BRIARCLIFF MANOR U.F.S.D.

DISTRICT ADMINISTRATION OFFICES

444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PHASE 2 BOND IMPROVEMENTS

AT

BRIARCLIFF MANOR MIDDLE/ HIGH SCHOOL

444 PLEASANTVILLE RD
SED No.: 66-14-02-02-0-004-023
BBS No.: 21-274C

TODD ELEMENTARY SCHOOL

45 INGHAM RD
SED No.: 66-14-02-02-0-002-021
BBS No.: 21-274D

Dalto Engineering
7 Maureen Court, Clifton Park, NY
www.daltopllc.com p.518.466.33217

BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL

GENERAL INFORMATION
T0.01 TITLE SHEET

CONSTRUCTION IMPLEMENTATION PLANS
CIP-1 CONSTRUCTION IMPLEMENTATION NOTES
CIP-2 FIRST FLOOR CONSTRUCTION IMPLEMENTATION PLAN
CIP-3 SECOND FLOOR CONSTRUCTION IMPLEMENTATION PLAN
CIP-4 FIRST FLOOR CONSTRUCTION IMPLEMENTATION PLAN - TODD ELEMENTARY

ARCHITECTURAL
A0.01 CODE COMPLIANCE FIRST FLOOR HIGH SCHOOL
A0.02 CODE COMPLIANCE SECOND FLOOR HIGH SCHOOL
A0.03 CODE COMPLIANCE MIDDLE SCHOOL
A0.06 PARTITION TYPES
A1.00 FIRST FLOOR HIGH SCHOOL ABATEMENT PLAN
A1.01 DEMOLITION FIRST FLOOR PLAN - AREA A & C
A1.02 DEMOLITION FIRST FLOOR PLAN - AREA D
A1.03 DEMOLITION SECOND FLOOR PLAN - AREA D
A2.01 PROPOSED FIRST FLOOR PLAN - AREA A & C
A2.02 PROPOSED FIRST FLOOR PLAN - AREA D
A2.03 PROPOSED SECOND FLOOR PLAN - AREA D
A2.04 ENLARGED PLANS
A2.05 PLAN DETAILS
A3.01 ROOF DEMOLITION PLANS
A3.02 PROPOSED ROOF PLANS
A4.01 MASONRY RECONSTRUCTION
A5.01 BUILDING SECTIONS
A5.02 BUILDING SECTIONS
A6.01 WALL SECTIONS - LIGHT WELL
A6.02 WALL SECTIONS
A6.10 SECTIONS DETAILS
A7.01 STAIR PLANS AND ELEVATIONS
A7.02 STAIR PLANS AND ELEVATIONS
A8.01 DOOR SCHEDULE AND DETAILS
A8.02 STOREFRONT PLANS AND DETAILS
A8.03 STOREFRONT PLANS AND ELEVATIONS
A8.04 STOREFRONT PLANS AND ELEVATIONS
A8.05 STOREFRONT PLANS AND ELEVATONS
A9.01 FINISH SCHEDULE
A9.02 FINISH FLOOR PLAN
A10.01 REFLECTED CEILING PLANS - AREA A & C
A10.02 REFLECTED CEILING FIRST FLOOR PLAN - AREA D
A10.03 REFLECTED CEILING SECOND FLOOR PLAN - AREA D
A10.10 REFLECTED CEILING DETAILS
A11.01 ENLARGED RESTROOM PLANS & ELEVATIONS
A11.02 ENLARGED RESTROOM ELEVATIONS
A11.03 ENLARGED RESTROOM ELEVATIONS
A11.04 ENLARGED EQUIPMENT PLANS & DETAILS
A11.05 ENLARGED EQUIPMENT PLANS & DETAILS
A11.06 ENLARGED EQUIPMENT PLANS & DETAILS
A11.07 ENLARGED EQUIPMENT PLANS & DETAILS
A11.08 ENLARGED FURNITURE PLANS - AREA A & C
A11.09 ENLARGED FURNITURE PLANS - AREA D

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S0.02 SPECIAL INSPECTION NOTES AND SCHEDULE
S1.00 FOUNDATION PLAN
S1.01 ROOF FRAMING PLAN
S3.00 CONCRETE SECTIONS AND DETIALS
S5.00 STEEL SECTIONS AND DETAILS

MECHANICAL
M0.01 GENERAL NOTES, LEGENDS AND SYMBOLS (1 OF 2)
M0.02 GENERAL NOTES, LEGENDS AND SYMBOLS (2 OF 2)
M1.01 DEMOLITION HVAC PART PLANS – AREA A & C
M1.02 DEMOLITION HVAC PART PLANS – AREA D
M1.03 DEMOLITION ROOF HVAC PART PLAN – AREA D & E
M1.04 DEMOLITION PIPING PART PLANS – AREA A & C
M1.05 DEMOLITION PIPING PART PLANS – AREA D & E
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M2.02 PROPOSED HVAC PLAN – AREA D
M2.03 PROPOSED HVAC SECOND FLOOR AND ROOF PART PLAN - AREA D & E
M2.04 PROPOSED HVAC PLAN – AREA H
M3.01 PROPOSED PIPING PLAN – AREA A & C
M3.02 PROPOSED PIPING PLAN – AREA D
M3.03 PROPOSED PIPING ROOF PLAN – AREA D & E
M5.01 TEMPERATURE CONTROL SCHEMATICS SCHEDULE AND NOTES
M6.01 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.02 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.03 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.04 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.05 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.06 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.07 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.08 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.09 SCHEDULES, EQUIPMENT NOTES AND DETAILS
M6.10 SCHEDULES, EQUIPMENT NOTES AND DETAILS

PLUMBING
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P0.02 BUILDING KEY PLAN
P1.01 FIRST FLOOR DEMOLITION
P1.02 FIRST FLOOR DEMOLITION CONTINUED
P2.01 FIRST FLOOR PROPOSED WORK
P2.02 FIRST FLOOR PROPOSED WORK CONTINUED

ELETRICAL
E0.01 GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
E1.01 PARTIAL DEMOLITION FIRST FL PLAN - AREA A & C
E1.02 PARTIAL DEMOLITION FIRST FL PLAN - AREA D
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E3.01 PARTIAL FIRST FL LIGHTING PLAN - AREA A & C
E3.02 PARTIAL FIRST FL LIGHTING PLAN - AREA D
E3.03 PARTIAL SECOND FL LIGHTING PLAN - AREA D
E4.01 PARTIAL FIRST FL POWER PLAN - AREA A & C
E4.02 PARTIAL FIRST FL POWER PLAN - AREA D
E4.03 PARTIAL SECOND FLOOR PLAN - AREA D & E
E5.01 PATRIAL FIRST FL SYSTEM PLAN - AREA A & C
E5.02 PATRIAL FIRST FL SYSTEM PLAN - AREA D
E5.03 ELETRICAL ADD ALTERNATE PLANS
E8.01 PANELBOARD DIRECTORIES
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E10.01 SCHEDULES
E10.02 ELETRICAL DETAILS
E10.03 TECHNOLOGY DETAILS
E10.04 ELETRICAL DETAILS
E10.05 ELETRICAL DETAILS

ARCHITECTURAL

TODD ELEMENTARY SCHOOL

A0.01 CODE COMPLIANCE NOTES & PARTITION TYPES
A0.02 OVERALL KEY PLAN
A1.00 ABATEMENT PLAN
A1.01 DEMO PLAN RESTROOM AND VESTIBULE
A1.02 PROPOSED RESTROOM AND VESTIBULE
A2.01 RAILINGS AND DETAILS
A2.02 RAILING PLANS & ELEVATIONS
A4.01 MASONRY RECONSTRUCTION
A8.01 DOOR SCHEDULE, FINISH SCHEDULE AND DETAILS
A10.01 REFLECTED CEILING PLANS

MECHANICAL
M0.01 MECHANICAL GENERAL NOTES, LEDGENDS AND SCHEDULES
M1.01 HVAC DEMOLITION & PROPOSED PART PLANS
M6.01 MECHANICAL SCHEDULES & DETAILS

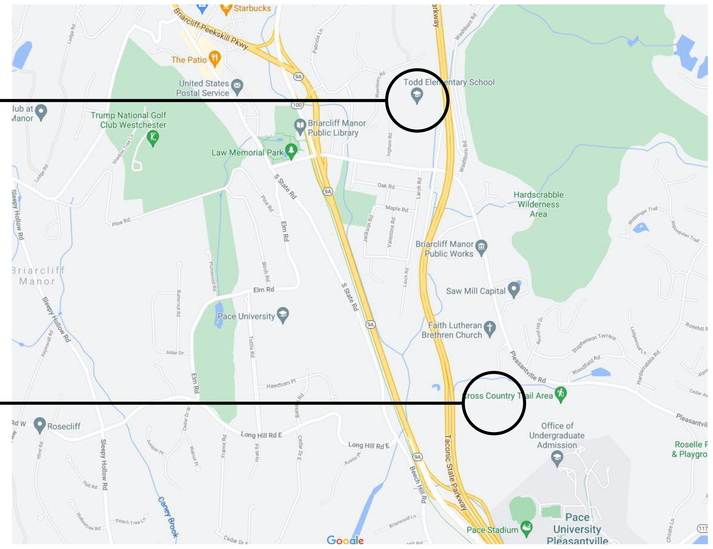
PLUMBING
P0.01 GENERAL NOTES, LEGENDS & SCHEDULES
P1.01 DEMOLITION PLANS
P2.01 PROPOSED PLANS

ELETRICAL
E0.01 GENERAL NTOES, LEDGENDS AND DETAILS
E4.01 PROPOSED PANEL REPLACEMENT
E6.01 ENLARGED TOILET ROOM PLANS

LOCATION MAP

TODD ELEMENTARY SCHOOL

BRIARCLIFF MANOR MIDDLE/ HIGH SCHOOL



BBS ARCHITECTS LANDSCAPE ARCHITECTS ENGINEERS

BRANCH PROJECT CONTACT: 187 WOLF ROAD, SUITE 205 I ALBANY I NEW YORK 12205 I T. 518.621.7650
244 EAST MAIN STREET I PATCHOGUE I NEW YORK 11772 I T. 631.475.0349 I F. 631.475.0361

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, AND THE CONSTRUCTION STANDARDS OF THE EDUCATION DEPARTMENT.

