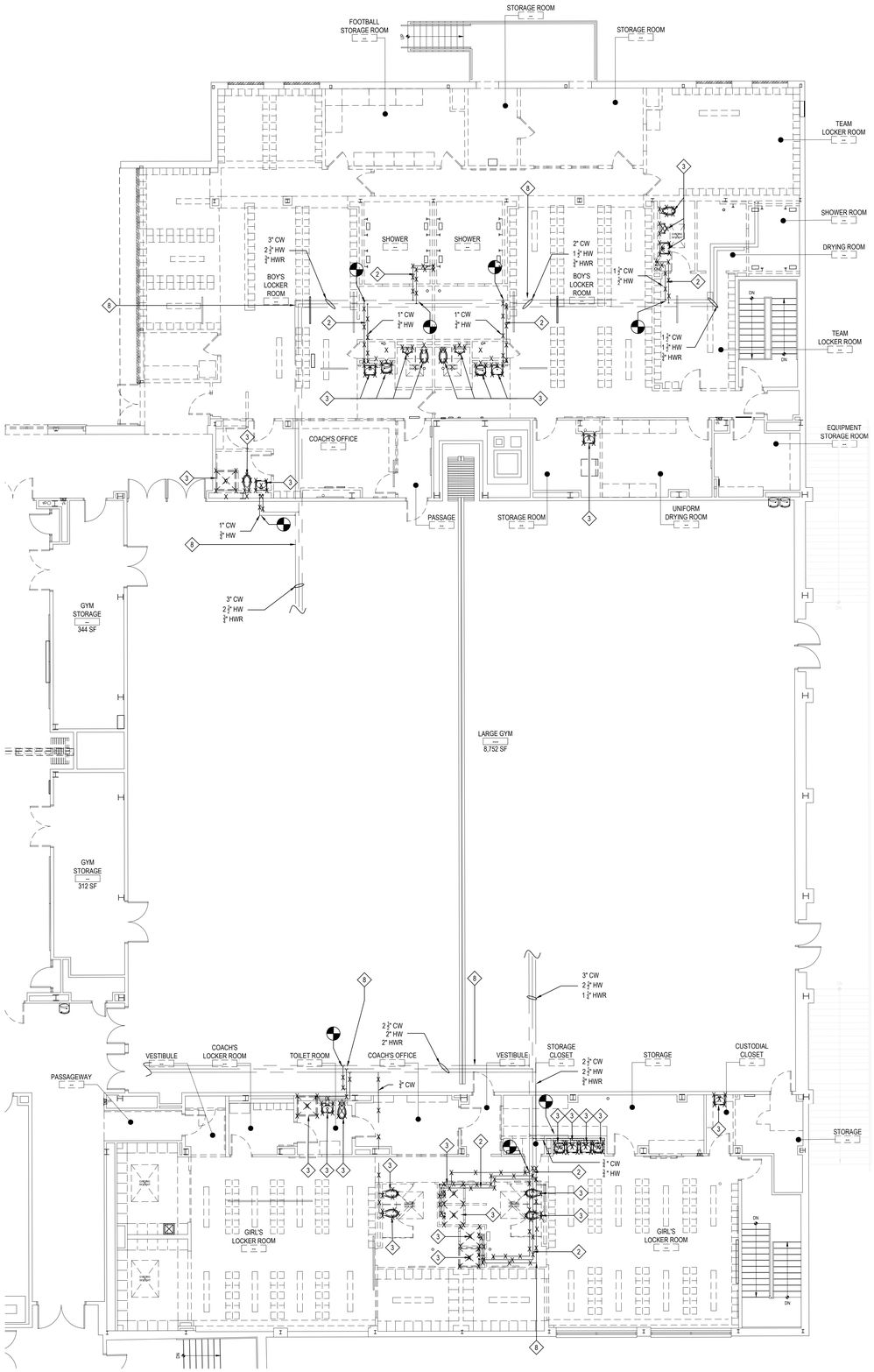
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	GENERAL NOTES, LEGENDS, ETC.
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

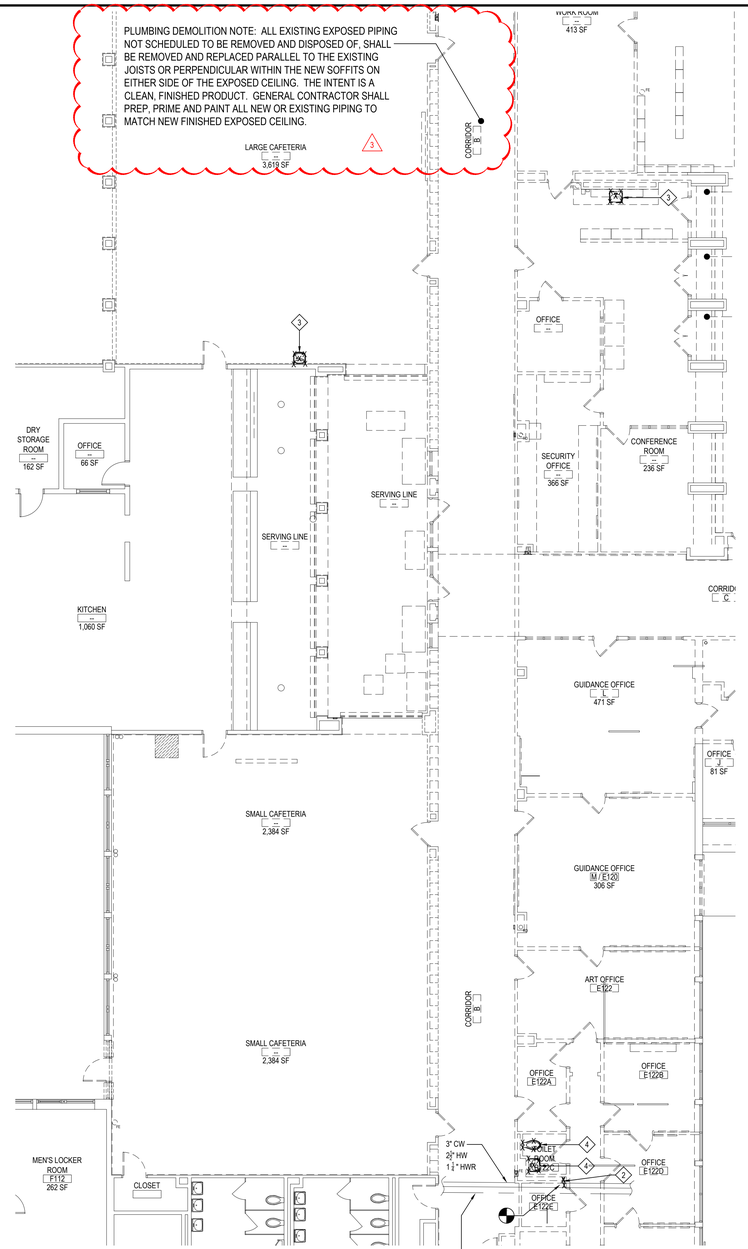
P0.01



LOCKER ROOM PLUMING DEMOLITION PLAN

NOTE:

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



SERVING LINE/CAFETERIA PLUMBING PROPOSED PLAN

NOTE:

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

DEMOLITION KEY NOTES

1. NA
2. PC TO DEMOLISH AND REMOVE EXISTING HWS, HWR, CWS DOMESTIC WATER PIPING TO THE EXTENTS SHOWN. PC TO CAP WATER LINES IN CEILING
3. PC TO REMOVE EXISTING PLUMBING FIXTURES, HANGERS, ACCESSORIES AS SHOWN. PC TO REMOVE ALL PIPING TO FIXTURES & CAP IN BASEMENT BELOW, PIPE SIZE AS NOTED ON PLAN
4. PC TO REMOVE EXISTING PLUMBING FIXTURES, HANGERS, ACCESSORIES AS SHOWN. PC TO REMOVE ALL PIPING TO FIXTURES & CAP BELOW IN PIPE TUNNEL, PIPE SIZE AS NOTED ON PLAN
5. PC TO DEMO AND REMOVE EXISTING STORM WATER LINE TO EXTENTS SHOWN, PC PIPE SIZE AS NOTED ON PLAN
6. PC TO DEMO AND REMOVE EXISTING VENT LINE TO EXTENTS SHOWN,PIPE SIZE AS NOTED ON PLAN
7. CW/HW/HWR AND SANITARY WASTE PIPING LOCATED IN PIPE TUNNEL BELOW,PIPE SIZE AS NOTED ON PLAN
8. CW/HW/HWR AND SANITARY WASTE PIPING LOCATED IN BASEMENT BELOW,PIPE SIZE AS NOTED ON PLAN

GENERAL NOTE:

WHERE APPLICABLE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL EXISTING SLAB SAWCUT, CHOP OUT CONCRETE, EXCAVATION, SUBSLAB PIPING, BACKFILL WITH 3/8" PEA GRAVEL, NEW CONCRETE SLAB PATCH AS REQUIRED FOR SUBSLAB WORK.

REV.	DATE	ITEM
03	03/12/25	BID ADD. NO. 03

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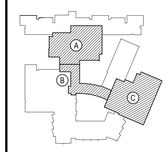

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DOMESTIC WATER DEMOLITION PLAN

DRAWING BY: GT

CHECK BY: UF

NOTICE

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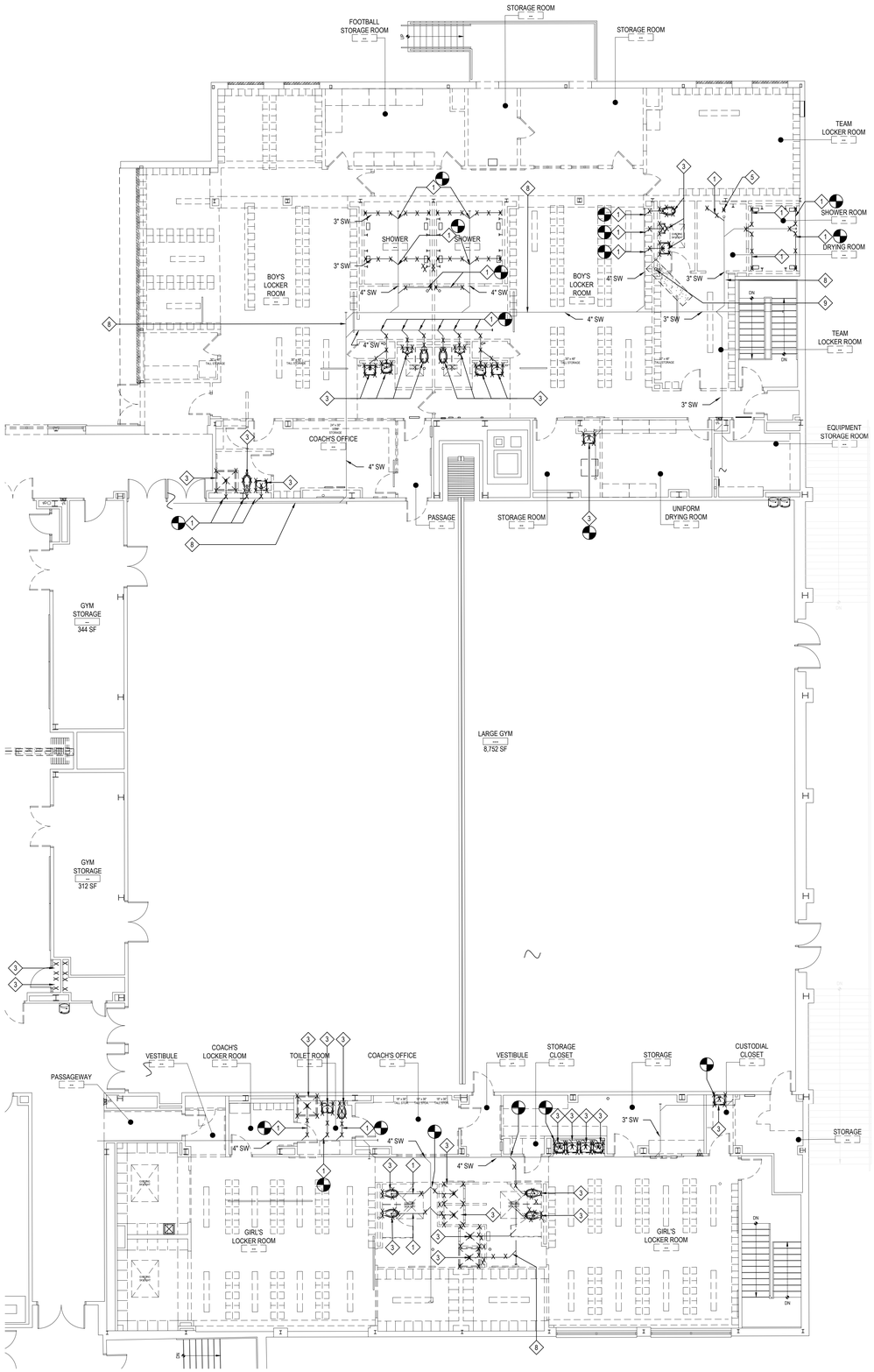
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DOMESTIC WATER DEMOLITION PLAN
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

P1.01

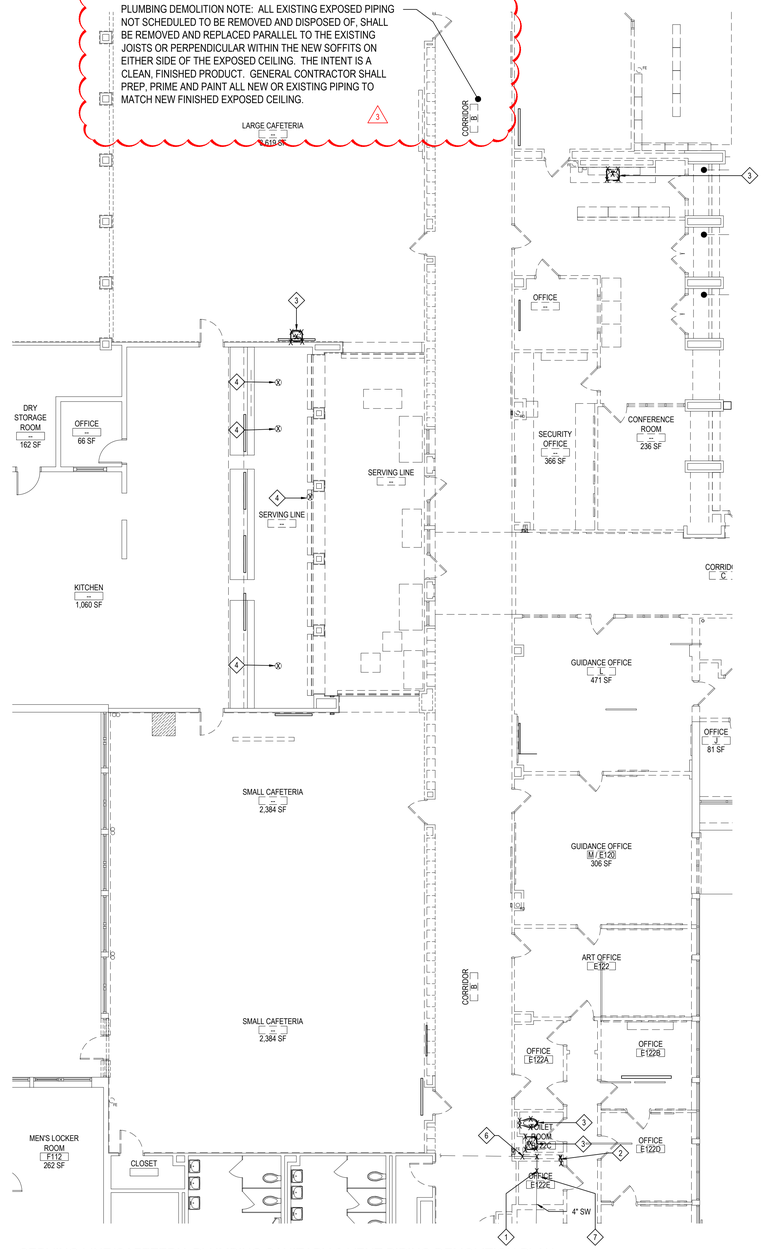


LOCKER ROOM PLUMING SANITARY & VENT PIPING DEMOLITION PLAN

NOTE:

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

PLUMBING DEMOLITION NOTE: ALL EXISTING EXPOSED PIPING NOT SCHEDULED TO BE REMOVED AND DISPOSED OF, SHALL BE REMOVED AND REPLACED PARALLEL TO THE EXISTING JOISTS OR PERPENDICULAR WITHIN THE NEW SOFFITS ON EITHER SIDE OF THE EXPOSED CEILING. THE INTENT IS A CLEAN, FINISHED PRODUCT. GENERAL CONTRACTOR SHALL PREP, PRIME AND PAINT ALL NEW OR EXISTING PIPING TO MATCH NEW FINISHED EXPOSED CEILING.



SERVING LINE/CAFETERIA PLUMBING SANITARY & VENT PIPING DEMOLITION PLAN

NOTE:

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

DEMOLITION KEY NOTES

1. PC TO DEMOLISH AND REMOVE EXISTING SANITARY WASTE LINES TO EXTENTS SHOWN. PC TO CAP EXISTING SANITARY LINE AT THE MAIN. PC TO VERIFY EXACT LOCATION IN FIELD PRIOR TO START OF WORK ,PIPE SIZE AS NOTED ON PLAN
2. PC TO REMOVE EXISTING PLUMBING FIXTURES, HANGERS, ACCESSORIES AS SHOWN. PC TO LEAVE STUB UPS AT LOCATION FOR FUTURE CONNECTION IN NEW WORK PHASE. PC TO REFER TO P2.02 FOR NEW PHASE
3. PC TO REMOVE EXISTING PLUMBING FIXTURES, HANGERS, ACCESSORIES AS SHOWN. PC TO REMOVE ALL PIPING TO FIXTURES AND CAP AT ENDS IN SPACE BELOW
4. PC TO REMOVE EXISTING FLOOR DRAINS AS SHOWN, OPENING TO BE MAINTAINED FOR NEW FLOOR DRAIN IN NEW WORK PLAN.
5. PC TO DEMO AND REMOVE EXISTING STORM WATER LINE TO EXTENTS SHOWN.
6. PC TO DEMO AND REMOVE EXISTING VENT LINE TO EXTENTS SHOWN.
7. EXISTING SANITARY WASTE PIPING LOCATED IN PIPE TUNNEL BELOW, SIZE AS NOTED ON PLAN.PC RESPONSIBLE FOR ANY AND ALL EXCAVATION OF PIPING. PC TO VERIFY EXACT LOCATION IN FIELD PRIOR TO START OF WORK ,PIPE SIZE AS NOTED ON PLAN
8. EXISTING SANITARY WASTE PIPING LOCATED IN CEILING OF BASEMENT BELOW, SIZE AS NOTED ON PLAN
9. EXISTING STORM WATER PIPE TO BE DIVERTED, SEE P2.02 FOR ADDITIONAL INFORMATION

GENERAL NOTE:

WHERE APPLICABLE,PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL EXISTING SLAB SAWCUT, CHOP OUT CONCRETE, EXCAVATION, SUBSLAB PIPING, BACKFILL WITH 3/8" PEA GRAVEL, NEW CONCRETE SLAB PATCH AS REQUIRED FOR SUBSLAB WORK.

REV.	DATE	ITEM
03	03/12/25	BID ADD. NO. 03

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

SANITARY WASTE, VENT, & STORM WATER DEMOLITION PLAN

DRAWING BY: GT

CHECK BY: UF

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DWG TITLE	SAN WASTE, VENT, & STORM DEMOLITION PLAN
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BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

P1.02

GENERAL NOTE:

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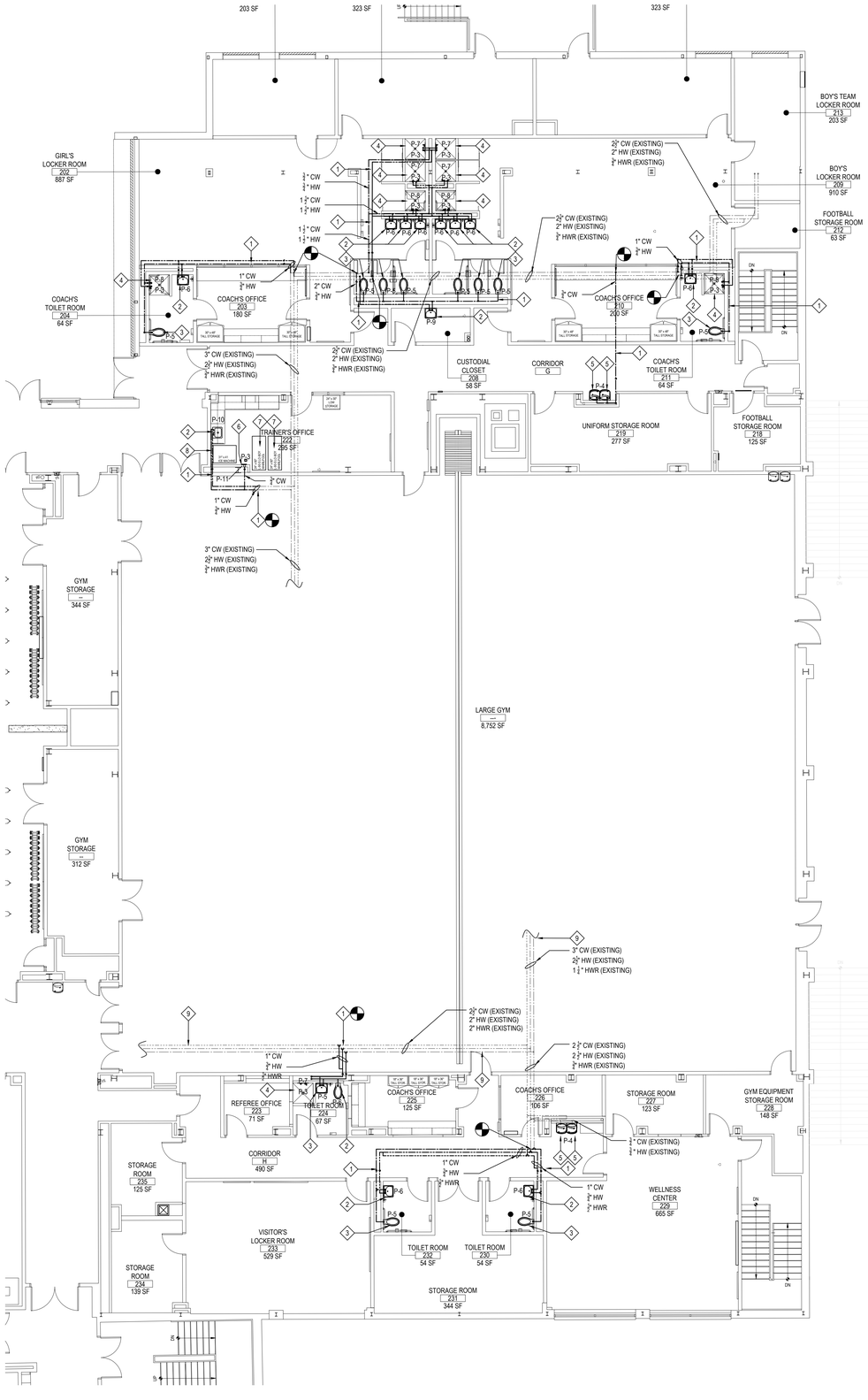
PROPOSED KEY NOTES

1. PC TO INSTALL NEW HW/CW/HWR PIPING AS SHOWN, PC TO FURNISH WITH ISOLATION VALVE INSTALLED IN AN ACCESSIBLE LOCATION WITHIN THE CEILING.
2. PC TO PROVIDE AND INSTALL NEW LAVATORIES IN LOCATIONS SHOWN. PC TO REFER TO ARCH SET FOR FIXTURE MOUNTING HEIGHTS. PIPE SIZE TO FIXTURE AS PER SCHEDULE ON P6.01. COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR ADDITIONAL INFORMATION.
3. PC TO PROVIDE AND INSTALL NEW WATER CLOSETS IN LOCATIONS SHOWN. PC TO REFER TO ARCH SET FOR FIXTURE MOUNTING HEIGHTS. PIPE SIZE TO FIXTURE AS PER SCHEDULE ON P6.01. COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR ADDITIONAL INFORMATION.
4. PC TO PROVIDE AND INSTALL NEW SHOWER BODIES IN LOCATIONS SHOWN.PIPE SIZE TO FIXTURE AS PER SCHEDULE ON P6.01. COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR ADDITIONAL INFORMATION.
5. PC TO PROVIDE AND INSTALL NEW BI-LEVEL WATER FOUNTAIN IN LOCATIONS SHOWN. PIPE SIZE TO FIXTURE AS PER SCHEDULE ON P6.01. COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR ADDITIONAL INFORMATION.
6. PC TO PROVIDE AND INSTALL NEW WALL HYDRANT IN LOCATION SHOWN, PC TO REFER TO ARCH SET FOR FIXTURE MOUNTING HEIGHTS. PIPE SIZE TO FIXTURE AS PER SCHEDULE ON P6.01. COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR ADDITIONAL INFORMATION.
7. DISTRICT TO PROVIDE NEW WHIRLPOOL. PC TO INSTALL, FURNISH WITH AN ISOLATION VALVE AT THE TERMINATION POINT TO THE WHIRLPOOL AND PROVIDE ALL NECESSARY CONNECTIONS. REFER TO ARCHITECTURAL SET FOR FURTHER INFO, PC TO COORDINATE WITH GC FOR FINAL LOCATION.
8. DISTRICT TO PROVIDE NEW ICEMAKER. PC TO INSTALL, FURNISH WITH AN ISOLATION VALVE AT THE TERMINATION POINT TO THE ICE MAKER, AND PROVIDE ALL NECESSARY CONNECTIONS, . COORDINATE WITH GC FOR FINAL LOCATION.
9. EXISTING PIPING LOCATED IN CRAWLSPACE/ CEILING OF SPACE BELOW
10. PC TO EXTEND AND RELOCATE EXISTING FIRE SPRINKLER HEADS FROM EXISTING CEILING HEIGHT TO NEW LOWER FLOATING CEILING. PC TO REFER TO ARCHITECTURAL DRAWINGS A10.01 AND A10.02 FOR FURTHER INFORMATION

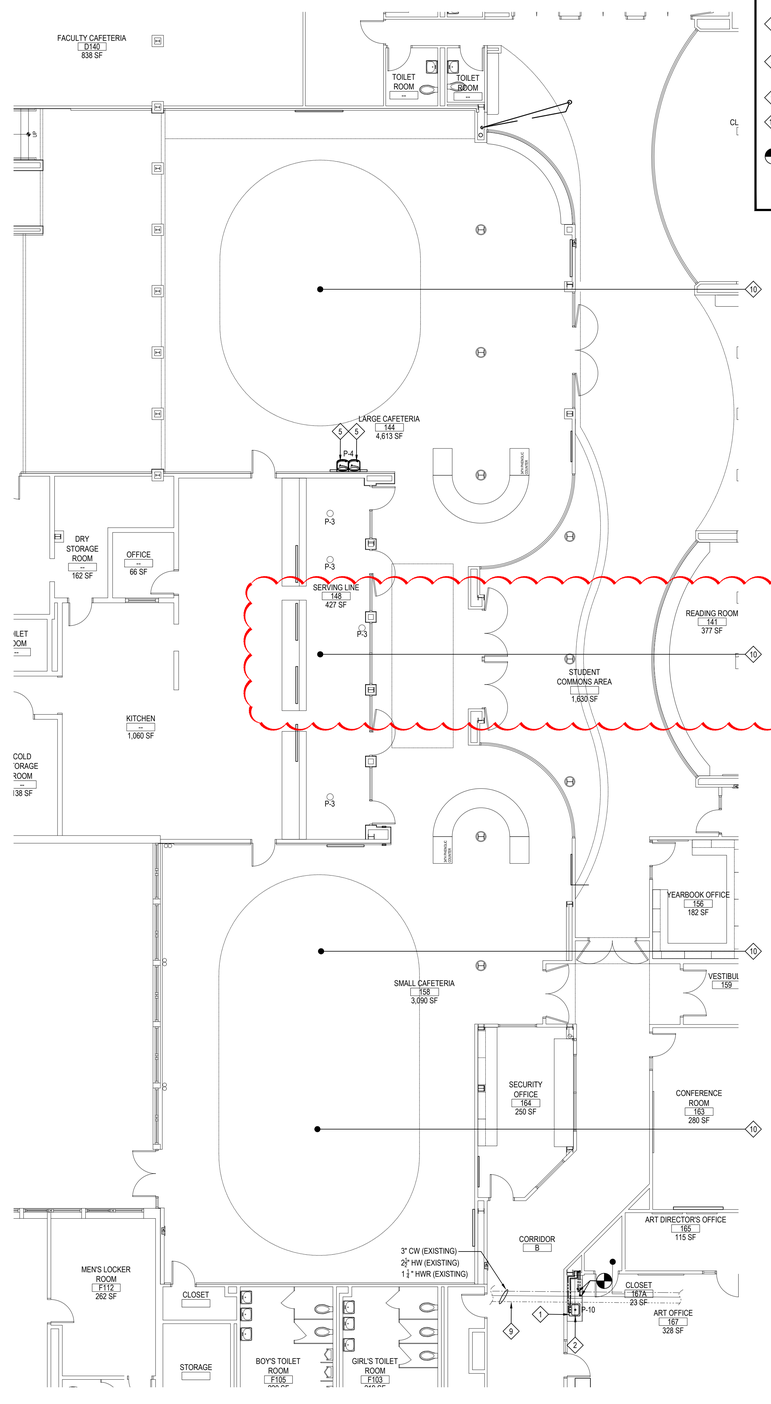
CONNECTION BETWEEN NEW AND EXISTING.



LOCKER ROOM DOMESTIC WATER PROPOSED PLUMING PLAN

NOTE:

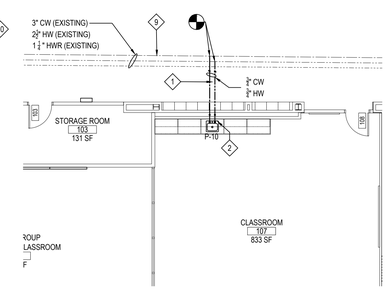
SCALE: 1/8" = 1'-0"



SERVING LINE/CAFETERIA DOMESTIC WATER PROPOSED PLUMBING PLAN

NOTE:

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



ROOM 107 DOMESTIC WATER PROPOSED PLUMBING PLAN

NOTE:

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

REV.	DATE	ITEM
03	03/12/25	BID ADD. NO. 03

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED
DOMESTIC WATER PIPING PLANS

DRAWING BY: GT

CHECK BY: UF

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SED No.	66-01-02-06-0-003-024
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PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED DOMESTIC WATER PIPING PLANS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

P2.01

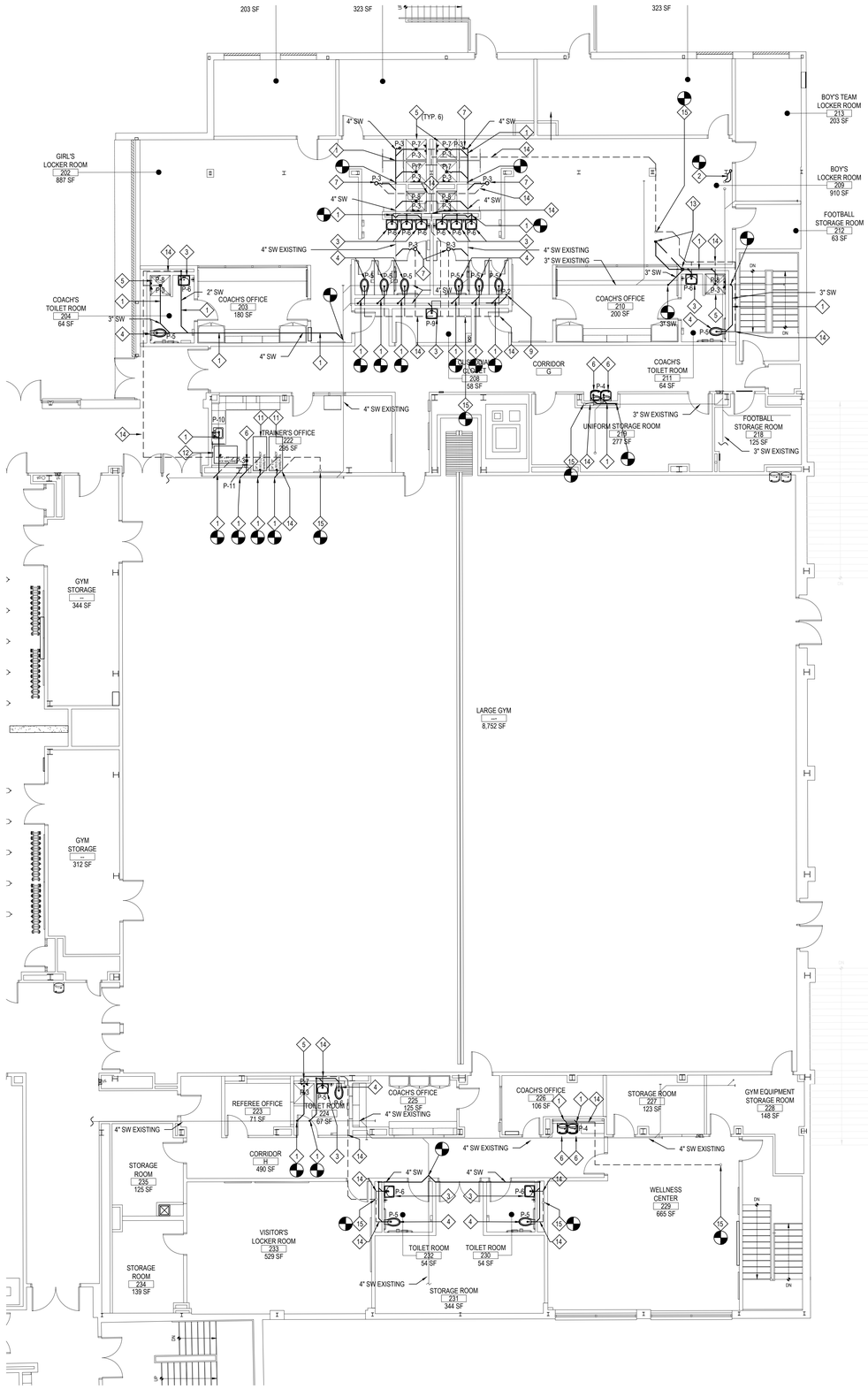
GENERAL NOTE:

WHERE APPLICABLE, PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL EXISTING SLAB SAWCUT, CHOP OUT CONCRETE, EXCAVATION, SUBSLAB PIPING, BACKFILL WITH 3/8" PEA GRAVEL, NEW CONCRETE SLAB PATCH AS REQUIRED FOR SUBSLAB WORK.

PROPOSED KEY NOTES

1. PC TO INSTALL NEW SEWER PIPING AS SHOWN. PIPING TO BE PITCHED ¼" PER FOOT. CONNECT TO EXISTING SANITARY LINE IN CEILING OF FLOOR BELOW
2. PC TO INSTALL NEW 4" STORM WATER LINE AS SHOWN. PIPING TO BE PITCHED ¼" PER FOOT. DIVERT LINE IN CEILING ABOVE AND CONNECT TO EXISTING LINE IN THE BASEMENT.
3. PC TO PROVIDE AND INSTALL NEW LAVATORIES IN LOCATIONS SHOWN. PC TO REFER TO ARCH SET FOR FIXTURE MOUNTING HEIGHTS.COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR MORE INFORMATION.
4. PC TO PROVIDE AND INSTALL NEW WATER CLOSETS IN LOCATIONS SHOWN. PC TO REFER TO ARCH SET FOR FIXTURE MOUNTING HEIGHTS.COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR MORE INFORMATION.
5. PC TO PROVIDE AND INSTALL NEW SHOWER BODIES IN LOCATIONS SHOWN. PC TO REFER TO ARCH SET FOR FIXTURE MOUNTING HEIGHTS.COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR MORE INFORMATION.
6. PC TO PROVIDE AND INSTALL NEW BI-LEVEL WATER FOUNTAIN IN LOCATIONS SHOWN. PC TO REFER TO ARCH SET FOR FIXTURE MOUNTING HEIGHTS.COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR MORE INFORMATION.
7. PC TO PROVIDE AND INSTALL NEW DRAIN BODY IN LOCATIONS SHOWN. COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR MORE INFORMATION.
8. PC TO PROVIDE AND INSTALL NEW FLOOR CLEANOUTS IN LOCATIONS SHOWN. COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR MORE INFORMATION.
9. PC TO PROVIDE AND INSTALL NEW WALL CLEANOUTS IN LOCATIONS SHOWN. COORDINATE WITH GC FOR FINAL LOCATION. SEE DWG P6.01 FOR MORE INFORMATION.
10. PC TO INSTALL NEW VENT LINE AS SHOWN, CONNECT TO EXISTING VENT LINE IN CEILING
11. DISTRICT TO PROVIDE NEW WHIRLPOOL. PC TO INSTALL, FURNISH WITH INDIRECT WASTE LINE AND PROVIDE ALL NECESSARY CONNECTIONS. COORDINATE WITH GC FOR FINAL LOCATION.
12. DISTRICT TO PROVIDE NEW ICE MACHINE. PC TO INSTALL & FURNISH WITH INDIRECT WASTE LINE, AND NEW ICE MAKER FILTER (3M™ HIGH FLOW SERIES MULTI-EQUIPMENT SYSTEM FOR ICE, COFFEE & COLD BEVERAGE APPLICATIONS, MODEL DP190) AND PROVIDE ALL NECESSARY CONNECTIONS. COORDINATE WITH GC FOR FINAL LOCATION.
13. PC TO DIVERT EXISTING 4" STORM WATER PIPING IN CEILING TO NEW CHASE WALL AS SHOWN. PIPING TO DROP DOWN AND RUN BELOW SLAB AND CONNECT BACK TO EXISTING LINE IN FLOOR. PIPING TO BE PITCHED ¼" PER FOOT. PC RESPONSIBLE FOR ANY AND ALL SLAB CUTTING & PATCHING
14. PC TO RUN NEW VENT PIPING FROM FIXTURE(S) & SIZE AS NOTED ON PLUMBING SCHEDULE, PC TO CONNECT TO NEW 3" VENT PIPING IN CEILING & PIPE OVER TO EXISTING 4" VENT THRU ROOF, PC TO PROVIDE AND FURNISH WITH ALL HANGERS AND ACCESSORIES AS NECESSARY FOR INSTALLATION
15. EXISTING 4" VENT PIPE THRU ROOF TO REMAIN, PC TO CONNECT NEW TO EXISTING
16. PC TO FURNISH AND INSTALL NEW AIR ADMITTANCE ON VENT LINE OF HAND SINK
17. PC TO INSTALL NEW SANITARY WASTE PIPING AS SHOWN. PIPING TO BE PITCHED ¼" PER FOOT. IF NECESSARY TO REACH PIPING IN TUNNEL, PC TO SAW CUT SLAB AND PATCH TO MATCH EXISTING FLOOR.

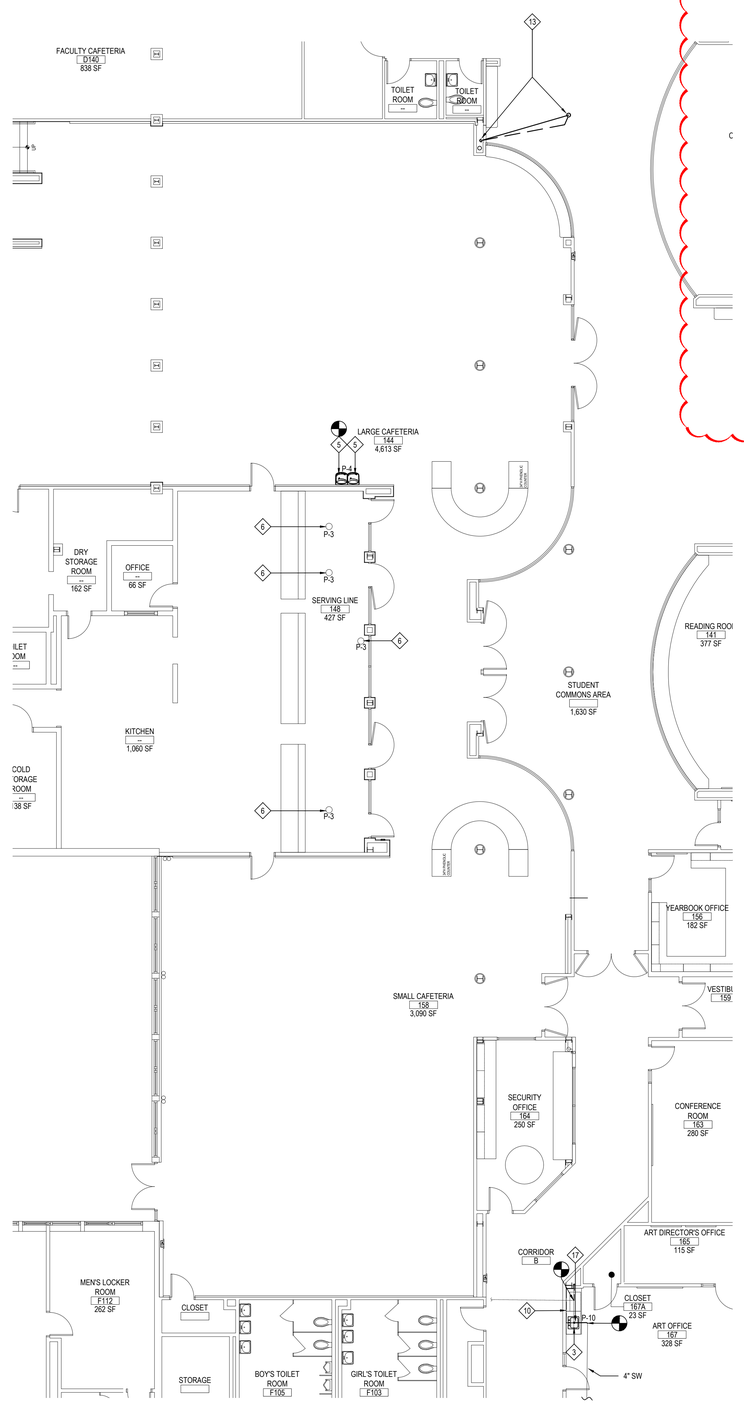
CONNECTION BETWEEN NEW AND EXISTING.