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

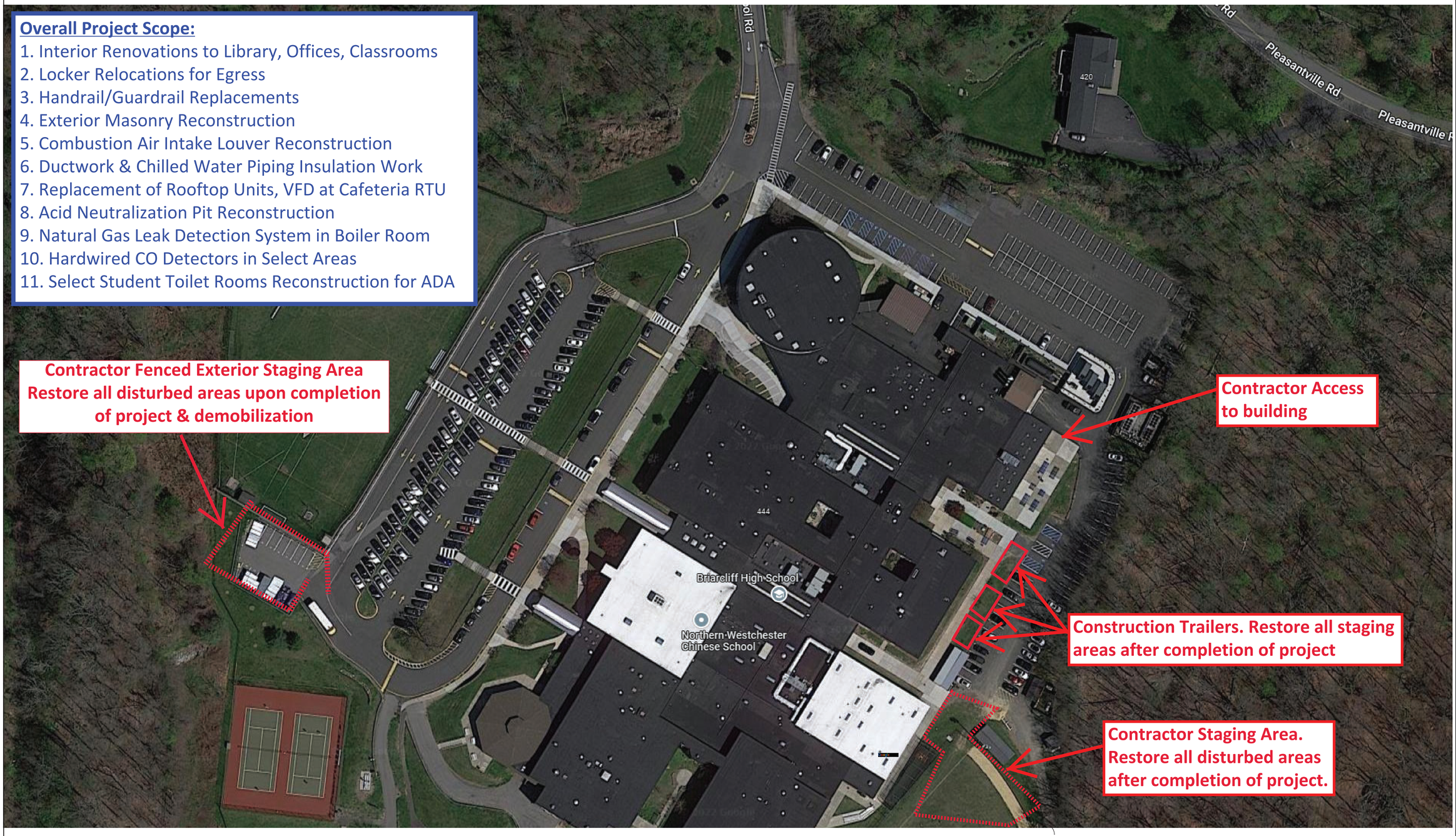
T0.01

BBS FILE No. 21-274C HS/MS
21-274D TODD ES

ISSUE FOR BID: NOVEMBER 16, 2022

Overall Project Scope:

1. Interior Renovations to Library, Offices, Classrooms
2. Locker Relocations for Egress
3. Handrail/Guardrail Replacements
4. Exterior Masonry Reconstruction
5. Combustion Air Intake Louver Reconstruction
6. Ductwork & Chilled Water Piping Insulation Work
7. Replacement of Rooftop Units, VFD at Cafeteria RTU
8. Acid Neutralization Pit Reconstruction
9. Natural Gas Leak Detection System in Boiler Room
10. Hardwired CO Detectors in Select Areas
11. Select Student Toilet Rooms Reconstruction for ADA



Briarcliff Manor Middle/High School Contractor Staging & Laydown Areas

CONTRACTOR NOTES:

1. **Dedicated area for Contractor staging, temporary parking, and lay down to be coordinated with CM and Briarcliff Manor UFSD Facilities Department.**
2. **Emergency Exit points shall be identified and maintained in the existing building in strict compliance with NYSED Commissioner's Rule 155.**
3. **Internal Swing space needed for relocation of High School Library during construction.**
4. **Maresca Center offices to be relocated in June 2023 for construction, and used for swing space immediately after construction by 8/31/2023**

REV. NO.	DATE	ITEM

NOTICE

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ORIGINAL DOCUMENTS:

KEY PLAN
N.T.S.

PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: CONSTRUCTION IMPLEMENTATION STAGING PLAN

DRWG. BY:
CHK. BY:

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BBS ARCHITECTS LANDSCAPE ARCHITECTS ENGINEERS

Savin Engineers, P.C.

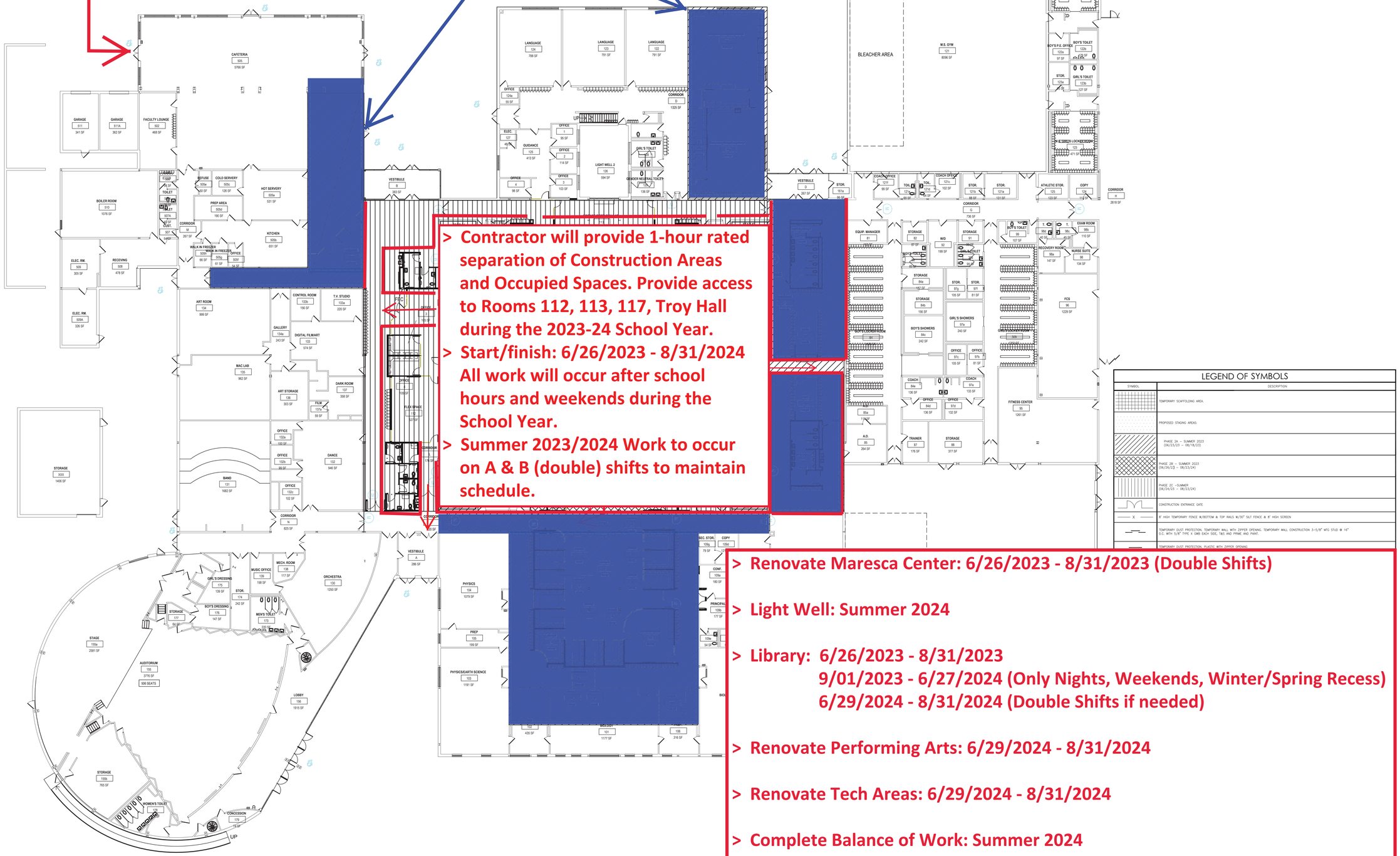
SED# 66-14-02-02-0-004-022
DISTRICT: BRIARCLIFF MANOR U.F.S.D. PUBLIC SCHOOLS
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: BUILDING ADDITIONS AT BRIARCLIFF MANOR MS/HS
SCALE:
DATE: 11/01/2022
BID P/U DATE:
FILE NO:

CIP-01 | OF 1

Contractor access to building
Doors open 6 am - 4 pm

6/26/2023 - 8/31/2023 (Typ. Blue areas)

> **Contractor will provide 1-hour rated separation of Construction Areas and Occupied Spaces. Provide access to Rooms 112, 113, 117, Troy Hall during the 2023-24 School Year.**
> **Start/finish: 6/26/2023 - 8/31/2024 All work will occur after school hours and weekends during the School Year.**
> **Summer 2023/2024 Work to occur on A & B (double) shifts to maintain schedule.**



FIRST FLOOR CONSTRUCTION IMPLEMENTATION PLAN
SCALE: 1/16" = 1'-0"

> **Renovate Maresca Center: 6/26/2023 - 8/31/2023 (Double Shifts)**

> **Light Well: Summer 2024**

> **Library: 6/26/2023 - 8/31/2023**
> **9/01/2023 - 6/27/2024 (Only Nights, Weekends, Winter/Spring Recess)**
> **6/29/2024 - 8/31/2024 (Double Shifts if needed)**

> **Renovate Performing Arts: 6/29/2024 - 8/31/2024**

> **Renovate Tech Areas: 6/29/2024 - 8/31/2024**

> **Complete Balance of Work: Summer 2024**

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	TEMPORARY SCAFFOLDING AREA.
	PROPOSED STAGING AREAS:
	PHASE 2A – SUMMER 2023 (06/23/23 – 08/18/23)
	PHASE 2B – SUMMER 2023 (06/26/23 – 08/23/24)
	PHASE 2C –SUMMER (06/24/23 – 08/23/24)
	CONSTRUCTION ENTRANCE GATE
X	8' HIGH TEMPORARY FENCE W/BOTTOM & TOP RAILS W/50' SILT FENCE & 8' HIGH SCREEN
	TEMPORARY DUST PROTECTION, TEMPORARY WALL WITH ZIPPER OPENING. TEMPORARY WALL CONSTRUCTION 3-5/8" MTC STUD @ 16" O.C. WITH 5/8" TYPE X GWB EACH SIDE, T&S AND PRIME AND PAINT.
	TEMPORARY DUST PROTECTION, PLASTIC WITH ZIPPER OPENING

REV. NO.	DATE	ITEM

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KEY PLAN
N.T.S.