LOCKER ROOM SANITARY WASTE PROPOSED PLUMING PLAN

NOTE:

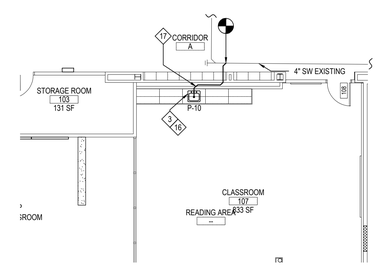
SCALE: 1/8" = 1'-0"



SERVING LINE/CAFETERIA SANITARY WASTE PROPOSED PLUMBING PLAN

NOTE:

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



ROOM 107 DOMESTIC WATER PROPOSED PLUMBING PLAN

NOTE:

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

REV.	DATE	ITEM
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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED
SANITARY, VENT & STORM WATER PLANS

DRAWING BY: GT

CHECK BY: UF

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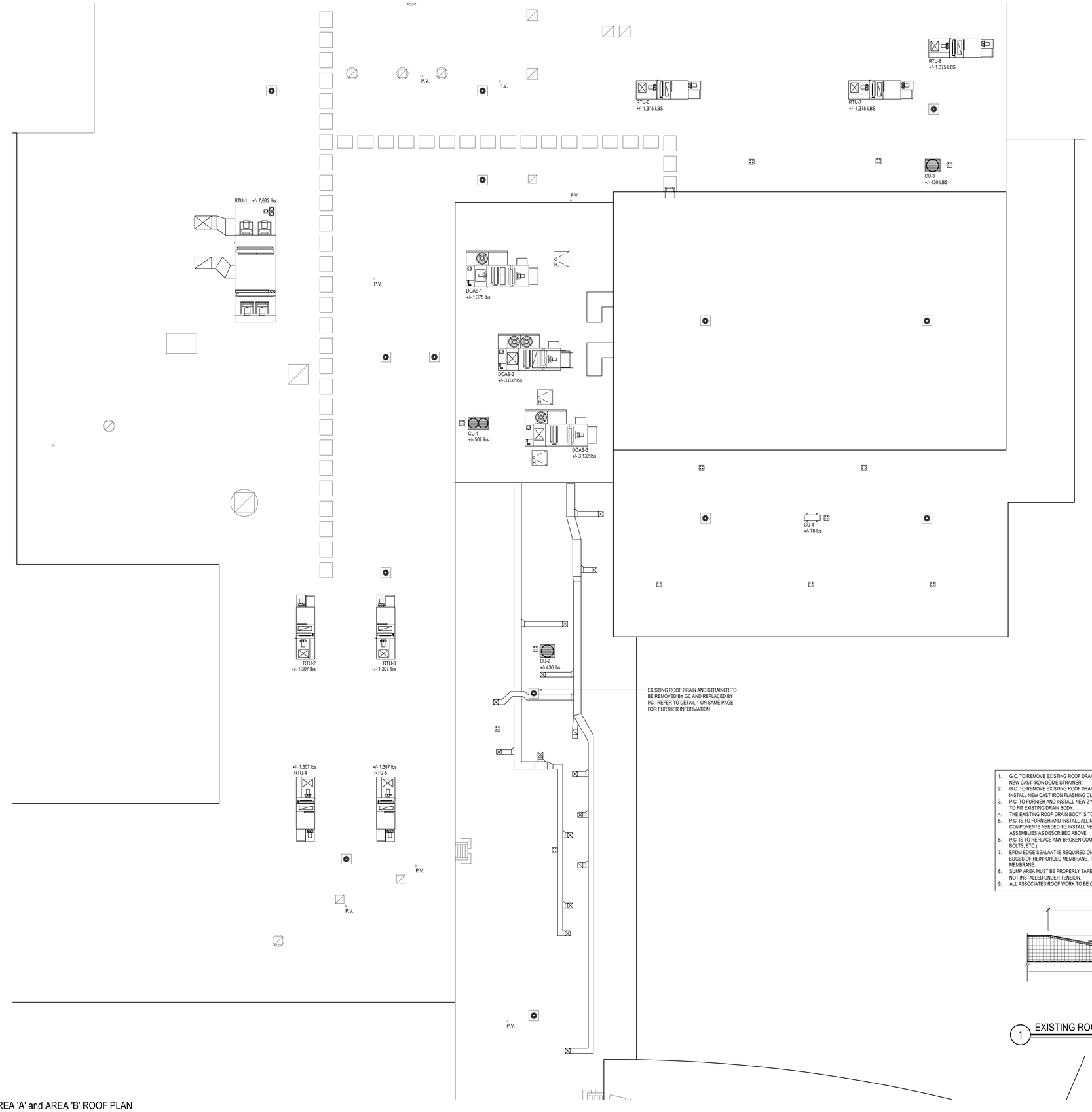
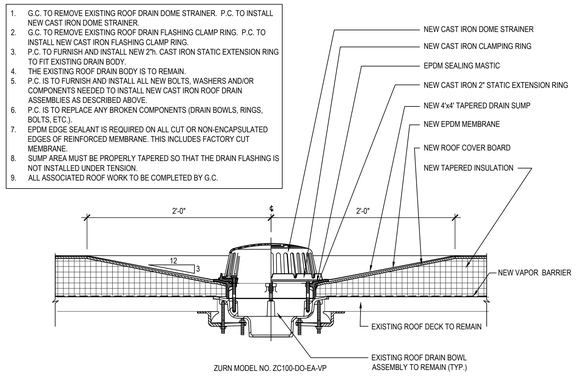
P2.02



AREA 'A' and AREA 'B' ROOF PLAN

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

1. G.C. TO REMOVE EXISTING ROOF DRAIN DOME STRAINER. P.C. TO INSTALL NEW CAST IRON DOME STRAINER.
2. G.C. TO REMOVE EXISTING ROOF DRAIN FLASHING CLAMP RING. P.C. TO INSTALL NEW CAST IRON FLASHING CLAMP RING.
3. P.C. TO FURNISH AND INSTALL NEW 2"h. CAST IRON STATIC EXTENSION RING TO FIT EXISTING DRAIN BODY.
4. THE EXISTING ROOF DRAIN BODY IS TO REMAIN.
5. P.C. IS TO FURNISH AND INSTALL ALL NEW BOLTS, WASHERS AND/OR COMPONENTS NEEDED TO INSTALL NEW CAST IRON ROOF DRAIN ASSEMBLIES AS DESCRIBED ABOVE.
6. P.C. IS TO REPLACE ANY BROKEN COMPONENTS (DRAIN BOWLS, RINGS, BOLTS, ETC.).
7. EPDM EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
8. SUMP AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.
9. ALL ASSOCIATED ROOF WORK TO BE COMPLETED BY G.C.



1 EXISTING ROOF DRAIN DETAIL

SCALE: N.T.S.

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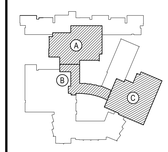

KEY PLAN

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PROJECT

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PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

ROOF DRAIN PLAN
ROOF PLAN - AREA 'A' and AREA 'B'

DRAWING BY: GWT
CHECK BY: P.J.H.

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DWG TITLE ROOF PLAN - AREA 'A' and AREA 'B'

SCALE: AS NOTED
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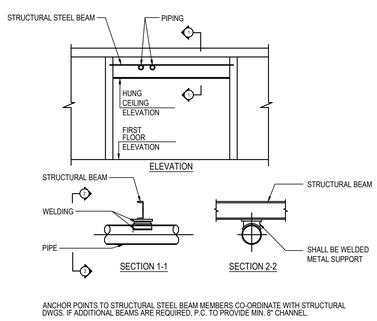
P3.01

PLUMBING FIXTURE TYPES

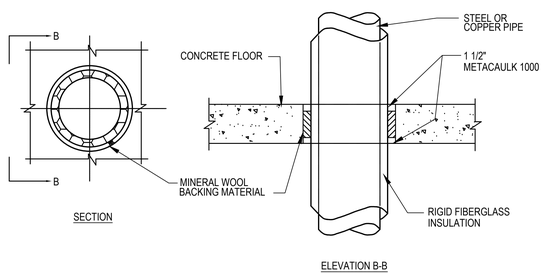
FIXTURE TYPE	TAG No.	FIXTURE	TRAP SIZE	VENT SIZE	COLD WATER	HOT WATER	DESCRIPTION
CLEANOUT	P-1	FLOOR CLEAN-OUT	--	--	--	--	ZURN ZN1400-BZ1-VP CLEAN-OUT, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH GAS AND WATER TIGHT THREADED ABS TAPERED PLUG, POLISHED NICKEL BRONZE TOP AND VANDAL-PROOF SCREWS. (CLEANOUT SIZE TO MATCH PIPE SIZE)
CLEANOUT	P-2	WALL CLEAN-OUT	--	--	--	--	ZURN Z1468 WALL CLEAN-OUT, ROUND STAINLESS STEEL WALL ACCESS COVER COMPLETE WITH SECURING SCREW AND BRONZE RAISED HEX HEAD PLUG. (CLEANOUT SIZE TO MATCH PIPE SIZE)
FLOOR DRAIN	P-3	FLOOR DRAIN BODY ASSEMBLY W/ TYPE H STRAINER	4"	2"	½"	--	ZURN MODEL# ZN415H BODY ASSEMBLY W"TYPE H" STRAINER. FLOOR AND SHOWER DRAIN. DURA -COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE H" POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER WITH FLASHING CLAMP DEVICE FOR CLAMPING AT THE FINISHED FLOOR LEVEL. P.C. TO FURNISH AND INSTALL WITH J R. SMITH #2692-04 QUAD CLOSE TRAP SEAL.MITH #2692-04 QUAD CLOSE TRAP SEAL.
WATER COOLER	P-4	BI-LEVEL WATER COOLER WITH BOTTLE FILL STATION	2"	1-1/2"	1/2"	--	FURNISH AND INSTALL ELKAY MODEL LZSTL8WSLP FILTERED BI-LEVEL SELF-CONTAINED WALL HUNG ELECTRIC REFRIGERATED WATER COOLER AT 8-GPH CHILLING CAPACITY AT 50 DEG. F WATER, LIGHT GRAY GRANITE FINISH, LEAD FREE, RATED 370-WATTS, 115-VOLTS, SINGLE PHASE, WITH EASY TOUCH FRONT AND SIDE PUSHBAR CONTROLS, FLEXI-GUARD SAFETY BUBBLER AND MODEL EZH2O BOTTLE FILLER STATION LOCATED ON THE LEFT SIDE (LOW-HI) ADA COOLER. WEIGHT 98-LBS. INSTALL ADA COOLER PER GUIDELINES 32" FROM FLOOR TO ORIFICE HEIGHT. FURNISH WITH MLP200 BI-LEVEL IN WALL CARRIER & LKAPRE2L CANE APRON.
WATER CLOSET	P-5	WALL MOUNTED WATER CLOSET	4"	2"	1"	--	ZURN Z5616-BWL ECOVANTAGE HIGH EFFICIENCY TOILET SYSTEM VITREOUS CHINA, 1.1 GPF [4.2 LPF] OR GREATER HIGH EFFICIENCY WALL HUNG TOILET WITH SIPHON JET FLUSHING ACTION, ZURNSHIELDTM CERAMIC GLAZE AND ELONGATED FRONT RIM WITH INTEGRAL BEDPAN LUGS AND 1-1/2" TOP SPUD. UNIVERSAL HIGH EFFICIENCY TOILET IS DESIGNED TO EXCEED INDUSTRY STANDARDS WITH FLUSH VOLUMES OF 1.1 GALLONS PER FLUSH OR HIGHER. ZURN ZER6000AV-WS1-TM, THE ZER EZ GEAR-DRIVEN WATER CLOSET FLUSH VALVE IS PERFORMANCE ENGINEERED WITH THE DUAL ACTION OF THE CERAMIC DISC CARTRIDGE AND MOTOR GEAR-DRIVEN OPERATION. ITS POLISHED CHROME-PLATED FINISH, MODERN TOP-MOUNT DESIGN, AND QUIET DIAPHRAGM OPERATION ARE IDEAL FOR NEW AND RETROFIT COMMERCIAL RESTROOM APPLICATIONS. WITH A FLUSH VOLUME OF 1.6 GPF. ZURN Z5955SS-EL IS AN ELONGATED, 1" HIGH, STANDARD WHITE, OPEN FRONT TOILET SEAT WITH LESS COVER, WITH STAINLESS STEEL CHECK HINGE.
LAVATORY	P-6	ADA ACCESSIBLE WALL MOUNTED LAVATORY	2"	1½"	½"	½"	P.C. TO FURNISH AND INSTALL TOSTEEL. FINISH: BUFFED SATIN. GAUGE:18. SOUND DEADENING: BOTTOM ONLY PADS. NUMBER OF BOWLS:1. SINK DIMENSIONS; 22"X19"X10". BOWL 1 DIMENSIONS: 16"X11-1/2"X5-1/2". BACKSPLASH HEIGHT: 2.50. DRAIN SIZE: 1-1/2"(38MM). DRAIN LOCATIONS: REAR CENTER. PRODUCT Compliance ADA & ICC A117.1. INCLUDED WITH PRODUCT: LKF297 OVERFLOW ASSEMBLY.
SHOWER	P-7	FLUSH-MOUNTED SHOWER	2"	1½"	½"	½"	FURNISH AND INSTALL ACORN SHOWER-WARE 410B APEX TYPE 1 FLUSH-MOUNTED SHOWERS, 14-GAGE TYPE 304 STAINLESS STEEL WITH SATIN FINISH SHOWER PANEL & ACORN LOGAN WIZARD SHOWER HEAD WITH ADJUSTABLE SPRAY. FURNISH WITH AIR-CONTROL SINGLE TEMPERATURE METERING VALVE, (W) WALL SUPPLY, (CSH) CONICAL SHOWER HEAD (LIGATURE RESISTANT), (D) SOAP DISH, (F) FLOW CONTROL 1.4-GPM, (K) ALLEN KEY VOLUME CONTROL, (PBH) HEMISPHERICAL PUSH BUTTON, MOUNTING FRAME & TAMPER-RESISTANT FASTENERS. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS & DETAILS.
SHOWER	P-8	ADA ACCESSIBLE SHOWER	2"	1½"	½"	½"	FURNISH AND INSTALL BRADLEY MODEL HN200, BARRIER- FREE RECESS-MOUNTED ADA COMPLIANT WALL SHOWER, 6'-0" STANDARD SHOWERHEAD HEIGHT. FURNISH WITH (SX15) SEVERE SERVICE SHOWER HEAD 1.5-GPM FLOW CONTROL, (HD) EQUA-FLO HD PRESSURE BALANCING VALVE, (VL/SR) SHOWER STALL CONFIGURATION VALVE LEFT / SEAT RIGHT, (GB) L-SHAPED 2-WALL GRAD BAR, ADA COMPLIANT SEAT, (CRH) SHOWER CURTAIN, ROD & HOOKS, & RECESSED SOAP DISH.
SERVICE SINK	P-9	FLOOR MOUNTED SERVICE SINK	3"	2"	½"	½"	ZURN MODEL#Z1996-36 MOP SERVICE BASIN 24"X36"X10", MOLDED HIGH DENSITY COMPOSITE BASIN WITH AN INTERGRALLY MOLDED, SELF-DRAINING MOP SHELF, PVC DRAIN BODY, STAINLESS STEEL STAINER AND 3" GASKETED OUTLET CONNECTION. CERTIFICATIONS: MEETS ANSI Z124, CSA LISTED , AND IAPMO LIST UNDER FILE#3561. ZURN MODEL Z843M6-XL POLISHED CHROME-PLATED CAST BRASS 8" SINK FAUCET, LEAD FREE WITH QUARTER TURN CERAMIC DISC CARTRIDGES, 3/8" SHORT SWIVEL INLETS PROVIDING ADJUSTABLE CENTERS FROM 7-1/4" TO 8-3/4" , INTEGRAL SERVICE STOPS AND A 6" CENTERLINE CAST BRASS SPOUT WITH CHEMICAL RESISTANT VACUUM BREAKER, 3/4" HOSE THREADED OUTLET, PAIL HOOK AND ADJUSTABLE WALL BRACE. UNIT IS FURNISHED WITH 6" VANDAL-RESISTANT COLOR-CODED METAL WRIST BLADE HANDLES.
SINK	P-10	ADA ACCESSIBLE DROP-IN SINK	2"	1½"	½"	½"	ELKAY LUSTERSTONE CLASIC STAINLESS STEEL 25"X22"X5-1/2" SINGLE BOWL DROP-IN ADA SINGLE MODEL#: LRAD252255. SINK IS MANUFACTURED FROM 18 GAUGE 304 STAINLESS STEEL WITH A LUSTROUS SATIN FINISH. REAR CENTER DRAIN PLACEMENT, AND BOTTOM ONLY PADS. INSTALLATION TYPE: DROP-IN. MATERIAL: 304 STAINLESS STEEL, FINISH: LUSTROUS STAIN. GAUGE:18. BOWL 1 DIMENSIONS: 21"X15-3/4"X5-1/8". DRAIN SIZE: 3-1/2". DRAIN LOCATION: 5" FROM REAR CENTER. MINIUMUM CABINET SIZE: 30".MOUNTING HARDWARE: PART#64090012 INCLUDED FOR COUNTERTOPS UP TO 3/4"THICK. CUTOUT TEMPLATE#: 1000001188. PRODUCT COMPLIANCE: ADA&ICC A117.1, ASME A112.19.3/CSA B45.4. P.C. TO FURNISH AND INSTALL ELKAY MODEL# LK35 3-1/2" DRAINING FITTING TYPE 304 STAINLESS STEEL BODY, STRAINER BASKET AND TAILPIECE. OVERALL DIMENSIONS ARE 4-7/16"X4-7/16"X7-5/16" MADE OF STAINLESS STEEL, DESIGNED TO FIT 3-1/2" DRAIN OPENING WITH AN OVERALL FLANGE SIZE OF 4-1/2". 1-1/2" O.D. X 4" CHROME PLATED BRASS TAILPIECE. STRAINER BASKET WITH METAL STEM AND RUBBER SEAL. TYPE 304 STAINLESS STEEL BODY. POLISHED FINISH. PRODUCT COMPLIANCE: ASME A11.18.2/CA B125.2. F. ELKAY 4" CENTERSET MODEL LK406LGN08T4 WITH EXPOSED DECK LAMINAR FLOW FAUCET WITH 8" GOOSENECK SPOUT 4" WRISTBLADE HANDLES CHROME, CHROME PLATED BRASS MATERIAL, WITH A QUARTER TURN CERAMIC DISC VALVE. FAUCET REQUIRES 2 FAUCET HOLES. MOUNTING TYPE: DECK MOUNT SPECIAL FEATURES: LOW FLOW SOLID BRASS CONSTRUCTION SPOUT SWING RESTRICTION PIN FINISH: CHROME (CR) HANDLE TYPE: 4" WRISTBLADE HANDLE, DECK CLEARANCE: 8-1/2" ,SPOUT REACH: 8" ,SPOUT HEIGHT: 14-1/8", HOLE DRILLINGS: 2, MATERIAL: CHROME PLATED BRASS, VALVE TYPE: QUARTER TURN CERAMIC DISC, VALVE CONNECTION: 1/2" NPSM MALE, FLOW RATE: 1.5 GPM, FAUCET HOLE SPREAD: 4, SPOUT TYPE: GOOSENECK.
WALL HYDRANT	P-11	WALL HYDRANT (INTERIOR)	--	--	¾"	--	ZURN MODEL Z1330XL ENCASED, ECOLOTROLTM, LEAD-FREE, ANTI-SIPHON, MODERATE CLIMATE / INTERIOR WALL HYDRANT FOR FLUSH INSTALLATION, HYDRANT FEATURES INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON TECHNOLOGY, ALL-BRONZE INTERIOR COMPONENTS WITH 1/2 TURN LONG-LIFE CERAMIC DISC CARTRIDGE, COMBINATION 3/4" FEMALE SOLDER AND 3/4" MALE PIPE THREAD INLET CONNECTION, AND 3/4" MALE HOSE CONNECTION. HYDRANT FURNISHED WITH TYPE 304 STAINLESS STEEL FLANGED HOUSING WITH LOCKING HINGED COVER STAMPED "WATER" AND INCLUDES OPERATING KEY.



ANCHOR POINTS TO STRUCTURAL STEEL BEAM MEMBERS CO-ORDINATE WITH STRUCTURAL DWGS. IF ADDITIONAL BEAMS ARE REQUIRED, P.C. TO PROVIDE MIN. 8" CHANNEL.

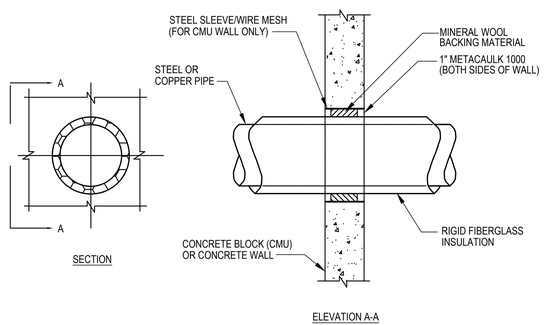
1 ANCHOR PIPING SUPPORT

SCALE: N.T.S.



2 PIPING FLOOR PENETRATION

SCALE: N.T.S.



3 PIPING WALL PENETRATION

SCALE: N.T.S.

REV.	DATE	ITEM

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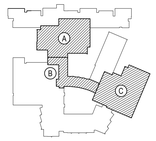

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

SCHEDULES and DETAILS

DRAWING BY: GT

CHECK BY: UF

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	SCHEDULES and DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

P6.01

ELECTRICAL CONSTRUCTION NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE N.E.C., APPLICABLE LOCAL CODES, STATE CODES, OWNER'S WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
2. THE VOLTAGE CHARACTERISTIC OF BUILDING IS 208Y/120V, 3-PHASE, 4-WIRE, GROUNDED NEUTRAL, WYE. ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS. VERIFY AND MAINTAIN ALL PHASE ROTATIONS THROUGHOUT THE PROJECT.
3. THE DRAWINGS SCHEMATICALLY SHOW THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND / OR OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
4. CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT / ENGINEERS ATTENTION BEFORE BID SUBMITTAL. ANY FIELD CONDITION FOUND AFTER BID APPROVAL WHICH HAMPERS AND/OR PREVENTS ANY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BID THE HIGHER SPECIFICATION FOR ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS.
5. CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
6. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS, RELATED DETAIL AND IS NECESSARY TO COMPLETE THE INSTALLATION.
7. CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CAT-V, AN APPROVED ELECTRICAL INSPECTION AGENCY, ALARM AND FIRE PROTECTION COMPANIES.
8. CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.
9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE OWNER.
10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.
11. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SPECIFICATION SECTION 01700 OF THE PROJECT MANUAL.
12. A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, BRANCHES AND CONDUITS AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES.
13. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES.
14. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
15. THE INDICATED SOURCE OF EXISTING CIRCUITS MAY NOT BE KNOWN OR HAS NOT BEEN VERIFIED. IT IS THE DIVISION 16 CONTRACTOR'S RESPONSIBILITY TO TRACE OUT, LOCATE AND VERIFY THE DISCONNECTING MEANS OF EXISTING CIRCUIT(S) TO BE IMPACTED BY THE WORK. SAFE OFF THE CIRCUIT (SO AS REQUIRED TO SAFELY PERFORM THE WORK, AND RE-ENERGIZE UPON COMPLETION. UPDATE PANEL DIRECTORIES UPON COMPLETION.
16. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
17. PULL / JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
18. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND / OR AS REQUIRED TO CONFORM WITH CODE REQUIREMENTS.
19. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES COMPLETE WITH MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION. NOTE ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE. UTILIZING CEILING FRAMING ALONE IS NOT ACCEPTABLE. NEW LIGHTING FIXTURES (OTHER THAN THEATRICAL EQUIPMENT) SHALL NOT BE DAISY CHAINED. RE-USE OF AN EXISTING LIGHTING CIRCUIT INCLUDES HOME RUN WIRING OR WIRING UP TO THE SWITCH. ANY WIRING DOWNSTREAM OF THE SWITCH IS SUBJECT TO REMOVAL/REARRANGEMENT. ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN THE BID PRICE.
20. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD(S) SHALL BE LISTED/LABELED FOR USE WITH THE EXISTING PANELBOARD(S) AND SHALL MEET OR EXCEED THE INTERRUPTING RATING OF THE PANEL.
21. CONTRACTOR SHALL REFER TO ALL FURNITURE DRAWINGS BEFORE INSTALLING RECEPTACLES. THE MOUNTING HEIGHT OF THE RECEPTACLES IS 18" ABOVE FINISHED FLOOR UNLESS INDICATED ON THE DRAWING. COLOR, TYPE & FINISH OF ALL RECEPTACLES, DEVICES & FACE PLATES SHALL BE AS APPROVED BY ENGINEER AND ARCHITECT. CONTRACTOR SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED.
22. ALL WIRING TO BE 1 #12 + 1 #12(N) + 1 #12(G) - 3/4"C, OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED). ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
23. UNLESS OTHERWISE SPECIFIED ON DRAWINGS, RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, CHASES, FLOOR BELOW AND BEHIND WALLS. ALL DEVICES & CONDUITS ON NEW CONSTRUCTION MUST BE RECESSED. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALL WIRING THAT CANNOT BE CONCEALED IN MUST BE RUN IN FINISHED SURFACE RACEWAY SUCH AS WIREMOLD, COLOR PER ARCHITECT.
24. ALL CONNECTIONS AND / OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
25. ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS WILL NOT BE ACCEPTED.
26. ALL PENETRATIONS TO BUILDING EXTERIOR SHALL BE SEALED WATERTIGHT. ROOF PENETRATIONS SHALL BE MADE VIA APPROVED PITCH POCKETS OR PIPE PORTALS AND IN ACCORDANCE WITH EXISTING ROOF WARRANTIES.
27. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
28. ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED.
29. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR UNDERGROUND.
30. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.
31. WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE ELECTRICAL CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.
32. ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT TO THE CIRCUIT BREAKER. PROVIDE PRINT PANEL SCHEDULE. HAND WRITING NOT ALLOWED.
33. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR GROUPING PURPOSES ONLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOAD BALANCING.
34. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY.
35. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF CONSTRUCTION AND AS APPROVED BY THE OWNER. OUTAGES ARE ONLY PERMITTED OUTSIDE OF NORMAL BUSINESS HOURS. COORDINATE WITH OWNER. INCLUDE ALL PREMIUM TIME IN BID.
36. WHERE THE CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A CIRCUIT BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 1OOA, 3P, 4W, 24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3 #6 + 1 #6(N) + 1 #10(G) - 1"C.
37. ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHTS AND LOCATIONS.
38. REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY, THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LAWS AND REGULATIONS.
39. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES AND NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS / DISCONNECTS NO LONGER REQUIRED.
40. PROVIDE PROTECTIVE DUST COVERS ON SMOKE DETECTORS IN CONSTRUCTION AREAS. REMOVE COVERS UPON COMPLETION OF WORK.
41. ANY LIGHT FIXTURES INSTALLED IN GYMNASIUMS OR OTHER AREAS SUBJECT TO IMPACT OR PHYSICAL DAMAGE SHALL BE MOUNTED WITH SAFETY CHAINS AND SECURED TO STRUCTURE. INCLUDE PROTECTIVE WIRE GUARD OVER FIXTURES.
42. PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND UNDERWRITERS REQUIREMENTS.

FIRE STOP NOTES

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.
2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS SUITABLE.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.
4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED HERE.
5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

DEMOLITION NOTES

1. THE ITEMS SPECIFICALLY SHOWN ON THE DEMOLITION DRAWINGS ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL TO REMOVAL, STORAGE AND REINSTALLATION
2. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDING, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLES, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRICAL CONTRACTORS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES SCHEDULED FOR DEMOLITION, OF ANY VOLTAGE OR FUNCTION, ARE SAFE AND ADVISE THE OTHER CONTRACTORS.
3. AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFORE NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE.
4. THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY. NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY BE DISCOVERED.
5. REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE OWNERS BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE DISPOSED OF PER REGULATIONS.
6. RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.
7. LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION U.O.N. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO SAFE OFF LIGHTING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL DISPOSAL.
8. THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4" EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.
9. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S CONTRACT.
10. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO THE OWNER.
11. ALL SYSTEMS ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

TEMPORARY POWER CONSTRUCTION NOTES

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE CONSTRUCTION AREAS OF THE PROJECT.
2. ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP120C. NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.
3. ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX.
4. TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX. A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE
5. WIRING SHALL BE 1#12+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "DO NOT TURN OFF" . CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
6. THE ELECTRICAL CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE.
7. A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE ELECTRICAL CONTRACTOR FOR THE PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
8. ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION.
9. POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
10. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. ELECTRICAL CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE DISPOSAL.
11. REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR WHEN THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR FINAL PAYMENT.

EXISTING FIRE ALARM SYSTEM NOTES

1. ELECTRICAL CONTRACTOR SHALL EXTEND THE EXISTING 'SIMPLEX 4100ES' SYSTEM TO PROVIDE COVERAGE FOR THE NEW AREAS AND/OR DEVICES AND INTEGRATE THEM INTO THE SYSTEM. PROVIDE NEW UPDATED AND LEGIBLE GRAPHIC MAPS AT EACH LOCATION. THE MAPS SHALL BE PROTECTED FROM DAMAGE: FRAMED AND SHIELDED WITH TRANSPARENT SHATTERPROOF COVERS. NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM PANEL WHICH IS TO REMAIN. ALL NEW DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS AND FULLY INTEGRATED INTO THE SYSTEM. THE CONTRACTOR SHALL PROVIDE THE ITEMS ON THE DRAWING AND ALL RELATED EXPANSION, ADAPTIVE, AND CONNECTING WIRING, REPROGRAMMING AND DEVICES FOR A FULLY FUNCTIONING SYSTEM.
2. PRIOR TO PERFORMING ANY WORK ON THE SYSTEM, THE ELECTRICAL CONTRACTOR SHALL PERFORM A COMPLETE TEST OF THE SYSTEM IN THE PRESENCE THE OWNER'S REPRESENTATIVE TO ASCERTAIN AND NOTE ANY PRE-EXISTING DEFICIENCIES. ANY CORRECTIVE ACTION WILL BE AS DIRECTED BY THE OWNER WILL BE ON CHANGE ORDER BASIS. ELECTRICIAN WILL MARK-UP THE RESULTS OF THEIR PRE-CONSTRUCTION SURVEY ON FLOOR PLANS AND SUBMIT TO THE CM BEFORE WORK STARTS
3. ALL FIRE ALARM WORK SHALL BE PERFORMED BY MANUFACTURER CERTIFIED TECHNICIANS.
4. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND APPROVALS FOR THIS PROJECT AND PAY RELATED FEES. HE SHALL SUBMIT SHOP DRAWINGS ON ALL HARDWARE. THE SHOP DRAWINGS SHALL CONTAIN A SYSTEM RISER DIAGRAM.
5. ELECTRICAL CONTRACTOR TO PROTECT OR TEMPORARILY DISCONNECT / RECONNECT EXISTING FIRE ALARM DEVICES TO ACCOMMODATE NEW CONSTRUCTION AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR. WHERE PLANS CALL FOR EXISTING DEVICE TO BE RELOCATED, EXTEND WIRING AS REQUIRED.
6. ALL NEW FIRE ALARM DEVICES SHALL BE OF THE SAME MANUFACTURER AND COMPATIBLE WITH THE FIRE ALARM PANEL.
7. PROVIDE ADAPTIVE HARDWARE TO POWER THE SPEAKER STROBES, STROBES AND MAGNETIC DOOR HOLDERS.
8. ALL WORK SHALL BE IN ACCORDANCE WITH SYSTEM MANUFACTURER SPECIFICATIONS, LATEST EDITION OF NEC, NFPA 72, ANY LOCAL, STATE CODES, AND ENGINEERING SPECIFICATIONS.
9. ALL WIRING SHALL BE AS SPECIFIED BY SYSTEM MANUFACTURER AND PLENUM RATED.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EQUIPMENT, SYSTEM MODULES, POWER SUPPLIES ETC. NEEDED TO HAVE A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE NEW REMOTE ANNUNCIATOR PANEL(S) WHERE INDICATED INCLUDING UPDATED GRAPHIC MAPS. UPDATED MAPS SHALL ALSO INDICATE THE LOCATIONS OF ALL AREA OF RESCUE ASSISTANCE (REFUGE) CALL STATIONS. SUBMIT PROPOSED MAPS FOR APPROVAL.
11. THE ELECTRICAL CONTRACTOR SHALL FIELD SELECT THE PROPER OUTPUT SETTINGS OF FIRE ALARM HORNS AND STROBES TO MEET THE MINIMUM CODE PERFORMANCE REQUIREMENTS TO SUIT THE AREAS BEING SERVED.
12. PROVIDE AS-BUILT DRAWINGS AND COPY OF UPDATED SITE SPECIFIC SYSTEM SOFTWARE INCLUDING PASSWORDS TO THE OWNER AT NO ADDITIONAL CHARGE.
13. ALL NEW MAGNETIC DOOR HOLDERS ARE TO BE WIRED AT 24V. WHEN REPLACING AN EXISTING MAGNETIC DOOR HOLDER, THE CONTRACTOR SHALL MATCH EXISTING VOLTAGE.
14. CONTRACTOR TO ENSURE ALL POINTS ARE PROPERLY ENROLLED IN THE SYSTEM AND OLD POINTS NOT LONGER IN USE ARE REMOVED. PROVIDE CERTIFICATION AS PART OF CLOSEOUT DOCUMENTS.
15. WHERE NOT EXISTING, PROVIDE SYSTEM RECORD DOCUMENT CABINET ADJACENT TO FACP TO HOUSE SYSTEM RECORD DOCUMENTS AND ELECTRONIC MEDIA AS PER NFPA 72 AND PROJECT SPECIFICATIONS. PROVIDE LOCKING CABINET BY SPACE AGE ELECTRONICS #SU00691 W/ LOCK OR EQUAL.
16. THE ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETED NFPA 72 "SYSTEM RECORD OF COMPLETION" FORMS PLUS ANY APPLICABLE SUPPLEMENT DOCUMENTS WITH REGARD TO SYSTEM MODIFICATIONS AS PART OF PROJECT CLOSEOUT DOCUMENTS PRIOR TO APPLICATION FOR FINAL PAYMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

EXISTING PUBLIC ADDRESS SYSTEM NOTES

1. ELECTRICAL CONTRACTOR SHALL EXTEND THE EXISTING PUBLIC ADDRESS COMMUNICATIONS SYSTEM ('SIMPLEX BUILDING COMMUNICATIONS SYSTEMS') LOCATED IN ART ROOM 167 TO PROVIDE COVERAGE FOR THE NEW/RENOVATED AREAS AND INTEGRATE THEM INTO THE EXISTING SYSTEM. ALL DEVICES SHALL BE INSTALLED PER ADA AND MANUFACTURER REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE THE ITEMS ON THE DRAWING AND ALL RELATED EXPANSION, ADAPTIVE, AND CONNECTING WIRING AND DEVICES FOR A FULLY FUNCTIONING SYSTEM.
2. PRIOR TO PERFORMING ANY WORK ON THE SYSTEM, THE ELECTRICAL CONTRACTOR SHALL PERFORM A COMPLETE TEST OF THE SYSTEM IN THE PRESENCE THE OWNER'S REPRESENTATIVE TO ASCERTAIN AND NOTE ANY PRE-EXISTING DEFICIENCIES. ANY CORRECTIVE ACTION WILL BE AS DIRECTED BY THE OWNER WILL BE ON CHANGE ORDER BASIS. ELECTRICIAN WILL MARK-UP THE RESULTS OF THEIR PRE-CONSTRUCTION SURVEY ON FLOOR PLANS AND SUBMIT TO THE CM BEFORE WORK STARTS.
3. ALL WORK SHALL BE IN ACCORDANCE EXISTING SYSTEM MANUFACTURER SPECIFICATIONS, LATEST EDITION OF NEC, ANY LOCAL, STATE CODES, AND ENGINEERING MANUFACTURER'S SPECIFICATIONS.
4. ALL WIRES SHALL BE AS SPECIFIED BY SYSTEM MANUFACTURER AND PLENUM RATED.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EQUIPMENT NEEDED TO HAVE A COMPLETE AND OPERATIONAL SYSTEM.
6. CONTRACTOR TO ENSURE ALL NEW POINTS ARE PROPERLY ENROLLED IN THE SYSTEM AND DEMOLISHED POINTS NO LONGER IN USE ARE REMOVED.
7. PROVIDE NEW WIRING FOR ALL NEW AND RENOVATED AREAS. ALL NEW WIRING RUNS SHALL BE CONCEALED IN EITHER SURFACE MOUNTED WIREMOLD (V500 IVORY IN COLOR) OR RECESSED NEW CONDUIT TO RECESSED BACKBOXES OF SPEAKERS, PHONE JACKS, AND MICROPHONE JACKS. WIRING IN DROP CEILINGS SHALL BE SUPPORTED EVERY 5 FEET, AND FROM BUILDING STEEL. ANY WIRING EXPOSED IN UNFINISHED NON-PUBLIC SHALL BE IN EMT. REMOVE AND REPLACE CEILINGS AS REQUIRED TO PERFORM THE WORK. REPLACE ANY DAMAGE TO THE CEILING AS RESULT OF WORK.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER REQUIREMENT FOR PUBLIC ADDRESS SYSTEM. WIRE ALL NEW PUBLIC ADDRESS SYSTEM RACKS AND AMPLIFIERS TO NEARBY 120/208V AC PANEL 20 AMP, 1 POLE CIRCUIT BREAKERS, PROVIDE NEW AS REQUIRED.
9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTS AND INSPECTIONS FOR INSTALLATION OF THIS SYSTEM, AND SHALL PAY ANY FEES REQUIRED FOR SAME.
10. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF WALL MOUNT PHONES AND DESK TOP PHONES, AND CONSULT WITH OWNER FOR FINAL LOCATIONS.
11. THE EXISTING PUBLIC ADDRESS SYSTEM SHALL REMAIN IN SERVICE DURING CONSTRUCTION .
12. ELECTRICAL CONTRACTOR TO FIELD ADJUST VOLUME TAPS ON EACH NEW SPEAKER TO SUIT THE SPACE IN WHICH IT IS INSTALLED.

ENERGY REBATES:

1. THE CONTRACTOR SHALL SHALL COORDINATE AND PROVIDE ALL ASSISTANCE TO THE OWNER IN THE APPLICATION PROCESS FOR ENERGY EFFICIENCY REBATES FROM THE LOCAL UTILITY AND/OR APPLICABLE AGENCIES FOR CONTRACTOR FURNISHED EQUIPMENT. THIS SHALL INCLUDE, BUT NOT LIMITED TO: LIGHTING FIXTURES, LIGHTING CONTROLS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGING SYSTEMS, ETC. BEGIN THIS PROCESS EARLY WITH THE OWNER - PRIOR TO START OF CONSTRUCTION AS REQUIRED BY REBATE AGENCY.
2. PROVIDE TO OWNER ALL REQUIRED DOCUMENTATION AS REQUIRED BY THE ISSUING AGENCY TO OBTAIN REBATE.
3. ALTERATIONS AND RENOVATIONS OF EXISTING AREAS MAY REQUIRE PRE-INSPECTION BY THE REBATE ISSUING AGENCY TO VERIFY EXISTING CONDITIONS. OBTAIN AND COORDINATE ANY PRE-INSPECTIONS PRIOR TO START OF DEMOLITION.
4. OBTAIN AND COORDINATE ANY POST INSTALLATION INSPECTIONS AS REQUIRED.
5. ALL REBATE PROCEEDS ARE THE PROPERTY OF THE OWNER.

SITE WORK NOTES

1. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND TONE OUT THE LOCATION OF ALL UTILITIES IN THE EXCAVATION AREA OF CONSTRUCTION PRIOR TO COMMENCING WORK. CARE SHALL BE TAKEN NOT TO DISTURB EXISTING UTILITIES AND SERVICE CONNECTIONS (OR PORTIONS THEREOF) TO REMAIN. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ABANDONED UTILITY SERVICE CONNECTIONS AND INSTALLATION OF NEW SERVICE CONNECTIONS AND SHALL COORDINATE WORK WITH THE APPROPRIATE UTILITY COMPANY WHERE APPLICABLE. MAINTAIN ALL MARK OUTS FOR THE DURATION AS REQUIRED.
2. ADDITIONAL EXISTING UTILITIES MAY EXIST IN THE WORK AREA. (REFER TO CIVIL / SITE DRAWINGS FOR ADDITIONAL INFORMATION. THESE MAY INCLUDE BUT ARE NOT LIMITED TO ELECTRIC, WATER, GAS, IRRIGATION SYSTEM, IRRIGATION MAIN, AND SANITARY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE RESPECTIVE UTILITY COMPANIES AND SURVEYORS MARK ALL LOCATIONS OF UNDERGROUND UTILITIES IN THE FIELD PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL HAND DIG TRENCH WHEN WITHIN 5' OR CROSSING EXISTING THE UTILITIES LINES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR OR REPLACEMENT OF ANY SYSTEM DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO SAWCUT AND TRENCH ALL PAVED AREAS AS REQUIRED TO FACILITATE INSTALLATION OF WIRES AND CONDUITS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO BACKFILL EXCAVATION AND COMPACT TO 95% DENSITY UP TO GRADE. PATCH PAVEMENT WITH FULL DEPTH ASPHALT AND RCA BASE TO RESTORE AREAS NOT OTHERWISE BEING PAVED BY GENERAL CONTRACTOR. ALL DISTURBED AREAS TO BE TOPSOILED, FINE GRADED AND SEEDED PER SITE PLAN AND SPECS. RESTORE ANY DISTURBED PAVEMENT/ TRAFFIC MARKINGS.
4. WHERE FINISH PAVING IS TO BE PERFORMED BY OTHER TRADES, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WORK SO THAT ALL CONDUITS TO BE RUN UNDER AREAS TO BE PAVED SHALL BE INSTALLED AFTER DEMOLITION OF ANY EXISTING PAVING AND PRIOR TO NEW PAVING.
5. TRANSITION OUTDOOR PVC CONDUITS TO EMT UPON ENTERING BUILDING.
6. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. SIZE AS INDICATED ON PLANS. All 90-DEGREE BENDS SHALL BE ENCASED IN 3" CONCRETE ALL AROUND OR RIGID GALV. STEEL CONDUIT.
7. THE CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITIES 48 HOURS BEFORE EXCAVATING, CUTTING, REMOVING OR TAPPING INTO ANY EXISTING UTILITY SERVICE. OWNER SHALL BE NOTIFIED 48 HOURS BEFORE ANY SITE WORK IS BEGUN.
8. VACANT CONDUIT DUCTBANKS SHALL BE EXTENDED 2' MIN. PAST CURBING/PAVING AND CAPPED OFF. TYPICAL EACH END.
9. PROVIDE PULLSTRINGS IN ALL SPARE CONDUITS INSTALLED AND CAP OFF.
10. ALL UNDERGROUND CONDUITS, EXCLUDING PRIMARY CONDUCTORS (3'), SHALL BE AT 2' BELOW SURFACE. INSTALL DETECTABLE YELLOW FIBERGLASS WARNING MARKER TAPE 6" BELOW GRADE.
11. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY AND PAY ALL FEE'S FOR INSTALLATION OF THE WORK. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, APPLICABLE LOCAL CODES, UTILITY SPECIFICATIONS, AND THE ENGINEER'S SPECIFICATIONS.