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
FIRST FLOOR CONSTRUCTION IMPLEMENTATION PLAN
HIGH SCHOOL

DRWG. BY:
CHK. BY:

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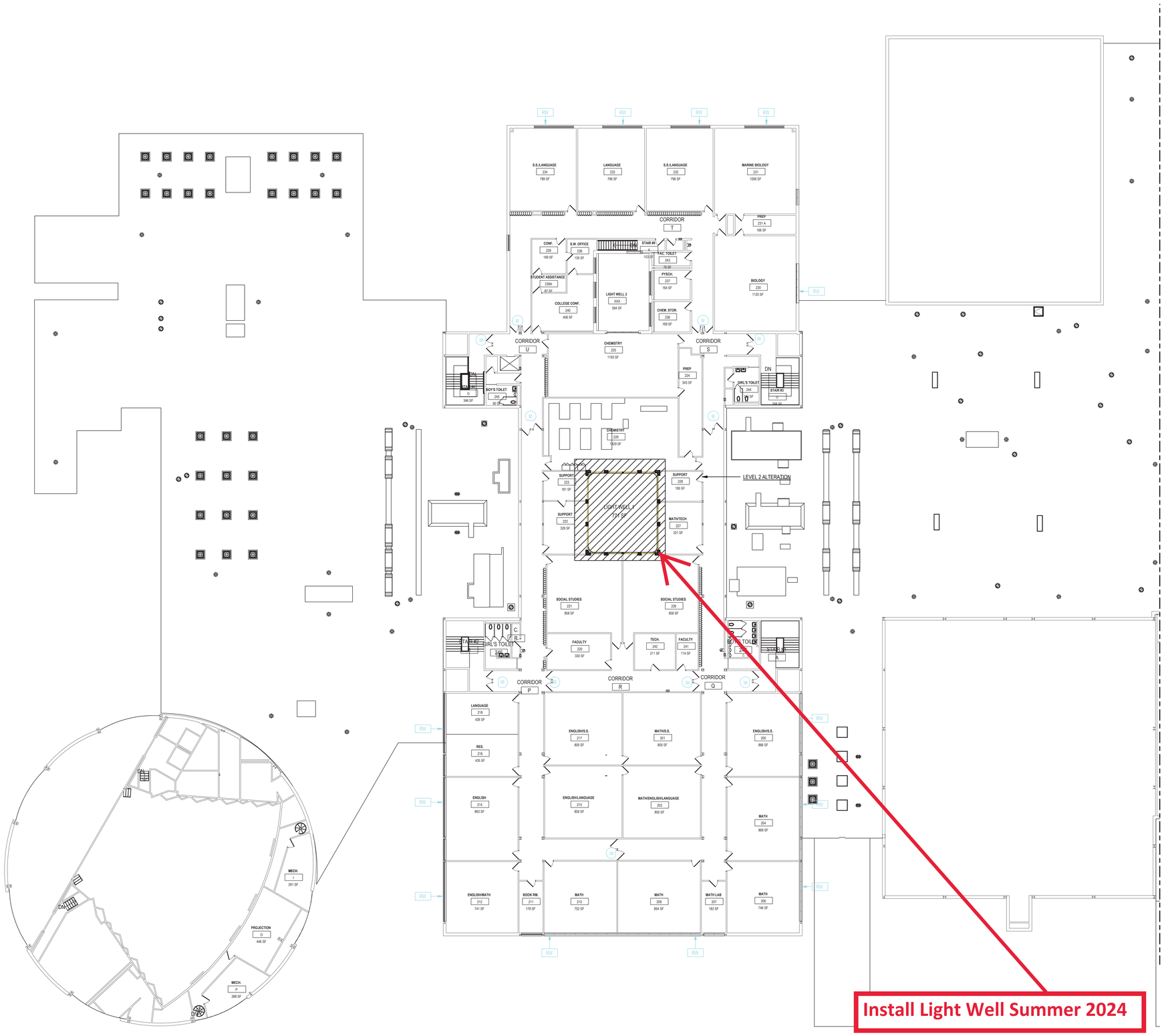
Savin Engineers, P.C.

SED# 66-14-02-02-0-004-022
DISTRICT BRIARCLIFF MANOR U.F.S.D. PUBLIC SCHOOLS
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE BUILDING ADDITIONS AT BRIARCLIFF MANOR MS/HS
SCALE:
DATE: 11/01/2022
BID P/U DATE:
FILE NO:

CIP-02 | OF 1



1 SECOND FLOOR CONSTRUCTION IMPLEMENTATION PLAN
SCALE: 1/16" = 1'-0"

REV. NO.	DATE	ITEM

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
SECOND FLOOR CONSTRUCTION IMPLEMENTATION PLAN
HIGH SCHOOL

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CHK. BY:

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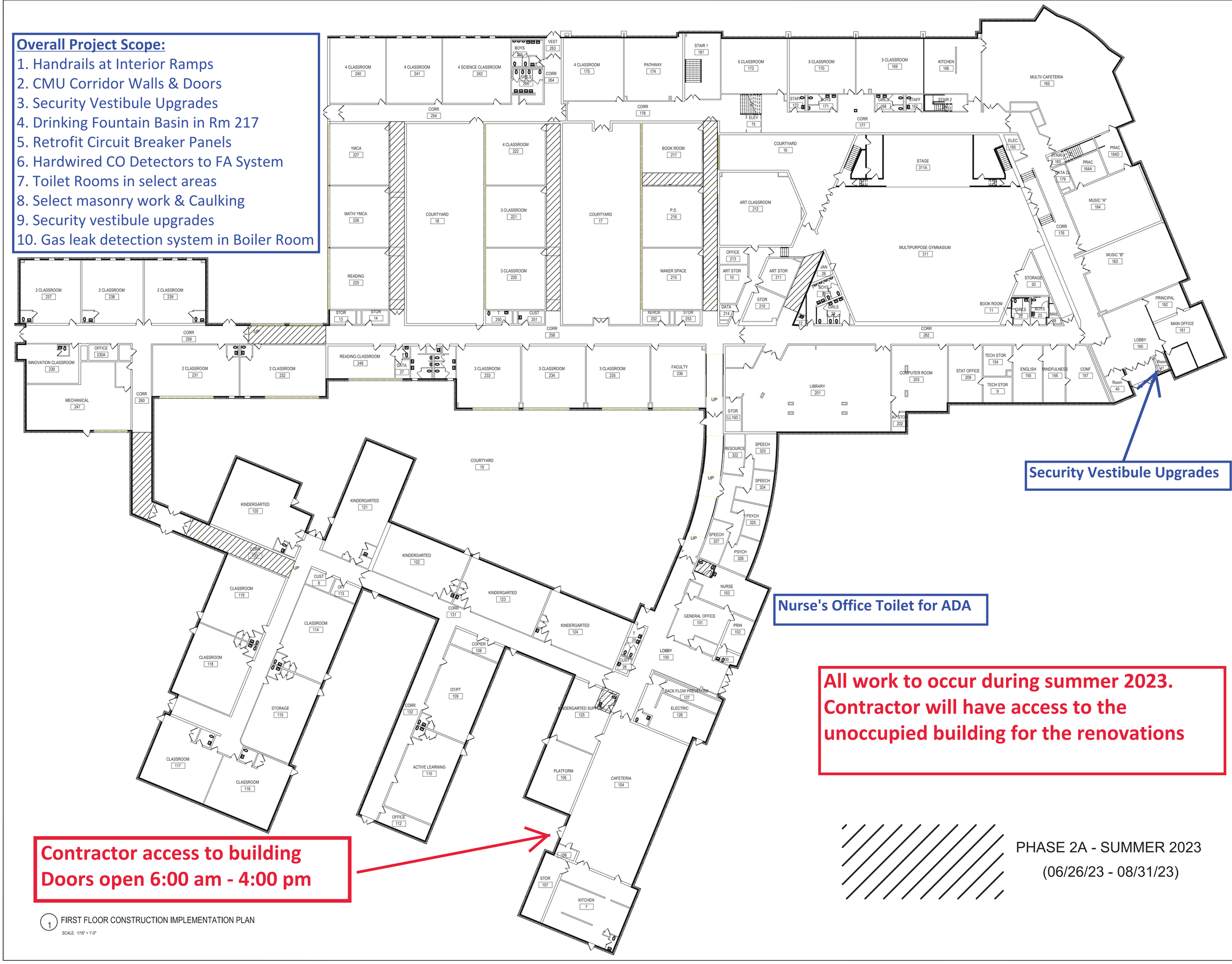
SED# 66-14-02-02-0-004-022
DISTRICT BRIARCLIFF MANOR U.F.S.D. PUBLIC SCHOOLS
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE BUILDING ADDITIONS AT BRIARCLIFF MANOR MS/HS

SCALE:
DATE: 11/01/2022
BID P/U DATE:
FILE NO:

CIP-03 | OF 1

Overall Project Scope:

1. Handrails at Interior Ramps
2. CMU Corridor Walls & Doors
3. Security Vestibule Upgrades
4. Drinking Fountain Basin in Rm 217
5. Retrofit Circuit Breaker Panels
6. Hardwired CO Detectors to FA System
7. Toilet Rooms in select areas
8. Select masonry work & Caulking
9. Security vestibule upgrades
10. Gas leak detection system in Boiler Room



Security Vestibule Upgrades

Nurse's Office Toilet for ADA

All work to occur during summer 2023. Contractor will have access to the unoccupied building for the renovations

Contractor access to building
Doors open 6:00 am - 4:00 pm

PHASE 2A - SUMMER 2023
(06/26/23 - 08/31/23)

1 FIRST FLOOR CONSTRUCTION IMPLEMENTATION PLAN
SCALE: 1/16" = 1'-0"

REV. NO.	DATE	ITEM

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ORIGINAL DOCUMENTS: ___

N

KEY PLAN
N.T.S.

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
FIRST FLOOR CONSTRUCTION IMPLEMENTATION PLAN
TODD ELEMENTARY

DRWG. BY:
CHK. BY:

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DISTRICT BRIARCLIFF MANOR U.F.S.D. PUBLIC SCHOOLS
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE BUILDING ADDITIONS AT BRIARCLIFF MANOR MS/HS

SCALE:
DATE: 11/01/2022
BID P/U DATE:
FILE NO:

CIP-04 OF 1

707.6 FIRE BARRIER OPENINGS
79 L.F. TOTAL WALL LENGTH
32 L.F. TOTAL AGGREGATE OPEN WIDTH = 40.5% > 25% ALLOWABLE
MAXIMUM SINGLE OPENING = 65.5 S.F. < 156 S.F. ALLOWABLE
OPENINGS SHALL COMPLY WITH ASTM E119 1-HOUR FIRE RATED

707.6 FIRE BARRIER OPENINGS
163 L.F. TOTAL WALL LENGTH
65 L.F. TOTAL AGGREGATE OPEN WIDTH = 39.9% > 25% ALLOWABLE
MAXIMUM SINGLE OPENING = 69 S.F. < 156 S.F. ALLOWABLE
OPENINGS SHALL COMPLY WITH ASTM E119 1-HOUR FIRE RATED

AREA A
LEVEL 2 ALTERATION
INERIOR RECONSTRUCTION
OF CAFETERIA
2,240 SQFT

AREA C
LEVEL 2 ALTERATION
INERIOR RECONSTRUCTION
OF ART & TECH ROOMS
2,300 SQFT

EXISTING 2-HR
RATED WALL
UL-906

PROPOSED EQUIPMENT
BAND SAW
BENCH SANDERS
DRILL PRESS
TABLE SAW
JOINTER

MATERIAL STORAGE
WOOD STORAGE RACK
±200 BOARD FOOT
90 GALLON FLAMMABLE
STORAGE CABINET.