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL. PROVIDE BUILDING SHATTERPROOF FRAMED SCHOOL GRAPHIC PAPER MAP WITHIN SIGHT OF PANEL.
FAA	REMOTE ANNUNCIATOR PANEL. PROVIDE BUILDING SHATTERPROOF FRAMED SCHOOL GRAPHIC PAPER MAP WITHIN SIGHT OF PANEL.
MIC	REMOTE COMMAND CENTER.
	SMOKE DETECTOR WITH BASE.
F	MANUAL PULL STATION WITH STI STOPPER PROTECTIVE SHIELD WITHOUT ALARM (OR SIMILAR).
	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE. CONNECT TO ASSOCIATED UNIT WITH SOUNDER BASE FOR SIMULTANEOUS LOCAL ALARM.
15cd	WALL MOUNT STROBE NOTIFICATION DEVICE.
15cd	WALL MOUNT HORN / STROBE NOTIFICATION DEVICE.
15cd	CEILING MOUNT STROBE NOTIFICATION DEVICE.
15cd	CEILING MOUNT HORN / STROBE NOTIFICATION DEVICE.
DH	ELECTROMAGNETIC HOLD OPEN DEVICE. VOLTAGE TO MATCH SYSTEM.
R	FIRE ALARM RELAY.
B	BELL

1. THE STROBE CANDELA IS 15 cd UNLESS OTHERWISE INDICATED ON DRAWING.
2. WG = WIRE GUARD
3. WP = WEATHER PROOF
4. WM = WALL MOUNT

CONTRACTOR ABBREVIATIONS

GC = GENERAL CONTRACTOR
MC = MECHANICAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
PC = PLUMBING CONTRACTOR
CC = CASEWORK CONTRACTOR

BUILDING NOTES

1. THE BUILDING HAS EXISTING GENERATOR.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	2' X 4' RECESSED LIGHTING FIXTURE.
	2' X 2' RECESSED LIGHTING FIXTURE.
	2' X 2' RECESSED EMERGENCY LIGHTING FIXTURE. WITH 90 MINUTES EMERGENCY BATTERY PACK.
	2' X 2' SURFACE MOUNT LIGHTING FIXTURE.
	1' X 4' SURFACE MOUNT LIGHTING FIXTURE.
	1' X 4' PENDANT LIGHTING FIXTURE.
	RECESSED DOWN LIGHTING FIXTURE.
	EXTERIOR WALL MOUNT LIGHTING FIXTURE.
	EXIT SIGN.
	EMERGENCY WALL PACK LIGHTING FIXTURE.
EXIT	EXIT SIGN/EMERGENCY COMBO WALL PACK LIGHTING FIXTURE.

CLOCK SYMBOL LEGEND

SYMBOL	DESCRIPTION
	WIRELESS ANALOG SERIES CLOCK . 12.5" DIAMETER UNLESS OTHERWISE NOTED.

SECURITY SYSTEM LEGEND

SYMBOL	DESCRIPTION
P	BLUE LIGHT PANIC BUTTON AND STROBE
	INTERIOR SECURITY CAMERA
	INTERIOR FOUR-LENS SECURITY CAMERA

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING CIRCUIT. MATCH WIRE SIZE.
	SINGLE POLE CIRCUIT 2-#12, 1-#12G, 3/4"C UNLESS OTHERWISE NOTED
	TWO POLE CIRCUIT 3-#12,1-#12G, 3/4"C UNLESS OTHERWISE NOTED
	THREE POLE CIRCUIT 4-#12, 1-#12G, 3/4"C UNLESS OTHERWISE NOTED
	SINGLE RECEPTACLE, NEMA 5-20R W/ STAINLESS STEEL FACEPLATE
	DUPLEX RECEPTACLE, NEMA 5-20R W/ STAINLESS STEEL FACEPLATE
WP	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, 5-20R W/ STAINLESS STEEL FACEPLATE FOR MECHANICAL SPACES, OUTDOORS, ETC. 'WP' ANNOTATION - IN RAINPROOF & IN-USE COVER.
	DUPLEX RECEPTACLE W/ (1) USB TYPE 'A' & (1) TYPE 'C', 20A W/ STAINLESS STEEL FACEPLATE
	DUPLEX CEILING MOUNTED RECEPTACLE , NEMA 5-20R W/ STAINLESS STEEL FACEPLATE.
	QUADRUPLEX RECEPTACLE - (2)-GANG DUPLEX RECEPTACLES PER ABOVE W/ STAINLESS STEEL FACEPLATE
	QUADRUPLEX RECEPTACLE - (2)-GANG DUPLEX RECEPTACLES W/ (1) USB TYPE 'A' & (1) TYPE 'C' PER RECEPTACLE, W/ STAINLESS STEEL FACEPLATE
T 220V	RECEPTACLE, VOLTAGE & PHASE PER LABEL
RWB	POWER/DATA WALL BOX. REFER TO TECHNOLOGY DRAWINGS FOR FINAL CONFIGURATION AND LOCATION.
FB P	POWER/DATA FLOOR BOX. REFER TO TECHNOLOGY DRAWINGS FOR FINAL CONFIGURATION AND LOCATION. SUBSCRIPT 'P' POWER ONLY. CONFIGURATION PER PLAN.
PT P	POWER/DATA FIRE-RATED POKE-THROUGHS. REFER TO TECHNOLOGY DRAWINGS FOR FINAL CONFIGURATION AND LOCATION. SUBSCRIPT 'P' POWER ONLY. CONFIGURATION PER PLAN.
	RETRACTABLE WHITE INDUSTRIAL CORD REEL, 20A, 125V, 25' CORD LENGTH, (2) DUPLEX RECEPTACLE END W/ GFCI.
	UNFUSED DISCONNECT SWITCH, SIZE PER PLAN
$1P	SINGLE POLE MOTOR SWITCH FURNISHED AND INSTALLED BY THE E.C. WIRE SIZE PER PLAN.
$2P	DOUBLE POLE MOTOR SWITCH FURNISHED AND INSTALLED BY THE E.C. WIRE SIZE PER PLAN.
J	JUNCTION BOX. MOUNT/ INSTALL IN FIELD AS REQUIRED.
HP	MOTOR, NO. INDICATES HORSEPOWER
HD	HAND DRYER, SUPPLIED BY G.C., INSTALLED AND WIRED BY E.C. U.O.N
	PANEL BOARD/LOAD CENTER, MOUNTING AND CHARACTERISTICS PER PLAN
	TRANSFORMER, VOLTAGE, PHASE, KVA PER PLAN
	EMERGENCY SHUT-OFF MUSHROOM TYPE PUSH BUTTON
$ a K	WALL SWITCH: • LOWER CASE LETTER (TOP) INDICATES SWITCHING DESIGNATION • UPPER CASE LETTER(S) OR NUMBER SUBSCRIPTS (BOTTOM): K = KEY SWITCH 3 = THREE WAY SWITCH 4 = FOUR WAY SWITCH M = MOMENTARY CONTACT SWITCH 3RL = 3 BUTTON CONTROLS VS = VACANCY PIR SENSOR DIMMER VC = VACANCY PIR SENSOR SWITCH
OS VS DS	CEILING MOUNTED OCCUPANCY/ VACANCY/ DAYLIGHT SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY, COMPLETE W/ POWER PACK(S) AS REQ'D.
RC	ROOM CONTROLLER. MOUNT ABOVE CEILING UNLESS OTHERWISE NOTED.

PUBLIC ADDRESS / SPEAKER SYSTEM LEGEND

SYMBOL	DESCRIPTION
S	SURFACE MOUNTED PUBLIC ADDRESS SPEAKER.
	RECESSED CEILING MOUNTED PUBLIC ADDRESS SPEAKER
	RECESSED LAY-IN 2X2 SPEAKER FOR SUSPENDED CEILINGS PUBLIC ADDRESS SPEAKER.
VC	VOLUME CONTROL FOR PUBLIC ADDRESS SPEAKER(S)
PA RACK	PUBLIC ADDRESS SYSTEM HEAD-END RACK

ABBREVIATIONS

ACT	ABOVE COUNTER TOP
AFF	ABOVE FINISHED FLOOR
ETR	EXISTING DEVICE TO REMAIN. PROTECT DURING CONSTRUCTION.
EX	EXISTING DEVICE.
RR	EXISTING DEVICE TO BE DISCONNECTED, STORED, AND REINSTALLED AFTER RENOVATION. E.C. TO SAFE OFF WIRING FOR RE-USE. SEE PROPOSED PLAN FOR NEW DEVICE LOCATIONS AND TEST FOR PROPER OPERATION. ADDITIONAL WIRING MAY BE REQUIRED, EXTEND WIRING AS NEEDED.
WP	WEATHERPROOF DEVICE

NOTE: SYMBOLS AND ABBREVIATIONS ON THIS DRAWING ARE FOR REFERENCE ONLY, AND MAY NOT BE USED IN THE FOLLOWING DOCUMENTS.

REV.	DATE	ITEM

NOTICE

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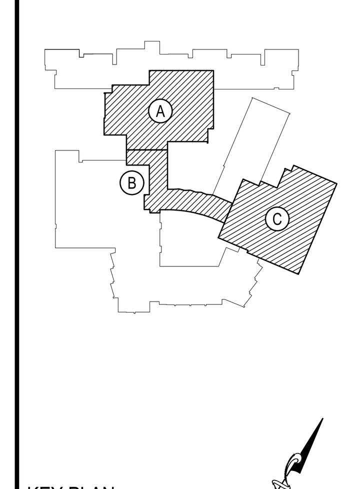

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
GENERAL NOTES, LEGENDS, AND ABBREVIATIONS

DRAWING BY: RP
CHECK BY: LW

NOTICE

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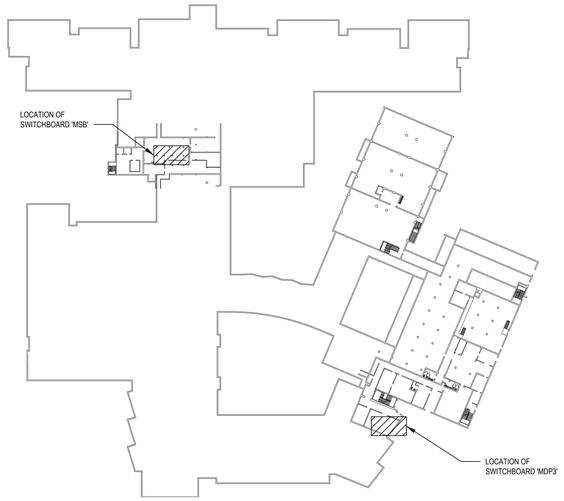
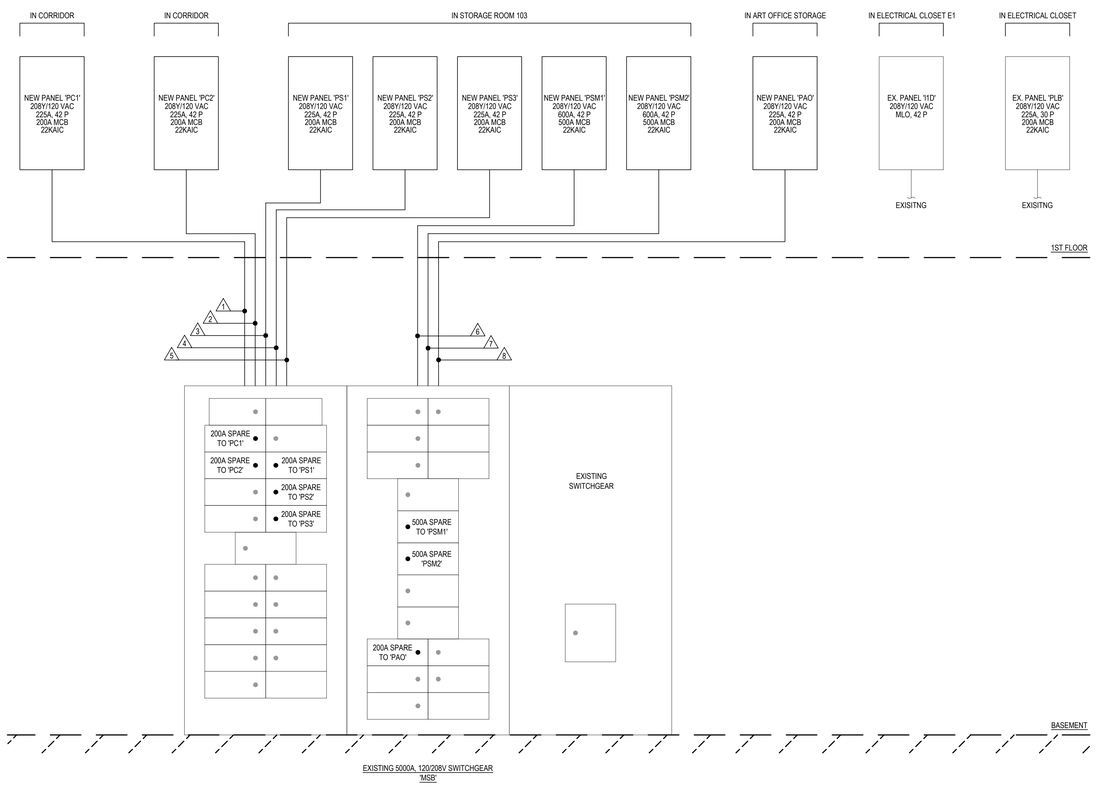
SED No. 66-01-02-06-0-003-024
DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PHASE 2 - BOND IMPROVEMENTS
DWG TITLE GENERAL NOTES, LEGENDS and ABBREVIATIONS
SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

E0.01



KEY PLAN - SWITCHGEAR LOCATIONS

N.T.S.



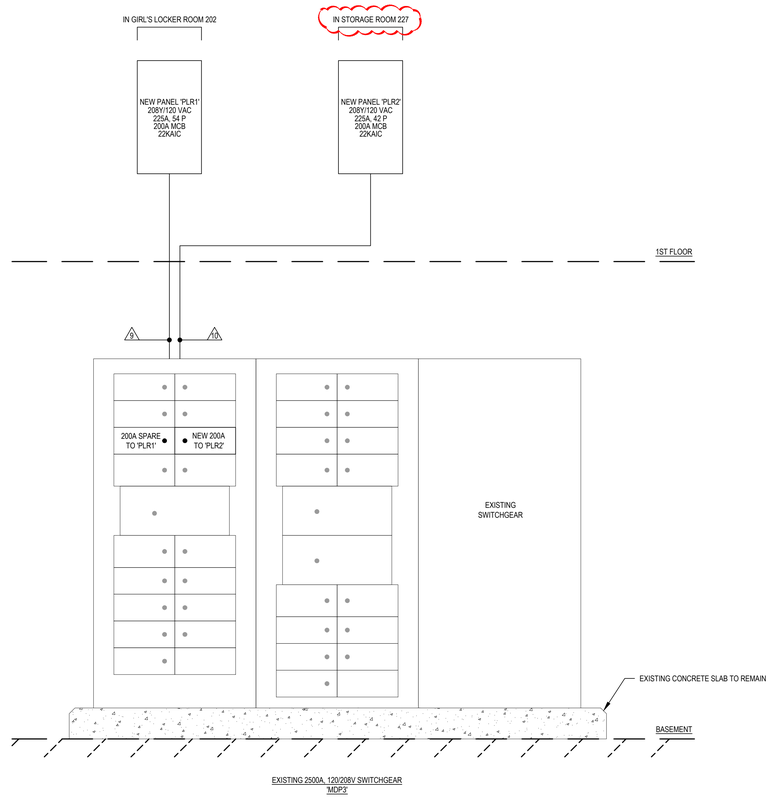
RISER DIAGRAM - NEW PANELS

NOTE: PROVIDE AND INSTALL NEW PRINT CIRCUIT BREAKER NAME TAGS. HAND WRITING NOT ALLOWED.

N.T.S.

WIRING KEY NOTES:

1	4#3/0, 1#6G - 2 1/2"C FROM SPARE 200A, 3P BREAKER TO NEW PANEL 'PC1'
2	4#4/0, 1#5G - 2 1/2"C FROM SPARE 200A, 3P BREAKER TO NEW PANEL 'PC2'
3	4#300KCMIL, 1#3G - 3"C FROM SPARE 200A, 3P BREAKER TO NEW PANEL 'PS1'
4	4#300KCMIL, 1#3G - 3"C FROM SPARE 200A, 3P BREAKER TO NEW PANEL 'PS2'
5	4#300KCMIL, 1#3G - 3"C FROM SPARE 200A, 3P BREAKER TO NEW PANEL 'PS3'
6	(2) SETS OF 4#500KCMIL, 1#1G - 3 1/2"C FROM SPARE 500A, 3P BREAKER TO NEW PANEL 'PSM1'
7	(2) SETS OF 4#500KCMIL, 1#1G - 3 1/2" C FROM SPARE 500A, 3P BREAKER TO NEW PANEL 'PSM2'
8	4#3/0, 1#6G - 2 1/2"C FROM SPARE 200A, 3P BREAKER TO NEW PANEL 'PAO'
9	4#300KCMIL, 1#3G - 2 1/2"C FROM SPARE 200A, 3P BREAKER TO NEW PANEL 'PLR1'
10	4#3/0, 1#6G - 2 1/2"C FROM NEW 200A, 3P BREAKER TO NEW PANEL 'PLR2'



RISER DIAGRAM - E. SWITCH GEAR ROOM PLAN

NOTE: PROVIDE AND INSTALL NEW PRINT CIRCUIT BREAKER NAME TAGS. HAND WRITING NOT ALLOWED.

N.T.S.

REV.	DATE	ITEM
01	03/12/25	BID ADDENDUM No. 03

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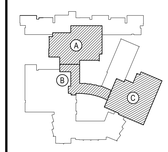

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

SWITCHGEAR, PANELS, AND RISERS DIAGRAMS

DRAWING BY: RP

CHECK BY: LW

NOTICE

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	SWITCHGEAR, PANELS and RISER DIAGRAMS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E0.02

AREA 'A' FIRST FLOOR DEMOLITION PLAN

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

ELECTRICAL DEMOLITION KEY NOTES:

1. U.O.N. ALL EXISTING INTERIOR ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO: EXIT SIGNS, EMERGENCY LIGHTS AND REMOTE HEADS, EMERGENCY LIGHTING BATTERY PACKS, WALL MOUNTED AND CEILING MOUNT OCCUPANCY SENSORS, SWITCHES, RECEPTACLES, DATA DROPS, PHONE DROPS, RACEWAY, CLOCKS, PHONES, EMERGENCY CALL BUTTON SYSTEM, FIRE ALARM DEVICES, PUBLIC ADDRESS DEVICES, SECURITY SYSTEM DEVICES TO BE DE-ENERGIZED AND REMOVED BY THE E.C. ALL EXISTING INTERIOR RECESSED, SURFACE, WALL, AND PENDANT MOUNTED LIGHTING FIXTURES TO BE DE-ENERGIZED AND REMOVED BY THE E.C. WHERE CIRCUIT DOES NOT SERVE AN AREA OR DEVICE THAT IS EXISTING TO REMAIN, E.C. TO REMOVE WIRING BACK TO SOURCE. WHERE CIRCUIT DOES SERVE AN AREA OR DEVICE THAT IS EXISTING TO REMAIN, PRESERVE CONTINUITY ACCOMMODATING NEW FLOORING, PATCHING, AND/OR FINISHES. ALL DEMOLISHED MECHANICAL AND PLUMBING EQUIPMENT SHALL BE DE-ENERGIZED AND HAVE THEIR EXISTING POWER CIRCUITS REMOVED BACK TO THEIR SOURCES. SEE MECHANICAL AND PLUMBING DRAWINGS FOR MORE DETAILS.
2. E.C. TO REMOVE EXISTING POWER POLE. REMOVE ASSOCIATED WIRES AND CONDUIT BACK TO SOURCE.
3. E.C. TO REMOVE IN ITS ENTIRETY EXISTING ELECTRIC PANEL. DE-ENERGIZE, DISCONNECT, AND PULL BACK EXISTING FEEDER AND ANY OBSOLETE BRANCH WIRING BACK TO SOURCE. DISCARD PANEL FRAME, CIRCUIT BREAKERS, AND BUSES FOR THE REMOVAL OF PANEL. WHERE ANY EXISTING BRANCH CIRCUIT SERVES AN AREA TO REMAIN, E.C. TO RETAIN CIRCUIT TO BE REINSTALLED INTO NEW PANEL.
4. E.C. TO REMOVE AND RETAIN EXISTING TELEPHONE SYSTEM AND ALL ASSOCIATED WIRING TO BE RELOCATED INTO NEW I.T. ROOM.
5. E.C. TO DISCONNECT POWER CONNECTION TO EXISTING MECHANICAL CONTROLS TO BE DEMOLISHED AND REPLACED BY THE M.C.
6. E.C. TO REMOVE EXISTING ASSISTIVE LISTENING AND ARCHITECTURAL ACOUSTICS PANELS TO BE HANDED OVER TO DISTRICT.
7. E.C. TO DISCONNECT, REMOVE, AND PULL BACK CIRCUIT OF FLOOR RECEPTACLE. E.C. SHALL SAWCUT AND INFILL OPENING.
8. TRENCH BY E.C. E.C. TO RUN NEW CIRCUITS FROM INSIDE NEARBY WALL/COLUMN TO NEW FLOOR BOXES IN TRENCH. SEE ALSO PROPOSED PLANS AND E7.01 FOR TRENCH DETAIL.
9. EXISTING LOCKDOWN STROBE AND PULL STATION TO BE DISCONNECTED, REMOVED, AND PRESERVED FOR REINSTALLATION BY THE E.C. SYSTEM IS INTERCONNECTED WITH LOCAL POLICE AND EMERGENCY SERVICES. COORDINATE ALL RELATED WORK WITH DISTRICT.
10. E.C. TO DE-ENERGIZE AND DEMOLISH EXISTING MECHANICAL EQUIPMENT CONTROLLERS. REMOVE RELATED CIRCUITS BACK TO SOURCE.
11. ALL EXPOSED EXISTING ELECTRICAL WIRING PARALLEL TO THE EXISTING JOISTS, NOT SCHEDULED TO BE REMOVED AND DISPOSED OF, SHALL BE DISCONNECTED AND RE-ROUTED IN CONDUIT BELOW THE TOP CHORD OF THE EXISTING JOISTS. EXISTING WIRING PERPENDICULAR TO THE EXISTING JOISTS SHALL BE DISCONNECTED AND RE-ROUTED WITHIN THE NEW SOFFITS ADJACENT TO THE EXPOSED CEILING. THE INTENT IS A CLEAN, FINISHED PRODUCT. GENERAL CONTRACTOR SHALL PREP, PRIME AND PAINT ALL NEW OR EXISTING CONDUIT TO MATCH NEW FINISHED EXPOSED CEILING.
12. E.C. TO REMOVE EXISTING IDF AND ALL ASSOCIATED DATA CABLING/DROPS. DATA DEVICES OUTSIDE OF THE AREA OF WORK THAT ARE TO REMAIN SHALL HAVE NEW DATA WIRING RAN FROM NEW IDF LOCATED IN I.T. CLOSET 138 BACK TO EXISTING DEVICE. SEE ALSO E9.01.

ELECTRICAL GENERAL DEMOLITION NOTES:

1. NOT ALL DEVICES COULD BE FOUND DURING SURVEY, ADDITIONAL SIMILAR DEVICES MAY EXIST IN THE WORK ZONE AND SHALL BE ACTED UPON AS PER THE DEMO KEY NOTES UNLESS OTHERWISE INDICATED TO REMAIN.

REV.	DATE	ITEM
01	03/12/25	BID ADDENDUM No. 03

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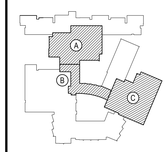

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION PLAN - AREA 'A'

DRAWING BY: RP

CHECK BY: LW

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SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DEMOLITION PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E1.01

AREA 'B' FIRST FLOOR DEMOLITION PLAN

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

ELECTRICAL DEMOLITION KEY NOTES:

1. U.O.N. ALL EXISTING INTERIOR ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO: EXIT SIGNS, EMERGENCY LIGHTS AND REMOTE HEADS, EMERGENCY LIGHTING BATTERY PACKS, WALL MOUNTED AND CEILING MOUNT OCCUPANCY SENSORS, SWITCHES, RECEPTACLES, DATA DROPS, PHONE DROPS, RACEWAY, CLOCKS, PHONES, EMERGENCY CALL BUTTON SYSTEM, FIRE ALARM DEVICES, PUBLIC ADDRESS DEVICES, SECURITY SYSTEM DEVICES TO BE DE-ENERGIZED AND REMOVED BY THE E.C. ALL EXISTING INTERIOR RECESSED, SURFACE, WALL, AND PENDANT MOUNTED LIGHTING FIXTURES TO BE DE-ENERGIZED AND REMOVED BY THE E.C. WHERE CIRCUIT DOES NOT SERVE AN AREA OR DEVICE THAT IS EXISTING TO REMAIN, E.C. TO REMOVE WIRING BACK TO SOURCE. WHERE CIRCUIT DOES SERVE AND AREA OR DEVICE THAT IS EXISTING TO REMAIN, PRESERVE CONTINUITY ACCOMMODATING NEW FLOORING, PATCHING, AND/OR FINISHES. ALL DEMOLISHED MECHANICAL AND PLUMBING EQUIPMENT SHALL BE DE-ENERGIZED AND HAVE THEIR EXISTING POWER CIRCUITS REMOVED BACK TO THEIR SOURCES. SEE MECHANICAL AND PLUMBING DRAWINGS FOR MORE DETAILS.
2. E.C. TO REMOVE AND RETAIN EXISTING PA RACK, RADIO TRANSCEIVER, AND WIRELESS PAGING CONTROLLER TO BE RELOCATED INTO NEW ART OFFICE.
3. E.C. TO REMOVE EXISTING TIME CLOCK IN ITS ENTIRETY AND ALL ASSOCIATED WIRING.
4. E.C. TO REMOVE AND RETAIN EXISTING NAC EXTENDER TO BE RELOCATED INTO NEW ART GALLERY CLOSET.
5. E.C. TO REMOVE AND RETAIN EXISTING FACP TO BE RELOCATED INTO NEW ART GALLEY CLOSET.
6. TRENCH BY E.C. E.C. TO RUN NEW CIRCUITS FROM INSIDE NEARBY WALL/COLUMN TO NEW FLOOR BOXES IN TRENCH. SEE ALSO PROPOSED PLANS AND E7.01 FOR TRENCH DETAIL.
7. EXISTING LOOKDOWN STROBE AND PULL STATION TO BE DISCONNECTED, REMOVED, AND PRESERVED FOR REINSTALLATION BY THE E.C. SYSTEM IS INTERCONNECTED WITH LOCAL POLICE AND EMERGENCY SERVICES. COORDINATE ALL RELATED WORK WITH DISTRICT.
8. DE-ENERGIZE AND REMOVE PROJECTOR. HAND OVER TO DISTRICT.

ELECTRICAL GENERAL DEMOLITION NOTES:

1. NOT ALL DEVICES COULD BE FOUND DURING SURVEY, ADDITIONAL SIMILAR DEVICES MAY EXIST IN THE WORK ZONE AND SHALL BE ACTED UPON AS PER THE DEMO KEY NOTES UNLESS OTHERWISE INDICATED TO REMAIN.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION PLAN - AREA 'B'

DRAWING BY:	RP
CHECK BY:	LW

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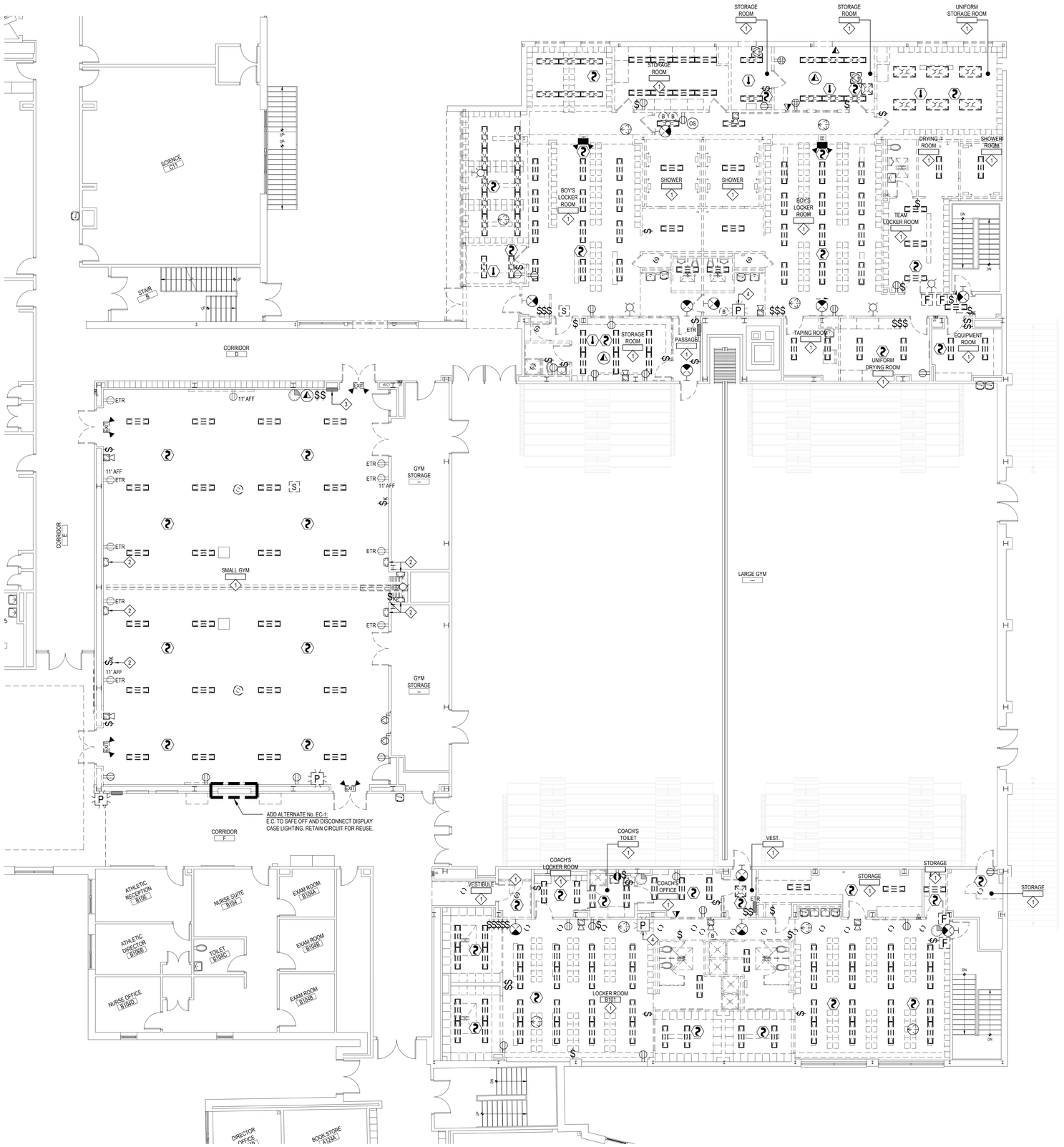
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	DEMOLITION PLAN - AREA 'B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E1.02



AREA 'C' FIRST FLOOR DEMOLITION PLAN

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

ELECTRICAL DEMOLITION KEY NOTES:

1. ALL EXISTING INTERIOR ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO: EXIT SIGNS, EMERGENCY LIGHTS AND REMOTE HEADS, EMERGENCY LIGHTING BATTERY PACKS, WALL MOUNTED AND CEILING MOUNT OCCUPANCY SENSORS, SWITCHES, RECEPTACLES, DATA DROPS, PHONE DROPS, RACEWAY, CLOCKS, PHONES, EMERGENCY CALL BUTTON SYSTEM, FIRE ALARM DEVICES, PUBLIC ADDRESS DEVICES, SECURITY SYSTEM DEVICES TO BE DE-ENERGIZED AND REMOVED BY THE E.C. ALL EXISTING INTERIOR RECESSED, SURFACE, WALL, AND PENDANT MOUNTED LIGHTING FIXTURES TO BE DE-ENERGIZED AND REMOVED BY THE E.C. WHERE CIRCUIT DOES NOT SERVE AN AREA OR DEVICE THAT IS EXISTING TO REMAIN, E.C. TO REMOVE WIRING BACK TO SOURCE. WHERE CIRCUIT DOES SERVE AND AREA OR DEVICE THAT IS EXISTING TO REMAIN, PRESERVE CONTINUITY ACCOMMODATING NEW FLOORING, PATCHING, AND/OR FINISHES. ALL DEMOLISHED MECHANICAL AND PLUMBING EQUIPMENT SHALL BE DE-ENERGIZED AND HAVE THEIR EXISTING POWER CIRCUITS REMOVED BACK TO THEIR SOURCES. SEE MECHANICAL AND PLUMBING DRAWINGS FOR MORE DETAILS.
2. E.C. TO SAFE-OFF, DISCONNECT, AND REMOVE ALL ELECTRICAL DEVICES(MOTOR, SENSORS, LIGHTS, KEY SWITCHES, ETC) AND CONTROLS RELATED TO THE GYM PARTITION. PULL CIRCUITS BACK TO SOURCE AND LABEL BREAKER AS "SPARE".
3. E.C. TO DE-ENERGIZE, DISCONNECT, PULL BACK, AND PROTECT EXISTING BRANCH AND FEEDER WIRING OF EXISTING PANEL 'GB' FOR THE REMOVAL OF EXISTING CIRCUIT BREAKERS AND BUSES. CLEAN THE EXISTING BACK BOX (CLEAN OUT ALL ACCUMULATED DUST) AND BRUSH PRIME RUSTOLEUM PAINT. THE EXISTING PANEL 'GB' IS 120/208V AC, 200 AMP, 3PH, 4W, MLO WITH (9) 15A, AND (17) 20 AMP CIRCUIT BREAKERS. FIELD VERIFY ALL EXISTING PANEL CHARACTERISTICS. SEE E4.03 FOR NEW PANEL CHARACTERISTICS.
4. EXISTING LOOKDOWN STROBE AND PULL STATION TO BE DISCONNECTED, REMOVED, AND PRESERVED FOR REINSTALLATION BY THE E.C. SYSTEM IS INTERCONNECTED WITH LOCAL POLICE AND EMERGENCY SERVICES. COORDINATE ALL RELATED WORK WITH DISTRICT.

ELECTRICAL GENERAL DEMOLITION NOTES:

1. NOT ALL DEVICES COULD BE FOUND DURING SURVEY, ADDITIONAL SIMILAR DEVICES MAY EXIST IN THE WORK ZONE AND SHALL BE ACTED UPON AS PER THE DEMO KEY NOTES UNLESS OTHERWISE INDICATED TO REMAIN.

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION PLAN - AREA 'C'

DRAWING BY: RP

CHECK BY: LW

NOTICE

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE DEMOLITION PLAN - AREA 'C'

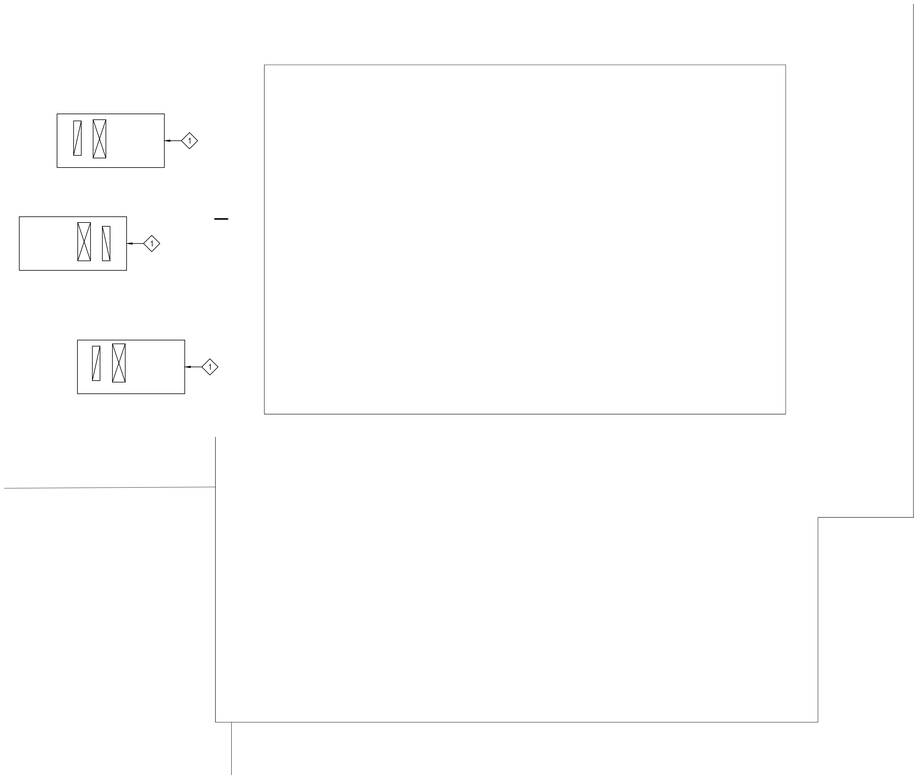
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

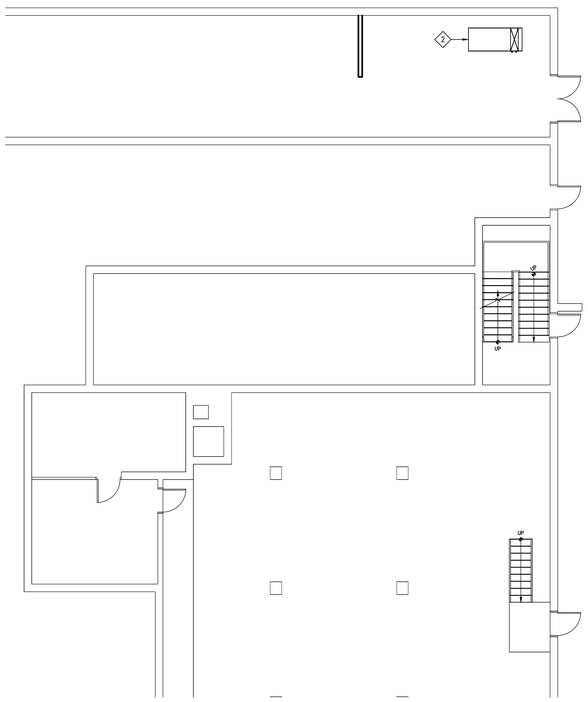
FILE No: 23-131a FLHS

E1.03



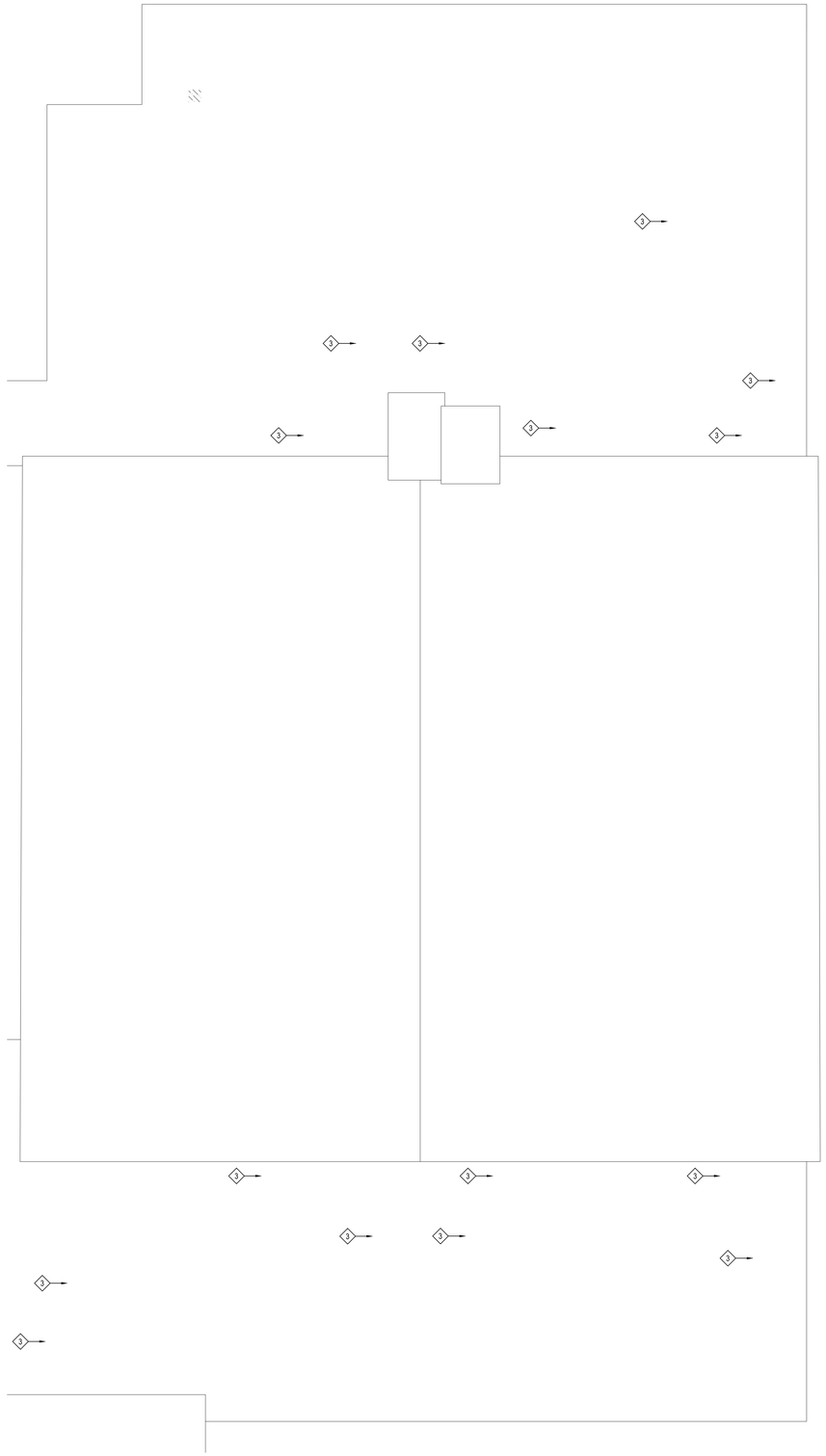
AREA "A/ B" ROOF DEMOLITION PLAN

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



AREA "C" BASEMENT DEMOLITION PLAN

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



AREA "C" ROOF DEMOLITION PLAN

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

ELECTRICAL DEMOLITION KEY NOTES:

1. E.C. TO SAFE-OFF AND DISCONNECT POWER TO EXISTING RTU. PULL BACK CIRCUIT TO SOURCE AND LABEL BREAKER AS 'SPARE'.
2. E.C. TO SAFE-OFF AND DISCONNECT POWER TO EXISTING CEILING HUNG AIR HANDLER. PULL BACK CIRCUIT TO SOURCE AND LABEL BREAKER AS 'SPARE'.
3. E.C. TO SAFE-OFF AND DISCONNECT POWER TO EXISTING EXHAUST FAN. PULL BACK CIRCUIT TO SOURCE AND LABEL BREAKER AS 'SPARE'.

REV.	DATE	ITEM

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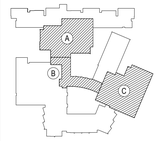

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

DEMOLITION PLAN - AREAS 'A/B AND C'

DRAWING BY:	RP
CHECK BY:	LW

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SED No:	66-01-02-06-0-003-024
DISTRICT:	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT:	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE:	DEMOLITION PLAN - AREAS 'A/B AND C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E1.04

SITE PLAN - FIELD #4 REST ROOM BUILDING

SCALE: 1"=10'-0"

REV.	DATE	ITEM
1	03/12/25	BID ADDENDUM No. 3

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KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: SITE PLAN
FIELD #4 REST ROOM BUILDING

DRAWING BY: RP
CHECK BY: LW

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: SITE PLAN FIELD #4 RESTROOM BUILDING

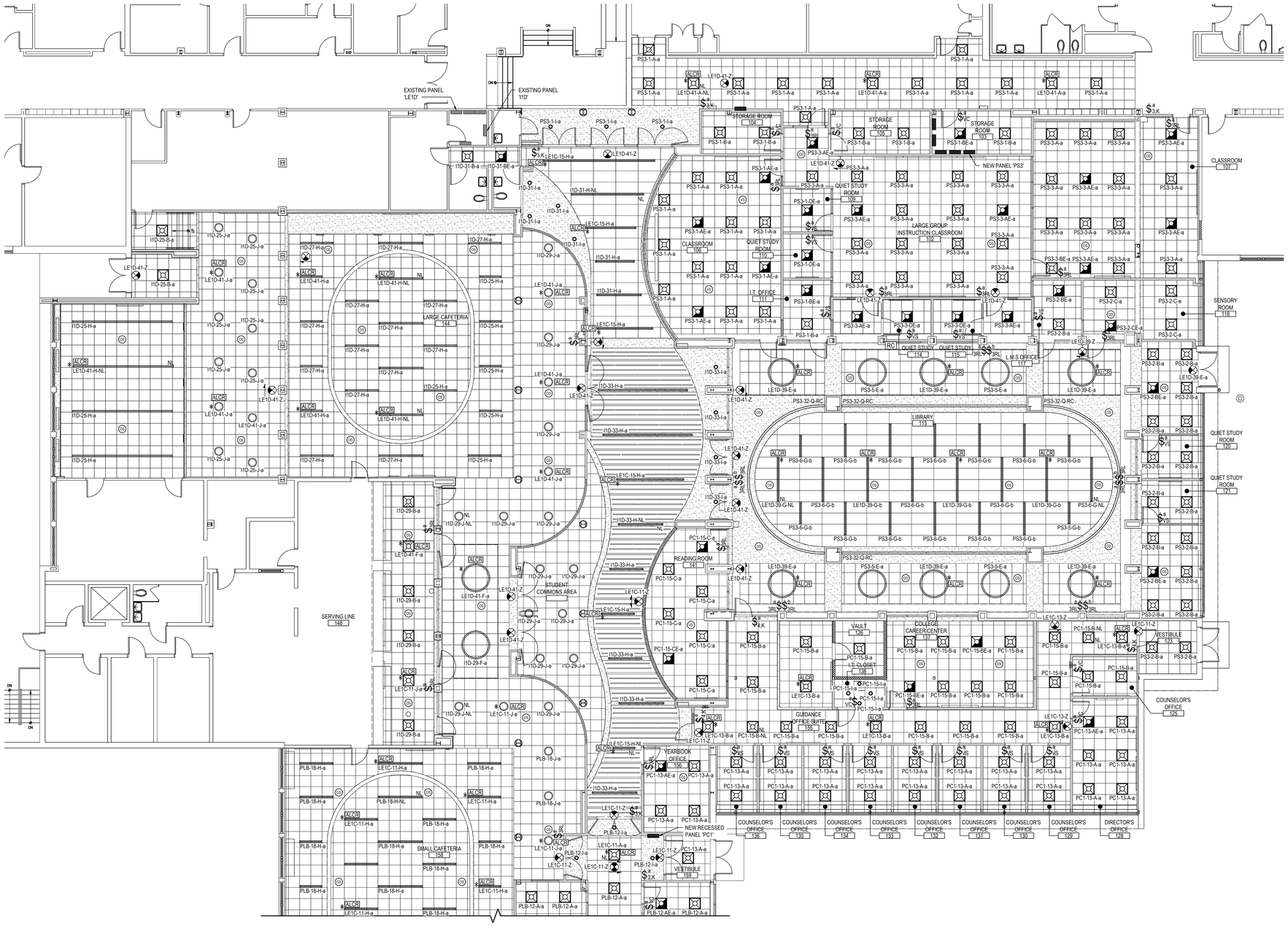
SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

E2.01



AREA 'A' FIRST FLOOR PROPOSED PLAN

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

ELECTRICAL PROPOSED GENERAL NOTES:

1. ALL LIGHT FIXTURES DENOTED WITH AN ASTERISK * SHALL BE WIRED TO EMERGENCY GENERATOR PANEL SHOWN BY LIGHT FIXTURE WIRING FORMAT. THE EXISTING GENERATOR MET NFPA 110 REQUIREMENT (LESS THAN 10 SECONDS TO PROVIDE EMERGENCY LIGHTING).

2. CONTRACTOR SHALL PROVIDE SEPARATELY WIRES FOR EMERGENCY FIXTURES (WITH HATCH) BATTERY RECHARGE.

3. E.C. TO PROVIDE POWER PACKS FOR ALL NEW LIGHTING AS REQUIRED. SEE DRAWING E7.02 FOR LIGHTING CONTROL DETAILS.

4. CONTRACTOR SHALL CONNECT THE EMERGENCY LIGHTING UNITS DIRECTLY TO THE ASSOCIATED LIGHTING CIRCUIT BREAKERS AHEAD OF ALL LIGHTING CONTROLS SO THAT ON A TRIP OR DELIBERATE TURN OFF OF THE FEED/BREAKERS THE EMERGENCY LIGHTS SHALL TURN ON WITHIN 10 SECONDS. THE EMERGENCY BATTERY SHALL LAST MINIMUM 90 MINUTES.

5. CONTRACTOR SHALL CONNECT THE EXIT SIGNS DIRECTLY TO THE ASSOCIATED LIGHTING CIRCUITS AHEAD OF ANY LIGHTING SWITCHES, CONTACTORS, ETC.. THE EXIT SIGNS BATTERY SHALL LAST MINIMUM 90 MINUTES.

LIGHTING SCHEDULE

TYPE	SYMBOL	DESCRIPTION
A		2'x2' RECESSED LIGHTING TROFFER BY DAY-BRITE. 22 WATTS, 3500K, 3000 LUMENS. MODEL #2FGXG-30L-835-2-RS-UNV-DIM
AE		2'x2' RECESSED LIGHTING TROFFER W/90 MIN EMERGENCY BATTERY PACK BY DAY-BRITE. 22 WATTS, 3500K, 3000 LUMENS. MODEL #2FGXG-30L-835-2-RS-UNV-DIM-BSL6LST
B		2'x2' RECESSED LIGHTING TROFFER BY DAY-BRITE. 28 WATTS, 3500K, 3800 LUMENS. MODEL #2FGXG-38L-835-2-RS-UNV-DIM
BE		2'x2' RECESSED LIGHTING TROFFER W/90 MIN EMERGENCY BATTERY PACK BY DAY-BRITE. 28 WATTS, 3500K, 3800 LUMENS. MODEL #2FGXG-38L-835-2'-RS-UNV-DIM-BSL6LST
C		2'x2' RECESSED LIGHTING TROFFER BY DAY-BRITE. 34 WATTS, 3500K, 4500 LUMENS. MODEL #2FGXG-45L-835-2-RS-UNV-DIM
CE		2'x2' RECESSED LIGHTING TROFFER W/90 MIN EMERGENCY BATTERY PACK BY DAY-BRITE. 34 WATTS, 3500K, 4500 LUMENS. MODEL #2FGXG-45L-835-2'-RS-UNV-DIM-BSL6LST
DE		2'x2' RECESSED LIGHTING TROFFER W/90 MIN EMERGENCY BATTERY PACK BY DAY-BRITE. 43 WATTS, 3500K, 5400 LUMENS. MODEL #2FGXG-54L-835-2'-RS-UNV-DIM-BSL6LST
E		5' RING LIGHTING FIXTURE BY CORONET LED. 110 WATTS, 3500K, 7359 DIRECT, 8463 INDIRECT LUMENS. MODEL #RING-UPDN-5-35-HIGH-HIGH-UNV-DB-W-AC CENT-SD/SD-DC-CANX
F		5' RING LIGHTING FIXTURE BY CORONET LED. 90 WATTS, 3500K, 6248 DIRECT, 7186 INDIRECT LUMENS. MODEL #RING-UPDN-5-35-MED-MED-UNV-DB-W-AC CENT-SD/SD-DC-CANX
G		RECESSED ARCHITECTURAL LUMINAIRE BY CORONET LED. 13 WATTS/FT, 0-10 DIMMING DRIVER, 1173 LUMENS/FT. LENGTH OF FIXTURE VARIES BY SECTION. MODEL #LSR6-LENGTH-35-HIGH-UNV-DB-W-T15-FL
H		RECESSED ARCHITECTURAL LUMINAIRE BY CORONET LED. 5.5 WATTS/FT, 0-10 DIMMING DRIVER, 593 LUMENS/FT. LENGTH OF FIXTURE VARIES BY SECTION. MODEL #LSR3-LENGTH-35-MED-UNV-DB-W-T15-FL
I		4-INCH LED DOWNLIGHT BY CSL LIGHTING. 12.3W, 0-10 DIMMING DRIVER, 1485 LUMENS. MODEL #NU4-RD-SW-15LM-35K-80-50D-CL-WH-WH-NC-UNV-DIM10
J		18" DECORATIVE LUMINAIRE BY CORONET LED. 32 WATTS, 3500K, 2230 LUMENS. MODEL #RRD-18-35-HIGH-UNV-DB-WHITE-T15-SD
K		CURVED ARCHITECTURAL LUMINAIRE BY CORONET LED. 15 WATTS/FT, 3500K, 1561 LUMENS/FT. MODEL #LS2 CURVE UPDN-135-35-HIGH-UNV-DB-W-AC
L		MAGNETO TRACK BY CORONET LED. 2 DRIVER CIRCUITS PER TRACK SECTION. MODEL #MAG-TRK-30FT-NA-UNV-DR90-W-SM
M		MAGNETIC LINEAR FIXTURE BY CORONET LED. 8 WATTS/FT, 3500K, 500 LUMENS/FT MODEL #MAG-LIN-4-35-MED-W
N		MAGNETIC SPOT LIGHT BY CORONET LED. 17 WATTS, 3500K, 1040 LUMENS MODEL #MAG-SP LRG-35K-MED-W-SP
O		PERIMETER GLOW LUMINAIRE BY CORONET LED. 7 WATTS/FT, 3500K, 568 LUMENS/FT. LENGTH OF FIXTURE VARIES BY SECTION. MODEL #PG2-LENGTH-35-MED-UNV-DB-W-T15-4"RG-NA-NA-FC
P		PERIMETER GLOW LUMINAIRE BY CORONET LED. 7 WATTS/FT, 3500K, 568 LUMENS/FT. MODEL #PG2-3'-2"-35-MED-UNV-DB-W-F-4"RG-NA-NA-FC
Q		CURVE RECESSED LUMINAIRE BY CORONET LED. RGB COLOR OUTPUT CONTROLLED BY DMX ROOM CONTROLLER 5.5 WATTS/FT, 3500K, 520 LUMENS/FT. LENGTH OF FIXTURE AND ANGLE OF CURVE VARIES BY SECTION. MODEL #LSR2.CURVE-X-RGBW35-MED-UNV-DMX-W-NT-FL
R		SURFACE MOUNTED DISPLAY CASE LIGHT FIXTURE BY LLI ARCHITECTURAL LIGHTING. 4.4WATTS/FT, 4200K, 400 LUMENS/FT. MODEL #LLI-ANG2-SF-H4.4W-42K-24V-90IN
X		EXTERIOR WALL MOUNTED LUMINAIRE W/90 MIN COLD WEATHER EMERGENCY BATTERY PACK AND PHOTOCONTROL BY GARDCO. 23W, 4000K, 3701 LUMENS, MODEL #GWM-A07-840-T3M-120-PCB-EC-BZ
Y		EMERGENCY LED LIGHT FIXTURE EXIT SIGN COMBO W/ 90-MINUTE NICAD BATTERY BY ATG LED LIGHTING MODEL #EML01-WH
Z		CEILING/WALL MOUNTED LED EXIT SIGN W/ 90-MINUTE EMERGENCY BATTERY BY ATG LED LIGHTING. MODEL #EES01-R-1-WH

1. LENGTHS OF CONTINUOUS RUNS FOR LINEAR FIXTURES VARY BY SECTION. E.C. SHALL SUBMIT SHOP DRAWINGS OF ALL CONTINUOUS RUNS FOR APPROVAL.

LIGHTING CONTROLS

SYMBOL	DESCRIPTION

$ a b #	LOW VOLTAGE WALL SWITCH BY SENSORWORX:
	• LOWER CASE LETTER (TOP) INDICATES SWITCHING DESIGNATION
	• UPPER CASE LETTER(S) OR NUMBER SUBSCRIPTS (BOTTOM):
	3 = THREE WAY SWITCH
	4 = FOUR WAY SWITCH
	K = KEY SWITCH - #SWX-KS-MOM
	M = MOMENTARY CONTACT SWITCH
	3RL = 3 BUTTON CONTROLS - MODEL #SWX-854-B-WH
	VS = VACANCY PIR SENSOR DIMMER - MODEL #SWX-103-D-WH
	VC = VACANCY PIR SENSOR SWITCH - MODEL #SWX-103-WH
	OC = OCCUPANCY PIR SENSOR SWITCH - MODEL #SWX-101-WH
	RC = ROOM CONTROLLER - NICOLAUDIE STICK-DE3

OS	CEILING MOUNTED OCCUPANCY SENSOR BY SENSORWORX. WIRE AS AUTO ON/AUTO OFF UNLESS OTHERWISE NOTED. PROVIDE POWER PACKS AS REQUIRED. MODEL #SWX-201-B
ALCR	EMERGENCY POWER CONTROL FOR DIMMABLE LOADS MODEL #SWX-EPC-A-2-D
RC	NICOLAUDIE STICK-DE3 DMX LIGHTING CONTROLLER

LIGHT FIXTURE WIRING FORMAT

	PANEL NAME/ EXISTING CIRCUIT	CKT BKR/ EXISTING CIRCUIT GROUPING	FIXTURE TYPE	SWITCH LETTER
P1-1-AE-b	"P1"	"1"	"AE"	"b"
	"EX"	"EX"	"AE"	"EX"

NL = NIGHT LIGHT.
FIXTURE TO BE WIRED AHEAD OF ALL SWITCHING TO PROVIDE CONTINUOUS ILLUMINATION

REV.	DATE	ITEM

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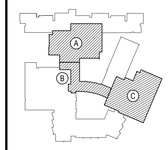

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
PROPOSED
LIGHTING PLAN - AREA 'A'

DRAWING BY: RP
CHECK BY: LW

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DWG TITLE	PROPOSED LIGHTING PLAN - AREA 'A'
SCALE:	AS NOTED
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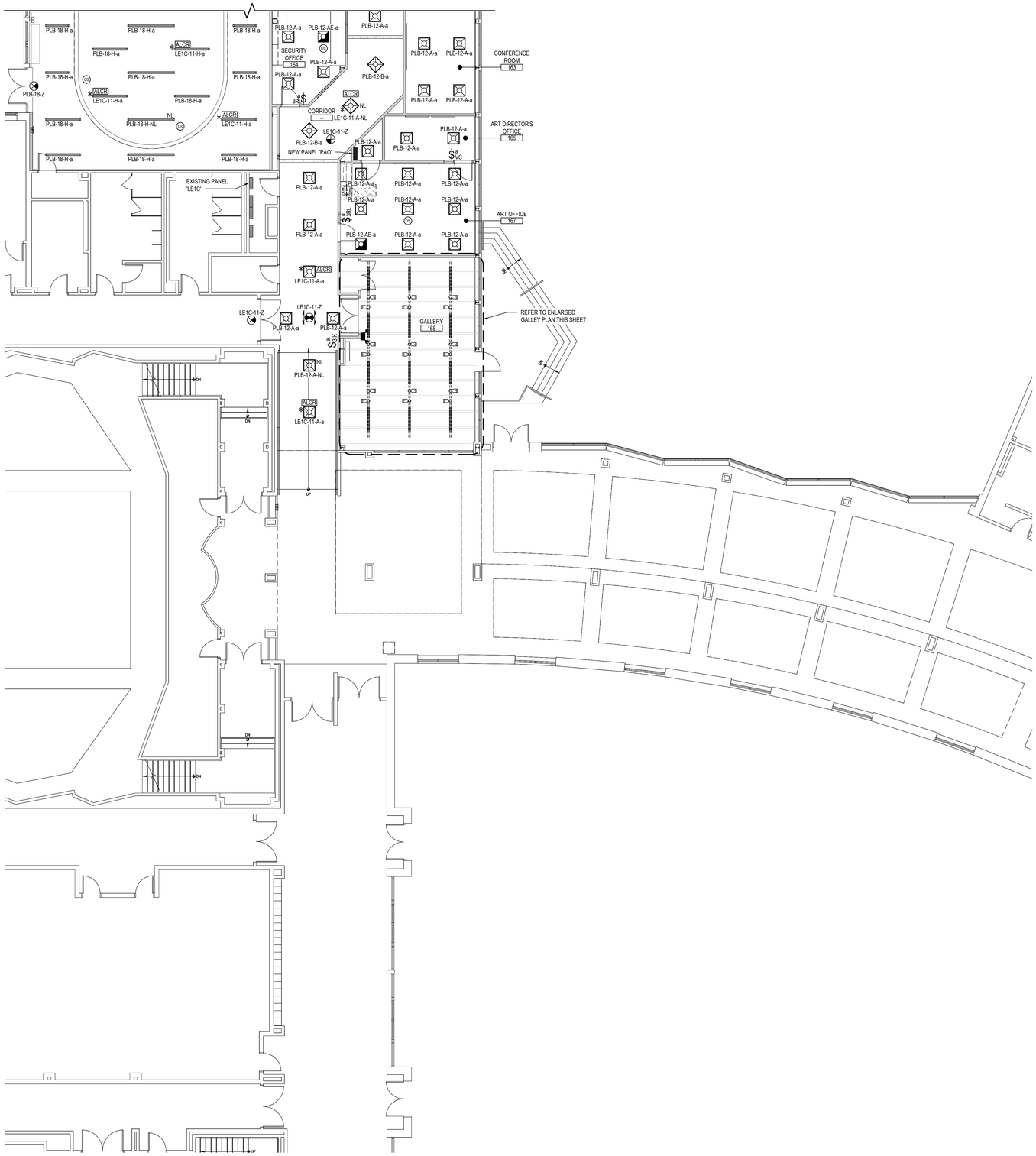
E3.01



AREA 'B' FIRST FLOOR PROPOSED PLAN

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

ELECTRICAL PROPOSED GENERAL NOTES:

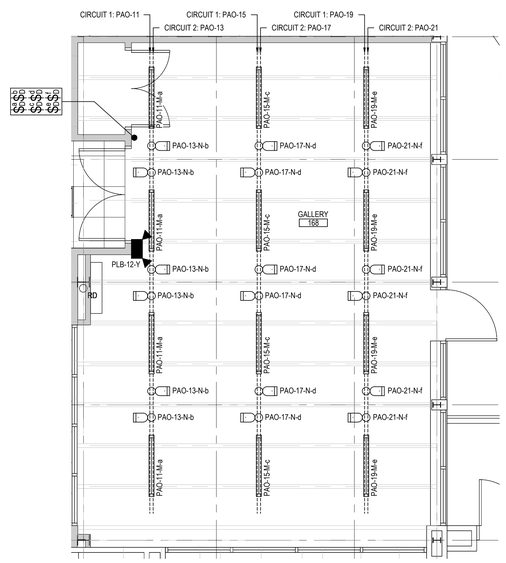
1. ALL LIGHT FIXTURES DENOTED WITH AN ASTERISK * SHALL BE WIRED TO EMERGENCY GENERATOR PANEL SHOWN BY LIGHT FIXTURE WIRING FORMAT. THE EXISTING GENERATOR MET NFPA 110 REQUIREMENT (LESS THAN 10 SECONDS TO PROVIDE EMERGENCY LIGHTING).

2. SEE DRAWING E7.02 FOR LIGHTING CONTROL DETAILS.

3. REFER TO DRAWING E3.01 FOR FULL LIGHT FIXTURE AND LIGHTING CONTROL SCHEDULE.

LIGHT FIXTURE WIRING FORMAT

	PANEL NAME/ EXISTING CIRCUIT	CKT BKR/ EXISTING CIRCUIT GROUPING	FIXTURE TYPE	SWITCH LETTER
P1-1-AE-b	"P1"	"1"	"AE"	"b"
	"EX"	"1"	"AE"	"b"



ENGLARGED GALLERY PLAN

NOTE: REFER TO FIXTURE 'L' ON E3.01 FOR TRACK INFORMATION AND MODEL#

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

REV.	DATE	ITEM

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KEY PLAN

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PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED
LIGHTING PLAN - AREA 'B'

DRAWING BY: RP
CHECK BY: LW

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DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE PROPOSED LIGHTING PLAN - AREA 'B'

SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

E3.02

AREA 'C' FIRST FLOOR PROPOSED PLAN

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

ELECTRICAL PROPOSED GENERAL NOTES:

1. ALL LIGHT FIXTURES DENOTED WITH AN ASTERISK * SHALL BE WIRED TO EMERGENCY GENERATOR PANEL SHOWN BY LIGHT FIXTURE WIRING FORMAT. THE EXISTING GENERATOR MET NFPA 110 REQUIREMENT (LESS THAN 10 SECONDS TO PROVIDE EMERGENCY LIGHTING).

2. SEE DRAWING E7.02 FOR LIGHTING CONTROL DETAILS.

3. REFER TO DRAWING E3.01 FOR FULL LIGHT FIXTURE AND LIGHTING CONTROL SCHEDULE.

LIGHT FIXTURE WIRING FORMAT

	PANEL NAME/ EXISTING CIRCUIT	CKT BKR/ EXISTING CIRCUIT GROUPING	FIXTURE TYPE	SWITCH LETTER
P1-1-AE-b	"P1"	"1"	"AE"	"b"
	"EX"	"1"	"AE"	"b"

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DWG TITLE

PROPOSED
LIGHTING PLAN - AREA 'C'

DRAWING BY: RP

CHECK BY: LW

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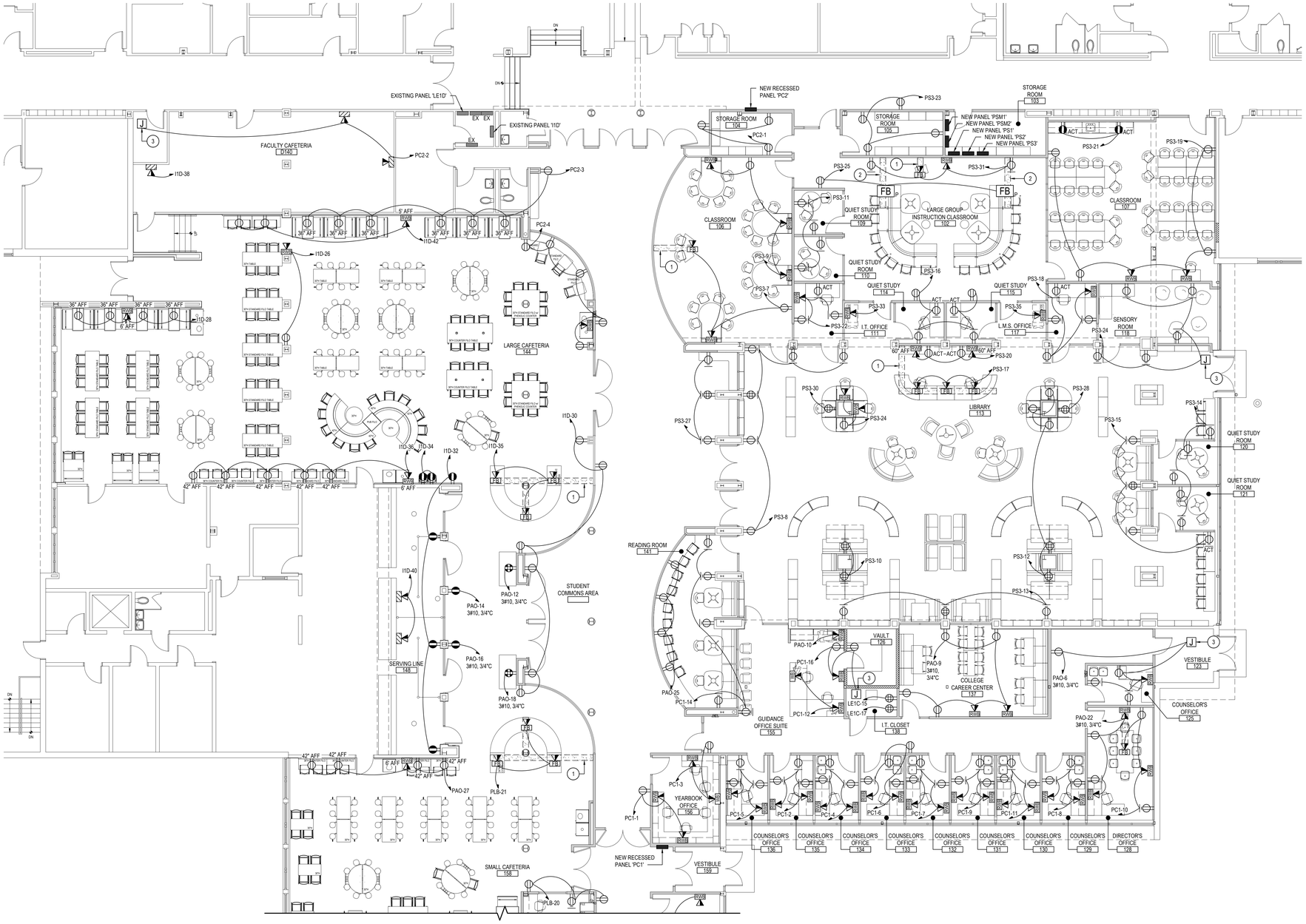
FILE No:	23-131a FLHS

E3.03



AREA 'A' FIRST FLOOR PROPOSED PLAN

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

ELECTRICAL PROPOSED KEY NOTES:

1. TRENCH BY E.C. E.C. TO RUN FROM INSIDE NEW WALL TO NEW FLOOR BOXES IN TRENCH
   (1) 1 1/2" CONDUIT FOR NEW POWER CIRCUIT
   (1) 1 1/2" CONDUIT FOR NEW DATA WIRING
2. TRENCH BY E.C. E.C. TO RUN FROM INSIDE NEW WALL TO NEW FLOOR BOXES IN TRENCH
   (1) 1 1/2" CONDUIT FOR NEW POWER CIRCUIT
3. PROVIDE AND INSTALL JUNCTION BOX FOR CARD ACCESS CONTROLLERS AND MOUNT ABOVE CEILING. SEE TECHNOLOGY PLANS FOR MORE INFORMATION.

FLOOR BOX CONSTRUCTION NOTES:

1. POWER AND DATA SERVICE WILL BE SUPPLIED TO FLOOR EQUIPMENT VIA FLOOR BOXES AND CONDUITS AS DESCRIBED AS FOLLOWS.

2. THE FLOOR BOXES ARE FOUR-COMPARTMENT CAST-IRON COMBINATION FLOOR BOX. THE BOX WILL CONTAIN VARIOUS WIRING SERVICES, SEE TECHNOLOGY DRAWING FOR MORE DETAILS, ALL IN QUANTITIES AS REQUIRED FOR THE SPECIFIC LOCATION/LOAD SUPPLIED.

3. THE EXISTING SITE CONCRETE FLOOR IS TO BE SAW CUT BY GENERAL CONTRACTOR FROM THE WALL TO BOX LOCATION AS REQUIRED. THE FLOOR IS EXPECTED TO BE 4 INCHES THICK, BUT THIS THICKNESS IS NOT CONFIRMED. THE SLOT FOR THE CONDUITS SHALL BE 12 INCHES WIDE. THE FLOOR BOX HOLE SHALL BE 18 INCHES BY 18 INCHES, MINIMUM, OR LARGER AS REQUIRED. PROVIDE A CONCRETE FOUNDATION BLOCK UNDER THE FLOOR BOX TO PROVIDE BEARING STRENGTH. PROVIDE BLOCKS UNDER THE CONDUITS AS REQUIRED TO STABILIZE AND POSITION THEM FOR FLOOR RESTORATION. PLACE CONDUITS IN THE SAND BELOW THE FLOOR POUR WITH 4" SAND OVER THE CONDUITS. USE SCHEDULE 40 PVC CONDUITS. UTILIZE THE FLOOR BOX ADJUSTING LEG SCREWS TO LEVEL THE BOX TO BE FLUSH WITH FLOOR WITH THE COVER INSTALLED, AS PER MANUFACTURER'S INSTRUCTIONS.

4. OBSERVE CAT-6 MINIMUM BENDING RADIUS IN DATA CONDUITS.

REV.	DATE	ITEM

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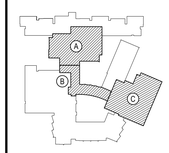

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED
POWER PLAN - AREA 'A'

DRAWING BY: RP
CHECK BY: LW

NOTICE

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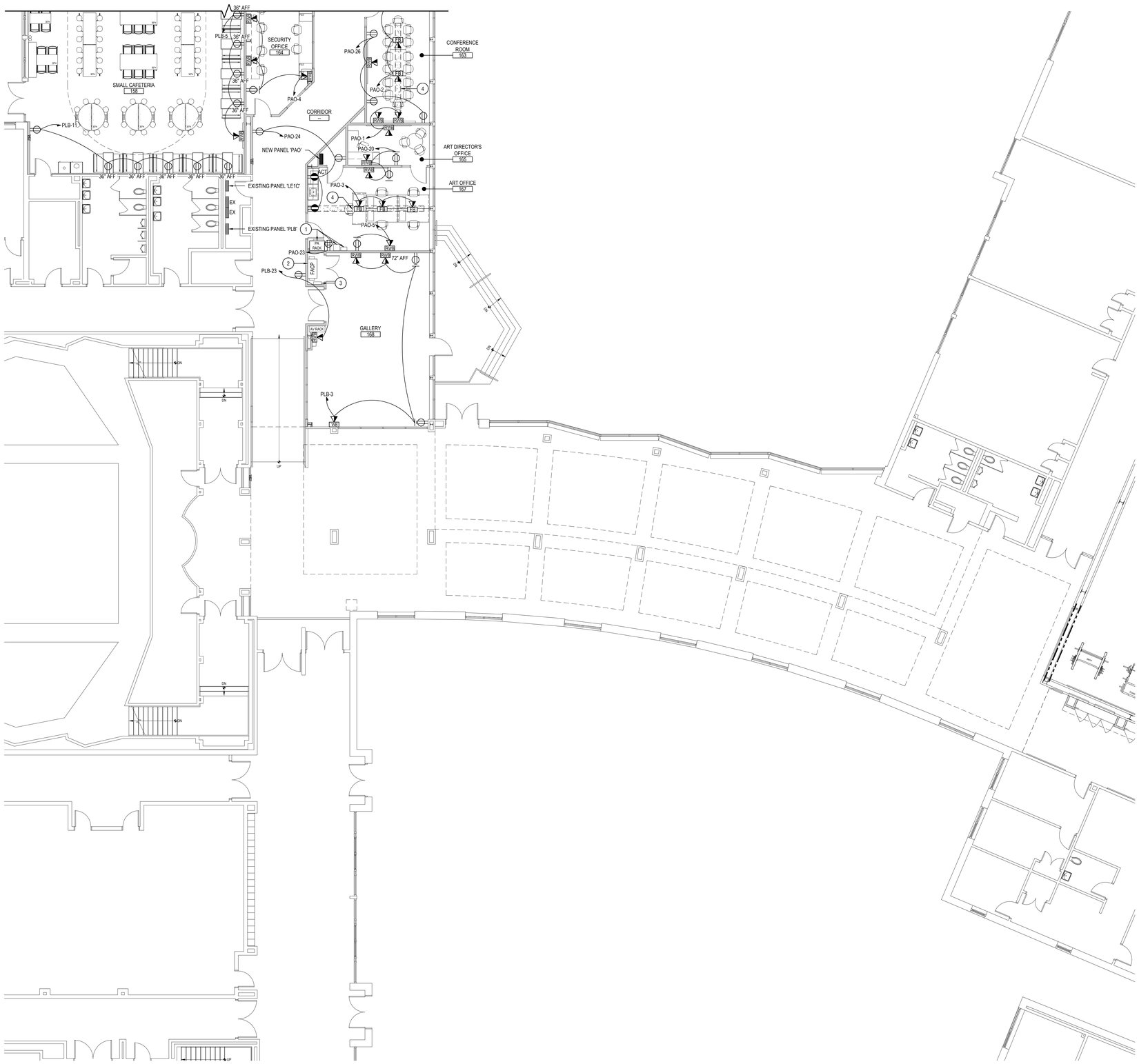
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED POWER PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E4.01



AREA 'B' FIRST FLOOR PROPOSED PLAN

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

ELECTRICAL PROPOSED KEY NOTES:

1. E.C. TO REINSTALL RETAINED PA RACK, RADIO TRANSCEIVER, AND WIRELESS PAGING CONTROLLER INTO NEW ART OFFICE.
2. E.C. TO REINSTALL FACP INTO NEW ART GALLERY CLOSET AND WIRE TO GENERATOR POWERED PANEL. RECONNECT ALL EXISTING DEVICES TO PANEL THAT ARE STILL IN USE. EXTEND/SHORTEN WIRING AS NEEDED.
3. E.C. TO REINSTALL NAC EXTENDER AND WIRE TO GENERATOR POWERED PANEL. RECONNECT EXISTING CONNECTIONS TO EXTENDER.
4. TRENCH BY E.C. E.C. TO RUN FROM INSIDE NEW WALL TO NEW FLOOR BOXES IN TRENCH
   (1) 1 1/2" CONDUIT FOR NEW POWER CIRCUIT
   (1) 1 1/2" CONDUIT FOR NEW DATA WIRING

FLOOR BOX CONSTRUCTION NOTES:

1. POWER AND DATA SERVICE WILL BE SUPPLIED TO FLOOR EQUIPMENT VIA FLOOR BOXES AND CONDUITS AS DESCRIBED AS FOLLOWS.

2. THE FLOOR BOXES ARE FOUR-COMPARTMENT CAST-IRON COMBINATION FLOOR BOX. THE BOX WILL CONTAIN VARIOUS WIRING SERVICES, SEE TECHNOLOGY DRAWING FOR MORE DETAILS, ALL IN QUANTITIES AS REQUIRED FOR THE SPECIFIC LOCATION/LOAD SUPPLIED.

3. THE EXISTING SITE CONCRETE FLOOR IS TO BE SAW CUT BY GENERAL CONTRACTOR FROM THE WALL TO BOX LOCATION AS REQUIRED. THE FLOOR IS EXPECTED TO BE 4 INCHES THICK, BUT THIS THICKNESS IS NOT CONFIRMED. THE SLOT FOR THE CONDUITS SHALL BE 12 INCHES WIDE. THE FLOOR BOX HOLE SHALL BE 18 INCHES BY 18 INCHES, MINIMUM, OR LARGER AS REQUIRED. PROVIDE A CONCRETE FOUNDATION BLOCK UNDER THE FLOOR BOX TO PROVIDE BEARING STRENGTH. PROVIDE BLOCKS UNDER THE CONDUITS AS REQUIRED TO STABILIZE AND POSITION THEM FOR FLOOR RESTORATION. PLACE CONDUITS IN THE SAND BELOW THE FLOOR POUR WITH 4" SAND OVER THE CONDUITS. USE SCHEDULE 40 PVC CONDUITS. UTILIZE THE FLOOR BOX ADJUSTING LEG SCREWS TO LEVEL THE BOX TO BE FLUSH WITH FLOOR WITH THE COVER INSTALLED, AS PER MANUFACTURER'S INSTRUCTIONS.

4. OBSERVE CAT-6 MINIMUM BENDING RADIUS IN DATA CONDUITS.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED
POWER PLAN - AREA 'B'

DRAWING BY:	RP
CHECK BY:	LW

NOTICE

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PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED POWER PLAN - AREA 'B'
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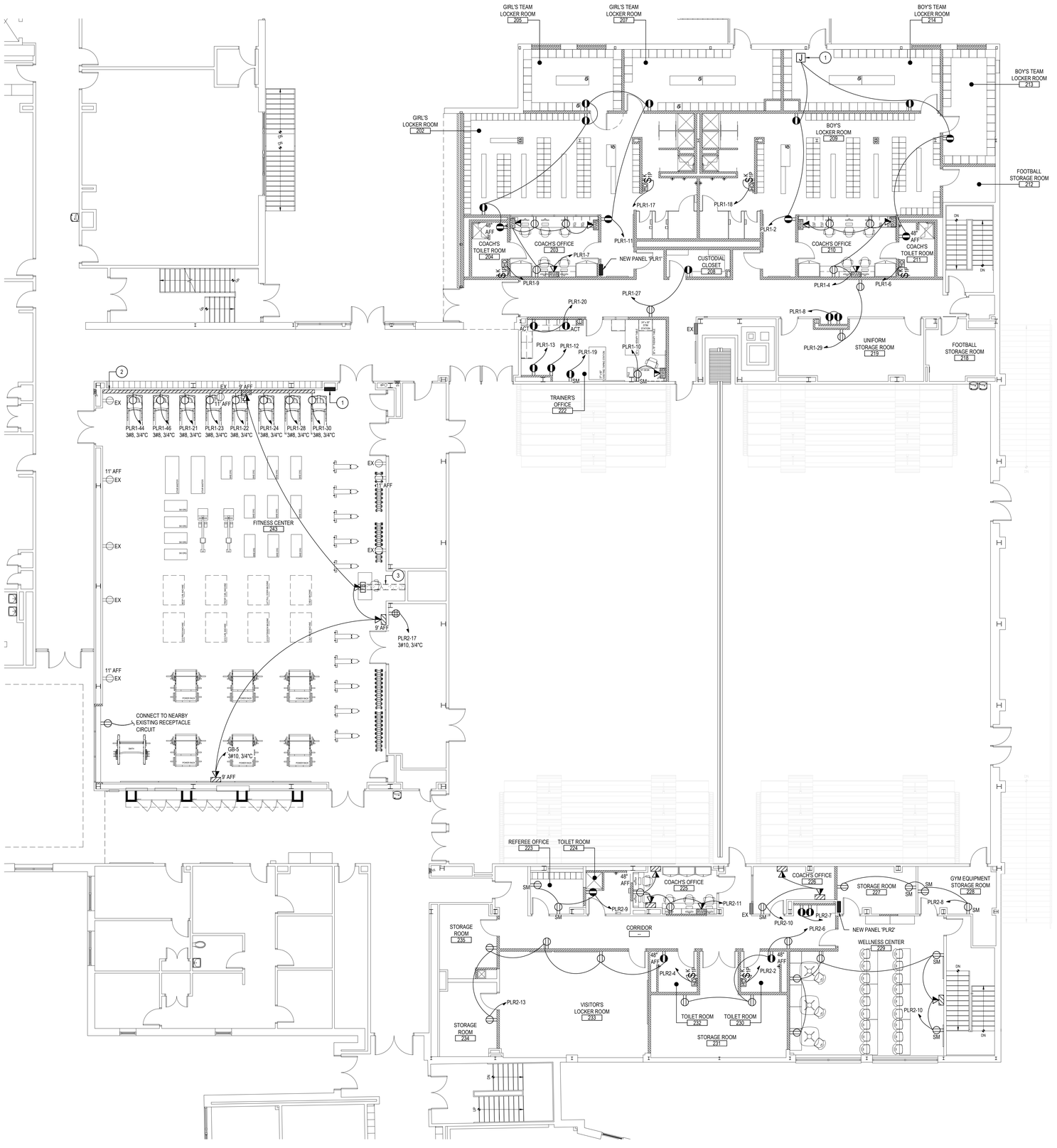

AREA 'C' FIRST FLOOR PROPOSED PLAN

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

ELECTRICAL PROPOSED KEY NOTES:

1. E.C. TO PROVIDE AND INSTALL ALL NEW BUSES, 200A, MAIN LUGS, MINIMUM 22,000 AMP SYMMETRICAL INTERRUPTING RATING, AND BOLT-ON CIRCUIT BREAKERS IN EXISTING PANEL BACK BOX. PROVIDE (9) 15A 1P BREAKERS, AND (17) 20A 1P BREAKERS FOR PANEL. PANEL SHALL BE 3Ø, 4 WIRE, 200A, MLO, NEMA 1, 26 POLE. PROVIDE AND INSTALL CUSTOM MADE COMPLETE WITH NEW FRONT COVER AND DOOR IN DOOR TO FIT IN EXISTING BACK BOX/NEW BUS ASSEMBLY/NEW COLLAR. TRAIN AND TERMINATE EXISTING BRANCH WIRING TO NEW LIKE CIRCUIT BREAKERS AND POWER FEEDER TO NEW MAIN LUGS. PIECE OUT EXISTING WIRES TO NEW PANEL AS REQUIRED USING DOUBLE INDENT HYDRAULIC CONNECTORS (SPLIT BOLT OR BUG NUT ARE DISALLOWED). TONE OUT AND IDENTIFY ALL EXISTING CIRCUITS WITH AND WITHOUT IDENTIFICATION.THE NEW PANEL MUST BE WITH NEW PRINT SCHEDULES, LOCKS, AND NAME TAGS. HAND WRITING NOT ALLOWED. LABEL PANEL AS "GB'
2. E.C. TO RUN TREADMILL CIRCUITS IN STEEL CONDUIT RAN ALONG THE FLOOR OF THE NEW FITNESS CENTER, UP THE CORNER OF THE WALL, AND THEN ABOVE THE CORRIDOR DROP CEILING AT ~8FT.
3. TRENCH BY G.C. E.C. TO RUN FROM INSIDE NEW WALL TO NEW FLOOR BOXES IN TRENCH
   (1) 1 1/2" CONDUIT FOR NEW POWER CIRCUIT
   (1) 1 1/2" CONDUIT FOR NEW DATA WIRING
4. PROVIDE AND INSTALL JUNCTION BOX FOR CARD ACCESS CONTROLLERS AND MOUNT ABOVE CEILING. SEE TECHNOLOGY PLANS FOR MORE INFORMATION.