PROPOSED 2-HR
RATED FIRE
BARRIER

STORAGE CABINETS: NO
FLAMMABLE STORAGE
NO WOOD STORAGE

AREA D
LEVEL 1 ALTERATION
STAIR RAILING REPLACEMENT
275 SQFT-TYP 4 LOCATIONS

707.6 FIRE BARRIER OPENINGS
93 L.F. TOTAL WALL LENGTH
33'-0" L.F. TOTAL AGGREGATE OPEN WIDTH = 36% > 25% ALLOWABLE
MAXIMUM SINGLE OPENING = 241 S.F. > 156 S.F. ALLOWABLE
OPENINGS SHALL COMPLY WITH ASTM E119 1-HOUR FIRE RATED

707.6 FIRE BARRIER OPENINGS
173'-7" L.F. TOTAL WALL LENGTH
71 L.F. TOTAL AGGREGATE OPEN WIDTH = 40.9% > 25% ALLOWABLE
MAXIMUM SINGLE OPENING = 168 S.F. > 156 S.F. ALLOWABLE
OPENINGS SHALL COMPLY WITH ASTM E119 1-HOUR FIRE RATED

LEVEL 2 ALTERATION
TOILET RECONSTRUCTION
400 SQFT

AREA D
LEVEL 2 ALTERATION
RECONSTRUCTION
22,000 SQFT

AREA D
LEVEL 1 ALTERATION
FINISH REPLACEMENT
2,300 SQFT

707.6 FIRE BARRIER OPENINGS
184'-6" L.F. TOTAL WALL LENGTH
31'-3" L.F. TOTAL AGGREGATE OPEN WIDTH = 16.9% < 25% ALLOWABLE
MAXIMUM SINGLE OPENING = 69 S.F. < 156 S.F. ALLOWABLE
OPENINGS SHALL COMPLY WITH ASTM E119 1-HOUR FIRE RATED

GYMNASIUM EXIT UNITS

	BLEACHER AREA	GYM AREA
	1,760 SF / 200	6,336 SF / 600
	7	10.56 = 17.5 REQ'D
		16.3 PROVIDED

GYMNASIUM EXIT UNITS

	BLEACHER AREA	GYM AREA
	2,177.5 SF / 250	8,626 SF / 600
	8.7	14.3 = 23 REQ'D
		26 PROVIDED

FIRE RATING LEGEND:

- 1 HR FIRE PARTITION
- 2 HR FIRE PARTITION

BUILDING AREAS

EXISTING 1ST FLOOR	169,594 SF
EXISTING 2ND FLOOR	67,886 SF
BUILDING TOTAL AREA	**237,480 SF**
PROPOSED 1ST FLOOR RENOVATION	7,138 SF
PROPOSED 2ND FLOOR RENOVATION	5,518 SF
TOTAL OF PROPOSED RENOVATION	**12,656 SF**

ARCHITECTURAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	KEY NOTE
XXX	DOOR NUMBER
WX	WINDOW DESIGNATION
XXXX / XXX / XXX SF	ROOM TAG: ROOM NAME / ROOM NUMBER / ROOM AREA
	ELEVATION DATUM
XX / XX.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.
E.J.	DENOTES LOCATION OF FULL BUILDING EXPANSION JOINT. PROVIDE APPROPRIATE INTERIOR FLOOR, WALL AND CEILING EXPANSION JOINT COVERS, WHERE APPLICABLE. PROVIDE VERTICAL JOINT BY 'EMSEAL' OR EQUAL AT EXTERIOR, WHERE APPLICABLE.
M.C.J.	DENOTES LOCATION OF 12" MASONRY CONTROL JOINT WITH CONTINUOUS BACKER ROD AND SEALANT.
D.S.	DENOTES LOCATION OF NEW CAST STONE DATE STONE.
D.P.	DENOTES LOCATION OF NEW DEDICATION PLAQUE.
S.D.	DENOTES LOCATION OF SMOKE DOOR.
XX'-XX" / XXX.XX'	DENOTES FINISH FLOOR ELEVATION REFERENCED FROM 0'-0", WHERE ENGINEERING ELEVATIONS ARE REFERENCED (000.00'). REFER TO CIVIL-SERIES DRAWINGS FOR ADDITIONAL DATUM INFORMATION.
L.I. XX	DENOTES LOCATION AND DESIGNATION OF NEW LINTEL.
R.W.	DENOTES LOCATION OF NEW/EXISTING RESCUE WINDOW.
T.D.	DENOTES LOCATION OF 'TRUSS / JOIST IDENTIFICATION SIGN.
A.E.D.	DENOTES LOCATION OF AUTOMATED EXTERNAL DEFIBRILLATOR.
M.O.S.	DENOTES LOCATION OF ASSEMBLY SPACE MAXIMUM OCCUPANCY SIGN.
A.O.R.	DENOTES LOCATION OF AREA OF REFUGE WITH TWO-WAY COMMUNICATION DEVICE. REFER TO E-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
XXX	DENOTES MAXIMUM DOOR / STAIR EXITING CAPACITY.
X.X	DENOTES R.E.U. FOR ASSEMBLY SPACES
M	DENOTES DOOR ON MAGNETIC AUTOMATIC HOLD OPEN DEVICE, CONNECTED TO FIRE ALARM SYSTEM.
M.O.L. XX / P.S. XX	MAX. OCCUPANCY LOAD (PER N.Y.S. CODE) / PUPIL STATION COUNT
	DENOTES ACCESSIBLE ENTRANCE/EXIT, FIXTURE, ACCESSORY, DEVICE, OR PARTICIPATION AREA.
	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

REV.	DATE	ITEM
1		

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PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE: CODE COMPLIANCE FIRST FLOOR HIGH SCHOOL

DRWG. BY: C.M.
CHK. BY: G.E.O.

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NEW YORK 12205
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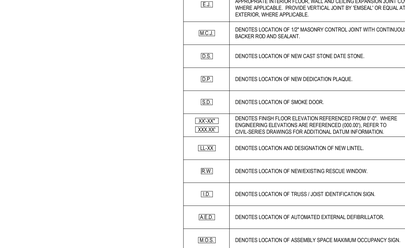
SED No. 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR U.F.S.D.
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: CODE COMPLIANCE FIRST FLOOR HIGH SCHOOL
SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A0.01 | HSMS

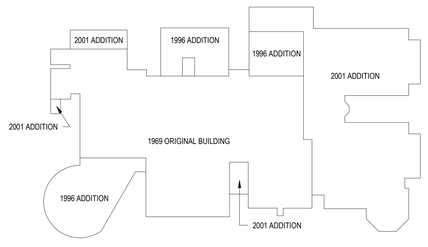
FIRST FLOOR CODE COMPLIANCE HIGH SCHOOL

SCALE: 1/16" = 1'-0"



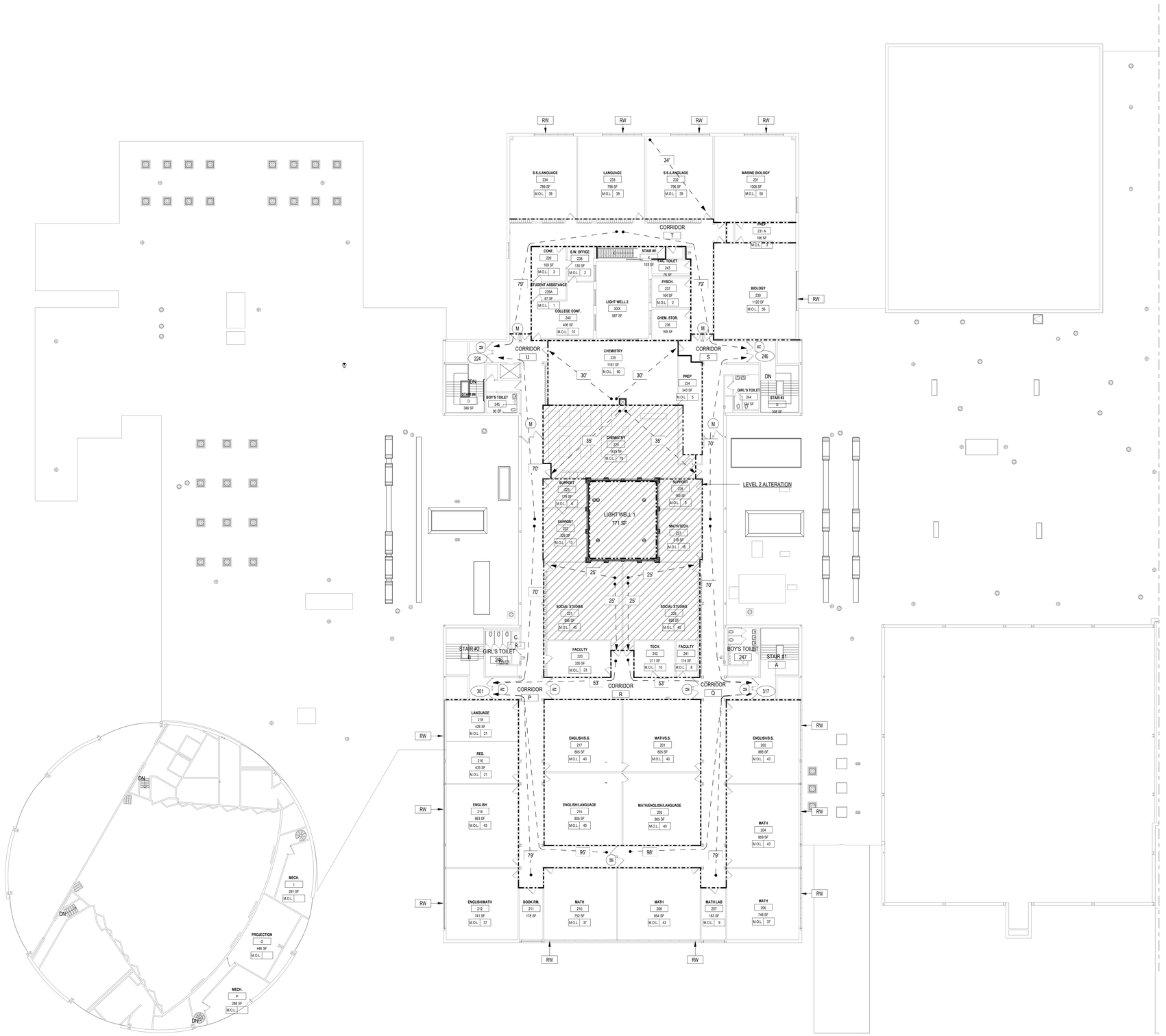
FIRE AREA PLAN

SCALE: 1" = 100'-0"



VINTAGE PLAN

SCALE: 1" = 100'-0"



1 SECOND FLOOR CODE COMPLIANCE HIGH SCHOOL

SCALE: 1/16" = 1'-0"

REV.	DATE	ITEM

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PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
CODE COMPLIANCE SECOND FLOOR HIGH SCHOOL

DRWG. BY: C.M.
CHK. BY: G.E.O.

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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE CODE COMPLIANCE SECOND FLOOR HIGH SCHOOL