ELECTRICAL GENERAL PROPOSED NOTES:

1. E.C. IS RESPONSIBLE FOR ALL TRENCHING AND CUTTING ASSOCIATED WITH NEW FLOOR BOXES.
2. E.C. TO PROVIDE AND INSTALL NEW RECEPTACLE AND FACE PLATE FOR ALL RECEPTACLES THAT ARE EX. PROVIDE BLANK PLATE FOR ANY RECESSED BOX WHERE DEVICE WAS PERMANENTLY REMOVED.

FLOOR BOX CONSTRUCTION NOTES:

1. POWER AND DATA SERVICE WILL BE SUPPLIED TO FLOOR EQUIPMENT VIA FLOOR BOXES AND CONDUITS AS DESCRIBED AS FOLLOWS.

2. THE FLOOR BOXES ARE FOUR-COMPARTMENT CAST-IRON COMBINATION FLOOR BOX. THE BOX WILL CONTAIN VARIOUS WIRING SERVICES, SEE TECHNOLOGY DRAWING FOR MORE DETAILS. ALL IN QUANTITIES AS REQUIRED FOR THE SPECIFIC LOCATION/LOAD SUPPLIED.

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4. OBSERVE CAT-6 MINIMUM BENDING RADIUS IN DATA CONDUITS.

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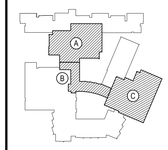

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED
POWER PLAN - AREA 'C'

DRAWING BY: RP
CHECK BY: LW

NOTICE

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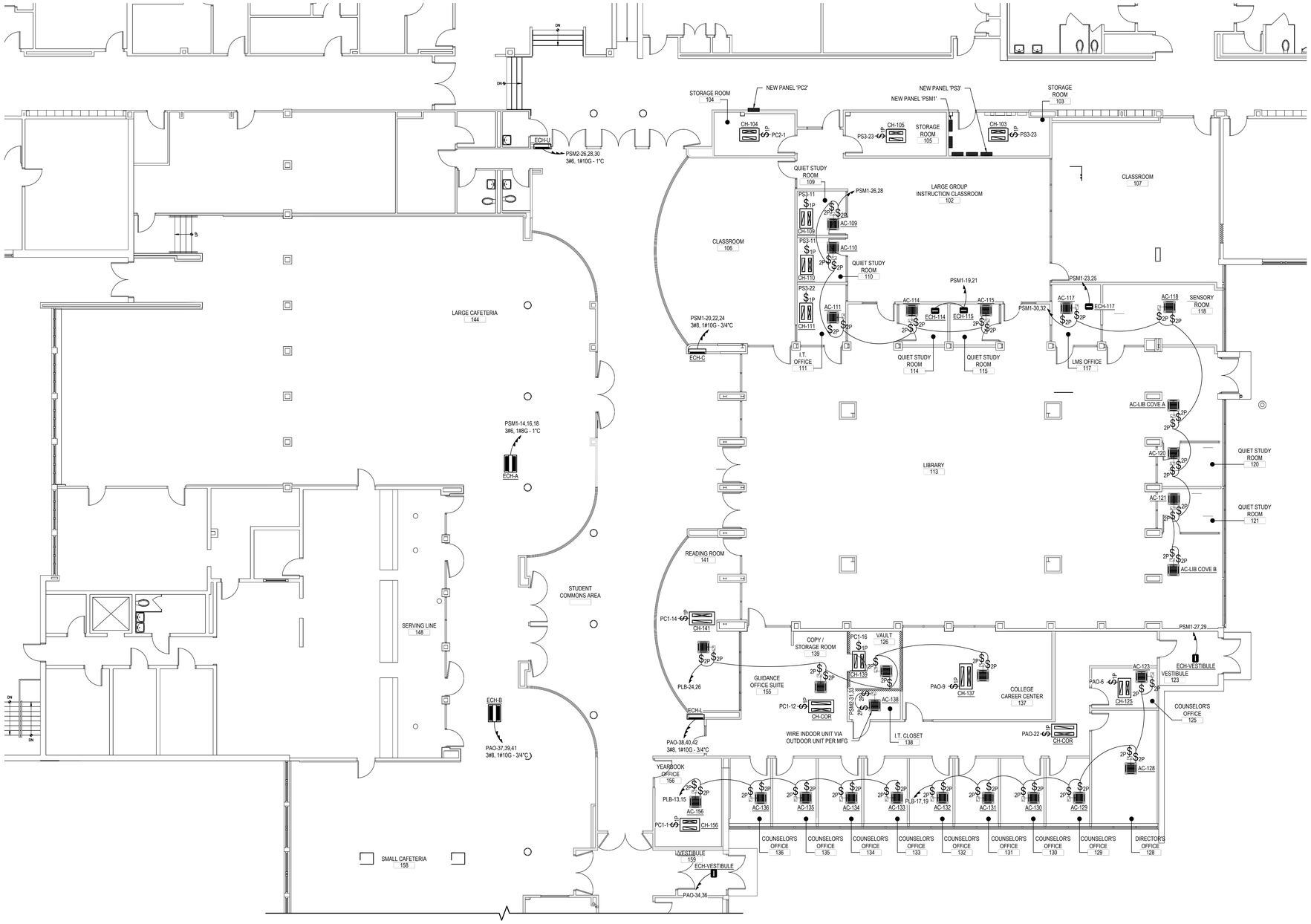
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED POWER PLAN - AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E4.03



AREA 'A' FIRST FLOOR PROPOSED PLAN

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

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BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED
MECHANICAL POWER PLAN - AREA 'A'

DRAWING BY: RP

CHECK BY: LW

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PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED MECHANICAL POWER PLAN - AREA 'A'
SCALE:	AS NOTED
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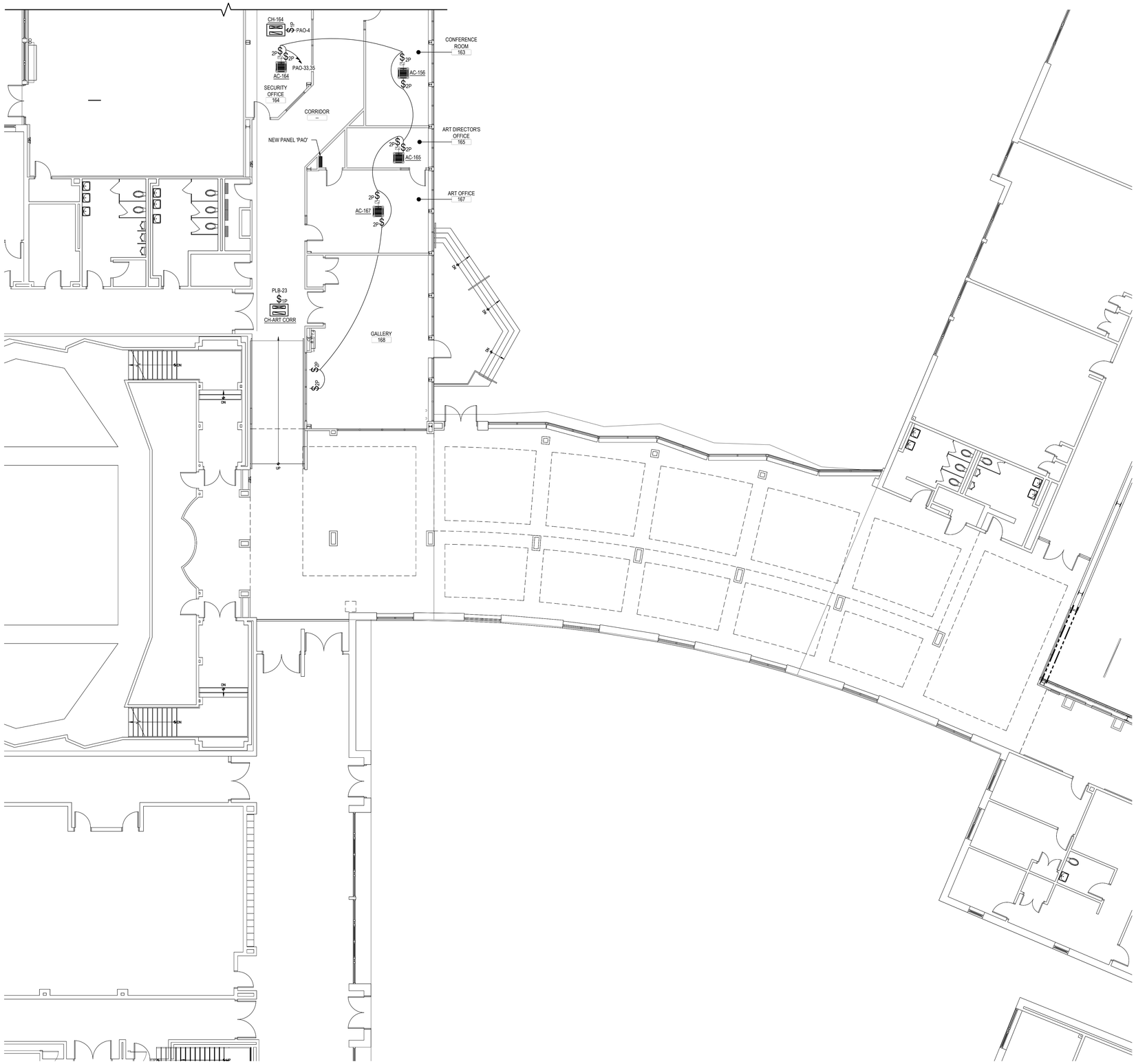

AREA 'B' FIRST FLOOR PROPOSED PLAN

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

REV.	DATE	ITEM

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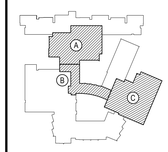

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FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

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MECHANICAL POWER PLAN - AREA 'B'

DRAWING BY: RP

CHECK BY: LW

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DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE PROPOSED MECHANICAL POWER PLAN - AREA 'B'

SCALE: AS NOTED

DATE: APRIL 2024

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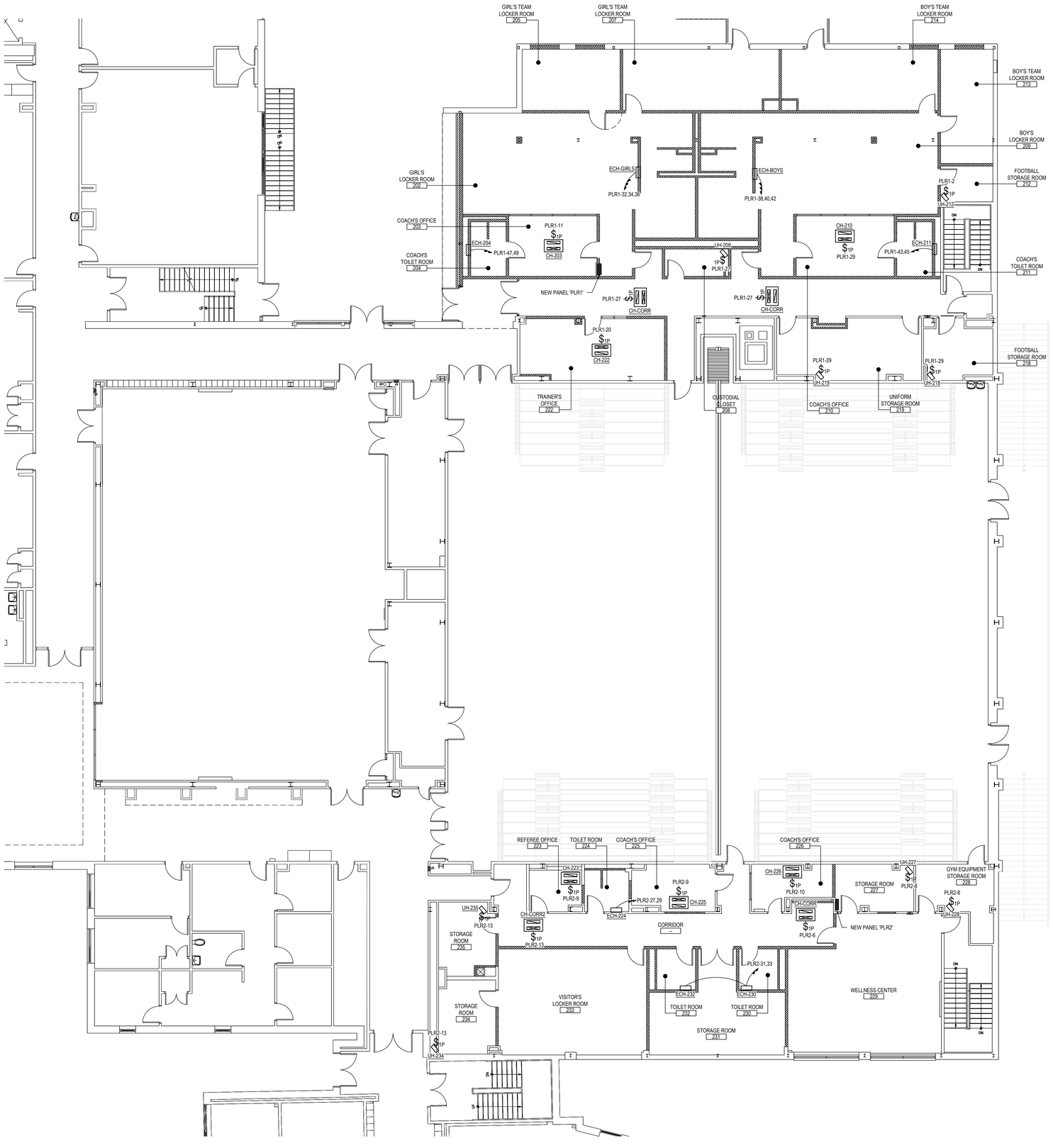

AREA 'C' FIRST FLOOR PROPOSED PLAN

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

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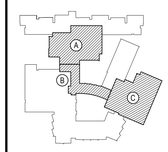

KEY PLAN

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PROPOSED
MECHANICAL POWER PLAN - AREA 'C'

DRAWING BY: RP

CHECK BY: LW

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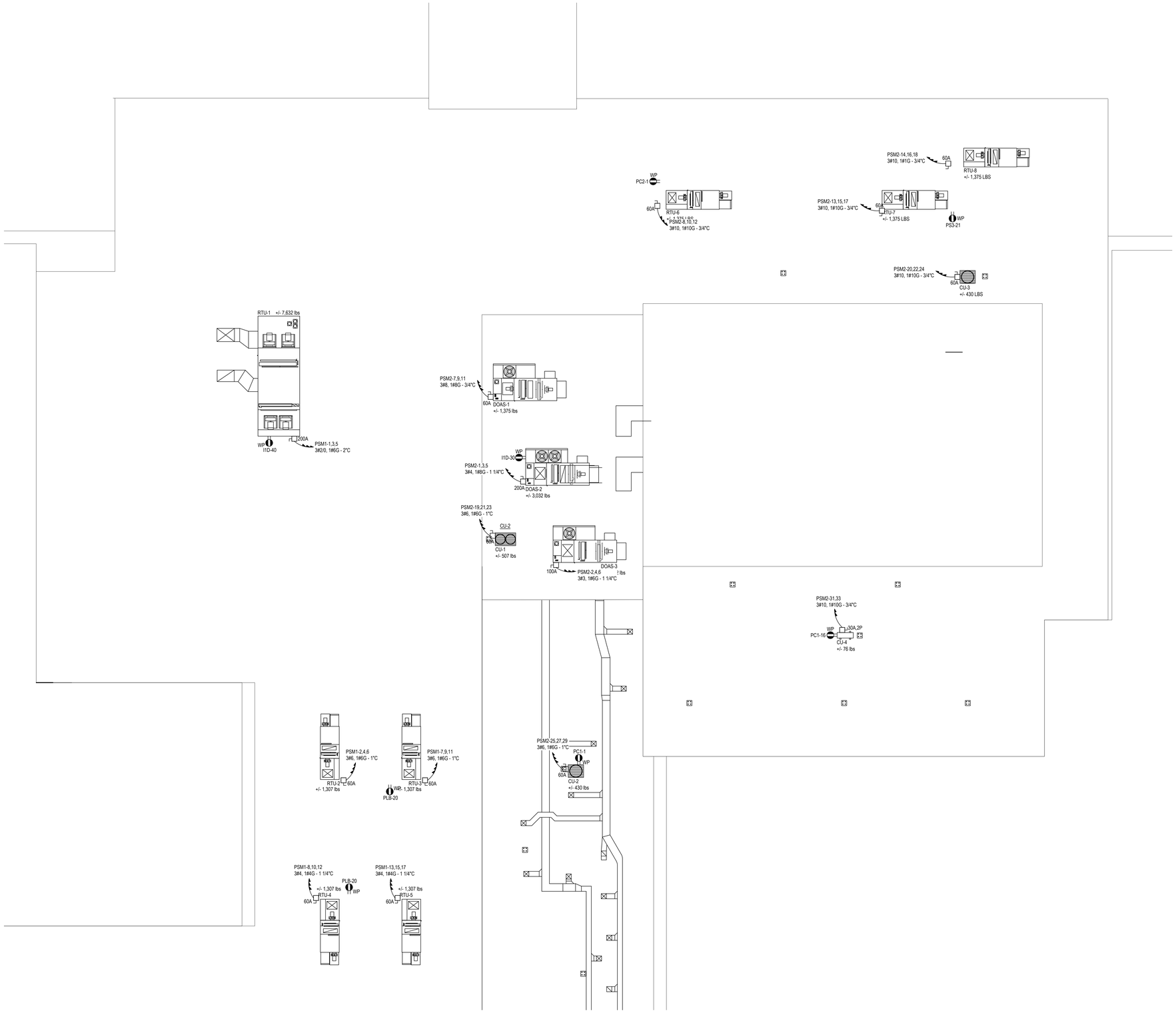
E4.06

ELECTRICAL SYMBOL LEGEND:

U.O.N. NON-FUSED, 240VAC, 3P, NEMA 3R DISCONNECT SWITCH. E.C. TO PROVIDE AND INSTALL. SIZE PER PLAN.



AREA 'A' ROOF PROPOSED PLAN

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

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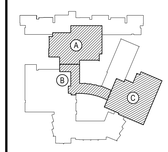

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED MECHANICAL
POWER PLAN - ROOF AREAS 'A' and B'

DRAWING BY: RP
CHECK BY: LW

NOTICE

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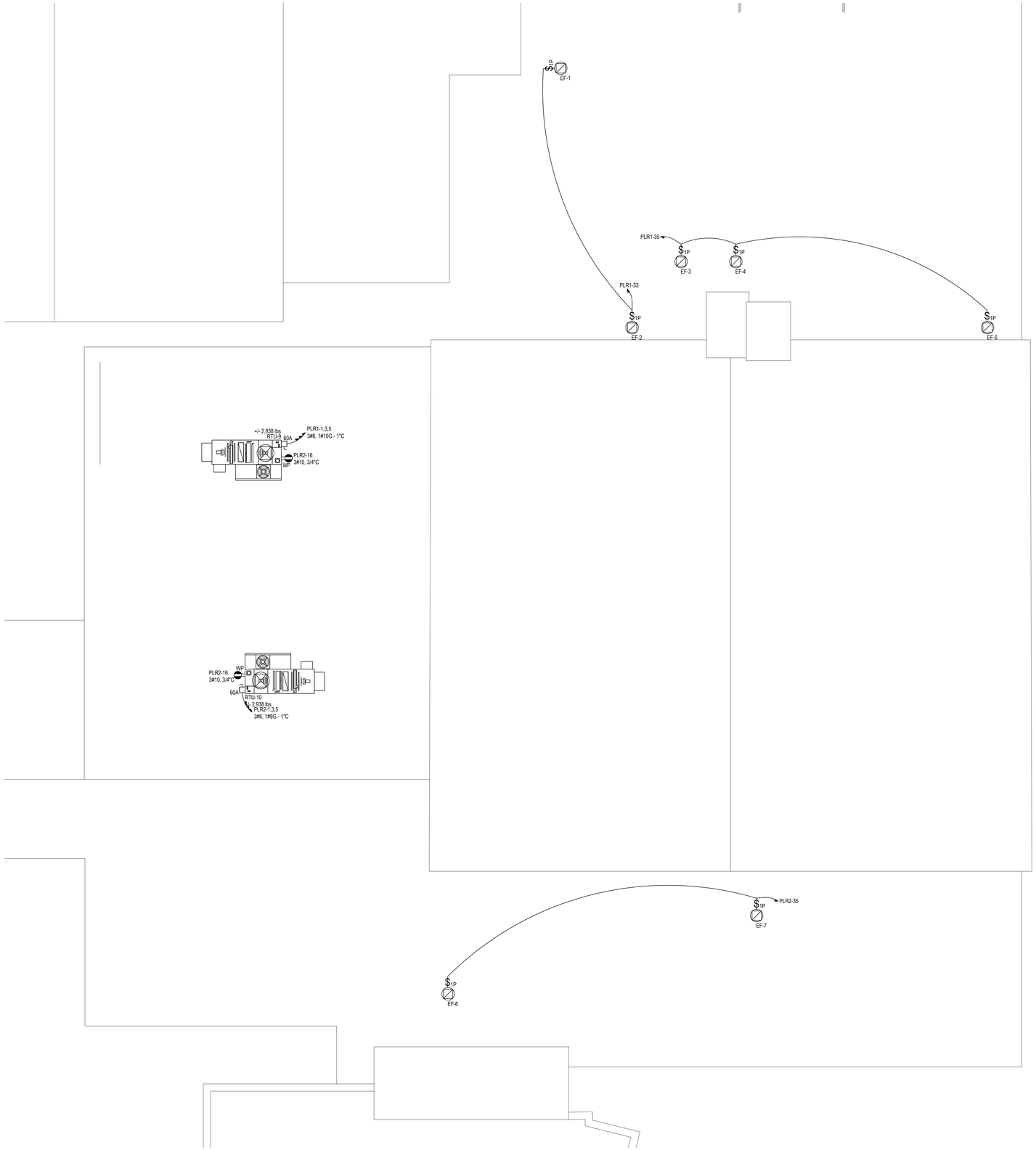
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED MECHANICAL POWER PLAN - ROOF AREAS 'A' and 'B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E4.07

ELECTRICAL SYMBOL LEGEND:

	U.O.N. NON-FUSED, 240VAC, 3P, NEMA 3R DISCONNECT SWITCH. E.C. TO PROVIDE AND INSTALL. SIZE PER PLAN.



AREA 'C' ROOF PROPOSED PLAN

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

REV.	DATE	ITEM

NOTICE

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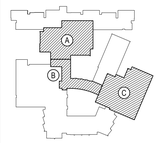

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED MECHANICAL
POWER PLAN - ROOF AREA 'C'

DRAWING BY: RP

CHECK BY:

NOTICE

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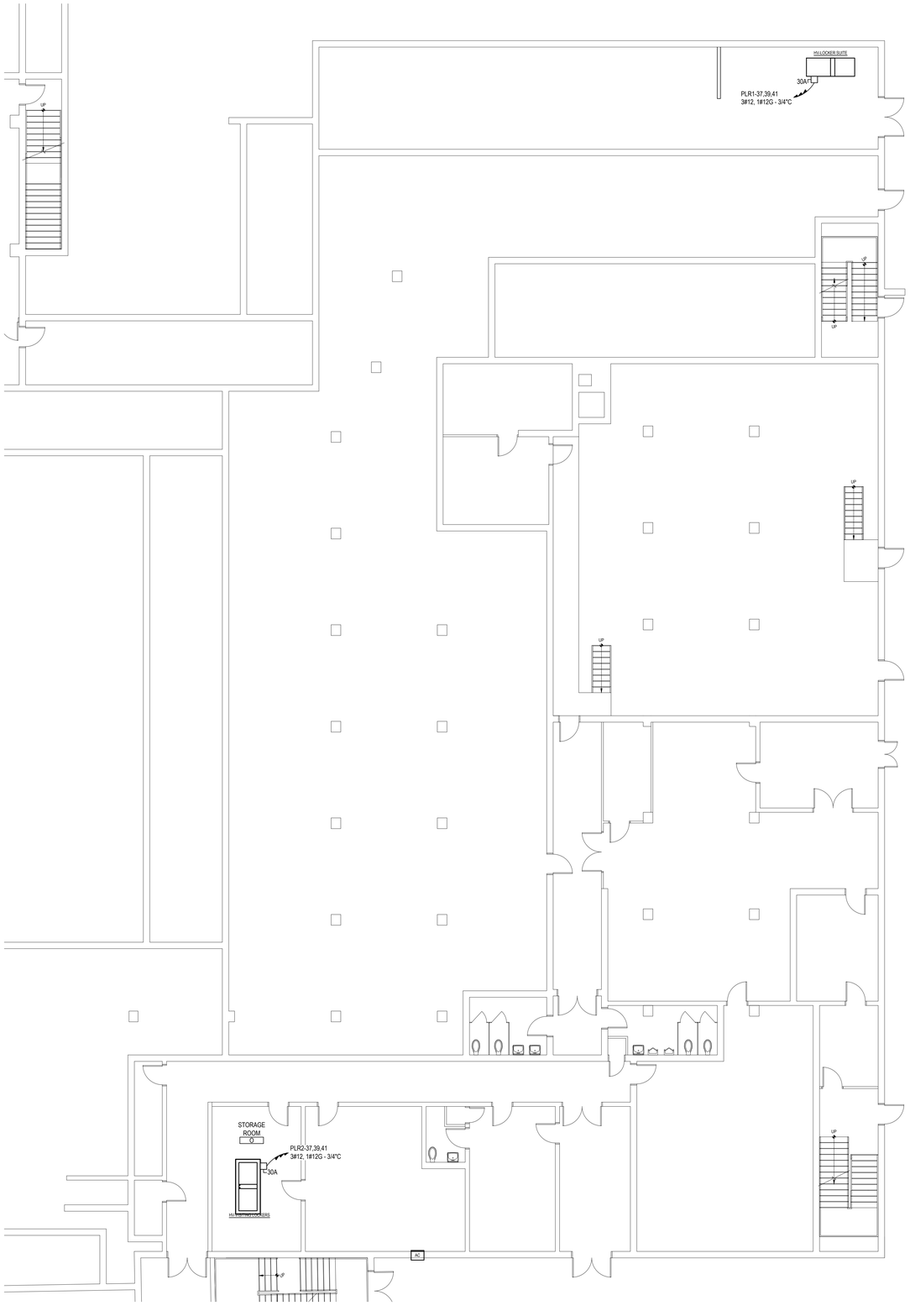
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED MECHANICAL POWER PLAN - ROOF AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E4.08

ELECTRICAL SYMBOL LEGEND:

	U.O.N. NON-FUSED, 240VAC, 3P, NEMA 3R DISCONNECT SWITCH. E.C. TO PROVIDE AND INSTALL. SIZE PER PLAN.



AREA 'C' BASEMENT PROPOSED PLAN

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

REV.	DATE	ITEM

NOTICE

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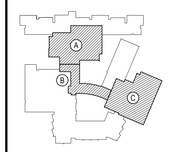

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED MECHANICAL
POWER PLAN - BASEMENT AREA 'C'

DRAWING BY: RP

CHECK BY:

NOTICE

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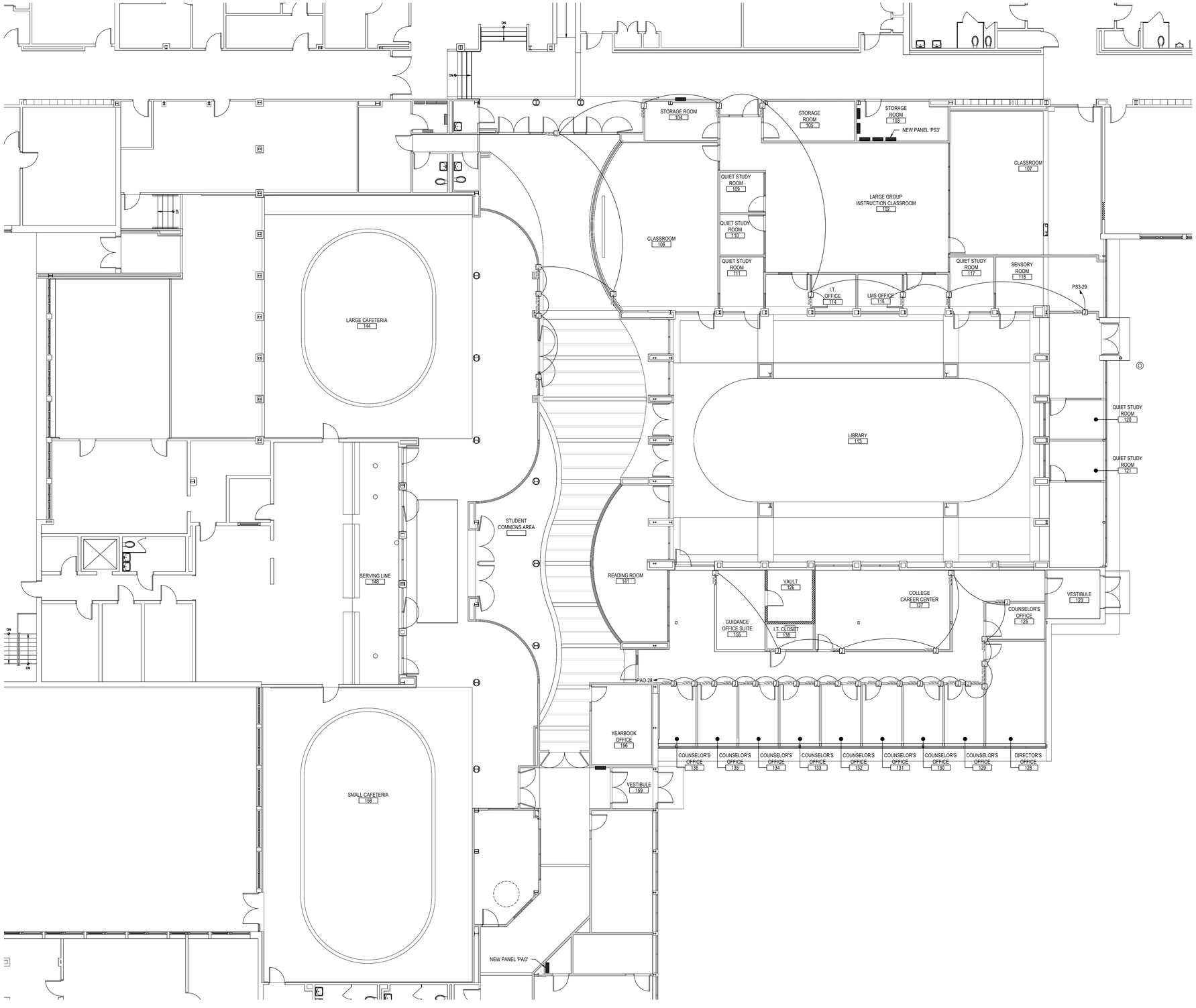
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED MECHANICAL POWER PLAN - BASEMENTAREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E4.09



FIRST FLOOR PROPOSED PLAN

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

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED SMOKE
DAMPER POWER PLAN - AREA 'A'

DRAWING BY: RP
CHECK BY: LW

NOTICE

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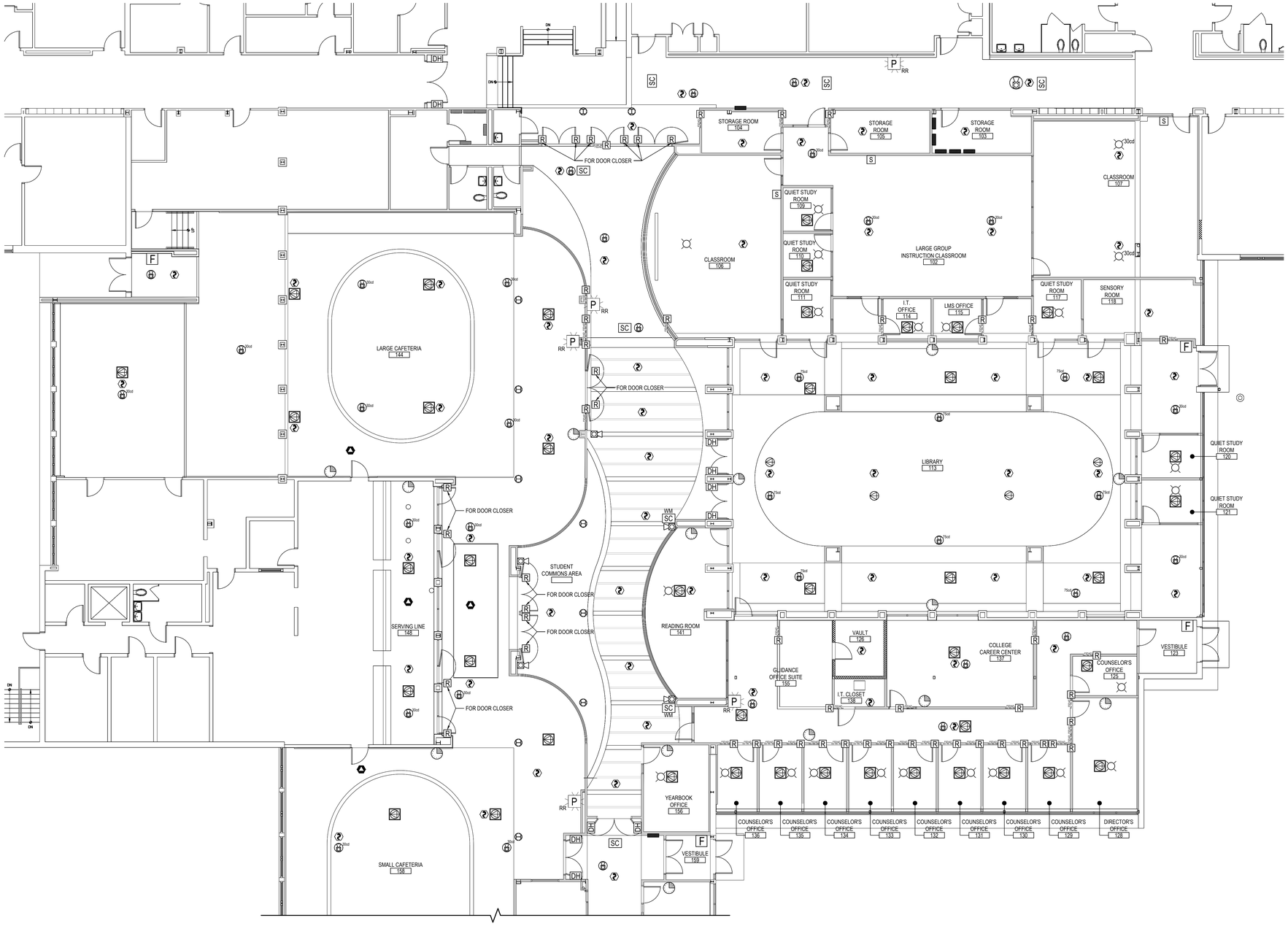
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED SMOKE DAMPER POWER PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E4.10



AREA 'A' FIRST FLOOR PROPOSED PLAN

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

SPECIAL SYSTEMS SCHEDULE

SYMBOL	DESCRIPTION
FACP	EXISTING FIRE ALARM CONTROL PANEL.
	SMOKE DETECTOR WITH BASE BY SIMPLEX. MODEL #4098-9714
F	MANUAL PULL STATION WITH STI STOPPER PROTECTIVE SHIELD WITHOUT ALARM (OR SIMILAR). MODEL #4099-9004
	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE. MODEL #4098-9771
	WALL MOUNT STROBE NOTIFICATION DEVICE. MODEL #59VQ-WWF
	WALL MOUNT HORN / STROBE NOTIFICATION DEVICE. MODEL #59AV-WWF
	CEILING MOUNT STROBE NOTIFICATION DEVICE. MODEL #4906-9104
	CEILING MOUNT HORN / STROBE NOTIFICATION DEVICE. MODEL #4906-9154
DH	ELECTROMAGNETIC HOLD OPEN DEVICE. VOLTAGE TO MATCH SYSTEM.
R	FIRE ALARM RELAY. MODEL #4090-9002
PA RACK	EXISTING PUBLIC ADDRESS SYSTEM HEAD-END RACK.
	RECESSED CEILING MOUNTED PUBLIC ADDRESS IP SPEAKER. MODEL #IPSCM-RMe BY ADVANCED NETWORK DEVICES OR EQUAL
	RECESSED LAY-IN 2X2 PUBLIC ADDRESS DROP-IN CEILING IP SPEAKER. MODEL #IPSCM BY ADVANCED NETWORK DEVICES OR EQUAL
S	WALL MOUNTED PUBLIC ADDRESS IP SPEAKER WITH DISPLAY MODEL #IPSWDHD-MW BY ADVANCED NETWORK DEVICES OR EQUAL
SC	DOUBLE SIDED CORRIDOR PUBLIC ADDRESS IP SPEAKER WITH DISPLAY MODEL #IPCSHD-DS-MB BY ADVANCED NETWORK DEVICES OR EQUAL. WM = WALL MOUNTED

ELECTRICAL GENERAL NOTES:

1. E.C. TO RUN NEW CAT 6 CABLE FROM EACH NEW PUBLIC ADDRESS IP SPEAKER TO NEAREST DATA RACK/IT CLOSET FOR PoE. CAPABILITIES.

REV.	DATE	ITEM
01	03/19/25	BID ADDENDUM No. 04

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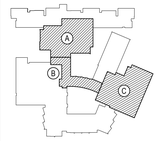

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED SPECIAL SYSTEMS PLAN - AREA 'A'

DRAWING BY: RP

CHECK BY: LW

NOTICE

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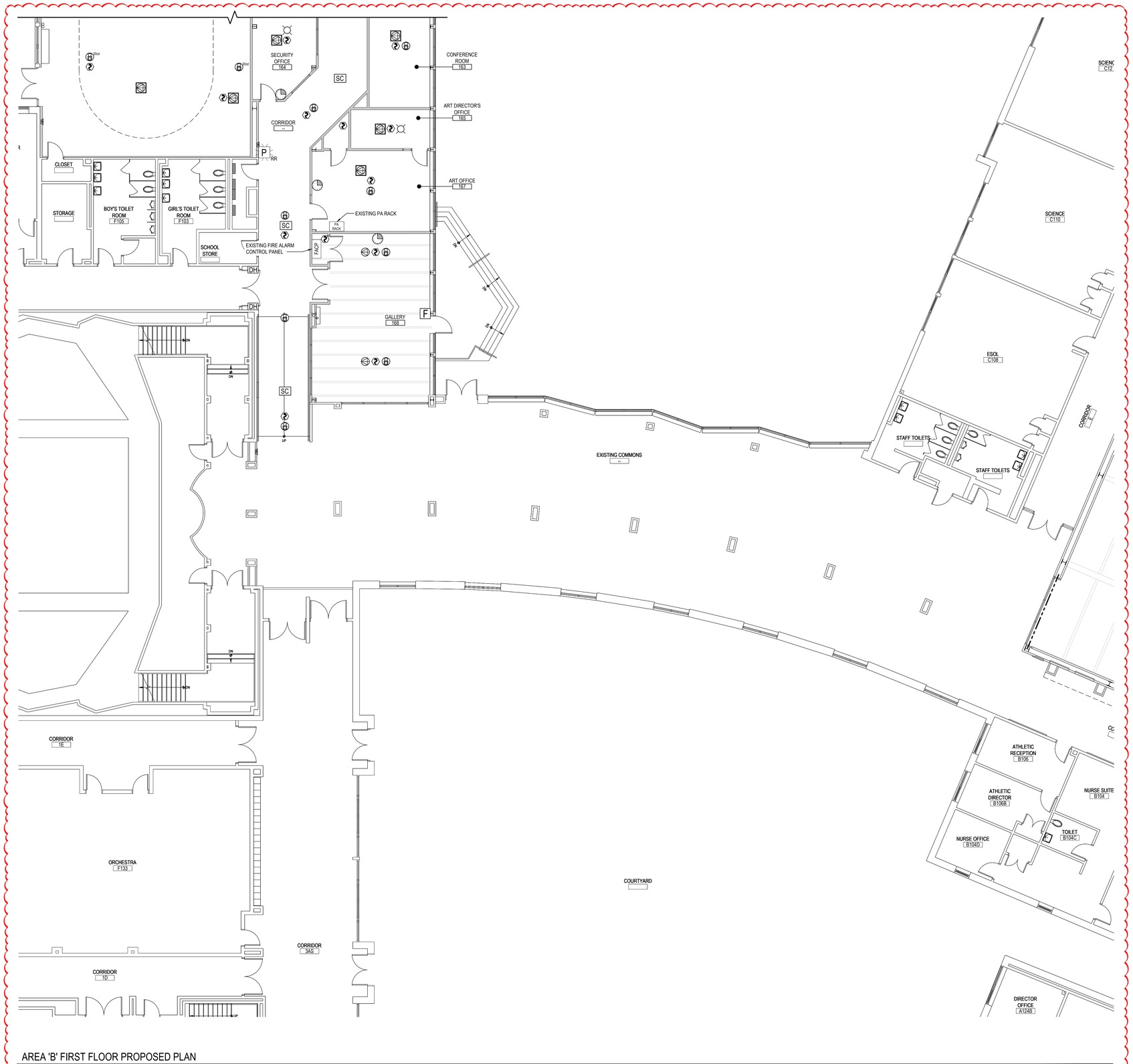
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED SPECIAL SYSTEMS PLAN - AREA 'A'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E5.01



AREA 'B' FIRST FLOOR PROPOSED PLAN

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

SPECIAL SYSTEMS SCHEDULE

SYMBOL	DESCRIPTION
FACP	EXISTING FIRE ALARM CONTROL PANEL.
	SMOKE DETECTOR WITH BASE BY SIMPLEX. MODEL #4098-9714
F	MANUAL PULL STATION WITH STI STOPPER PROTECTIVE SHIELD WITHOUT ALARM (OR SIMILAR). MODEL #4099-9004
	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE. MODEL #4098-9771
	WALL MOUNT STROBE NOTIFICATION DEVICE. MODEL #59VO-WWF
	WALL MOUNT HORN / STROBE NOTIFICATION DEVICE. MODEL #59AV-WWF
	CEILING MOUNT STROBE NOTIFICATION DEVICE. MODEL #4906-9104
	CEILING MOUNT HORN / STROBE NOTIFICATION DEVICE. MODEL #4906-9154
DH	ELECTROMAGNETIC HOLD OPEN DEVICE. VOLTAGE TO MATCH SYSTEM.
R	FIRE ALARM RELAY. MODEL #4090-9002
PA RACK	EXISTING PUBLIC ADDRESS SYSTEM HEAD-END RACK.
	RECESSED CEILING MOUNTED PUBLIC ADDRESS IP SPEAKER. MODEL #IPSCM-RMe BY ADVANCED NETWORK DEVICES OR EQUAL
	RECESSED LAY-IN 2X2 PUBLIC ADDRESS DROP-IN CEILING IP SPEAKER. MODEL #IPSCM BY ADVANCED NETWORK DEVICES OR EQUAL
S	WALL MOUNTED PUBLIC ADDRESS IP SPEAKER WITH DISPLAY MODEL #IPSWDHD-MW BY ADVANCED NETWORK DEVICES OR EQUAL
SC	DOUBLE SIDED CORRIDOR PUBLIC ADDRESS IP SPEAKER WITH DISPLAY MODEL #IPCSHD-DS-MB BY ADVANCED NETWORK DEVICES OR EQUAL. WM = WALL MOUNTED

ELECTRICAL GENERAL NOTES:

1. E.C. TO RUN NEW CAT 6 CABLE FROM EACH NEW PUBLIC ADDRESS IP SPEAKER TO NEAREST DATA RACK/IT CLOSET FOR PoE. CAPABILITIES.

REV.	DATE	ITEM
01	03/19/25	BID ADDENDUM No. 04

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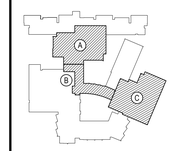

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED SPECIAL SYSTEMS PLAN - AREA 'B'

DRAWING BY: RP

CHECK BY: LW

NOTICE

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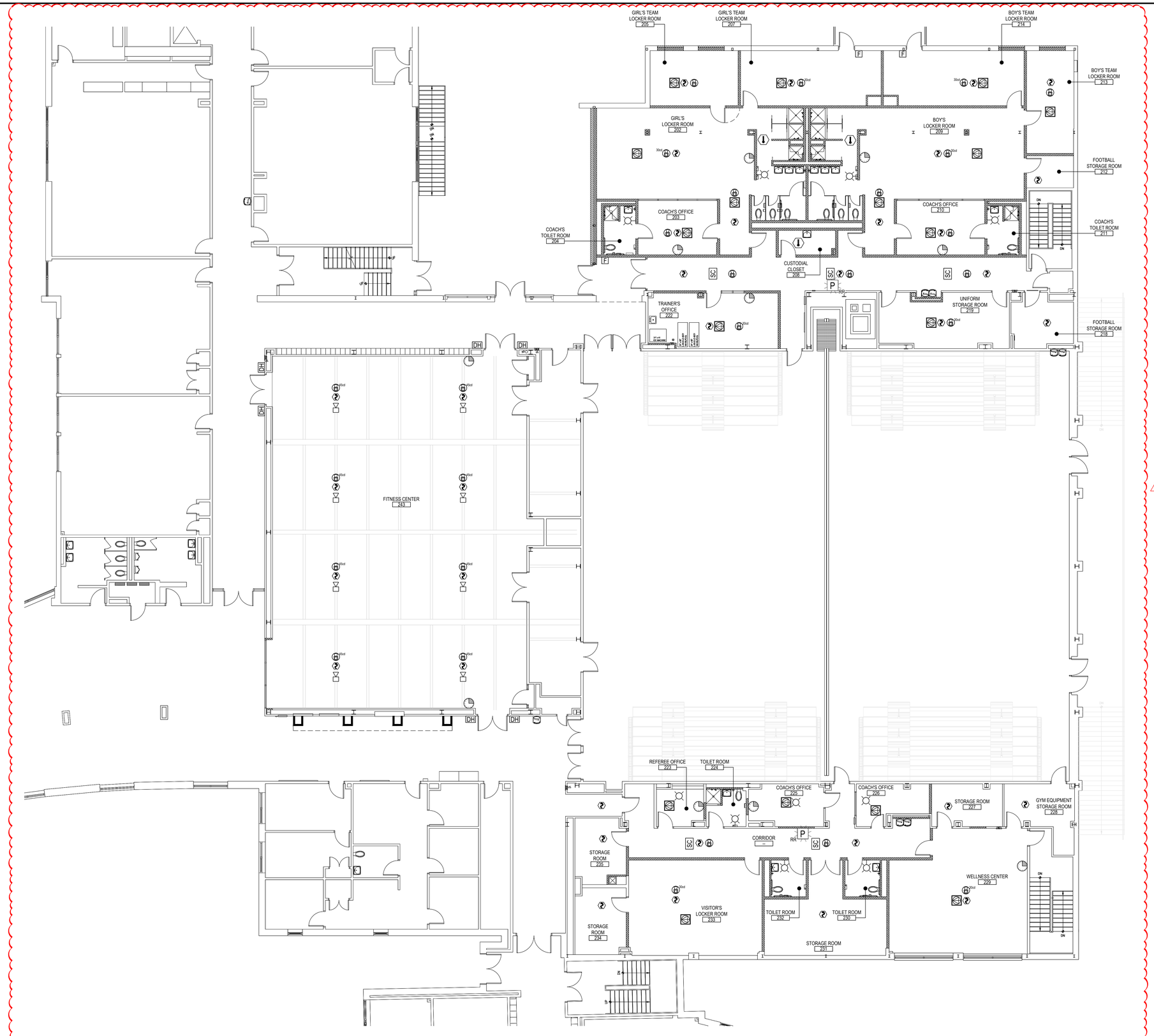
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED SPECIAL SYSTEMS PLAN - AREA 'B'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E5.02



AREA 'C' FIRST FLOOR PROPOSED PLAN

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

SPECIAL SYSTEMS SCHEDULE

SYMBOL	DESCRIPTION
FACP	EXISTING FIRE ALARM CONTROL PANEL.
	SMOKE DETECTOR WITH BASE BY SIMPLEX. MODEL #4098-9714
F	MANUAL PULL STATION WITH STI STOPPER PROTECTIVE SHIELD WITHOUT ALARM (OR SIMILAR). MODEL #4099-9004
	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE. MODEL #4098-9771
	WALL MOUNT STROBE NOTIFICATION DEVICE. MODEL #59VO-WWF
	WALL MOUNT HORN / STROBE NOTIFICATION DEVICE. MODEL #59AV-WWF
	CEILING MOUNT STROBE NOTIFICATION DEVICE. MODEL #4906-9104
	CEILING MOUNT HORN / STROBE NOTIFICATION DEVICE. MODEL #4906-9154
DH	ELECTROMAGNETIC HOLD OPEN DEVICE. VOLTAGE TO MATCH SYSTEM.
R	FIRE ALARM RELAY. MODEL #4090-9002
FA RACK	EXISTING PUBLIC ADDRESS SYSTEM HEAD-END RACK.
	IP PUBLIC ADDRESS HORN SPEAKER
	RECESSED CEILING MOUNTED PUBLIC ADDRESS IP SPEAKER. MODEL #IPSCM-RMe BY ADVANCED NETWORK DEVICES OR EQUAL
	RECESSED LAY-IN 2X2 PUBLIC ADDRESS DROP-IN CEILING IP SPEAKER. MODEL #IPSCM BY ADVANCED NETWORK DEVICES OR EQUAL
S	WALL MOUNTED PUBLIC ADDRESS IP SPEAKER WITH DISPLAY. MODEL #IPSWDHD-MW BY ADVANCED NETWORK DEVICES OR EQUAL
SC	DOUBLE SIDED CORRIDOR PUBLIC ADDRESS IP SPEAKER WITH DISPLAY MODEL #IPCSHD-DS-MB BY ADVANCED NETWORK DEVICES OR EQUAL. WM = WALL MOUNTED

ELECTRICAL GENERAL NOTES:

1. E.C. TO RUN NEW CAT 6 CABLE FROM EACH NEW PUBLIC ADDRESS IP SPEAKER TO NEAREST DATA RACK/IT CLOSET FOR PoE CAPABILITIES.

REV.	DATE	ITEM
01	03/19/25	BID ADDENDUM No. 04

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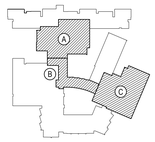

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED SPECIAL SYSTEMS PLAN - AREA 'C'

DRAWING BY: RP
CHECK BY: LW

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SED No. 66-01-02-06-0-003-024

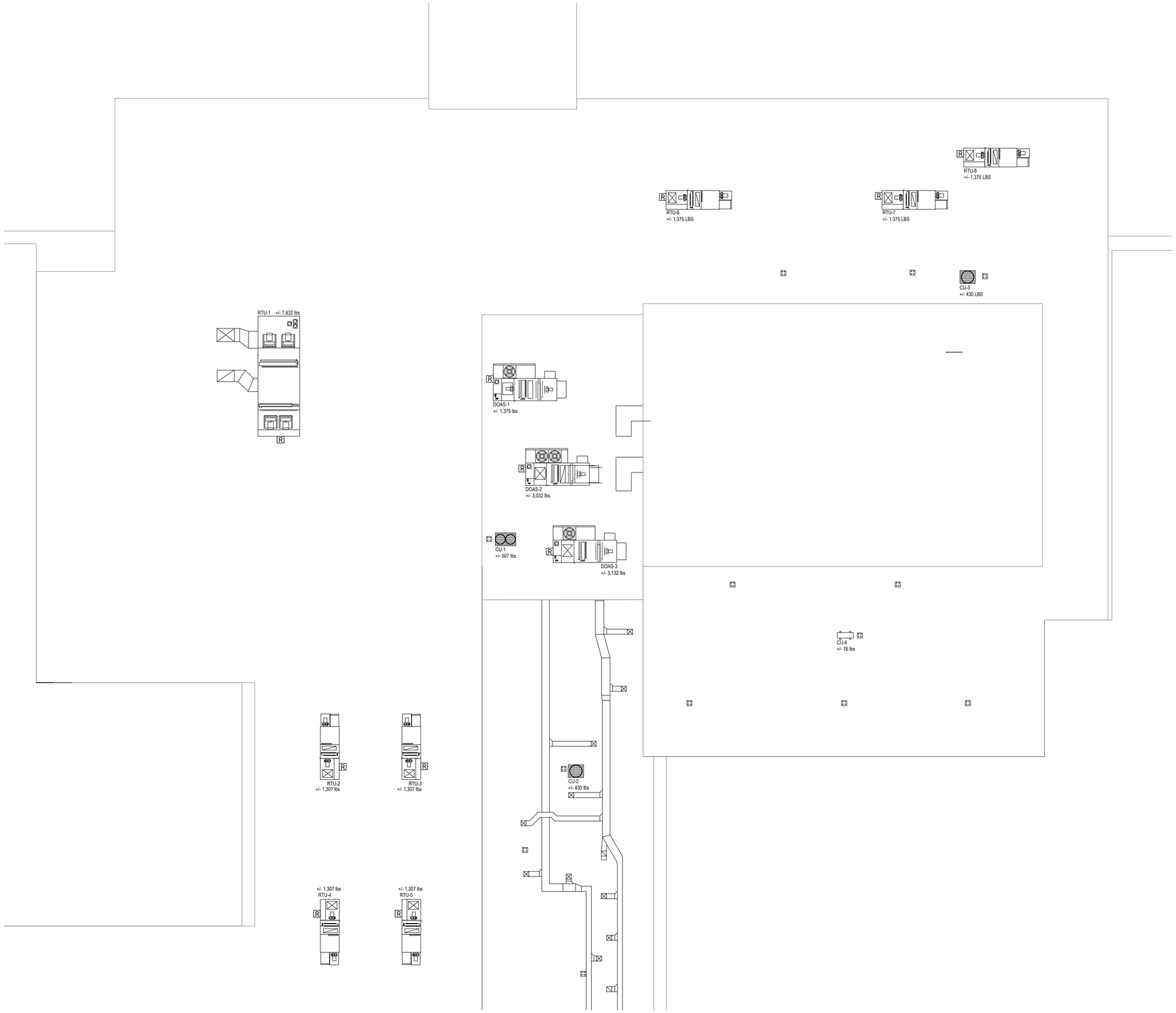
DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: PROPOSED SPECIAL SYSTEMS PLAN - AREA 'C'

SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

E5.03



AREA 'A' ROOF PROPOSED PLAN

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

SPECIAL SYSTEMS SCHEDULE

SYMBOL	DESCRIPTION
R	FIRE ALARM RELAY. MODEL #4090-9002

REV.	DATE	ITEM

NOTICE

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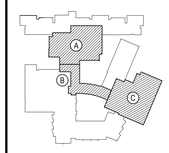

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

PROPOSED SPECIAL
SYSTEMS PLAN - ROOF AREAS 'A' and B'

DRAWING BY: RP

CHECK BY: LW

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SED No. 66-01-02-06-0-003-024

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT PHASE 2 - BOND IMPROVEMENTS

DWG TITLE PROPOSED SPECIAL SYSTEMS PLAN - ROOF AREAS 'A' and 'B'

SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

E5.04

AREA 'C' ROOF PROPOSED PLAN

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

SPECIAL SYSTEMS SCHEDULE

SYMBOL	DESCRIPTION
R	FIRE ALARM RELAY. MODEL #4090-9002

REV.	DATE	ITEM

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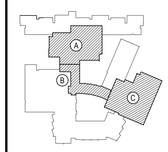

KEY PLAN

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SYSTEMS PLAN - ROOF AREA 'C'

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: PROPOSED SPECIAL SYSTEMS PLAN - ROOF AREA 'C'

SCALE: AS NOTED

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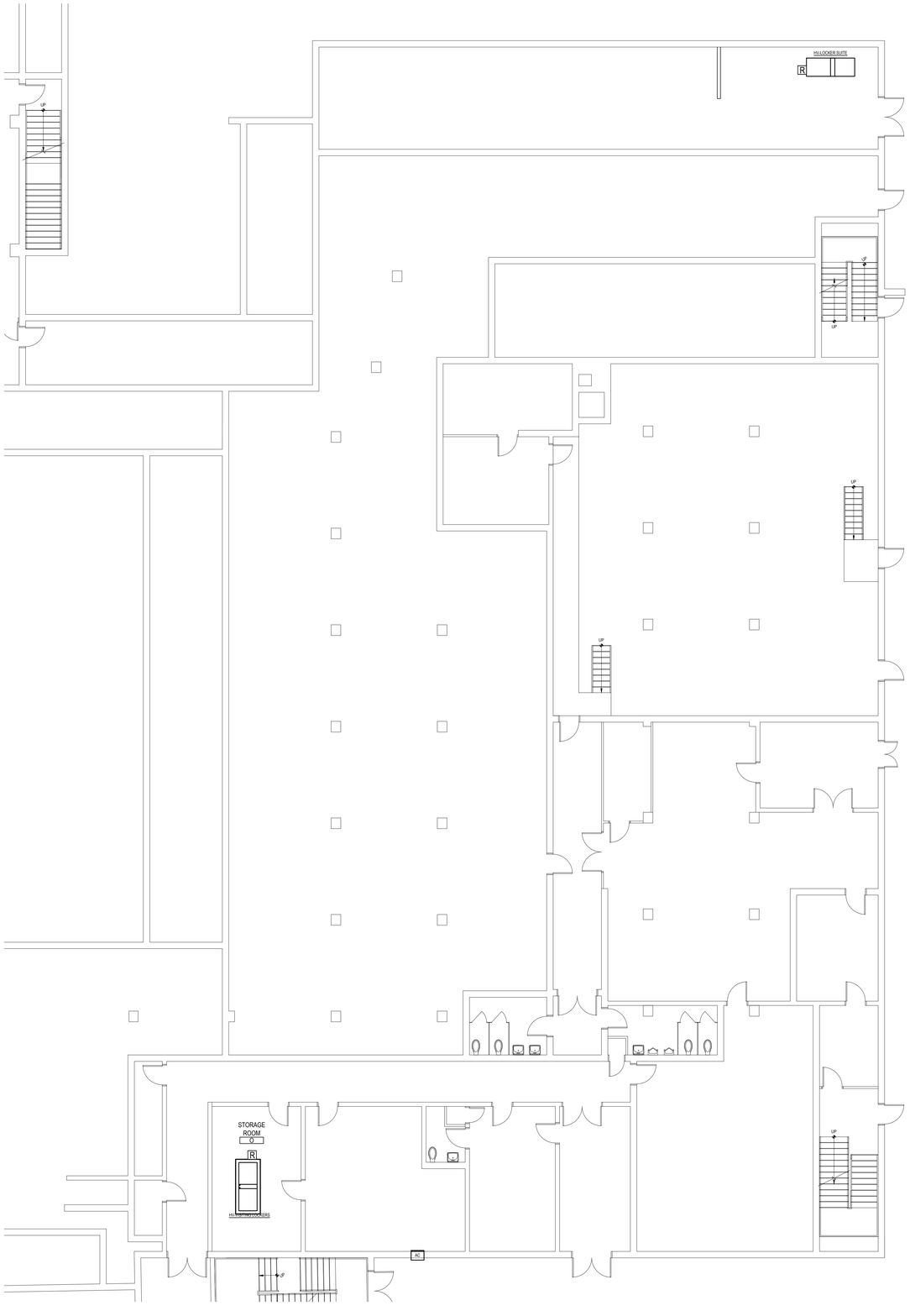
FILE No: 23-131a FLHS

E5.05

ELECTRICAL SYMBOL LEGEND:

	U.O.N. NON-FUSED, 240VAC, 3P, NEMA 3R DISCONNECT SWITCH. E.C. TO PROVIDE AND INSTALL. SIZE PER PLAN.



AREA 'C' BASEMENT PROPOSED PLAN

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

REV.	DATE	ITEM

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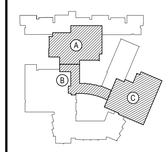

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SYSTEMS PLAN - BASEMENT AREA 'C'

DRAWING BY: RP

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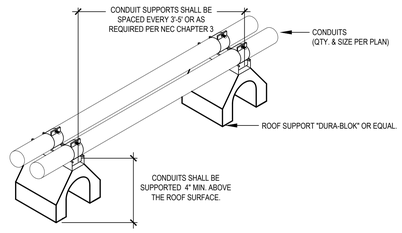
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	PROPOSED SPECIAL SYSTEMS PLAN - BASEMENT AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E5.06

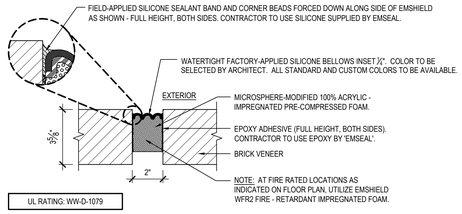
1. INSTALL EXPANSION FITTINGS THROUGHOUT ROOFTOP CONDUIT PER NEC.
2. WHERE PVC CONDUIT IS USED ON THE ROOF, IT MUST MEET UL651 FOR UV RESISTANCE & CONTINUOUS OUTDOOR USE.
3. EC SHALL COORDINATE EXACT LOCATIONS FOR ALL CONNECTIONS AND SWITCHES ON MECHANICAL EQUIPMENT WITH MC. DO NOT BLOCK ACCESS PANELS, PIPING PORTS, ETC.
4. ANY PENETRATIONS IN ROOF SURFACE SHALL BE MADE AS PER ROOFING MANUFACTURERS REQUIREMENTS AND SHALL NOT TO VOID THE ROOFING MANUFACTURERS WARRANTY.



1 ROOFTOP CONDUIT SUPPORT DETAIL

SCALE: N.T.S.

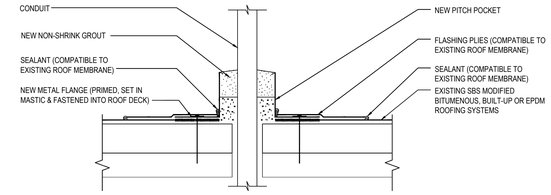
REV. 3.2023



2 EXTERIOR 2" FULL BUILDING EXPANSION JOINT DETAIL

SEISMIC COLORSEAL BY 'EMSEAL' OR ARCHITECT APPROVED EQUAL

SCALE: 3" = 1'-0"

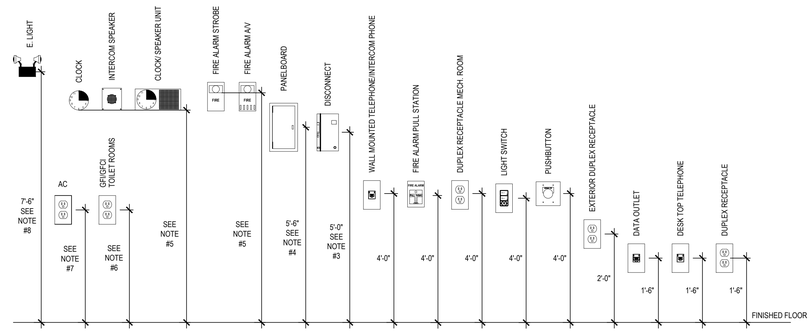


NOTE:
PVC RUN DOWN THROUGH ROOF INTO HUNG CLG. RUN CONDUIT IN PIPE CURB ASSY. CONSISTING OF 12" HIGH GALV. ROOF CURB W/ CAP AND BOOT FOR REFRIGERANT PIPING, ELECTRICAL PIPING, CONTROL WIRING, ETC. MANUFACTURED BY THE "PATE COMPANY" - MOUNT RAIL ON WALKWAY PADS & SECURE PADS TO ROOF W/ ADHESIVE.

3 PIPING PENETRATION THROUGH ROOF DETAIL

ALL E.C. ROOF PENETRATIONS ARE BY ELECTRICAL CONTRACTORS AUTHORIZED ROOFING SUBCONTRACTOR

SCALE: N.T.S.



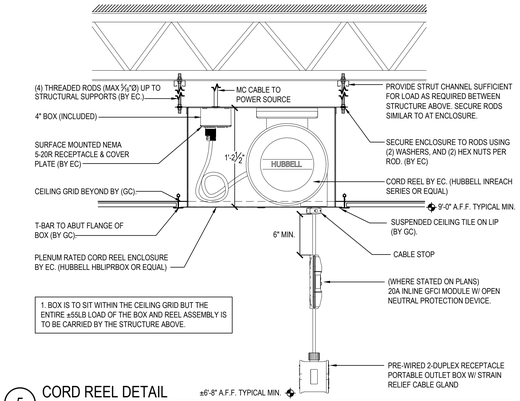
NOTES:

1. IN LOCATIONS WHERE SIMILAR DEVICES ARE MOUNTED AT THE SAME HEIGHT, DEVICES SHALL BE PROPERLY "GANGED" AND SHALL HAVE A SINGLE COVER PLATE.
2. IN LOCATIONS WHERE DIFFERENT DEVICES ARE MOUNTED AT DIFFERENT HEIGHTS WITHIN FOUR FEET OF ONE ANOTHER, DEVICES SHALL BE MOUNTED SUCH THAT THEY HAVE A COMMON CENTERLINE. IF THERE ARE THREE OR MORE DEVICES, THE CONTRACTOR SHALL REQUEST A DETAIL FROM THE ARCHITECT.
3. DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE MOUNTED PER MANUFACTURERS INSTRUCTIONS.
4. THE HEIGHT OF THE HIGHEST BREAKER OR FUSE SHALL NOT EXCEED 6'-7" A.F.F PER NEC.
5. 80" TO BOTTOM, OR AT SHALLOW CEILING INSTALLATIONS, WITHIN 6" OF FINISHED CEILING. VERIFY WITH ENGINEER.
6. IN TOILET ROOMS WITH BACK SPLASH AT VANITY, MOUNT CENTER AT 4" ABOVE BACK SPLASH. IF NO BACK SPLASH, MOUNT 4" ABOVE COUNTER. IF NO COUNTER, MOUNT AT 48" AFF.COORDINATE WITH ARCHITECTURAL PLANS. REFER TO ELEVATIONS AND FURNITURE PLANS.
7. RECEPTACLE IN PLAN WITH THE NOTATION 'AC' INDICATES MOUNTING HEIGHT OF 4" ABOVE COUNTER OR 4" ABOVE BACK SPLASH. COORDINATE WITH ARCHITECTURAL PLANS. REFER TO ELEVATIONS AND FURNITURE PLANS.
8. MOUNT AT 7'-6" ABOVE CLOSEST FLOOR LEVEL (LANDINGS, STEPPED FLOORS, ETC.) UNLESS OTHERWISE NOTED.
9. ALL HEIGHTS SHOWN ARE STANDARD UNLESS OTHERWISE NOTED ON THE PLANS.

4 DEVICE MOUNTING HEIGHT DETAIL

SCALE: N.T.S.

REV. 3.2023

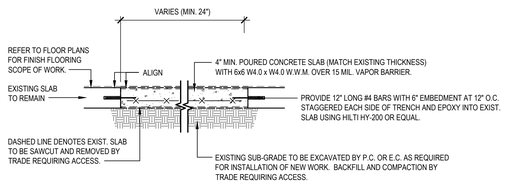


1. BOX IS TO SIT WITHIN THE CEILING GRID BUT THE ENTIRE ±55LB LOAD OF THE BOX AND REEL ASSEMBLY IS TO BE CARRIED BY THE STRUCTURE ABOVE.

5 CORD REEL DETAIL

FULL ASSEMBLY TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
CORD REEL TO BE WHITE UNLESS OTHERWISE NOTED ON PLANS

SCALE: N.T.S.



TYPICAL SLAB SAWCUT NOTE

EACH TRADE SHALL SAWCUT AND REMOVE PORTIONS OF EXISTING CONCRETE SLAB-ON-GRADE TO ACCOMMODATE INSTALLATION OF NEW UNDER-SLAB UTILITIES AND PATCH SLAB AND FINISH FLOORING. SLAB SHALL BE SCANNED VIA GROUND PENETRATING RADAR (GPR) AND/OR OTHER METHODS AS DEEMED APPROPRIATE AND MARKED-OUT FOR BURIED AND/OR EMBEDDED PIPING, DUCT BANKS, ELECTRICAL CONDUIT, AND OTHER UTILITIES. EACH CONTRACTOR SHALL EXERCISE CARE IN SLAB DEMOLITION IN THE VICINITY OF LOCATED UTILITIES AND ALTER METHODS OF SLAB DEMOLITION AS APPROPRIATE. FINAL EXTENT AND LOCATIONS OF SLAB REMOVAL TO BE COORDINATED BETWEEN TRADES IN THE FIELD. EACH TRADE WILL BE RESPONSIBLE FOR REPAIR OF ANY UTILITIES CUT OR DAMAGED BY THEIR SLAB REMOVAL WHETHER REVEALED BY SCANNING OR NOT. ANY DAMAGE TO UTILITIES CAUSED DURING EXCAVATION BY OTHER TRADES WILL BE THE RESPONSIBILITY OF THE TRADE WHICH CAUSED THE DAMAGE.

6 TYPICAL SLAB ON GRADE SAWCUT INFILL DETAIL

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

REV. 10.2023

REV.	DATE	ITEM

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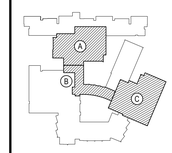

KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: DETAILS

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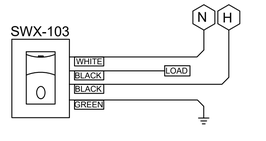
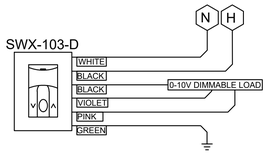
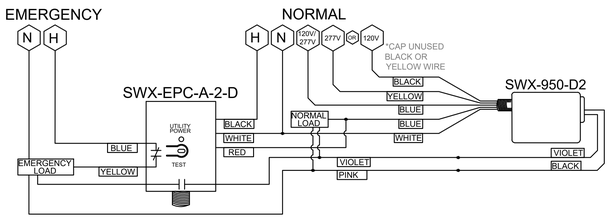
E7.01



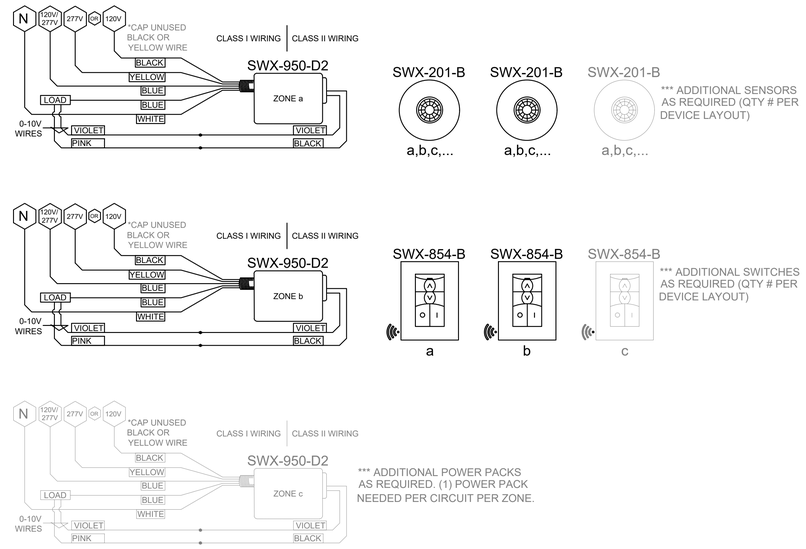
1 WALL SWITCH SENSOR (ON/OFF)
TYPICAL STORAGE, VAULT, CLOSET, TOILET



2 WALL SWITCH SENSOR W/ 0-10V DIMMING
TYPICAL OFFICE, COPY, QUIET STUDY ROOM

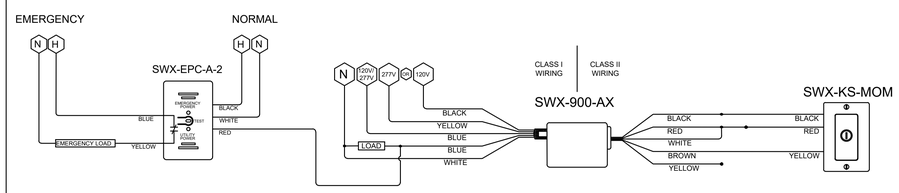


3 TYPICAL UL927 DIMMING RELAY WIRING TO POWER PACK
-

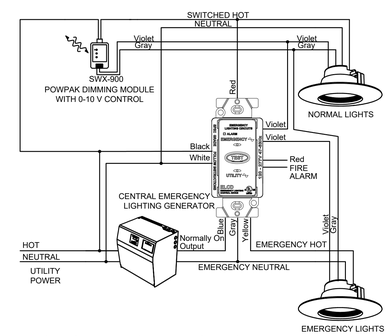


*** MAX DISTANCE FROM POWERPACK TO ALL WIRELESS DEVICES = 80FT WITH UNOBSTRUCTED VIEW OR = 40FT WITH OBSTRUCTIONS

4 TYPICAL WIRELESS CONTROLS WITH CEILING SENSORS & DIMMER SWITCHES
-



5 TYPICAL KEY SWITCH CONTROLS
-



TYPICAL GENERATOR WIRING DIAGRAM

N.T.S.

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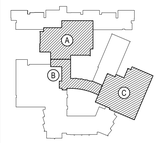

KEY PLAN
NOT TO SCALE

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PHASE 2 - BOND IMPROVEMENTS
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DWG TITLE
DETAILS

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DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PHASE 2 - BOND IMPROVEMENTS
DWG TITLE DETAILS
SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

E7.02

PANEL BOARD — PS1

NAME: PS1 | LOCATION: STORAGE ROOM
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 42 | BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K | NEUTRAL: 225A | MAIN CIRCUIT BREAKER: 200A, 3P
MAIN LUGS: 300KCMIL | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: SURFACE MOUNTED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	2
3	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	4
5	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	6
7	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	8
9	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	10
11	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	12
13	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	14
15	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	16
17	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	18
19	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	20
21	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	22
23	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	24
25	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	26
27	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	28
29	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	30
31	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	32
33	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	34
35	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	36
37	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	38
39	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	40
41	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	42

*PROVIDE NEW BREAKERS FOR ALL EXISTING LOADS MATCHING EXISTING BREAKER SIZE
**UPSIZE EXISTING CIRCUITS BY (1) WIRE SIZE WHEN RELOCATING EXISITNG LOADS INTO NEW PANEL

PANEL BOARD — PS2

NAME: PS2 | LOCATION: STORAGE ROOM
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 42 | BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K | NEUTRAL: 225A | MAIN CIRCUIT BREAKER: 200A, 3P
MAIN LUGS: 300KCMIL | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: SURFACE MOUNTED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	2
3	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	4
5	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	6
7	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	8
9	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	10
11	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	12
13	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	14
15	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	16
17	EXISTING PANEL 'LP-1D' LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-1D' LOAD	18
19	EXISTING PANEL 'LP-1D' LOAD	EX	20A				60A	EX	EXISTING PANEL 'LP-1D' LOAD	20
21	EXISTING PANEL 'LP-1D' LOAD	EX	20A							22
23	EXISTING PANEL 'LP-1D' LOAD	EX	20A							24
25	SPACE								SPACE	26
27	SPACE								SPACE	28
29	SPACE								SPACE	30
31	SPACE								SPACE	32
33	SPACE								SPACE	34
35	SPACE								SPACE	36
37	SPACE								SPACE	38
39	SPACE								SPACE	40
41	SPACE								SPACE	42

*PROVIDE NEW BREAKERS FOR ALL EXISTING LOADS MATCHING EXISTING BREAKER SIZE
**UPSIZE EXISTING CIRCUITS BY (1) WIRE SIZE WHEN RELOCATING EXISITNG LOADS INTO NEW PANEL

PANEL BOARD — PS3

NAME: PS3 | LOCATION: STORAGE ROOM
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 42 | BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K | NEUTRAL: 225A | MAIN CIRCUIT BREAKER: 200A, 3P
MAIN LUGS: 300KCMIL | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: SURFACE MOUNTED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	N CORRDIOR, 103, 104, 105, 106 LIGHTS	12	20A				20A	12	117, 118, 120, 121, 123 LIGHTS	2
3	102, 107, 109, 110, 111, 114, 115 LIGHTS	12	20A				20A	12	113 LINEAR LIGHTS	4
5	113 LIGHTS	12	20A				20A	12	113 LINEAR LIGHTS	6
7	106 FLOOR BOX, WALL BOX, AND RECEPTACLE	12	20A				20A	12	113 PERIMETER RECEPTACLES	8
9	106 RECEPTACLES	12	20A				20A	12	113 COLUMN RECEPTACLES	10
11	109, 110, 111 RECEPTACLES	12	20A				20A	12	113 COLUMN RECEPTACLES	12
13	113 PERIMETER RECEPTACLES AND FLOOR BOXES	12	20A				20A	12	113, 120, 121 RECEPTACLES	14
15	113 PERIMETER RECEPTACLES	12	20A				20A	12	114, 115 WALL BOXES AND RECEPTACLES	16
17	113 FLOOR BOXES	12	20A				20A	12	113, 117, 118 RECEPTACLES	18
19	107 RECEPTACLES	12	20A				20A	12	113 WALLBOXES AND RECEPTACLE	20
21	107 WALL BOXES AND FLOOR BOX	12	20A				20A	12	113 RECEPTACLES AND LIBRARY PRINTER	22
23	105 WALL BOXES & CORRIDOR RECEPTACLE	12	20A				20A	12	118 RECEPTACLES	24
25	102 WALL BOXES AND FLOOR BOXES	12	20A				20A	12	OPAC STATION AND STUDENT SIGN IN POWER	26
27	COMMONS RECEPTACLES	12	20A				20A	12	113 QUAD	28
29	FIRE SMOKE DAMPERS		20A				20A	12	113 QUAD	30
31	102 FLOOR BOX AND RECEPTACLES	12	20A				20A	12	LIBRARY CENTER RGB LIGHTS	32
33	LIBRARY PRINTER WALLBOX	12	20A				20A		SPARE	34
35	LIBRARY PRINTER WALLBOX	12	20A				20A		SPARE	36
37	SPARE		20A				20A		SPARE	38
39	SPARE		20A				20A		SPARE	40
41	SPARE		20A				20A		SPARE	42

PANEL BOARD — PC1

NAME: PC1 | LOCATION: CORRIDOR
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 42 | BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K | NEUTRAL: 225A | MAIN CIRCUIT BREAKER: 200A, 3P
MAIN LUGS: 3/0 | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: RECESSED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	156 WALLBOXES	12	20A				20A	12	135 WALLBOXES AND RECEPTACLES	2
3	156 WALLBOXES	12	20A				20A	12	134 WALLBOXES AND RECEPTACLES	4
5	136 WALLBOXES AND RECEPTACLES	12	20A				20A	12	133 WALLBOXES AND RECEPTACLES	6
7	132 WALLBOXES AND RECEPTACLES	12	20A				20A	12	129 WALLBOXES AND RECEPTACLES	8
9	131 WALLBOXES AND RECEPTACLES	12	20A				20A	12	128 WALLBOXES AND RECEPTACLES	10
11	130 WALLBOXES AND RECEPTACLES	12	20A				20A	12	155 WALLBOXES	12
13	127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 156 LTS	12	20A				20A	12	141 RECEPTACLES	14
15	125, 126, 137, 139, 141, 155 LIGHTS	12	20A				20A	12	139 RECEPTACLES	16
17	EXISTING PANEL 'H' LOAD	EX	20A				15A	EX	EXISTING PANEL 'H' LOAD	18
19	EXISTING PANEL 'H' LOAD	EX	20A				15A	EX	EXISTING PANEL 'H' LOAD	20
21	EXISTING PANEL 'H' LOAD	EX	20A				15A	EX	EXISTING PANEL 'H' LOAD	22
23	EXISTING PANEL 'H' LOAD	EX	15A				15A	EX	EXISTING PANEL 'H' LOAD	24
25	EXISTING PANEL 'H' LOAD	EX	15A				15A	EX	EXISTING PANEL 'H' LOAD	26
27	EXISTING PANEL 'H' LOAD	EX	15A				20A	EX	EXISTING PANEL 'H' LOAD	28
29	EXISTING PANEL 'H' LOAD	EX	15A				15A	EX	EXISTING PANEL 'H' LOAD	30
31	EXISTING PANEL 'H' LOAD	EX	20A				15A	EX	EXISTING PANEL 'H' LOAD	32
33	EXISTING PANEL 'H' LOAD	EX	20A				15A	EX	EXISTING PANEL 'H' LOAD	34
35	EXISTING PANEL 'H' LOAD	EX	15A				15A	EX	EXISTING PANEL 'H' LOAD	36
37	EXISTING PANEL 'H' LOAD	EX	20A				15A	EX	EXISTING PANEL 'H' LOAD	38
39	EXISTING PANEL 'H' LOAD	EX	20A				20A	EX	EXISTING PANEL 'H' LOAD	40
41										42

*PROVIDE NEW BREAKERS FOR ALL EXISTING LOADS MATCHING EXISTING BREAKER SIZE
**UPSIZE EXISTING CIRCUITS BY (1) WIRE SIZE WHEN RELOCATING EXISITNG LOADS INTO NEW PANEL

PANEL BOARD — PC2

NAME: PC2 | LOCATION: CORRIDOR
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 42 | BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K | NEUTRAL: 225A | MAIN CIRCUIT BREAKER: 200A, 3P
MAIN LUGS: 4/0 | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: RECESSED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	104 WALLBOXES	12	20A				20A	12	D140 WALLBOXES	2
3	144 BOOTH RECEPTACLES	12	20A				20A	12	144 GLASS RECEPTACLES	4
5	SPARE		20A				20A		SPARE	6
7	SPARE		20A				20A		SPARE	8
9	SPARE		20A				20A		SPARE	10
11	SPARE		20A				20A		SPARE	12
13	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	14
15	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	16
17	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	18
19	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	20
21	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	22
23	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	24
25	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	26
27	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	28
29	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	30
31	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	32
33	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	34
35	EXISTING PANEL 'LP-2 LOAD	EX	20A				20A	EX	EXISTING PANEL 'LP-2' LOAD	36
37	EXISTING PANEL 'LP-2 LOAD	EX	20A						SPACE	38
39	EXISTING PANEL 'LP-2 LOAD	EX	20A						SPACE	40
41	EXISTING PANEL 'LP-2 LOAD	EX	20A						SPACE	42

*PROVIDE NEW BREAKERS FOR ALL EXISTING LOADS MATCHING EXISTING BREAKER SIZE
**UPSIZE EXISTING CIRCUITS BY (1) WIRE SIZE WHEN RELOCATING EXISITNG LOADS INTO NEW PANEL

PANEL BOARD — PSM1

NAME: PSM1 | LOCATION: STORAGE ROOM
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 3 | BUS SIZE (A): 600A
MIN AIC RATING (KA): 42K | NEUTRAL: 500A | MAIN CIRCUIT BREAKER: 500A, 3P
MAIN LUGS: (2) SETS 500KCMIL | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: SURFACE MOUNTED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	RTU-1	2/0	175A				45A	6	RTU-2	2
3										4
5										6
7	RTU-3	6	45A				45A	4	RTU-4	8
9										10
11										12
13	RTU-5	4	45A				45	6	ECH-A	14
15										16
17										18
19	ECH-114, ECH-115	12	20A				45	8	ECH-C	20
21										22
23	ECH-117	12	20A							24
25							20	12	109,110,111,114,115 IDUS & COND. PUMPS	26
27	ECH-VESTIBULE	12	20A							28
29							20	12	117,118,120,121,COVE IDUS & COND. PUMPS	30
31										32
33										34
35										36
37										38
39										40
41										42