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FILE NO. 21-274C

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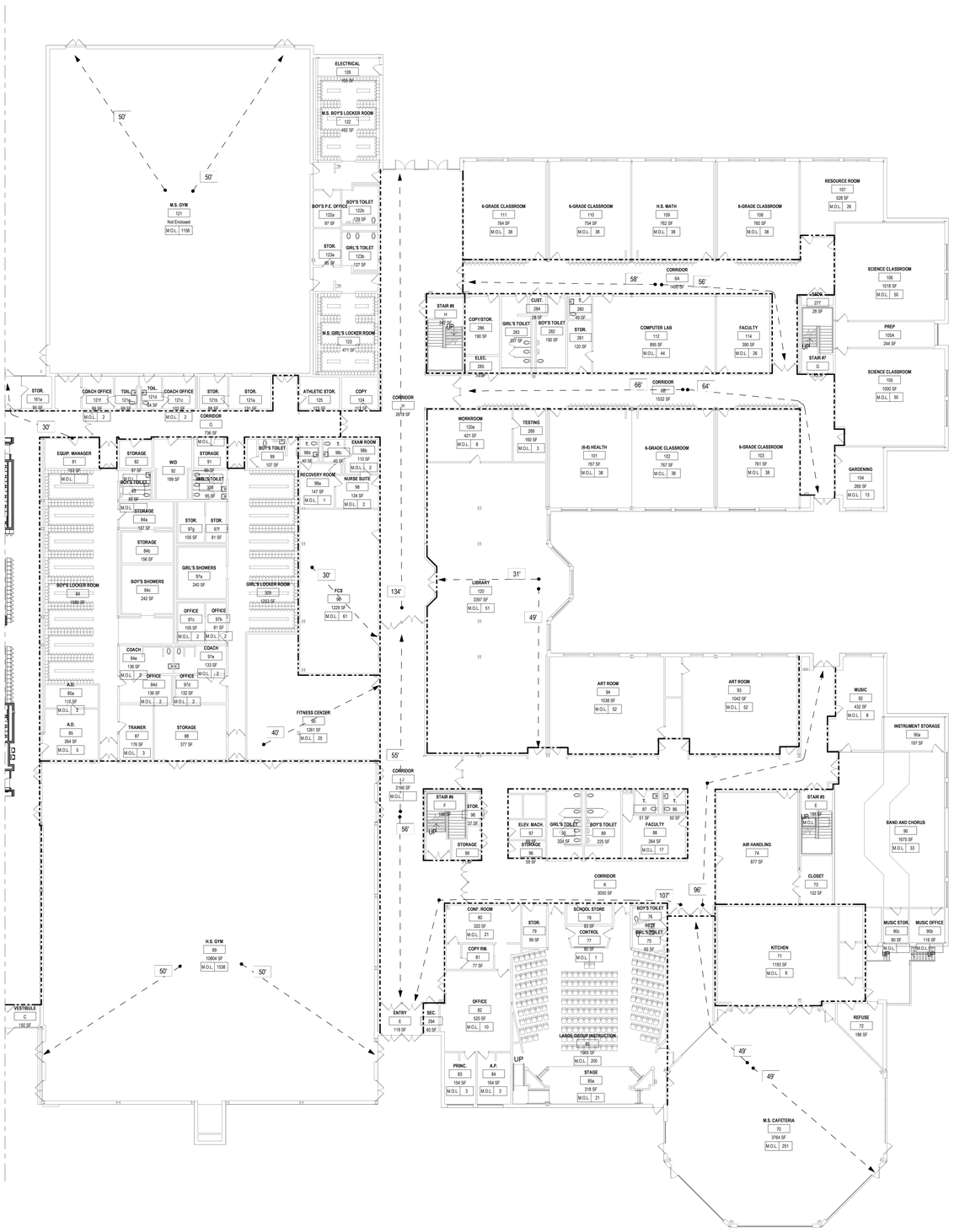
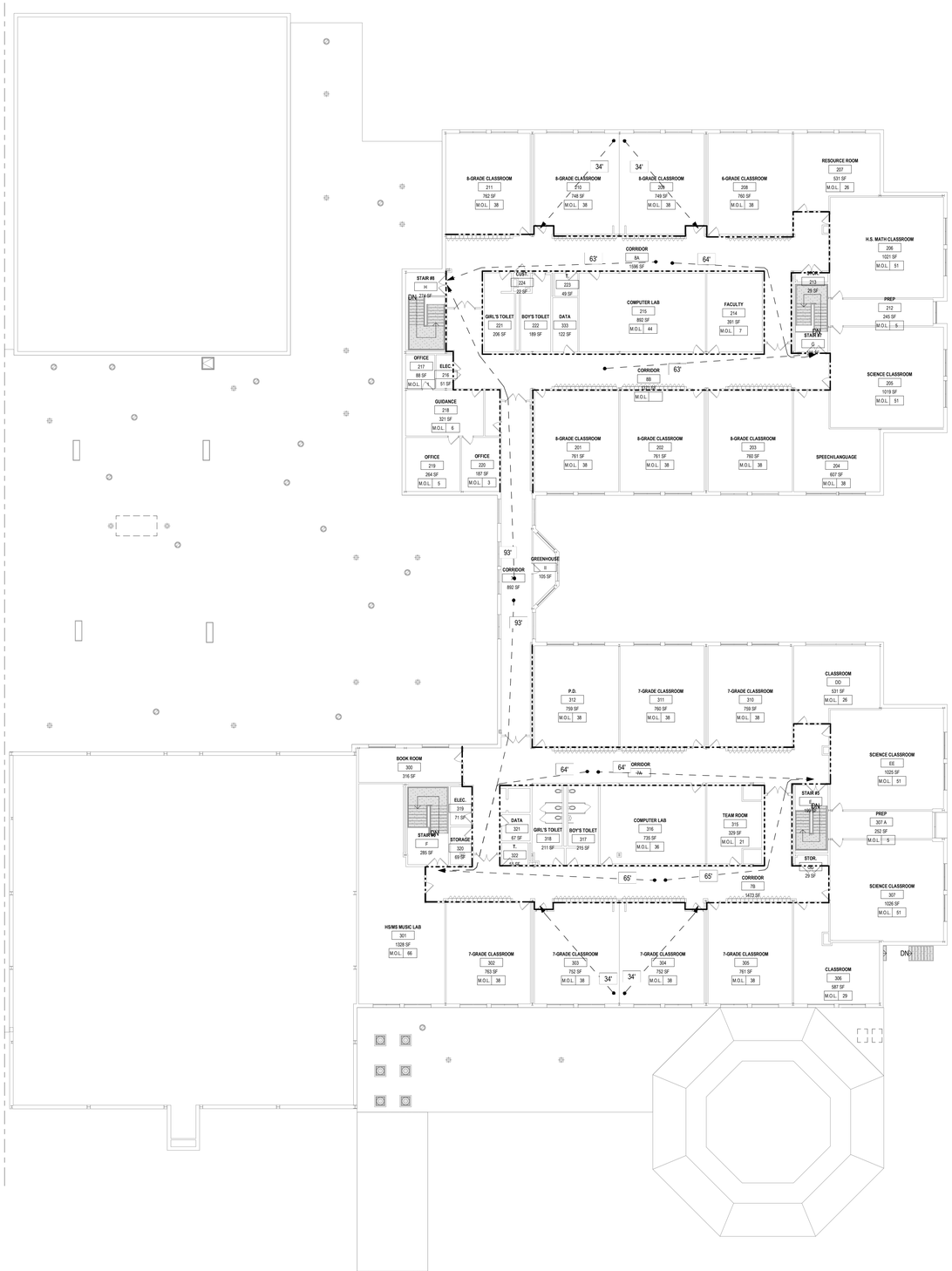


1 FIRST FLOOR CODE COMPLIANCE MIDDLE SCHOOL

SCALE: 1/16" = 1'-0"



2 SECOND FLOOR CODE COMPLIANCE MIDDLE SCHOOL

SCALE: 1/16" = 1'-0"

REV.	DATE	ITEM
1		

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PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: CODE COMPLIANCE MIDDLE SCHOOL

DRWG. BY: C.M.
CHK. BY: G.E.O.

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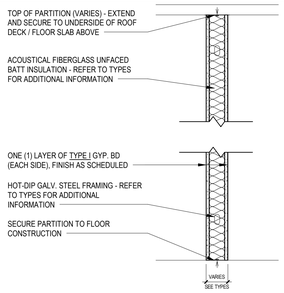


WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

TYPE F5 (4 7/8" TOTAL THICKNESS): 3 5/8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 3 1/2" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

TYPE F7 (7 1/4" TOTAL THICKNESS): 6" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 5 1/2" R-21 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

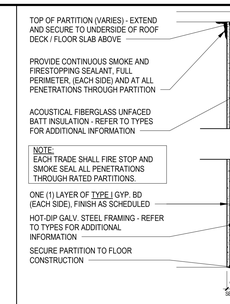
TYPE F9 (9 1/4" TOTAL THICKNESS): 8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 8" R-25 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

NOTE: ALL BASE AND TOP TRACK RUNNERS (WHERE APPLICABLE) SHALL BE HOT-DIP GALV. STEEL 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

F9 9" NOM. GYP. BD. METAL STUD PARTITION
NON-RATED / NON-BEARING INTERIOR PARTITION



TYPE G5 (4 7/8" TOTAL THICKNESS): 3 5/8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 3 1/2" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

TYPE G7 (7 1/4" TOTAL THICKNESS): 6" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 5 1/2" R-21 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

TYPE G9 (9 1/4" TOTAL THICKNESS): 8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 8" R-25 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

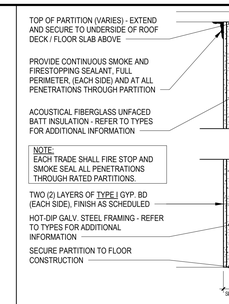
WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

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

G5 5" NOM. GYP. BD. METAL STUD PARTITION (1-HR RATING)
UL U419 / STC 54, NON-BEARING INTERIOR PARTITION

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

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



TYPE H6 (6 1/8" TOTAL THICKNESS): 3 5/8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 3 1/2" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

TYPE H9 (8 1/2" TOTAL THICKNESS): 6" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 5 1/2" R-21 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

TYPE H11 (10 1/2" TOTAL THICKNESS): 8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 8" R-25 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

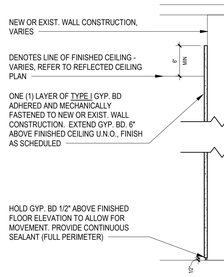
WHERE TILE IS SCHEDULED AT GYP. BD. PARTITIONS, REFER TO GENERAL PARTITION TYPE NOTE 8 THIS SHEET.

NOTE: ALL BASE AND TOP TRACK RUNNERS (WHERE APPLICABLE) SHALL BE HOT-DIP GALV. STEEL 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

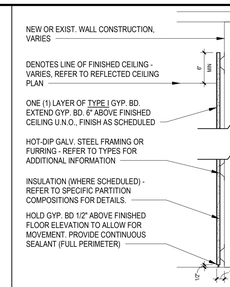
H11 11" NOM. GYP. BD. METAL STUD PARTITION (2-HR RATING)
UL U419 / STC 54, NON-BEARING INTERIOR PARTITION



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

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

I GYP. BD. LAMINATION OVER SUBSTRATE



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

TYPE J1 (1 1/2" TOTAL THICKNESS): 7/8" 22 GA. MIN. HOT-DIP GALV. STEEL HAT CHANNEL FURRING AT 16" O.C. MAX. VERTICALLY

TYPE J2 (2 1/4" TOTAL THICKNESS): 1 5/8" 20GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. HORIZ. PROVIDE 1 1/2" RIGID INSULATION BETWEEN ALL STUDS.

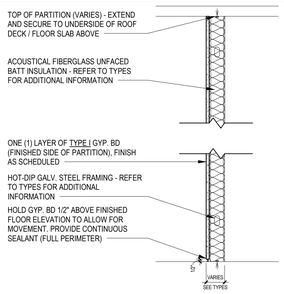
TYPE J3 (3 1/8" TOTAL THICKNESS): 2 1/2" 20GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. HORIZ. PROVIDE 2 1/2" RIGID INSULATION BETWEEN ALL STUDS.

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

J1 GYP. BD. OVER 7/8" METAL FURRING
GRAPHIC SIMILAR AS SHOWN

J2 GYP. BD. OVER 2 1/4" METAL FURRING
GRAPHIC SIMILAR AS SHOWN

J3 GYP. BD. OVER 3 1/8" METAL FURRING
GRAPHIC SIMILAR AS SHOWN



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

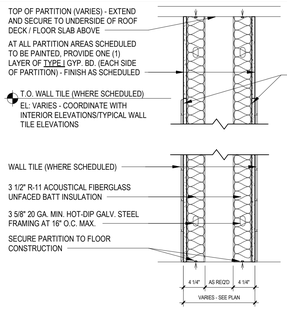
TYPE K4 (4 1/4" TOTAL THICKNESS): 3 5/8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 3 1/2" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

TYPE K7 (6 5/8" TOTAL THICKNESS): 6" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 5 1/2" R-21 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

NOTE: ALL BASE AND TOP TRACK RUNNERS (WHERE APPLICABLE) SHALL BE HOT-DIP GALV. STEEL 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



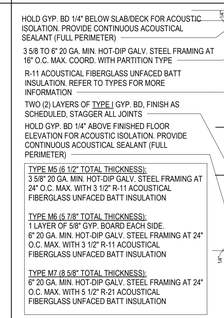
NOTE: COORDINATE PLUMBING PARTITION CONSTRUCTION WITH ALL TRADES. REFER TO MEP-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

AT ALL PARTITION AREAS SCHEDULED TO RECEIVE TILE, PROVIDE ONE (1) LAYER OF 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 (WHERE APPLICABLE) SHALL BE HOT-DIP GALV. STEEL 20GA MIN. FASTENED AT 24" O.C. MAX.