PANEL BOARD — PSM2

NAME: PSM2 | LOCATION: STORAGE ROOM
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 3 | BUS SIZE (A): 600A
MIN AIC RATING (KA): 42K | NEUTRAL: 600A | MAIN CIRCUIT BREAKER: 500A, 3P
MAIN LUGS: (2) SETS 500KCMIL | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: SURFACE MOUNTED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	DOAS-2	3	110A				100A	3	DOAS-3	2
3										4
5										6
7	DOAS-1	8	35A				35A	10	RTU-6	8
9										10
11										12
13	RTU-7	10	35A				40A	10	RTU-8	14
15										16
17										18
19	CU-2	6	40A				35A	10	CU-1	20
21										22
23										24
25	CU-3	6	35A				60A	6	ECH-U	26
27										28
29										30
31	CU-4 & AC-138	12	20A						SPACE	32
33									SPACE	34
35	SPACE								SPACE	36
37	SPACE								SPACE	38
39	SPACE								SPACE	40
41	SPACE								SPACE	42

PANEL BOARD — PLR1

NAME: PLR1 | LOCATION: GIRL'S LOCKER ROOM
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 3 | BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K | NEUTRAL: 225A | MAIN CIRCUIT BREAKER: 200A, 3P
MAIN LUGS: 300KCMIL | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: RECESSED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	RTU-9	6	50A				20A	12	209, 210, 211, 213, 214 RECEPTACLES	2
3							20A	12	210 RECEPTACLES AND WALLBOXES	4
5							20A	12	211 HAND DRYER	6
7	203 RECEPTACLES AND WALLBOXES	12	20A				20A	12	LOCKER ROOM DRINKING FOUNTAINS	8
9	204 HAND DRYER	12	20A				20A	12	222 RECEPTACLE AND WALLBOX	10
11	202, 205, 207 RECEPTACLES	12	20A				20A	12	222 ICE MACHINE	12
13	222 WHIRLPOOL	12	20A				20A	12	208, 218, 219, 222, CORRIDOR LIGHTS	14
15	202, 204, 205, 207 LIGHTS	12	20A				20A	12	209, 211, 212, 213, 214 LIGHTS	16
17	202 HAND DRYER	12	20A				20A	12	209 HAND DRYER	18
19	222 WHIRLPOOL	12	20A				20A	12	222 COUNTERTOP RECEPTACLES	20
21	243 TREADMILL	8	20A				20A	8	243 TREADMILL	22
23	243 TREADMILL	8	20A				20A	8	243 TREADMILL	24
25	SPARE		20A				20A		SPARE	26
27	208 AND CORRIDOR RECEPTACLES	12	20A				8	20A	243 TREADMILL	28
29	219 AND CORRIDOR RECEPTACLES	12	20A				8	20A	243 TREADMILL	30
31	SPARE		20A				12	20A	ECH-GIRLS	32
33	EF-1, EF-2	12	15A							34
35	EF-3, EF-4, EF-5	12	15A							36
37	HV-LOCKER SUITE	12	15A				12	20A	ECH-BOYS	38
39										40
41										42
43	ECH-211	12	20A				8	20A	243 TREADMILL	44
45							8	20A	243 TREADMILL	46
47	ECH-204	12	20A							48
49										50
51										52
53										54

PANEL BOARD — PLR2

NAME: PLR2 | LOCATION: COACH'S OFFICE
TYPE: | BRANCH BREAKER TYPE: BOLT ON | NO. OF POLES: 3 | BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K | NEUTRAL: 225A | MAIN CIRCUIT BREAKER: 200A, 3P
MAIN LUGS: 3/0 | VOLTS: 120/208V | PHASE: 3 | # WIRES: 4
MOUNTING: SURFACE MOUNTED | ENCL. TYPE: 1 | DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A | SUB-FEED LUGS: ☐ | FEED-THRU LUGS: ☐ | SHUNT TRIP MAIN: ☐ | ASCO SWITCH: ☐ | ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	RTU-10	6	50A				20A	12	230 HAND DRYER	2
3							20A	12	232 HAND DRYER	4
5							20A	12	230,233, CORRDIDOR RECEPTACLES	6
7	LOCKER ROOM DRINKING FOUNTAINS	12	20A				20A	12	227,228 RECEPTACLES	8
9	223,224,234,235 RECEPTACLES	12	20A				20A	12	229 RECEPTACLES	10
11	225 RECEPTACLES	12	20A				20A	12	226 RECEPTACLES AND WALLBOXES	12
13	232, 233, 234,235, CORRIDOR RECEPTACLES	12	20A				20A	12	223, 224, 225,232,233,234,235,CORRIDOR LTS	14
15	226,227,228,229,230,231 LTS	12	20A				20A	10	RTU/9 & RTU/10 MAINTENANCE RECEPTACLES	16
17	AV RACK POWER	10	20A				20A		SPARE	18
19	SPARE		20A				20A		SPARE	20
21	SPARE		20A				20A		SPARE	22
23	SPARE		20A				20A		SPARE	24
25	SPARE		20A				20A		SPARE	26
27	ECH-224	12	20A				20A		SPARE	28
29							20A		SPARE	30
31	ECH-230, ECH-232	12	20A						SPACE	32
33									SPACE	34
35	EF-6, EF-7	12	15						SPACE	36
37	HV-VISITING LOCKERS	12	15						SPACE	38
39									SPACE	40
41									SPACE	42

REV.	DATE	ITEM

NOTICE

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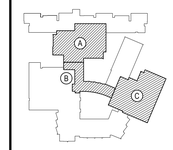

KEY PLAN
NOT TO SCALE

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

PROJECT

PANEL SCHEDULES

DWG TITLE

DRAWING BY: RP
CHECK BY: LW

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SED No. 66-01-02-06-0-003-024
DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT: PHASE 2 - BOND IMPROVEMENTS
DWG TITLE: PANEL SCHEDULES

SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

E8.01

PANEL BOARD — NAME: PAO — LOCATION: ART OFFICE STORAGE

TYPE: ____ BRANCH BREAKER TYPE: BOLT ON NO. OF POLES: 42 BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K NEUTRAL: 225A MAIN CIRCUIT BREAKER: 200A, 3P
MAIN LUGS: 3/0 VOLTS: 120/208V PHASE: 3 # WIRES: 4
MOUNTING: SURFACE MOUNTED ENCL. TYPE: 1 DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A SUB-FEED LUGS: ☐ FEED-THRU LUGS: ☐
SHUNT TRIP MAIN: ☐ ASCO SWITCH: ☐ ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	163, 165 WALLBOXES	12	20A				20A	12	163 WALL AND FLOOR BOXES	2
3	167 WALLBOXES	12	20A				20A	12	164 WALLBOXES AND RECEPTACLE	4
5	167 RECEPTACLES	12	20A				20A	12	125 WALL BOX AND RECEPTACLES	6
7	138 RECEPTACLE	12	20A				20A	12	138 RECEPTACLE	8
9	137 WALLBOX AND RECEPTACLES	12	20A				20A	12	GUIDANCE SUITE PRINTER	10
11	168 TRACK LIGHTING CIRCUIT	12	20A				20A	10	COMMONS QUAD	12
13	168 TRACK LIGHTING CIRCUIT	12	20A				20A	10	COMMONS RECEPTACLE	14
15	168 TRACK LIGHTING CIRCUIT	12	20A				20A	10	COMMONS RECEPTACLE	16
17	168 TRACK LIGHTING CIRCUIT	12	20A				20A	10	COMMONS QUAD	18
19	168 TRACK LIGHTING CIRCUIT	12	20A				20A	10	165, 167 RECEPTACLES, WB, AND FB	20
21	168 TRACK LIGHTING CIRCUIT	12	20A				20A	10	128 RECEPTACLES AND WALLBOX	22
23	167 QUAD	12	20A				20A	12	167, STORAGE, CORRIDOR RECEPTACLE	24
25	141 RECEPTACLES	12	20A				20A	12	163 RECEPTACLES AND WALL BOX	26
27	158 RECEPTACLES	12	20A				20A	12	FIRE SMOKE DAMPERS	28
29	SPARE		20A				20A		SPARE	30
31	SPARE		20A				20A		SPARE	32
33	ART SUITE IDUS & CONDESATE PUMPS	12	20A				20	12	ECH-VESTIBULE	34
35	SPARE		20A							36
37	ECH-B	8	45				45	8	ECH-L	38
39										40
41										42

PANEL BOARD — NAME: I1D — LOCATION: ELECTRICAL CLOSET E1

TYPE: ____ BRANCH BREAKER TYPE: BOLT ON NO. OF POLES: 42 BUS SIZE (A): ____
MIN AIC RATING (KA): 22K NEUTRAL: ____ MAIN CIRCUIT BREAKER: MLO
MAIN LUGS: ____ VOLTS: 120/208V PHASE: 3 # WIRES: 4
MOUNTING: SURFACE ENCL. TYPE: 1 DOOR REQ'D: SURFACE COVER
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A SUB-FEED LUGS: ☐ FEED-THRU LUGS: ☐
SHUNT TRIP MAIN: ☐ ASCO SWITCH: ☐ ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	EXISTING	EX	20A				20A	EX	EXISTING	2
3	EXISTING	EX	20A				20A	EX	EXISTING	4
5	EXISTING	EX	20A				20A	EX	EXISTING	6
7	EXISTING	EX	20A				20A	EX	EXISTING	8
9	EXISTING	EX	20A				20A	EX	EXISTING	10
11	EXISTING	EX	20A				20A	EX	EXISTING	12
13	EXISTING	EX	20A				20A	EX	EXISTING	14
15	EXISTING	EX	20A				20A	EX	EXISTING	16
17	EXISTING	EX	20A				20A	EX	EXISTING	18
19	EXISTING	EX	20A				20A	EX	EXISTING	20
21	EXISTING	EX	20A				20A	EX	EXISTING	22
23	EXISTING	EX	20A				20A	EX	EXISTING	24
25	144 LIGHTS	12	20A				20A	12	144 STOOL RECEPTACLES	26
27	144 LIGHTS	12	20A				20A	12	144 BOOTH RECEPTACLES	28
29	144,158 DOWNLIGHTS, 148 LIGHTS	12	20A				20A	12	144CENTER RECEPTACLES	30
31	MAIN CORRIDOR LIGHTS	12	20A				20A	12	144, 148 RECEPTACLES	32
33	STUDENT COMMONS LIGHTS	12	20A				20A	12	144 WATER FOUNTAIN RECEPTACLES	34
35	144 FLOOR BOXES	12	20A				20A	12	144 RECEPTACLES AND WALLBOX	36
37	EXISTING	EX	20A				20A	12	D140 A/V RACK	38
39							20A	12	148 WALLBOXES	40
41							20A	12	144 WALLBOX AND STOOL RECEPTACLES	42

PANEL BOARD — NAME: PLB — LOCATION: ELECTRICAL CLOSET

TYPE: ____ BRANCH BREAKER TYPE: BOLT ON NO. OF POLES: 30 BUS SIZE (A): 225A
MIN AIC RATING (KA): 22K NEUTRAL: 200A MAIN CIRCUIT BREAKER: 200A
MAIN LUGS: ____ VOLTS: 120/208V PHASE: 3 # WIRES: 4
MOUNTING: SURFACE ENCL. TYPE: 1 DOOR REQ'D: DOOR-IN-DOOR
ACCESSORIES: SURGE PROTECTIVE DEVICE (SPD): ☐ SPD RATING(KA): N/A SUB-FEED LUGS: ☐ FEED-THRU LUGS: ☐
SHUNT TRIP MAIN: ☐ ASCO SWITCH: ☐ ISOLATED GROUND: ☐

CKT. #	DESCRIPTION	WIRE SIZE	CKT. BRKR.	LOAD A	LOAD B	LOAD C	CKT. BRKR.	WIRE SIZE	DESCRIPTION	CKT. #
1	EXISTING	EX	20A				20A	EX	EXISTING	2
3	168 WALLBOXES AND RECEPTACLES	12	20A				20A	EX	EXISTING	4
5	158 RECEPTACLES	12	20A				20A	EX	EXISTING	6
7							20A	EX	EXISTING	8
9							20A	EX	EXISTING	10
11	158 WALLBOX AND RECEPTACLE	12	20A				20A	12	163, 164, 165, 167, CORRIDOR LIGHTS	12
13	COUNSELOR'S OFFICE IDUS & CONDENSATE PUMPS	12	20A				20A	EX	EXISTING	14
15							20A	EX	EXISTING	16
17	COUNSELOR'S OFFICE IDUS & CONDENSATE PUMPS	12	20A				20A	12	158 LIGHTS	18
19							20A	12	158, 164 RECEPTACLES	20
21	158 FLOOR BOXES	12	20A				20A	12	163 WALL AND FLOOR BOXES	22
23	168 RECEPTACLES	12	20A				20A	12	126,137,138,139,141 IDUS & CONDENSATE PUMPS	24
25	EXISTING	EX	30A							26
27										28
29										30

REV.	DATE	ITEM

NOTICE

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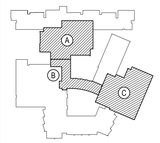

KEY PLAN
NOT TO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE
PANEL SCHEDULES

DRAWING BY: RP
CHECK BY: LW

NOTICE

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SED No. 66-01-02-06-0-003-024
DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PHASE 2 - BOND IMPROVEMENTS
DWG TITLE PANEL SCHEDULES
SCALE: AS NOTED
DATE: APRIL 2024
BID PICK-UP: FEBRUARY 24, 2025
FILE No: 23-131a FLHS

E8.02

GENERAL NOTES

1. IT IS STRONGLY RECOMMENDED BY THE ARCHITECT / ENGINEER THAT THE CONTRACTOR VISIT THE SITE AND VERIFY IN THE FIELD ALL EXISTING CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR ESTIMATING.
2. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR NO MATTER WHAT TRADE TO REVIEW THE ENTIRE BID PACKAGE CONSISTING OF ALL CONSTRUCTION DRAWINGS AND THE PROJECT MANUAL) PRIOR TO SUBMITTING THEIR BID. THE CONTRACTOR(S) WILL BE HELD ACCOUNTABLE FOR ALL MATERIALS IN THE BID PACKAGE NO MATTER WHERE IT IS LOCATED IN THE DOCUMENTATION.
3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL EXISTING CONDITIONS, COMPONENTS, MEASUREMENTS, DISCREPANCIES AND ANY OTHER ITEMS THAT WILL IMPEDE THE PROGRESS OF OR INCREASE THE COSTS TO THE CURRENT WORK SCOPE. IF ANY OF THESE ITEMS EXIST THE CONTRACTOR SHALL REFER TO GENERAL NOTE No. 4.
4. ALL QUESTIONS, DISCREPANCIES AND REQUESTS FOR INFORMATION MUST BE SUBMITTED IN WRITTEN FORM TO THE ATTENTION OF THE ARCHITECT OR ENGINEER. THE CONTRACTOR SHALL FOLLOW THE FORMAT OUTLINED IN THE PROJECT MANUAL, DIVISION 1, GENERAL REQUIREMENTS, SPECIFICATION SECTION - 012600, CONSTRUCTION PHASE CLARIFICATIONS, REQUESTS FOR INFORMATION FROM ARCHITECT'S OFFICE.
5. IF NO QUESTIONS ARE RAISED ON A PARTICULAR ITEM IN QUESTION DURING THE BIDDING PROCESS, IT WILL BE THE UNDERSTANDING OF THE OWNER, CONSTRUCTION MANAGER, ARCHITECT, ENGINEER AND CONTRACTOR(S), THAT THE CONTRACTOR HAS VISITED THE SITE IN CONJUNCTION WITH REVIEWING THE CONTRACT DOCUMENTS (ALL CONSTRUCTION DRAWINGS AND THE PROJECT MANUAL) AND UNDERSTANDS THE ARCHITECTS/ENGINEERS INTENTIONS. IF A QUESTION IS RAISED AFTER THE BIDDING PHASE, THE CONTRACTOR WILL BE HELD TO THE ARCHITECT OR ENGINEERS INTERPRETATION OF ANY AND ALL COSTS ASSOCIATED WILL BARE SOLELY ON THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL COSTS WILL BE ACCEPTED OR PASSED ONTO THE OWNER.
6. THE CONTRACTOR SHALL PROTECT THE AREA OF WORK FROM ANY INCLEMENT WEATHER THAT MAY OCCUR DURING THE WORK DAY AND AFTER DAILY OPERATIONS. THIS PROTECTION SHALL BE IN PLACE THROUGHOUT THE DURATION OF THE PROJECT, AS OUTLINED IN SPECIFICATION SECTION 013000.
7. ALL WORK SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED, AND PROTECTED, AS OUTLINED IN SPECIFICATION SECTION 013500 - UNIFORMED SAFETY STANDARDS FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS: COMMISSIONERS REGULATIONS, SECTION 155.5.
8. ALL CONTRACTORS SHALL SUBMIT SAMPLES TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE COMMENCEMENT OF WORK. ALL SUBMITTALS SHALL BE IN ACCORDANCE WITH THE PROJECT MANUAL - DIVISION 1 - GENERAL REQUIREMENTS - SPECIFICATION SECTION 013300 - SUBMISSIONS.
9. ALL DEMOLITION AND CONSTRUCTION WORK TO BE PERFORMED WITHOUT INTERRUPTION TO THE DISTRICT ADMINISTRATION OPERATIONS AND SHALL COMPLY WITH THE PROCEDURES OUTLINED IN THE PROJECT MANUAL - DIVISION 1 - GENERAL REQUIREMENTS - SECTION 013300 - SPECIAL PROCEDURES AND PROVISIONS, AND SECTION 013500 - COMMISSIONERS REGULATIONS, (PART 155.5) AND SAFETY STANDARDS.
10. ALL EXISTING VENTILATION DIFFUSERS AND GRILLS SHALL BE COVERED AND PROTECTED AGAINST ANY FOREIGN MATTER ENTERING THE SYSTEMS DURING CONSTRUCTION. THE CONTRACTOR MUST ALSO MAINTAIN ADEQUATE VENTILATION THROUGH OUT THE PROJECT AS STATED IN THE, 'REGULATIONS OF THE COMMISSIONER OF EDUCATION PART 155 (8NYCRR 155).' AS OUTLINED IN SPECIFICATION SECTION - 013500.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES, AS OUTLINED IN SPECIFICATION SECTION 013500 - UNIFORMED SAFETY STANDARDS FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS: COMMISSIONERS REGULATIONS, SECTION 155.5.
12. ALL WORK AND MATERIALS OF THIS PROJECT AND ADJACENT SURFACES SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY MAKE REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT/ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
13. THE CONTRACTOR SHALL ENFORCE UPON STRICT DISCIPLINE AND GOOD ORDER AMONG THE CONTRACTORS EMPLOYEES AND OTHER PERSONS CARRYING OUT THE CONTRACT. THE CONTRACTORS SHALL NOT PERMIT EMPLOYMENT OF UNFIT PERSONS OR PERSONS NOT SKILLED IN THE TASK ASSIGNED TO THEM. ALL IN ACCORDANCE WITH PROJECT MANUAL SECTION - CONDITIONS OF THE CONTRACT.
14. ALL WORKERS WILL BE REQUIRED TO WEAR A PHOTO-IDENTIFICATION BADGE FOR WORKERS IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES. ALL IN ACCORDANCE WITH PROJECT MANUAL SECTION - CONDITIONS OF THE CONTRACT.
15. ALL PROJECT WASTE MATERIAL AND RUBBISH SHALL BE DISPOSED IN CONTAINERS PROVIDED BY THE CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATIONS ARE TO BE COORDINATED WITH SCHOOL DISTRICT OFFICIALS. OFF-SITE DISPOSAL SHALL BE PERFORMED ON A REGULAR BASIS. CONTRACTORS SHALL RESTORE ALL CONDITIONS TO THE STATE OF CLEANLINESS THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
16. ALL INTERIOR SURFACES DISTURBED DURING CONSTRUCTION SHOULD BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONDITIONS TO THE APPROVAL OF THE ARCHITECT/ENGINEER AND OWNER.

GENERAL RACEWAY NOTES

1. QUANTITIES OF MATERIAL AS REQUIRED.
2. ELECTRICAL CONTRACTOR SHALL ROUTE ALL SURFACE RACEWAY AROUND ALL OBSTRUCTIONS.
3. ELECTRICAL CONTRACTOR WILL PROVIDE AND INSTALL ANY OTHER FITTINGS THAT WERE NOT MENTIONED IN ORDER TO PROVIDE A COMPLETE SYSTEM.
4. ELECTRICAL CONTRACTOR MUST MECHANICALLY ANCHOR ALL SURFACE MOUNT RACEWAY WITH ADEQUATE ANCHORS.
5. ELECTRICAL CONTRACTOR MUST SECURE INCOMING MC CABLE TO END FITTING OF SURFACE RACEWAY WITH APPROPRIATE CONNECTORS.
6. WHEREVER SPECIFIED SURFACE RACEWAY IS UNABLE TO BE INSTALLED DUE TO SIZE LIMITATION THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ARCHITECT/ENGINEER SPECIFIED ALTERNATE SURFACE RACEWAY.
7. FINAL COLOR FOR ALL MATERIALS SHALL BE DETERMINED BY ARCHITECT/ENGINEER.
8. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CAT-6 CABLE WITHIN SURFACE RACEWAY.
9. ELECTRICAL CONTRACTOR SHALL REFER TO "E" AND "E9.X" SERIES DRAWINGS FOR COORDINATION OF INSTALLATION.
10. ELECTRICAL CONTRACTOR SHALL INSTALL DIVIDER WALL (WHERE APPLICABLE) CONTINUOUSLY THROUGHOUT SURFACE RACEWAY AND ACCORDING TO MANUFACTURERS SPECIFICATIONS FOR A POWER AND DATA INSTALLATION.
11. THE ELECTRICAL CONTRACTOR SHALL CONFIRM RACEWAY HEIGHT BEFORE INSTALLATION. THE FINAL HEIGHT SHALL BE DETERMINED BY CASEWORK, DESK, WORK SURFACE HEIGHT AND OWNER. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE INSTALLATION OF SURFACE RACEWAY.
12. MAINTAIN APPROPRIATE SEPARATION OF LINE VOLTAGE AND LOW VOLTAGE CABLE.
13. QUANTITY OF DROPS AS PER FLOOR PLANS.
14. CABLES BACK FED OR RACEWAY FED AS REQUIRED.

CAT 6 / CAT 6A NOTES

1. ALL 4-PAIR UTP HORIZONTAL STATION PLENUM RATED CABLES FOR VOICE / DATA SERVICES SHALL BE HOMERUN TO THE NEAREST COMMUNICATIONS ROOM, AS ILLUSTRATED ON THE TECHNOLOGY FLOOR PLANS.
2. REFERENCING THE CABLE PATHS ILLUSTRATED ON THE TECHNOLOGY FLOOR PLANS, FOR WORKSTATIONS, ROUTE THE COMMUNICATIONS CABLES THROUGH THE GYPSUM WALLS, CONCRETE BLOCK AND RACEWAY UP TO THE CEILING CAVITY. COMMUNICATIONS CABLES MAIN PATHWAY WILL BE THE HALLWAYS TO THE NEAREST COMMUNICATIONS ROOM.
3. REFER TO THE REFLECTED CEILING PLANS AND MECHANICAL PLANS TO COORDINATE PATHWAYS IN THE CEILINGS WITH LIGHT FIXTURES AND MECHANICAL DUCT WORK.
4. ALL 4-PAIR UTP HORIZONTAL STATION NETWORK DATA CABLES SHALL LAND SEQUENTIALLY, BY THEIR OUTLET ID, ON THE 48-PORT PATCH PANELS, IN THE RACKS AND CABINETS LOCATED IN THE COMMUNICATIONS ROOMS AS INDICATED ON THE TECHNOLOGY FLOOR PLANS.
5. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE ROUTING OF CABLES ABOVE THE HUNG CEILING WITH THE ELECTRICAL, MECHANICAL AND GENERAL CONTRACTORS PRIOR TO INSTALLATION.
6. ELECTRICAL CONTRACTOR TO VERIFY CEILING HEIGHTS FOR ALL AREAS PRIOR TO INSTALLING ANY CABLE. ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ANY COMPONENTS IN THE CEILING WITH ALL OTHER TRADES, EQUIPMENT AND FIELD CONDITIONS. ANY CABLE TRANSITIONS ROUTED OVER HVAC DUCTS MUST NOT LAY ON TOP OF THE DUCTS AND MUST BE SUPPORTED OVER THE DUCTS.
7. DO NOT LAY CABLES OVER LIGHTING FIXTURES OR ELECTRICAL MACHINERY IN THE HUNG CEILING. CABLES SHALL BE PLACED AT A MINIMUM OF 12 INCHES AWAY FROM MAGNETIC INDUCING EQUIPMENT AND ELECTRICAL WIRING.
8. FURNISH AND INSTALL ADDITIONAL SLEEVES (WITH GROMMETED ENDS) AS REQUIRED FOR THE ENTRANCES INTO THE COMMUNICATIONS ROOMS AND ANY OTHER APPLICABLE AREAS. ALL SLEEVES SHALL BE FIRESTOPPED WHEN THE INSTALLATION IS COMPLETED.
9. PROVIDE ALL PENETRATIONS AND RATED PARTITION FIRESTOPPING EVERY TIME A PARTITION IS TRAVERSED ABOVE THE HUNG CEILING. EXISTING FIREPROOFING MATERIAL WHICH IS DISTURBED OR DAMAGED BY THE WORK UNDER THIS CONTRACT SHALL BE REPLACED AND RESTORED TO THE SATISFACTION OF THE OWNER.
10. FURNISH AND INSTALL TRAPEZE, BRIDAL RINGS, CADDY HANGERS, J-HOOKS AND OTHER INDUSTRY ACCEPTED METHODS REQUIRED TO SUPPORT ALL INSTALLED CABLES. DO NOT SUPPORT CABLES ON CEILING BLACK IRON, DROP CEILING GRID OR ON ANY OTHER DEVICES THAT ARE NOT INTENDED FOR THE SUPPORTING OF CABLES. EXCEPT FOR GROUPS OF 10 OR FEWER CABLES, CABLE SUPPORTS SHALL BE ANCHORED TO THE UNDERSIDE OF THE SLAB AND CLAMPED TO BUILDING STEEL.
11. CABLES MUST BE SUPPORTED AT A MINIMUM EVERY FIVE (5) FEET OF CENTER AND BUNDLES MUST BE HOOK AND LOOPED TOGETHER AT A MINIMUM OF EVERY THREE (3) FEET.
12. ALL CABLES SHALL BE INSPECTED AS THEY ARE PULLED OFF THE REEL FOR ANY OBVIOUS DEFECTS. REPORT ANY DEFECTS IMMEDIATELY TO THE ENGINEER AND HALT FURTHER USE OF THE CABLE FROM THAT REEL, PENDING A DETERMINATION OF THE QUALITY OF THE REEL BY THE MANUFACTURER.
13. ALL CABLES SHALL BE PULLED BY HAND AND CONTINUOUSLY MONITORED BY A TENSION METER SO AS NOT TO EXCEED THE PRESCRIBED MAXIMUM PULLING TENSION RECOMMENDED BY THE MANUFACTURER.
14. ELECTRICAL CONTRACTOR SHALL NOT EXCEED THE CABLE PULLING FORCE AND MINIMUM CABLE BENDING RADIUS. CABLE TERMINATIONS AT DISTRIBUTION RACKS/CABINETS FOR VOICE AND DATA SHALL BE DRESSED NEATLY AND DONE IN A WORKMANLIKE MANNER. HOOK & LOOP CABLES AND CUT TO LENGTH AT TERMINATION POINTS.
15. WHEN INSTALLING ENHANCED CATEGORY-6 UTP CABLE, MAKE SURE THE CABLE IS NEVER BENT BEYOND A 90 DEGREE ANGLE. A CABLE BEND RADIUS OF 4 TIMES THE DIAMETER OF THE CABLE IS RECOMMENDED. (ON A 4-PAIR CABLE, THIS IS APPROXIMATELY ONE INCH.)
16. ALL CABLES SHALL BE PULLED BY THE ELECTRICAL CONTRACTOR IN CONTINUOUS SPLICE-FREE RUNS, WITH NO FACTORY OR FIELD SPLICES, UNLESS OTHERWISE SHOWN ON THE DRAWINGS AND/OR SPECIFICATIONS.
17. PULLING AND LAYING CABLE ON SHARP EDGES IS NOT PERMITTED.
18. THE CABLE PATHS SHOWN ON DRAWINGS REPRESENT DESIGN INTENT AND APPROXIMATE ROUTING OF CABLES IN HUNG CEILING TO DROP OFF POINTS. ADJUST ACCORDINGLY TO EXISTING FIELD CONDITIONS.
19. QUANTITY OF CABLE IS NOT REPRESENTED. CONTRACTOR SHALL TABULATE QUANTITY BASED UPON COMMUNICATION OUTLET SYMBOLS SHOWN (TYPICAL). CONTRACTOR TO VERIFY IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED.
20. PROVIDE A MINIMUM OF SIX (6) FEET OF SLACK WITH A 12 INCH DIAMETER COIL AT THE STATION END FOR WORKSTATION LOCATIONS. NEATLY COIL AND CONCEAL SLACK ABOVE THE HUNG CEILING AND PROTECT FROM DAMAGE BY WORKMEN PRIOR TO EXTENDING CABLE AND INSTALLING TO VOICE/DATA WORKSTATION OUTLET.
21. ALL VOICE / DATA UTP STATION CABLES SHALL BE HOMERUN BACK TO THE MAIN -OR- IDF COMMUNICATIONS ROOM AS ILLUSTRATED ON THE TECHNOLOGY FLOOR PLANS. REFER TO DETAILS AND ELEVATIONS FOR THE DEMARCATION LOCATIONS OF ALL CABLES.
22. ALL ABANDONED / NON USED CABLES TO BE REMOVED FROM PLENUM SPACES BACK TO THEIR POINT OF ORIGIN.
23. ALL NEW NETWORK EQUIPMENT SHALL BE GROUNDED AND BONDED AS PER CODE.
24. E.C. SHALL ROUTE CABLES IN THE BEST, SHORTEST ROUTE POSSIBLE TO THE NEAREST WIRE CLOSET.
25. E.C. SHALL REMOVE AND REINSTALL CEILING TILES AS REQUIRED TO ACCOMMODATE CABLE INSTALLATIONS.
26. E.C. SHALL FURNISH AND INSTALL ALL NECESSARY COMPONENTS TO FORM A COMPLETE SYSTEM EVEN IF THE COMPONENTS ARE NOT LISTED. REFER TO SPEC SECTION 271501 FOR ADDITIONAL INFORMATION.

FIBER OPTIC CABLE NOTES

1. ALL LASER OPTIMIZED .50 MICRON OM3 MULTIMODE FIBER PLENUM RATED CABLES FOR CLOSET BACKBONE CONNECTIONS SHALL BE A HOMERUN TO THE NETWORK OPERATIONS CENTER (N.O.C.) ROOM OR MDF, AS ILLUSTRATED ON THE TECHNOLOGY FLOOR PLANS.
2. REFERENCING THE CABLE PATHS ILLUSTRATED ON THE TECHNOLOGY FLOOR PLANS, FOR FIBER BACKBONES ON THIS FLOOR, ROUTE THE COMMUNICATIONS CABLES THROUGH THE GYPSUM WALLS, CONCRETE BLOCK AND RACEWAY UP TO THE CEILING CAVITY. FIBER CABLES MAIN PATHWAY WILL BE THE HALLWAYS TO THE N.O.C. ROOM OR MDF.
3. ALL FIBER BACKBONE CABLES SHALL LAND SEQUENTIALLY, BY STRAND, ON THE FIBER BULK HEADS WITHIN THE FIBER PANELS, IN THE RACKS / CABINETS LOCATED IN THE COMMUNICATIONS ROOMS AS INDICATED ON THE TECHNOLOGY FLOOR PLANS.
4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE ROUTING OF CABLES ABOVE THE HUNG CEILING WITH THE ELECTRICAL, MECHANICAL AND GENERAL CONTRACTORS PRIOR TO INSTALLATION.
5. ELECTRICAL CONTRACTOR TO VERIFY CEILING HEIGHTS FOR ALL AREAS PRIOR TO INSTALLING ANY CABLE. ELECTRICAL CONTRACTOR TO COORDINATE THE INSTALLATION OF ANY COMPONENTS IN THE CEILING WITH ALL OTHER TRADES, EQUIPMENT AND FIELD CONDITIONS. ANY CABLE TRANSITIONS ROUTED OVER HVAC DUCTS MUST NOT LAY ON TOP OF THE DUCTS AND MUST BE SUPPORTED OVER THE DUCTS.
6. DO NOT LAY CABLES OVER LIGHTING FIXTURES OR ELECTRICAL MACHINERY IN THE HUNG CEILING. CABLES SHALL BE PLACED AT A MINIMUM OF 12 INCHES AWAY FROM MAGNETIC INDUCING EQUIPMENT.
7. FURNISH AND INSTALL ADDITIONAL SLEEVES (WITH GROMMETED ENDS) AS REQUIRED FOR THE ENTRANCES INTO THE COMMUNICATIONS ROOMS AND ANY OTHER APPLICABLE AREAS. ALL SLEEVES SHALL BE FIRESTOPPED WHEN THE INSTALLATION IS COMPLETED.
8. PROVIDE ALL PENETRATIONS AND RATED PARTITION FIRESTOPPING EVERY TIME A PARTITION IS TRAVERSED ABOVE THE HUNG CEILING. EXISTING FIREPROOFING MATERIAL WHICH IS DISTURBED OR DAMAGED BY THE WORK UNDER THIS CONTRACT SHALL BE REPLACED AND RESTORED TO THE SATISFACTION OF THE OWNER.
9. FURNISH AND INSTALL TRAPEZE, BRIDAL RINGS, CADDY HANGERS, J-HOOKS AND OTHER INDUSTRY ACCEPTED METHODS REQUIRED TO SUPPORT ALL INSTALLED CABLES. DO NOT SUPPORT CABLES ON CEILING BLACK IRON, DROP CEILING GRID OR ON ANY OTHER DEVICES THAT ARE NOT INTENDED FOR THE SUPPORTING OF CABLES. EXCEPT FOR GROUPS OF 10 OR FEWER CABLES, CABLE SUPPORTS SHALL BE ANCHORED TO THE UNDERSIDE OF THE SLAB AND CLAMPED TO BUILDING STEEL.
10. CABLES MUST BE SUPPORTED AT A MINIMUM EVERY SIX (6) FEET AND BUNDLES MUST BE HOOK & LOOPED TOGETHER AT A MINIMUM OF EVERY THREE (3) FEET.
11. ALL CABLES SHALL BE INSPECTED AS THEY ARE PULLED OFF THE REEL FOR ANY OBVIOUS DEFECTS. REPORT ANY DEFECTS IMMEDIATELY TO THE ENGINEER AND HALT FURTHER USE OF THE CABLE FROM THAT REEL, PENDING A DETERMINATION OF THE QUALITY OF THE REEL BY THE MANUFACTURER.
12. ALL CABLES SHALL BE PULLED BY HAND AND CONTINUOUSLY MONITORED BY A TENSION METER SO AS NOT TO EXCEED THE PRESCRIBED MAXIMUM PULLING TENSION RECOMMENDED BY THE MANUFACTURER.
13. ELECTRICAL CONTRACTOR SHALL NOT EXCEED THE CABLE PULLING FORCE AND MINIMUM CABLE BENDING RADIUS. CABLE TERMINATIONS AT DISTRIBUTION RACKS/CABINETS FOR FIBER CABLES SHALL BE DRESSED NEATLY AND DONE IN A WORKMANLIKE MANNER. ALL FIBER CABLES TO BE INSTALLED WITHIN THE FAN TRAY OF THE FIBER PANEL UTILIZING THE APPROPRIATE BEND RADIUS AT TERMINATION POINTS.
14. WHEN INSTALLING FIBER CABLE, MAKE SURE THE CABLE IS NEVER BENT BEYOND A 90 DEGREE ANGLE. A CABLE BEND RADIUS OF 10 TIMES THE DIAMETER OF THE CABLE IS RECOMMENDED. (ON A 12-STRAND CABLE, THIS IS APPROXIMATELY TWO INCHES.)
15. ALL CABLES SHALL BE PULLED BY THE ELECTRICAL CONTRACTOR IN CONTINUOUS SPLICE-FREE RUNS, WITH NO FACTORY OR FIELD SPLICES, UNLESS OTHERWISE SHOWN ON DRAWINGS AND/OR SPECIFICATIONS.
16. PULLING AND LAYING CABLE ON SHARP EDGES IS NOT PERMITTED.
17. THE CABLE PATHS SHOWN ON DRAWINGS REPRESENT DESIGN INTENT AND APPROXIMATE ROUTING OF CABLES IN HUNG CEILING TO DROP OFF POINTS. ADJUST ACCORDINGLY TO EXISTING FIELD CONDITIONS.
18. QUANTITY OF CABLE IS NOT REPRESENTED. CONTRACTOR SHALL TABULATE QUANTITY BASED UPON COMMUNICATION OUTLET SYMBOLS SHOWN (TYPICAL). CONTRACTOR TO VERIFY IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED.
19. PROVIDE A MINIMUM OF SEVEN (7) FEET OF SLACK AT BOTH THE COMMUNICATIONS ROOM END AND THE N.O.C. ROOM OR MDF. NEATLY COIL SLACK AND ATTACH TO THE RACK/CABINET USING HOOK AND LOOP.
20. ALL FIBER OPTIC CABLE TO BE HOMERUN BACK TO THE N.O.C. ROOM OR MDF AS INDICATED. REFER TO DETAIL PLANS AND ELEVATIONS FOR THE DEMARCATION LOCATIONS OF ALL CABLES.
21. ALL ABANDONED/NON USED CABLES TO BE REMOVED FROM THE PLENUM SPACES BACK TO THE POINT OF ORIGIN.
22. ALL NEW NETWORK EQUIPMENT SHALL BE GROUNDED AND BONDED AS PER CODE.
23. E.C. SHALL FURNISH AND INSTALL ALL NECESSARY COMPONENTS TO FORM A COMPLETE SYSTEM EVEN IF THE COMPONENTS ARE NOT LISTED. REFER TO SPEC SECTION 271501 FOR ADDITIONAL INFORMATION.

TECHNOLOGY SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	KEYED NOTE
NAME XXX XXX SF	ROOM TAG
# AX.XX	DETAIL TAG — DETAIL NUMBER — DRAWING NUMBER
	LOCATION OF NEW LOCAL WIRE CLOSET. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
E	LOCATION OF EXISTING LOCAL WIRE CLOSET. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW SINGLE DATA DROP. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW MULTI DATA DROP. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW PHONE LOCATION. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
E	LOCATION OF EXISTING SINGLE DATA DROP. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
E	LOCATION OF EXISTING MULTI DATA DROP. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
E	LOCATION OF EXISTING PHONE LOCATION. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
W.A.P. 001	LOCATION OF NEW WIRELESS ACCESS POINT. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
W.A.P. E	LOCATION OF EXISTING WIRELESS ACCESS POINT. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
PROJ.	LOCATION OF NEW PROJECTOR. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
PROJ. E	LOCATION OF EXISTING PROJECTOR. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW DROP DOWN PROJECTION SCREEN. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
POKE THROUGH	LOCATION OF NEW DATA/POWER POKE THROUGH. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF DATA/POWER RACEWAY. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
C	LOCATION OF NEW CATV STATION. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
RWB	LOCATION OF NEW RECESSED DATA/POWER WALL BOX. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
WB	LOCATION OF NEW DATA/POWER WALL BOX. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
FLBX	LOCATION OF NEW DATA/POWER FLOOR BOX. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
D001	INDICATES DATA DROP ID NUMBER. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
V001	INDICATES VOICE DROP ID NUMBER. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW DATA/POWER POLE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
1	REVISION CLOUD AND KEYED DESIGNATION.

SECURITY SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	KEYED NOTE
NAME XXX XXX SF	ROOM TAG
# AX.XX	DETAIL TAG — DETAIL NUMBER — DRAWING NUMBER
	LOCATION OF EXISTING INTERIOR SECURITY CAMERA. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF EXISTING EXTERIOR CAMERA. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW INTERIOR SECURITY CAMERA. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW EXTERIOR SECURITY CAMERA. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
P	LOCATION OF NEW SECURITY PANIC BUTTON. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW ACCESS CONTROL CARD READER. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF EXISTING ACCESS CONTROL CARD READER. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
R	LOCATION OF NEW REQUEST FOR EXIT SENSOR. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW VIDEO INTERCOM CALL BOX. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
DC	LOCATION OF NEW ACCESS CONTROL DOOR CONTACT. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
ES	LOCATION OF NEW ELECTRONIC DOOR STRIKE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW MOTION DETECTOR. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF NEW VIDEO INTERCOM STATION PHONE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
H	LOCATION OF NEW SECURITY HORN. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
S	LOCATION OF NEW SECURITY STROBE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
HS	LOCATION OF NEW SECURITY HORN STROBE. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
	LOCATION OF EXISTING/NEW LOCAL WIRE CLOSET. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
1	REVISION CLOUD AND KEYED DESIGNATION.

REV.	DATE	ITEM

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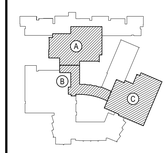

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

GENERAL NOTES,
LEGENDS and ABBREVIATIONS

DRAWING BY: GJL

CHECK BY: - - -

NOTICE

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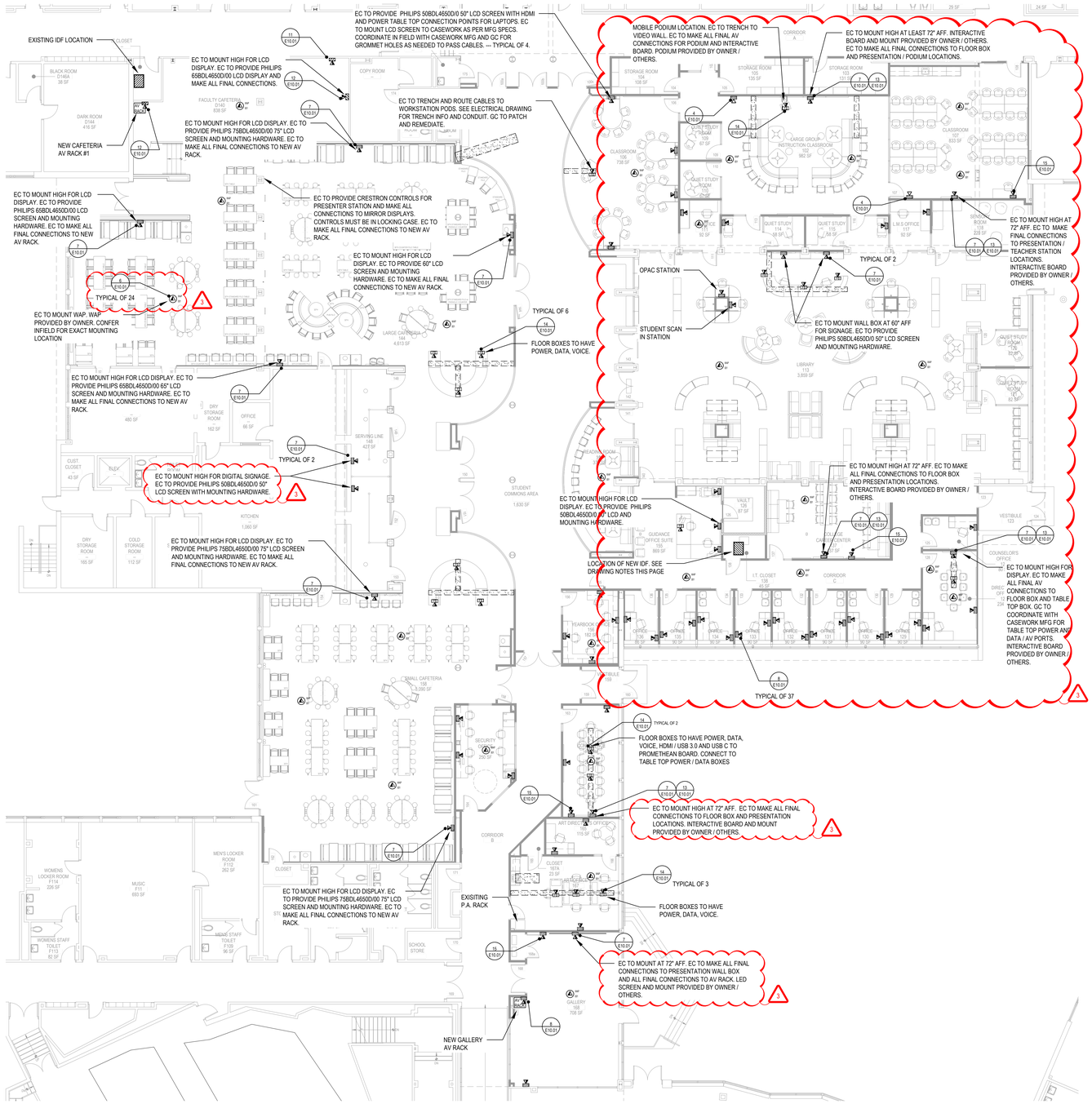
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	GENERAL NOTES, LEGENDS and ABBREVIATIONS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E9.00



PROPOSED FIRST FLOOR TECHNOLOGY PLAN AREA 'A' & 'B'

NOTE:

SCALE: 3/32" = 1'-0"

AUDIO VISUAL NOTES

BASIS OF VIDEO SYSTEM DESIGN:

ADVANCE SOUND COMPANY
157 ROME STREET
FARMINGDALE, NY 11735
CONTACT: MR. THOMAS DEPACE
PHONE NUMBER:631-667-0973
EMAIL: TDEPACE@ADVANCESOUND.COM

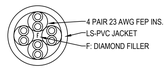
DRAWING NOTES

1. EC TO COORIDINATE WITH OWNER TO IDENTIFY ACTIVE LINES IN EXISTING IDF ON TELCO DMARK BLOCKS AND COORDINATE MOVE FOR ACTIVE LINES ONLY TO NEW DMARK BLOCKS IN NEW IDF WITH PROVIDER.
2. EXISTING CAT6 CABLES TO BE IDENTIFIED ON DATA RACK AND PRESERVED.
3. EC TO REMOVE ENTIRE LENGTH OF ALL ABANDONED CAT6 FROM DATA RACK.
4. EC TO COORDINATE IN FIELD WITH OWNER. EXISTING DATA RACKS MUST BE PRESERVED AND MAINTAINED OPERATIONAL DURING RENOVATION.
5. EC TO PROVIDE 12 STRAND MULTIMODE OM4 FIBER AQUA COLOR FROM MDF TO NEW IDF LOCATION.
6. EC TO PROVIDE TWO POST DATA RACK (QTY 2) FOR NEW IDF LOCATION.

CAT6 NOTES

1. MOHAWK COPPER CABLE DETAIL DISTRICT COLOR STANDARD TO BE USED:

M57414 CAT 6E CABLE BLUE — FOR DATA / VOICE LOCATIONS



DATA DROP LABELING AS FOLLOWS:

EX: RM# - 01

REV.	DATE	ITEM
03	03/12/25	ADD. NO. 03

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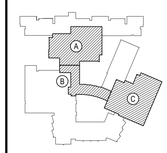

KEY PLAN

NOT TO SCALE

PROJECT: BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE: FIRST FLOOR TECHNOLOGY PLANS

DRAWING BY: GJL
CHECK BY: - - -

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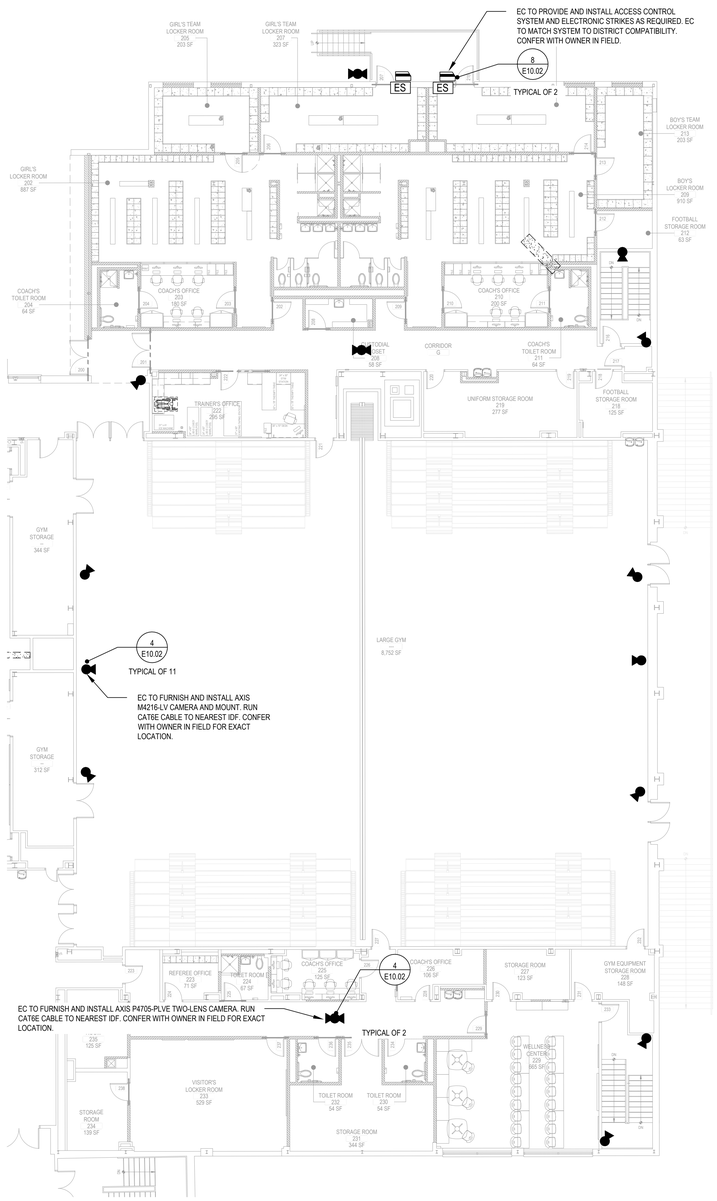
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR TECHNOLOGY PLANS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

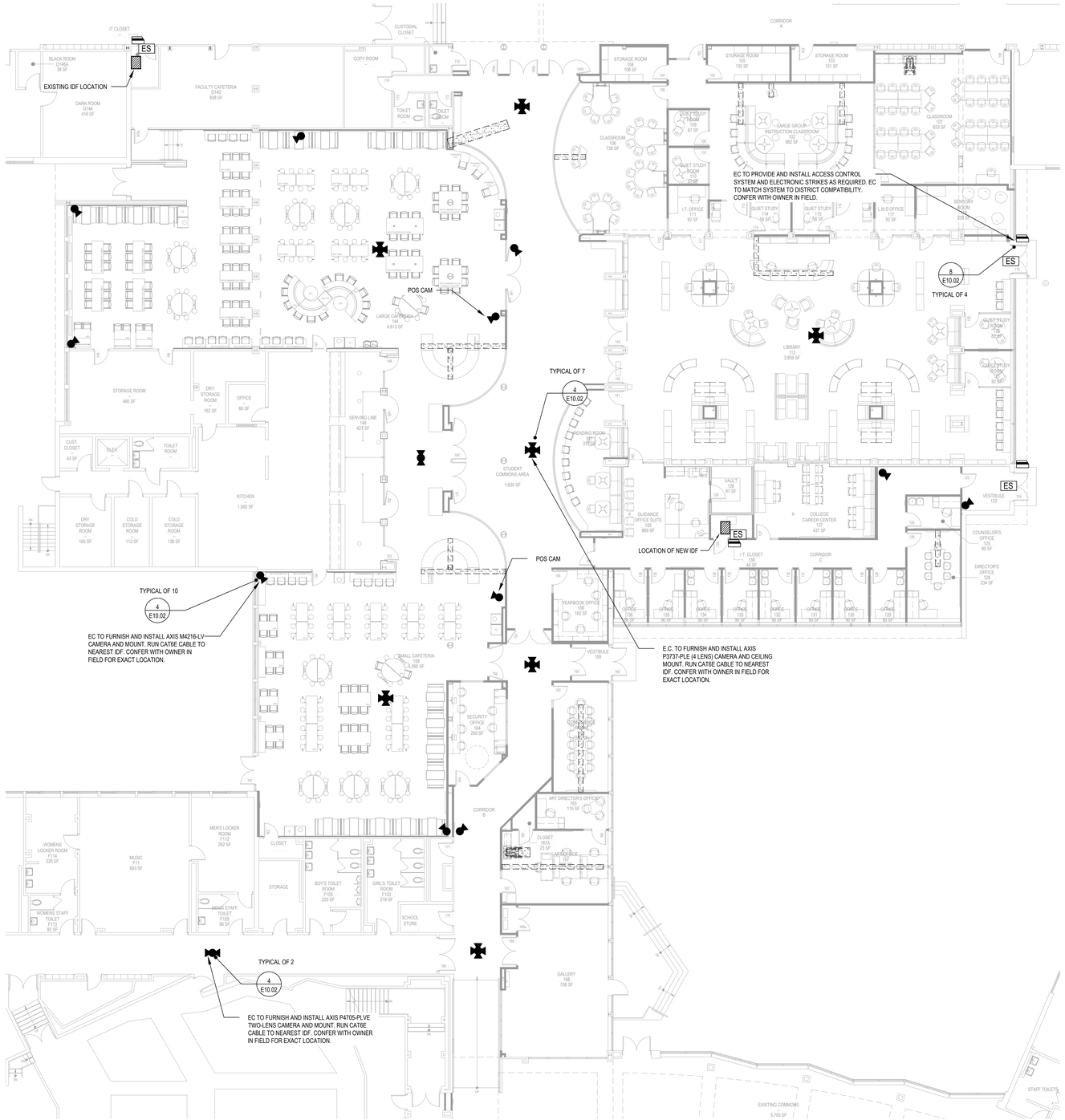
E9.01



PROPOSED FIRST FLOOR SECURITY PLAN AREA 'C'

NOTE:

SCALE: 3/32" = 1'-0"



PROPOSED FIRST FLOOR SECURITY PLAN AREA 'A' & 'B'

NOTE:

SCALE: 3/32" = 1'-0"

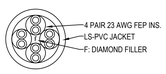
DRAWING NOTES

1. EC TO COORIDINATE WITH OWNER TO IDENTIFY ACTIVE LINES IN EXISTING IDF ON TELCO DMARK BLOCKS AND COORDINATE MOVE FOR ACTIVE LINES ONLY TO NEW DMARK BLOCKS IN NEW IDF WITH PROVIDER.
2. EXISTING CAT6 CABLES TO BE IDENTIFIED ON DATA RACK AND PRESERVED.
3. EC TO REMOVE ENTIRE LENGTH OF ALL ABANDONED CAT6 FROM DATA RACK.
4. EC TO COORDINATE IN FIELD WITH OWNER. EXISTING DATA RACKS MUST BE PRESERVED AND MAINTAINED OPERATIONAL DURING RENOVATION.
5. **BASIS OF SECURITY SYSTEM DESIGN:**
   DIGITAL PROVISIONS
   3385-E VETERANS MEMORIAL HWY.
   RONKONKOMA, NY 11779
   CONTACT: MR. BRIAN MCCABE
   PHONE: 631-209-2600 EXT 14
   EMAIL: BMCCABE@DIGITALPROVISIONS.COM

CAT6 NOTES

1. MOHAWK COPPER CABLE DETAIL DISTRICT COLOR STANDARD TO BE USED:

M57414 CAT 6E CABLE BLUE FOR DATA / VOICE LOCATIONS



DATA DROP LABELING AS FOLLOWS:

EX: RM# - 01

REV.	DATE	ITEM

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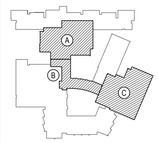

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR
SECURITY PLANS

DRAWING BY: GJL

CHECK BY: - - -

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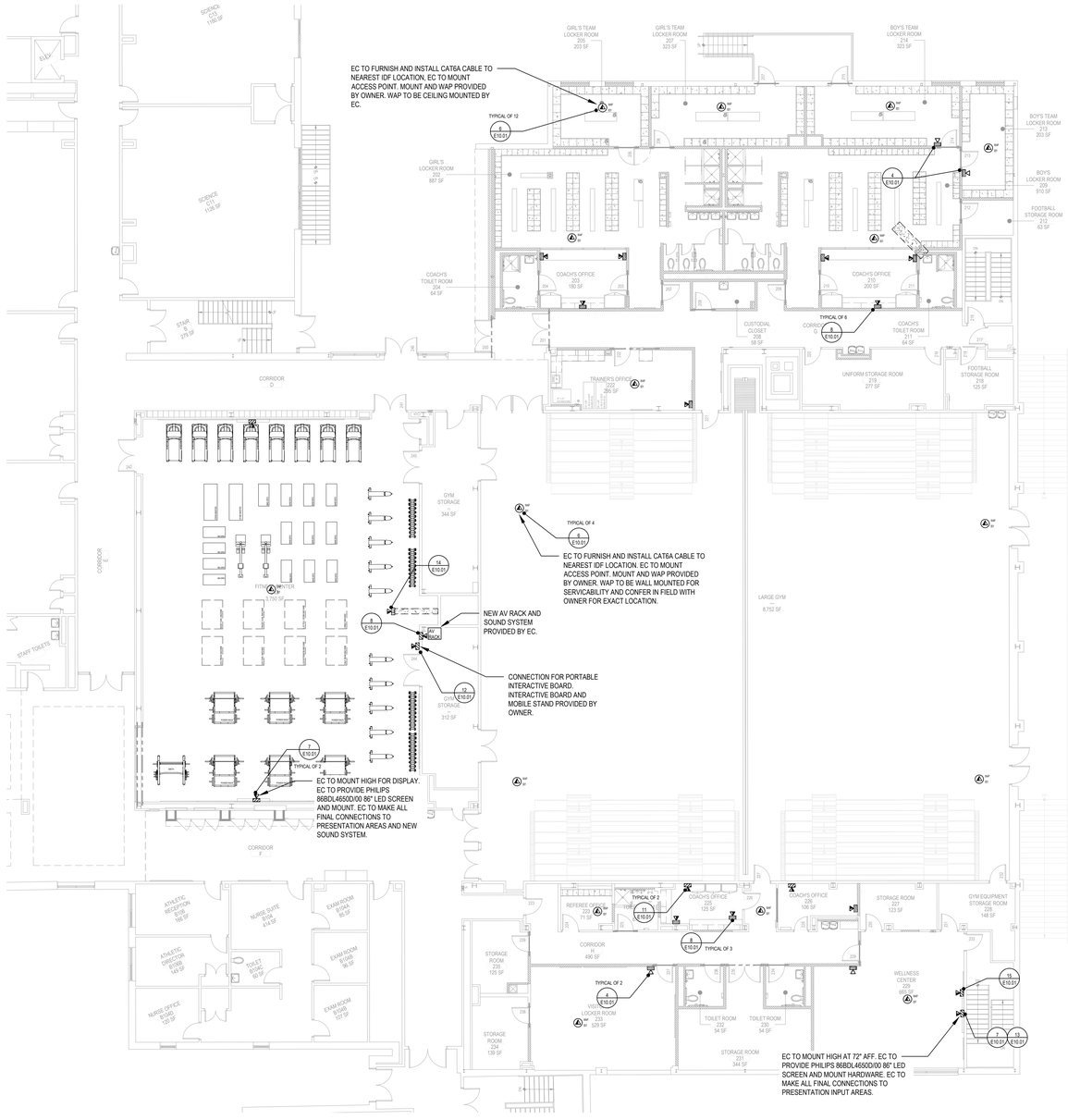
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR SECURITY PLANS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E9.02



PROPOSED FIRST FLOOR TECHNOLOGY PLAN AREA 'C'

NOTE:

SCALE: 3/32" = 1'-0"

AUDIO VISUAL NOTES

BASIS OF VIDEO SYSTEM DESIGN:

ADVANCE SOUND COMPANY
157 ROME STREET
FARMINGDALE, NY 11735
CONTACT: MR. THOMAS DEPACE
PHONE NUMBER:631-667-0973
EMAIL: TDEPACE@ADVANCESOUND.COM

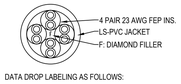
DRAWING NOTES

1. EC TO REMOVE ENTIRE LENGTH OF ALL ABANDONED CAT6 FROM AREA.
2. EC TO RUN ALL NEW CAT 6 / 6A CABLE AS SPECIFIED TO ALL NEW DATA LOCATIONS.
3. EC TO COORDINATE IN FIELD WITH OWNER.

CAT6 NOTES

1. MOHAWK COPPER CABLE DETAIL DISTRICT COLOR STANDARD TO BE USED:

M57414 CAT 6E CABLE BLUE — FOR DATA / VOICE LOCATIONS



DATA DROP LABELING AS FOLLOWS:

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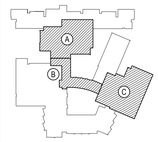

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

FIRST FLOOR
TECHNOLOGY PLAN AREA 'C'

DRAWING BY: GJL

CHECK BY: - - -

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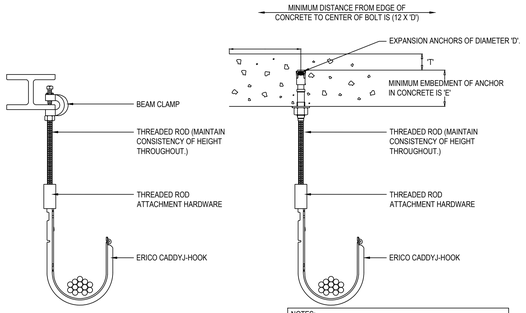
SED No:	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	FIRST FLOOR TECHNOLOGY PLAN AREA 'C'
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

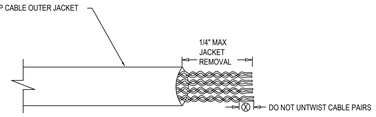
E9.03



NOTES:
1. SIZE J-HOOK AND CLAMP TO ADEQUATELY SUPPORT LOAD.
2. FOR SECURE ATTACHMENT, USE RETAINING STRAP.
3. COLOR OF J-HOOK TO MATCH CEILING WHEN INSTALLED IN AN OPEN CEILING DESIGN.

1 J-HOOK INSTALLATION DETAIL

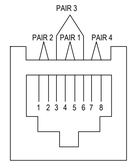
SCALE: N.T.S.



NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL REMOVE NO MORE THAN ½" OF THE OUTER JACKET OF THE CABLE DURING TERMINATION..
2. THE ELECTRICAL CONTRACTOR SHALL NOT UNTWIST THE INDIVIDUAL PAIRS.
3. THE ELECTRICAL CONTRACTOR SHALL USE AN INDUSTRY/MANUFACTURER ACCEPTED PUNCHDOWN/TERMINATION IMPACT TOOL FOR ALL CABLE TERMINATIONS. STUFFER CAPS SHALL NOT BE USED IN LIEU OF PUNCHDOWN/TERMINATION IMPACT TOOL.
4. THE ELECTRICAL CONTRACTOR SHALL NOT LEAVE "TAILS" HANGING OFF AT TERMINATION POINTS.

2 TYPICAL CABLE INSTALLATION DETAIL

SCALE: N.T.S.



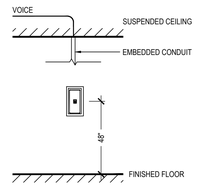
PAIR 1	WHITE/BLUE BLUE/WHITE	PAIR 3	WHITE/GREEN GREEN/WHITE
PAIR 2	WHITE/ORANGE ORANGE/WHITE	PAIR 4	WHITE/BROWN BROWN/WHITE

NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RJ-45 TYPE MODULAR JACKS T568B WIRED (TYPICAL).
2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TERMINATE 4 PAIR UTP CABLE PAIRS AS ILLUSTRATED ABOVE (TYPICAL).

3 TYPICAL T568B CABLE PAIR ASSIGNMENTS

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	---	RECESSED STANDARD WALL BOX 1 GANG DRY WALL	---
1	SP6R	STAINLESS STEEL PHONE PLATE	HUBBELL
1	HXJ6Y	CAT6 RJ45 CONNECTOR - YELLOW	HUBBELL



4 TYPICAL RECESSED MOUNTED PHONE WALL BOX

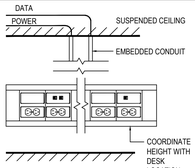
RWB

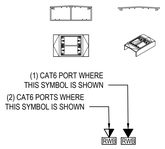
NOTE:
1. REFER TO DRAWINGS FOR QUANTITY.
2. INSTALL CONDUIT AS NEEDED.

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
AS REQD	PB2C10	DUAL CHANNEL RACEWAY COVER	HUBBELL
AS REQD	PB2B10	DUAL CHANNEL RACEWAY BASE	HUBBELL
AS REQD	PB2IND2G	INLINE BOX 2 GANG	HUBBELL
1	PB3ECA	END CAP	HUBBELL
AS REQD	KP8	DUPLEX RECEPTACLE	HUBBELL
AS REQD	REFER TO E4.XX	DUPLEX RECEPTACLE	HUBBELL
1	KPIMBZOW	KP MODULE BEZEL	HUBBELL
AS REQD	HXJ6B	CAT6 RJ45 CONNECTOR	HUBBELL
AS REQD	ISF2OW	2 PORT COMMUNICATION PLATE	HUBBELL
AS REQD	KP14	BLANK PLATE	HUBBELL

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. COORDINATE HEIGHT WITH DESK LOCATION
3. ALLOW 3' ON CENTER BETWEEN EACH DROP



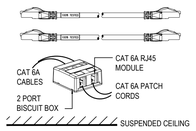


5 TYPICAL DATA/POWER SURFACE RACEWAY

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	ISB2BK	2 PORT BISCUIT BOX	HUBBELL
2	HC6B10	10' PATCH CORD	HUBBELL
2	HXJ6B	RJ45 DATA CONNECTOR - BLUE	HUBBELL

NOTES:
1. SECURE BISCUIT BOX TO BUILDING STRUCTURE
2. REFER TO DRAWINGS FOR QUANTITIES

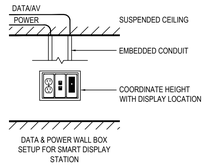


6 TYPICAL CAT 6 WIRELESS ACCESS POINT

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	HBL986	RECESSED WALL BOX 3 GANG DRY WALL	HUBBELL
1	HBLTRIM3WI	WALL BOX TRIM RING	HUBBELL
1	NS612LA	2 PORT MODULE DECORATOR FRAME	HUBBELL
1	DR20ALTR	TAMPER RESISTANT DUPLEX OUTLET	HUBBELL
1	HBLST301SWA	DUPLEX DECORATOR FACEPLATE	HUBBELL
1	NP263LA	3 GANG DECORATOR STYLE FACE PLATE	HUBBELL
2	HXJ6B	CAT6 RJ45 CONNECTOR - BLUE	HUBBELL
1	WP-1014-WH	SINGLE GANG PASS THROUGH W/ BRUSH	LEGRAND
1	P568-035	HDMI MALE TO MALE CABLE	TRIPP LITE

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. INSTALL CONDUIT AS NEEDED
3. CONTRACTOR TO PROVIDE HDMI AND USB 3.0 CABLE AND MAKE ALL FINAL CONNECTIONS



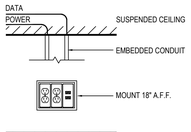
7 TYPICAL DISPLAY WALL BOX

RWB

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	HBL986	RECESSED WALL BOX 3 GANG DRY WALL	HUBBELL
1	HBL989	LOW VOLTAGE PARTITION	HUBBELL
1	NP263W	3 GANG WALL PLATE - WHITE	HUBBELL
2	DR20WHTR	TAMPER RESISTANT DECORATOR DUPLEX OUTLET - WHITE	HUBBELL
AS REQD	ISF4W	4 PORT DECORATOR RJ45 FRAME - WHITE	HUBBELL
AS REQD	ISF2W	2 PORT DECORATOR RJ45 FRAME - WHITE	HUBBELL
AS REQD	HXJ6B	CAT6 RJ45 CONNECTOR - BLUE	HUBBELL

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. INSTALL CONDUIT AS NEEDED

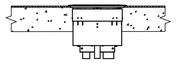


8 TYPICAL RECESSED WALL BOX

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	S1R6PTALU	6" POKE THROUGH WITH COVER	HUBBELL
1	ISF4W	4 PORT DECORATOR INSERT	HUBBELL
2	S1R6SPH	20 AMP PRE-WIRED DUPLEX RECEPTACLE OUTER RING	HUBBELL
1	S1R6SPE	DECORATOR STYLE OPENING PLATES	HUBBELL
6	HJU6B	CAT 6 RJ45 CONNECTORS - BLUE	HUBBELL

NOTES:
1. PROVIDE DIVIDED POKE THRU WITH DATA CABLES AND ELECTRICAL OUTLETS.
2. REFER TO DRAWINGS FOR QUANTITIES.
3. COORDINATE LOCATION WITH FURNITURE PLANS.
4. INSTALL CONDUIT AS NEEDED.



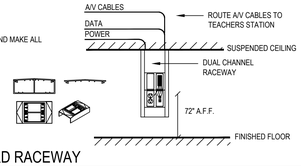
PT

9 TYPICAL LARGE POKE THROUGH

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	PB2CACF	CEILING FITTING	HUBBELL
AS REQ.	PB2C10	DUAL CHANNEL RACEWAY COVER	HUBBELL
AS REQ.	PB2B10	DUAL CHANNEL RACEWAY BASE	HUBBELL
2	PB2IND2G	INLINE BOX 2 GANG	HUBBELL
1	PB3ECA	END CAP	HUBBELL
3	KP26	DECORA DUPLEX FACEPLATE	HUBBELL
1	DR20WHTR	DUPLEX TAMPER RESISTANT 20AMP OUTLET	HUBBELL
1	KP14	BLANK PLATE	HUBBELL
2	HXJ6B	RJ45 CAT 6 CONNECTOR BLUE	HUBBELL
2	KPIMBZOW	KP MODULE BEZEL	HUBBELL
1	ISF2OW	2 PORT RJ45 FRAME	HUBBELL
1	WP-1014-WH	SINGLE GANG PASS THROUGH WITH BRUSH	LEGRAND
1	CAT5-XT-1100	CAT 5 USB EXTENDERS FOR SMART BOARD TO PC	SMART

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. CONTRACTOR TO PROVIDE HDMI AND USB 3.0 CABLES AND MAKE ALL FINAL CONNECTIONS

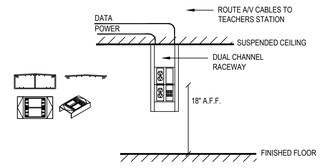


10 TYPICAL SMART BOARD RACEWAY

RWB

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	PB2CACF	CEILING FITTING	HUBBELL
AS REQ.	PB2C10	DUAL CHANNEL RACEWAY COVER	HUBBELL
AS REQ.	PB2B10	DUAL CHANNEL RACEWAY BASE	HUBBELL
2	PB2IND2G	INLINE BOX 2 GANG	HUBBELL
1	PB3ECA	END CAP	HUBBELL
3	KP26	DECORA DUPLEX FACEPLATE	HUBBELL
2	DR20WHTR	DUPLEX TAMPER RESISTANT 20AMP OUTLET	HUBBELL
4	HXJ6B	RJ45 CAT 6 CONNECTOR BLUE	HUBBELL
2	KPIMBZOW	KP MODULE BEZEL	HUBBELL
1	ISF4OW	4 PORT RJ45 FRAME	HUBBELL
1	KP-14	BLANK COVER	HUBBELL



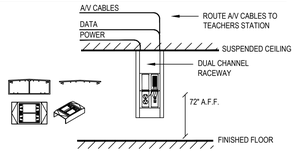
11 TYPICAL 4 PORT WORK STATION COMPONENTS

RWB

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	PB2CACF	CEILING FITTING	HUBBELL
AS REQ.	PB2C10	DUAL CHANNEL RACEWAY COVER	HUBBELL
AS REQ.	PB2B10	DUAL CHANNEL RACEWAY BASE	HUBBELL
2	PB2IND2G	INLINE BOX 2 GANG	HUBBELL
1	PB3ECA	END CAP	HUBBELL
3	KP26	DECORA DUPLEX FACEPLATE	HUBBELL
1	DR20WHTR	DUPLEX TAMPER RESISTANT 20AMP OUTLET	HUBBELL
1	KP14	BLANK PLATE	HUBBELL
2	HXJ6B	RJ45 CAT 6 CONNECTOR BLUE	HUBBELL
2	KPIMBZOW	KP MODULE BEZEL	HUBBELL
1	ISF2OW	2 PORT RJ45 FRAME	HUBBELL
1	WP-1014-WH	SINGLE GANG PASS THROUGH WITH BRUSH	LEGRAND

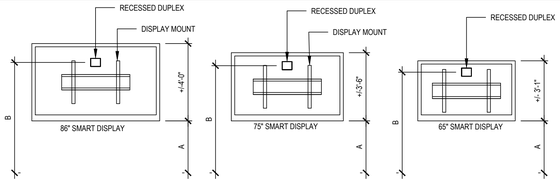
NOTES:
1. REFER TO DRAWINGS FOR QUANTITY



12 TYPICAL WALL MOUNT MONITOR RACEWAY

RWB

SCALE: N.T.S.



GRADE	A	B 86" DISPLAY	B75" DISPLAY	B 65" DISPLAY
PRE-K-2ND	24"	60"	58"	54"
3RD-5TH	28"	64"	62"	58"
6TH-8TH	32"	68"	66"	62"
9TH-12TH	36"	72"	70"	66"

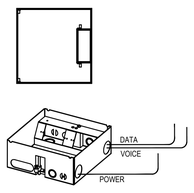
13 TYPICAL SMARTBOARD MOUNTING HEIGHT

RWB

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	CFB4G25	4 GANG FLOOR BOX	HUBBELL
1	24GTCVRALU	FLOOR BOX COVER (ALUMINUM)	HUBBELL
1	FBMPREC	DECORATOR OPENING	HUBBELL
3	PWFBMPDR20GRYTR	TAMPER RESISTANT 20 AMP DUPLEX (DECORATOR STYLE)	HUBBELL
1	ISF4GY	4 PORT DECORATOR RJ45 PLATE	HUBBELL
4	HXJ6B	CAT 6 RJ45 CONNECTOR - BLUE	HUBBELL

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. TRENCHING REQUIRED AS NECESSARY
3. INSTALL CONDUIT AS NEEDED



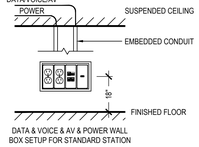
FB

14 TYPICAL STANDARD FLOOR BOX

SCALE: N.T.S.

QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	HBL987	RECESSED WALL BOX 4 GANG DRY WALL	HUBBELL
1	HBL989	LINE AND LOW VOLTAGE PARTITION	HUBBELL
1	P264W	4 GANG WALL PLATE - WHITE	HUBBELL
2	DR20WHITR	TAMPER RESISTANT DUPLEX OUTLET	HUBBELL
1	NS614W	4 PORT DECORATOR RJ45 FRAME	HUBBELL
2	HXJ6B	CAT6 RJ45 CONNECTOR - BLUE	HUBBELL
1	HXJ6Y	CAT6 RJ45 CONNECTOR - YELLOW	HUBBELL
1	SFUSBAAW	USB A TO A COUPLER	HUBBELL
1	NS801W	DECORATOR HDMI FRAME	HUBBELL

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. INSTALL CONDUIT AS NEEDED
3. CONTRACTOR TO PROVIDE HDMI AND USB 3.0 CABLES AND MAKE ALL FINAL CONNECTIONS TO BOARD



15 TYPICAL TEACHER HDMI RECESSED WALL BOX

RWB

SCALE: N.T.S.

REV.	DATE	ITEM

NOTICE

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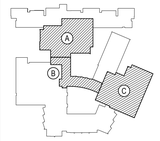

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

TECHNOLOGY DETAILS

DRAWING BY: GJL
CHECK BY: - - -

NOTICE

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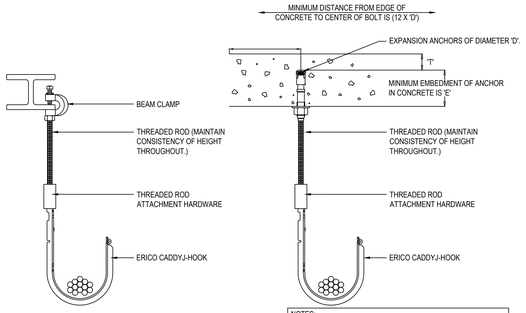
SED No.	66-01-02-06-0-003-024
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 2 - BOND IMPROVEMENTS
DWG TITLE	TECHNOLOGY DETAILS
SCALE:	AS NOTED
DATE:	APRIL 2024
BID PICK-UP:	FEBRUARY 24, 2025
FILE No:	23-131a FLHS

E10.01

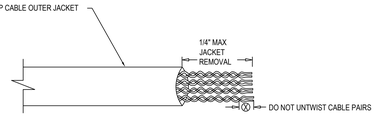


NOTES:

1. SIZE J-HOOK AND CLAMP TO ADEQUATELY SUPPORT LOAD.
2. FOR SECURE ATTACHMENT, USE RETAINING STRAP.
3. COLOR OF J-HOOK TO MATCH CEILING WHEN INSTALLED IN AN OPEN CEILING DESIGN.

1 J-HOOK INSTALLATION DETAIL

SCALE: N.T.S.

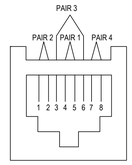


NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL REMOVE NO MORE THAN ½" OF THE OUTER JACKET OF THE CABLE DURING TERMINATION..
2. THE ELECTRICAL CONTRACTOR SHALL NOT UNTWIST THE INDIVIDUAL PAIRS.
3. THE ELECTRICAL CONTRACTOR SHALL USE AN INDUSTRY/MANUFACTURER ACCEPTED PUNCHDOWN/TERMINATION IMPACT TOOL FOR ALL CABLE TERMINATIONS. STUFFER CAPS SHALL NOT BE USED IN LIEU OF PUNCHDOWN/TERMINATION IMPACT TOOL.
4. THE ELECTRICAL CONTRACTOR SHALL NOT LEAVE "TAILS" HANGING OFF AT TERMINATION POINTS.

2 TYPICAL CABLE INSTALLATION DETAIL

SCALE: N.T.S.



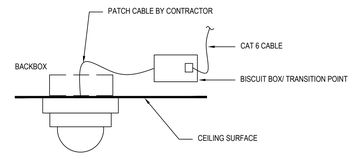
PAIR 1	WHITE/BLUE BLUE/WHITE	PAIR 3	WHITE/GREEN GREEN/WHITE
PAIR 2	WHITE/ORANGE ORANGE/WHITE	PAIR 4	WHITE/BROWN BROWN/WHITE

NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL RJ-45 TYPE MODULAR JACKS T568B WIRED (TYPICAL).
2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TERMINATE 4 PAIR UTP CABLE PAIRS AS ILLUSTRATED ABOVE (TYPICAL).

3 TYPICAL T568B CABLE PAIR ASSIGNMENTS

SCALE: N.T.S.

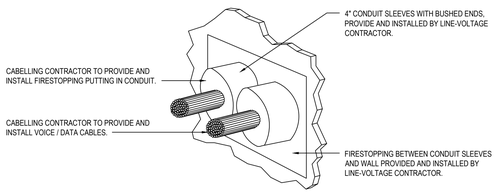


QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	1SB1BK	1 PORT BISCUIT BOX	HUBBELL
2	HC6B10	10' PATCH CORD	HUBBELL
1	HXJ6B	RJ45 DATA CONNECTOR - BLUE	HUBBELL

NOTES:
1. SECURE BISCUIT BOX TO BUILDING STRUCTURE
2. REFER TO DRAWINGS FOR QUANTITIES

4 SECURITY CAMERA

SCALE: N.T.S.



NOTES:

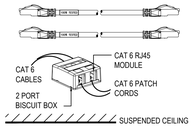
1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL FIRE STOPPING PUTTY INSIDE ALL CONDUIT AND CONDUIT SLEEVE ENDS AFTER ALL OF THE RELATED COMMUNICATIONS CABLES HAVE BEEN INSTALLED INSIDE OF THE PATHWAY. (TYPICAL)
2. THIS DETAIL IS NOT APPLICABLE TO EZ PATH FIRE BARRIER RACEWAYS.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIAL SAFETY DATA SHEETS (MSDS) PRIOR TO THEIR COMMENCEMENT OF WORK.

5 TYPICAL FIRE STOPPING SLEEVE DETAIL

SCALE: N.T.S.

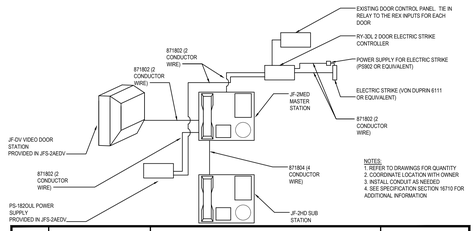
QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	ISB2BK	2 PORT BISCUIT BOX	HUBBELL
2	HC6B10	10' PATCH CORD	HUBBELL
2	HXJ6B	RJ45 DATA CONNECTOR - BLUE	HUBBELL

NOTES:
1. SECURE BISCUIT BOX TO BUILDING STRUCTURE
2. REFER TO DRAWINGS FOR QUANTITIES



6 TYPICAL CAT 6 WIRELESS ACCESS POINT

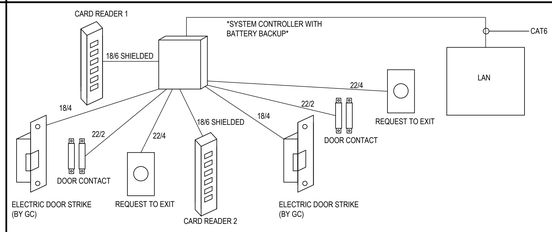
SCALE: N.T.S.



QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	JFS-2AEDV	VIDEO DOOR/MASTER STATION	AIPHONE
2	JF-2HD	MASTER SUB STATION	AIPHONE
3	871804	4 CONDUCTOR WIRE FOR MASTER STATIONS AND SUB STATION	AIPHONE
4	871802	2 CONDUCTOR WIRE BETWEEN 1ST MASTER STATION AND DOOR STATION	AIPHONE
5	MCW-S/A	MASTER STATION DESK STAND	AIPHONE
6	RY-3DL	2 DOOR ELECTRIC STRIKE CONTROLLER	AIPHONE

7 VIDEO DOOR STATION

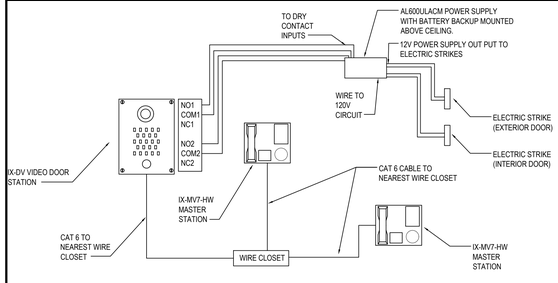
SCALE: N.T.S.



ITEM NO.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	*	CARD READER	*
2	*	DOOR/READER INTERFACE	*
3	BK-1-A	DTC-4000 SINGLE SIDED PRINTER, CAMERA AND CARTRIDGE	FARGO
4	ONE YEAR WARRANTY	ONE YEAR WARRANTY PER STATE CONTRACT	-
5	PROGRAMMING	PROGRAMMING OF SYSTEM	-
6	TRAINING	TRAIN PERSONNEL ON SYSTEM USE	-

8 TYPICAL DOOR ACESS CONTROL DIAGRAM

SCALE: N.T.S.



QTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
2	IX-MV7-HW	MASTER VIDEO STATION	AIPHONE
1	IX-DV	SURFACE MOUNTED IP VIDEO DOOR STATION	AIPHONE
1	AL600ULACM	DOOR POWER SUPPLY	ALTRONIX
1	871802	2 CON. WIRE BETWEEN MASTER STATION AND DOOR RELEASE	AIPHONE

9 TYPICAL SECURITY VIDEO DOOR STATION DETAIL

SCALE: N.T.S.

REV.	DATE	ITEM

NOTICE

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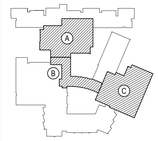

KEY PLAN

NOT TO SCALE

PROJECT

BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 2 - BOND IMPROVEMENTS
FOX LANE HIGH SCHOOL
TOWN of BEDFORD / WESTCHESTER COUNTY

DWG TITLE

SECURITY DETAILS

DRAWING BY: GJL

CHECK BY: - - -

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SED No. 66-01-02-06-0-003-024

DISTRICT: BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT: PHASE 2 - BOND IMPROVEMENTS

DWG TITLE: SECURITY DETAILS

SCALE: AS NOTED

DATE: APRIL 2024

BID PICK-UP: FEBRUARY 24, 2025

FILE No: 23-131a FLHS

E10.02