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



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.

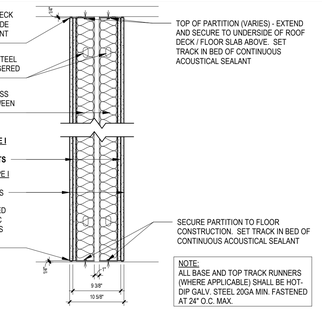
NOTE: ALL BASE AND TOP TRACK RUNNERS (WHERE APPLICABLE) SHALL BE HOT-DIP GALV. STEEL 20GA MIN. FASTENED AT 24" O.C. MAX.

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

M5 GYP. BD. METAL 3 5/8" STUD ACOUSTICAL PARTITION (1 1/2-HR RATING)
UL U452 / STC 58

M6 GYP. BD. METAL 6" STUD ACOUSTICAL PARTITION (1-HR RATING)
UL U419 / STC 54

M7 GYP. BD. METAL 6" STUD ACOUSTICAL PARTITION (1 1/2-HR RATING)
UL U452 / STC 59



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

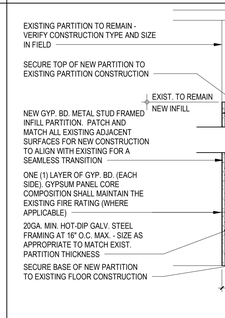
SECURE PARTITION TO FLOOR CONSTRUCTION. SET TRACK IN BED OF CONTINUOUS ACOUSTICAL SEALANT

NOTE: ALL BASE AND TOP TRACK RUNNERS (WHERE APPLICABLE) 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

N10 GYP. BD. METAL DOUBLE 3 5/8" STUD PARTITION W/ 1 LAYER OF GYP. BD. (1-HR RATING)
UL U493 / STC 59

N11 GYP. BD. METAL DOUBLE 3 5/8" STUD PARTITION W/ 2 LAYERS OF GYP. BD (1-HR RATING)
UL U493 / STC 66



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

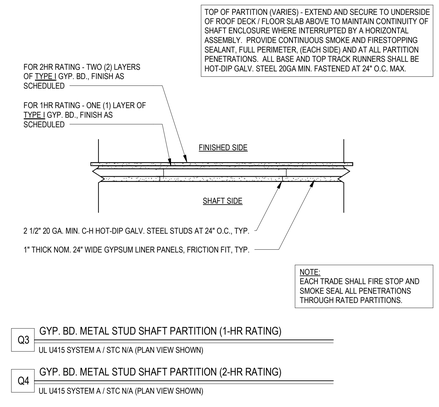
REFER TO GENERAL PARTITION TYPE NOTE 10 THIS SHEET FOR ADDITIONAL INFILL PARTITION REQUIREMENTS.

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. - V.I.F.

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

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

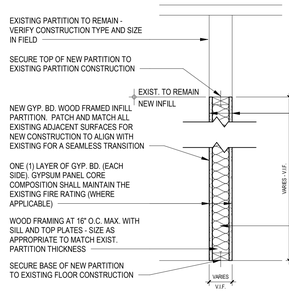
O GYP. BD. METAL STUD INFILL PARTITION
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN FIELD



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

Q3 GYP. BD. METAL STUD SHAFT PARTITION (1-HR RATING)
UL U415 SYSTEM A / STC N/A (PLAN VIEW SHOWN)

Q4 GYP. BD. METAL STUD SHAFT PARTITION (2-HR RATING)
UL U415 SYSTEM A / STC N/A (PLAN VIEW SHOWN)



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.

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. - V.I.F.

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

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

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, PER SPECIFICATION SECTION 09900.
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.

REV.	DATE	ITEM

NOTICE

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PROJECT: BRIARCLIFF MANOR U.F.S.D. PHASE 2 BOND IMPROVEMENTS BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL 444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: PARTITION TYPES

DRWG. BY: C.M.
CHK. BY: G.E.O.

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LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
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SED No. 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR U.F.S.D.
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: PARTITION TYPES
SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

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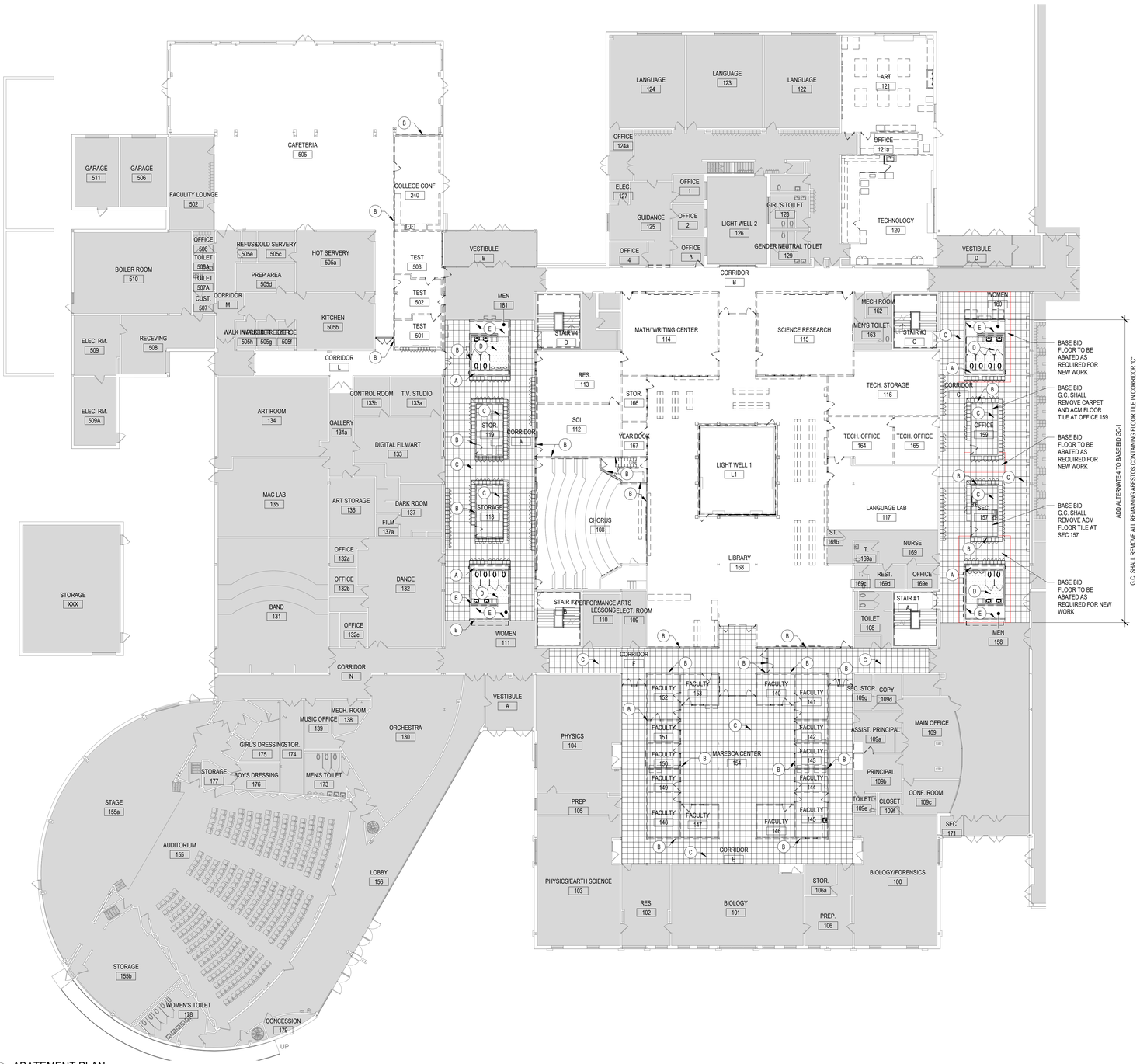

1 ABATEMENT PLAN
SCALE: 1/16" = 1'-0"

GENERAL ABATEMENT NOTES

1. ALL LEAD, ASBESTOS AND/OR PCB REMOVAL BY G.C. THE CONTRACTOR SHALL PERFORM A SITE INSPECTION PRIOR TO SUBMITTING A BID TO REVIEW AND QUANTIFY ALL ASBESTOS, LEAD and/or PCB CONTAINING CONSTRUCTION MATERIALS TO BE REMOVED OR AFFECTED BY THE PROPOSED SCOPE OF WORK.
2. REFER TO ASBESTOS, LEAD AND PCB CONSTRUCTION NOTES THIS DRAWING FOR ADDITIONAL INFORMATION.
3. REFER TO SPECIFICATIONS - INFORMATION TO BIDDERS FOR LEAD / ASBESTOS INSPECTION AND TESTING REPORTS FOR ADDITIONAL INFORMATION.
4. EACH CONTRACTOR PERFORMING WORK WITHIN OR ADJACENT TO ASBESTOS CONTAINING CONSTRUCTION MATERIALS SHALL EXERCISE EXTREME CAUTION TO NOT DAMAGE OR DISTURB EXISTING MATERIALS TO REMAIN. EACH CONTRACTOR SHALL BE / OBTAIN OSHA ASBESTOS TRAINING CERTIFIED TO PERFORM SPECIFIED WORK IN OR ADJACENT TO CONTAMINATED SPECIFICATIONS. EACH CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSABLE CLOTHING AND/OR MASKS IF REQUIRED

ASBESTOS, LEAD, AND PCB NOTES

1. ALL CONTRACTORS SHALL BE ADVISED THAT THE SCHOOL DISTRICT HAS SOLICITED AN INDEPENDENT TESTING COMPANY TO INSPECT AND TEST ALL AREAS OF THE EXISTING BUILDING WHICH ARE SCHEDULED TO BE DISTURBED DURING CONSTRUCTION FOR THE PRESENCE OF ASBESTOS, LEAD AND OR PCB CONTAINING CONSTRUCTION MATERIALS.
2. RESULTS OF THE INSPECTIONS AND TESTING INDICATE THAT THE EXISTING BUILDING HAS TESTED POSITIVE FOR THE PRESENCE OF ASBESTOS, LEAD AND/OR PCB CONTAINING CONSTRUCTION MATERIALS. REFER TO SPECIFICATIONS FOR DESCRIPTION OF LOCATION, MATERIALS AND SAMPLE NUMBERS.
3. ALL DISTURBANCE, REMOVAL OR DEMOLITION WORK TO THESE IDENTIFIED AREAS MUST BE PERFORMED IN CONFORMANCE WITH THE GUIDELINES AS OUTLINED IN THE PROJECT MANUAL AND APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS
4. ALL INSPECTIONS AND TESTING HAVE BEEN PERFORMED BY:
   WSP USA SOLUTIONS, INC.
   500 SUMMIT LAKE DRIVE, SUITE 450
   VALHALLA, NY 10595

FLUORESCENT BULB NOTES

ALL EXISTING FLUORESCENT BULBS TO BE REMOVED SHALL BE CONSIDERED HAZARDOUS WASTE AND SHOULD BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) & UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) RULES, REGULATIONS & GUIDELINES.

ASBESTOS KEY NOTES

- (A) AREAS INDICATED: ASBESTOS PIPE WRAP INSULATION AND PIPE FITTINGS.
- (B) AREAS INDICATED: ASBESTOS CONTAINING JOINT COMPOUND ASSOCIATED WITH GYPSUM BOARD WALL.
- (C) AREAS INDICATED: ASBESTOS 12" X 12" FLOOR TILE & ASSOCIATED MASTIC.
- (D) AREAS INDICATED: ASBESTOS CONTAINING CEMENTITIOUS MATERIAL AT ROOF DRAIN BOWL AND PIPE BELOW.
- (E) AREAS INDICATED: ASBESTOS CONTAINING JOINT COMPOUND ASSOCIATED WITH GYPSUM BOARD CEILING.

REFER TO PRE CONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT ASBESTOS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED ASBESTOS CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES WHICH MAYBE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

LEAD CONTAINING KEY NOTES

(LCP) REMOVE FROM THE AREA INDICATED: LEAD CONTAINING PAINT. (REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION)

DESIGNATED KEY NOTES INDICATE MATERIALS TO BE REMOVED AND PROPERLY DISPOSED OF UNDER THIS PROJECT. REFER TO THE PRECONSTRUCTION LEAD MATERIALS INSPECTION AND SAMPLING REPORT (INFORMATION AVAILABLE TO BIDDERS) FOR LEAD CONTAINING CONSTRUCTION MATERIALS TO REMAIN OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

GENERAL CONTRACTOR SHALL COORDINATE ABATEMENT WITH PROPOSED SCHEDULE OF WORK AS OUTLINED IN THE CONSTRUCTION IMPLEMENTATION PLANS.

FLOOR PLAN LEGEND

AREA NOT IN CONTRACT U.O.N.

REV.	DATE	ITEM
1		

NOTICE

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PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE: FIRST FLOOR HIGH SCHOOL ABATEMENT PLAN

DRWG. BY: C.M.
CHK. BY: G.E.O.

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
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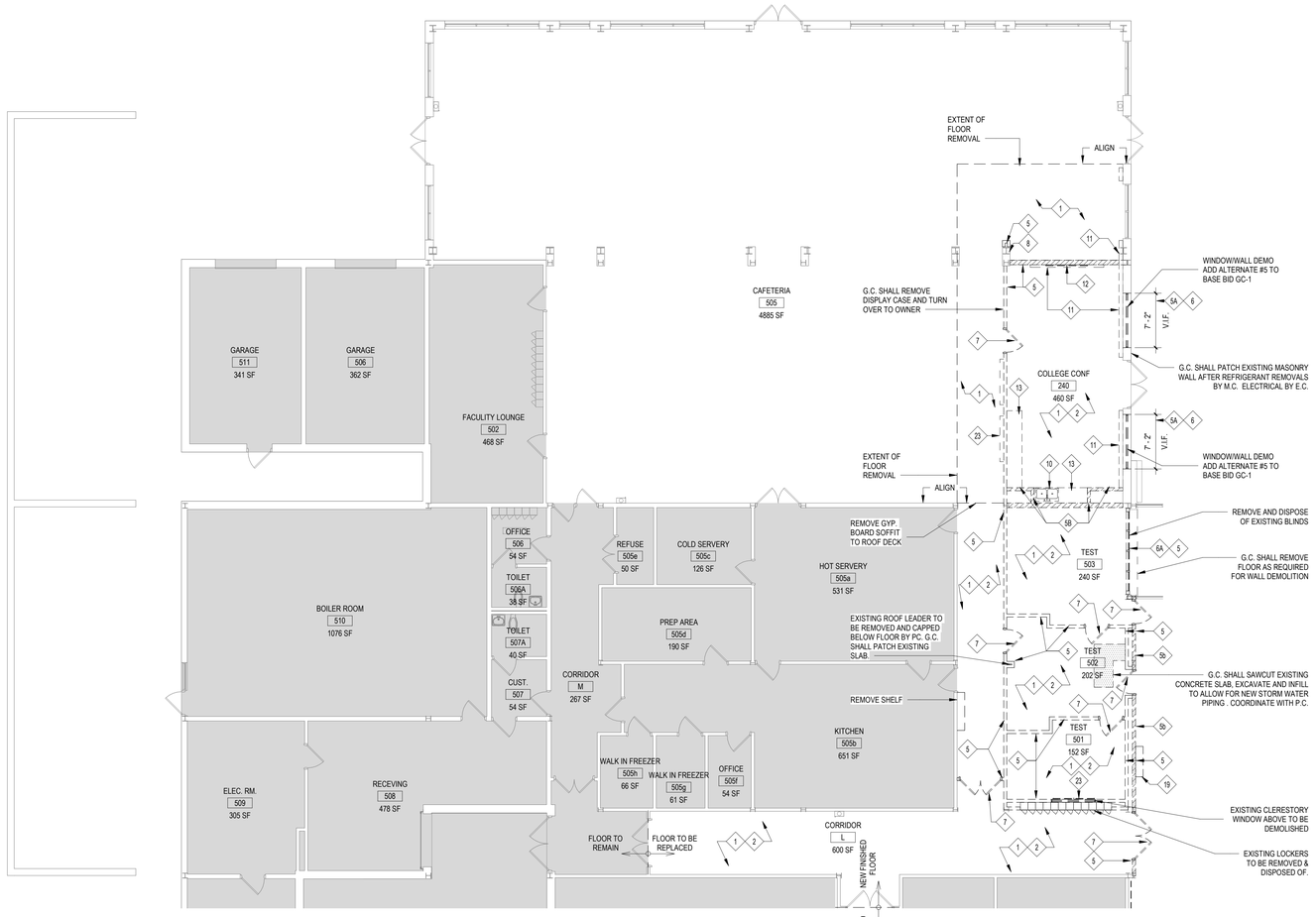
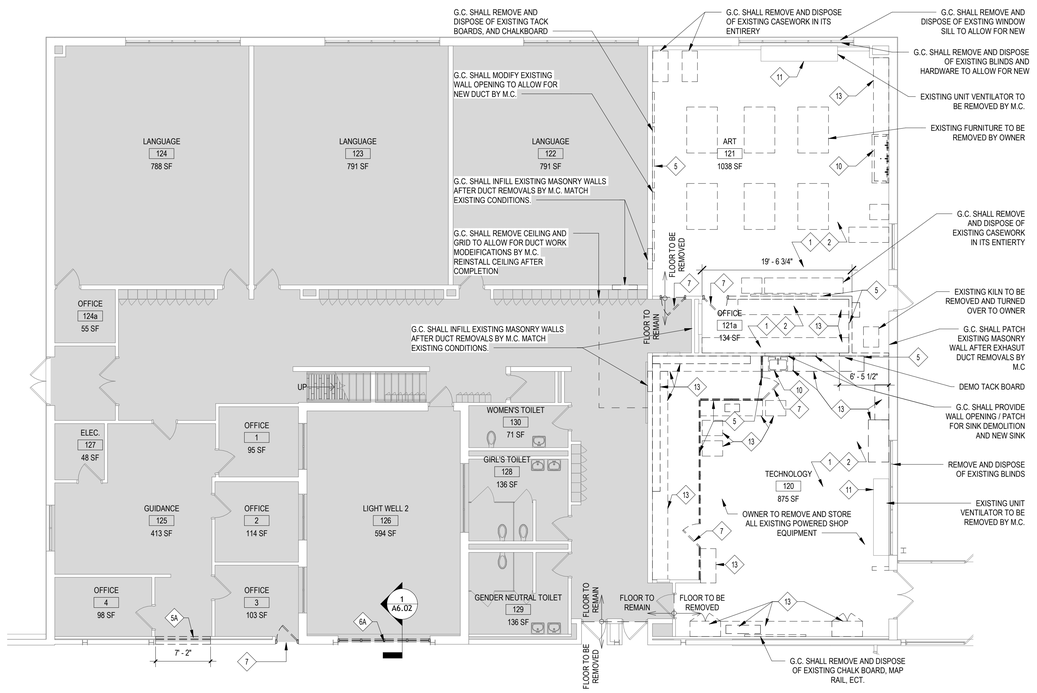


1 FIRST FLOOR DEMOLITION PLAN - AREA A

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



2 FIRST FLOOR DEMOLITION PLAN - AREA C

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

GENERAL REMOVAL NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL, 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 DWG. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND/OR RECONSTRUCTION.
2. IT SHALL BE NOTED THAT G.C. SHALL BE RESPONSIBLE TO OPEN UP ALL WALLS (CMU OR FRAME) AND ALL FLOORS (CONCRETE) AS MAY BE REQUIRED FOR THE P.C. TO PERFORM THEIR WORK. THE G.C. SHALL BE RESPONSIBLE TO TEMPORARILY SHORE UP THE WALLS AND CLOSE UP ALL WALLS AND FLOORS IN SIZE/COURSE THICKNESS AND TYPES TO MATCH EXIST. ADJACENT.
3. NOTED CASEWORK AND FURNITURE REMOVALS MAY BE BASE CABINETS, COUNTERS, WALL CABINETS, SHELVING, BUILT IN CASEWORK, INSTRUMENT STORAGE CABINETS OR APPLIANCES. OWNER TO REMOVE ALL LOOSE FURNISHINGS AND STORED MATERIALS PRIOR TO START OF WORK.
4. G.C. SHALL REMOVE ALL V.A.T., MASTIC AND WALL BASE, AND/OR LEAD CONTAINING CONSTRUCTION MATERIALS. REFER TO ASBESTOS/LEAD ABATEMENT PLAN AND INSPECTION/TEST RESULTS FOR ADDITIONAL INFORMATION.
5. ALL REMOVALS OF EXISTING FIXTURES WHICH ARE AFFIXED TO V.A.T. SHALL BE TREATED AS AN ASBESTOS ABATEMENT ITEM AND SHALL CONFORM TO REMOVAL PROCEDURES AND REQUIREMENTS.
6. G.C. SHALL SAWCUT WALLS, FLOORS, ROOF, ETC. UNLESS OTHERWISE NOTED. REFER TO M.E.P. DRAWINGS FOR LOCATIONS, DESCRIPTIONS AND RESPONSIBILITIES.
7. 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.
8. G.C. SHALL VERIFY ALL REMOVALS W/ OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.
9. NOTED FLOORING REMOVALS MAY BE V.C.T., CARPET OR TERRAZZO. NOTED CEILING REMOVALS MAY BE CONCEALED SPLINE SYSTEM, ACOUSTICAL TILE/GRID SYSTEM, SOFFITS AND FRAMING, OR PLASTER W/ SUPPORT FRAMING. NOTED WALL REMOVALS MAY BE GYP. BD. W/ FRAMING, CMU, CMU W/ APPLIED FINISHES, BRICK, OPERABLE PARTITIONS W/ TRACK/ SUPPORTS AND SHALL INCLUDE ALL DOORS AND FRAMES WHERE SHOWN. UNLESS OTHERWISE NOTED, ALL EXISTING WALL MOUNTED CHALK BD., WHITE BD. OR TACK BD. AND MASTIC/ADHESIVE SHALL BE REMOVED.
10. IN ALL AREAS OF FLOORING REMOVALS - THE G.C. SHALL BE RESPONSIBLE TO COMPLETELY FLASH PATCH THE ENTIRE FLOOR SURFACE. IN PREPARATION OF INSTALLATION OF NEW FINISHED FLOORING. G.C. SHALL FLASH PATCH THE SURFACE WITH "ARDEX" SD-F FEATHER FINISH OR APPROVED EQUAL. FLOOR SURFACES SHALL BE SMOOTH, FREE OF DEPRESSION, BUMPS, UNEVENNESS - LEVEL TO A TOLERANCE OF A MINIMUM OF +/- 1/8" AND OR AS SPECIFIED BY THE FLOORING MANUFACTURERS FLOORING INSTALLATION SPECIFICATIONS. THE G.C. SHALL BE RESPONSIBLE TO MAKE ANY NECESSARY CORRECTIONS TO THE FLOOR SUBSTRATE AS MAY BE DEEMED NECESSARY BY THE ARCHITECT. AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION LEGEND:

EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL SURFACES)

ROOM 222 — ROOM NAME AND NUMBER

DEMOLITION KEY NOTES:

(COORDINATE WITH ASBESTOS, LEAD AND PCB ABATEMENT TESTING REPORTS, ATTACHED TO THE PROJECT MANUAL, PRIOR TO COMMENCE ANY REMOVALS)

DEMO FLOOR - G.C SHALL SAWCUT FLOOR TO ALLOW FOR NEW PLUMBING ELECTRICAL WORK. G.C. TO EXCAVATE, BACKFILL AND PROVIDE NEW SLAB AS NEEDED - COOD. WORK W/ P.C. AND E.C. COORDINATE WITH PROPOSED PLUMBING & ELECTRICAL PLANS.

1. REMOVE EXISTING FLOOR/BASE SYSTEMS IN THEIR ENTIRETY - PREP SUBFLOOR/WALL TO ACCEPT NEW FINISHES.
1A. REMOVE EXISTING TILE FLOOR AND ASSOCIATED TILE BASE IN THEIR ENTIRETY - PREP SUBFLOOR/WALL TO ACCEPT NEW FINISHES.
2. REMOVE EXISTING CEILING SYSTEMS, FRAMING, GYPSUM BOARD, IN THEIR ENTIRETY - COORDINATE DISCONNECTS W/MEP CONTRACTORS.
2A. REMOVE EXISTING PORTION OF CEILING SYSTEMS AS REQUIRED FOR NEW WORK - COORDINATE DISCONNECTS AND EXACT LOCATIONS W/MEP CONTRACTORS.
2B. REMOVE EXISTING CEILING FRAMING, GYPSUM BOARD, AND PLYWOOD COVER IN ITS ENTIRETY ABOVE TOILET ROOM - COORDINATE DISCONNECTS W/MEP CONTRACTORS.
3. REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL SUPPORTS IN THEIR ENTIRETY - COORDINATE DISCONNECTS W/MEP CONTRACTORS.
4. REMOVE EXISTING CONCRETE SLAB AND FOUNDATION BELOW.
5. REMOVE EXISTING SELECTED WALL IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS. REMOVAL SHALL INCLUDE ANY AND ALL EXISTING TOP PARTITION ANCHORS AT EXISTING STEEL BEAMS.
5A. REMOVE EXISTING PORTION OF SELECTED WALL AS REQUIRED FOR NEW DOOR WINDOW MECHANICAL PENETRATION AND APPLICABLE FRAME SYSTEM - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS AND WALL PENETRATION SIZES.
5B. REMOVE EXISTING SELECTED CMU/ MASONRY WALL IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS, REMOVAL SHALL INCLUDE ANY AND ALL EXISTING TOP PARTITION ANCHORS AT EXISTING STEEL BEAMS.
6. REMOVE EXISTING WINDOW & FRAMES IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
6A. REMOVE EXISTING STOREFRONT/ CURTAINWALL SYSTEM IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
7. REMOVE EXISTING DOOR & FRAME IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
7A. REMOVE EXISTING DOOR, "HIDDEN" SIDELITE & FRAME IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES
8. REMOVE EXISTING COLUMN ENCLOSURE & FRAMING IN ITS ENTIRITY.
9. REMOVE EXISTING LOCKERS AND ASSOCIATED BLOCKING. LOOKERS TO BE STORED AND REINSTALLED IN NEW LOCATION. REMOVE AND DISPOSE OF RUBBER BASE. REFER TO THE PROPOSED DRAWINGS FOR NEW LOCATIONS.
10. EXISTING PLUMBING FIXTURE TO BE REMOVED BY P.C. - G.C. SHALL COORDINATE DISCONNECTS W/ P.C.. G.C. TO REMOVE COUNTERTOP & BASE CABINETS.
11. EXISTING MECH EQUIPMENT TO BE REMOVED AND DISPOSED OF BY M.C.
12. EXISTING SMART BOARD TO BE REMOVED AND TURNED OVER TO OWNER.
13. REMOVE EXISTING CASEWORK, SHELVING BASE UNITS AND ASSOCIATED BLOCKING.
14. EXISTING ELECTRICAL PANEL TO BE RELOCATED
15. G.C. SHALL REMOVE AND DISPOSE OF ALL EXISTING VEGETATION, STONE, LARGE BOLDERS, PLANTER BOXES, TABLES, BENCHES. ADN SUBGRADE AS REQ'D FOR NEW SUBBASE AND CONCRETE SLAB ON GRADE.
16. EXISTING EXPOSED DECK AND BEAMS TO BE CLEANED, SCRAPED, AND PREPPED FOR NEW FINISH.
17. REMOVE AND DISPOSE OF FIRE EXTINGUISHER CABINET. TURN FIRE EXT. OVER TO OWNER.
18. EXISTING VENDING MACHINES TO BE MOVED BY OWNER.
19. REMOVE AND DISPOSE OF EXISTING DISPLAY CASE. COORD. WITH OWNER PRIOR TO REMOVAL.
20. REMOVE AND DISPOSE OF EXISTING TOILET PARTITIONS IN ITS ENTIRITY THROUGHOUT TOILET ROOM. REMOVE ALL ACCESSORIES MOUNTED TO PARTITIONS.
21. EXISTING COPIER TO BE REMOVED AND TEMPORARILY RELOCATED BY OWNER.
22. REMOVE AND TURN OWVER TO OWNER ALL EXISTING WALL HUNG PLAQUES.
23. REMOVE AND DISPOSE OF EXISTING WHITE BOARD / CHALK BOARD.
24. REMOVE AND TURN OVER TO OWNER EXISTING LCD TV DISPLAY.
25. G.C. TO DEMO EXISTING RAILING. PATCH AND REPAIR WALL AS NEED TO RECEIVE RELOCATED LOCKERS
26. EXISTING RECESSED DRINKING FOUNTAIN TO BE REMOVED BY P.C. - G.C. SHALL COORDINATE DISCONNECTS W/ P.C.
27. EXISTING WOOD HANDRAIL TO BE DEMOLISHED. EXISTING GUARDRAIL TO REMAIN. PATCH ANY HOLES LEFT IN EXISTING WALL AND GUARDRAIL
28. G.C. TO REMOVE ALL EXISTING FIXED AMPHITHEATER CHAIR
29. G.C. TO OPEN AND PATCH WALL TO ALLOW FOR NEW OUTLETS ON EXISTING WALL PARTITIONS TO REMAIN, COORDINATE WITH ELECTRICAL PLANS & E.C.

FLOOR PLAN LEGEND

AREA NOT IN CONTRACT U.O.N.

REV.	DATE	ITEM

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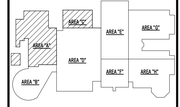

KEY PLAN — NO SCALE

PROJECT: BRIARCLIFF MANOR U.F.S.D. PHASE 2 BOND IMPROVEMENTS — BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL — 444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: DEMOLITION FIRST FLOOR PLAN - AREA A & C

DRWG. BY: C.M.

CHK. BY: G.E.O.

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DISTRICT: BRIARCLIFF MANOR U.F.S.D.

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: DEMOLITION FIRST FLOOR PLAN - AREA A & C

SCALE: AS NOTED

DATE: -

BID P/U DATE: 11/14/2022

FILE NO. 21-274C

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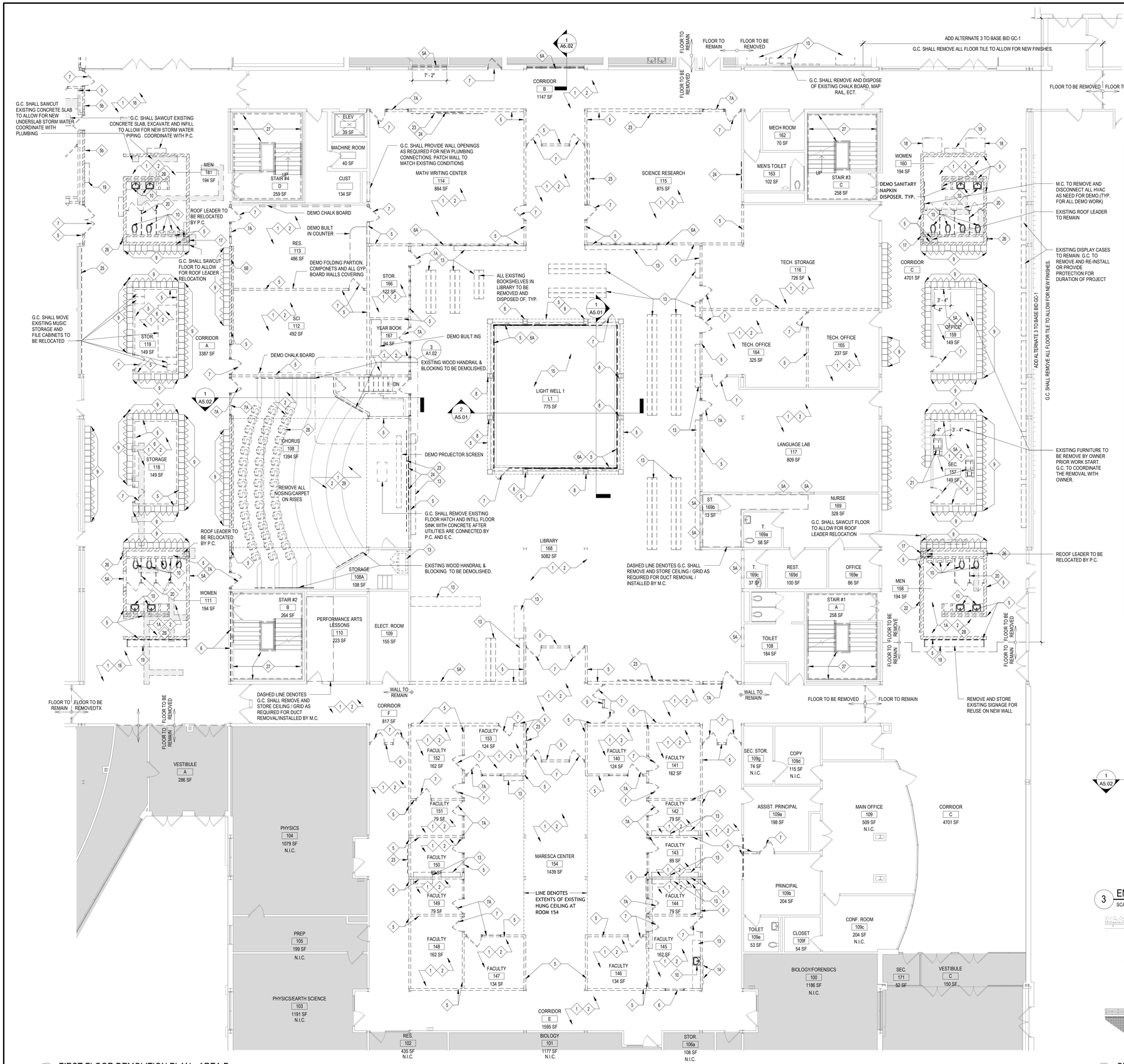


1 FIRST FLOOR DEMOLITION PLAN - AREA D

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

DEMOLITION KEY NOTES:

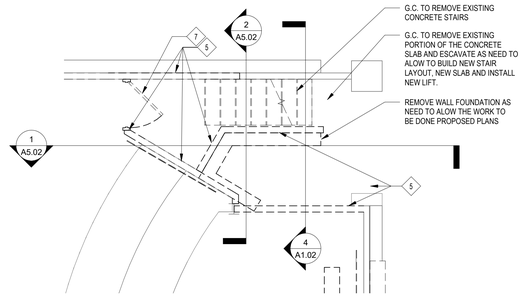
(COORDINATE WITH ASBESTOS, LEAD AND PCB ABATEMENT TESTING REPORTS, ATTACHED TO THE PROJECT MANUAL, PRIOR TO COMMENCE ANY REMOVALS)

DEMO FLOOR - G.C SHALL SAWCUT FLOOR TO ALLOW FOR NEW PLUMBING ELECTRICAL WORK. G.C. TO EXCAVATE, BACKFILL AND PROVIDE NEW SLAB AS NEEDED - COOD. WORK W/ P.C. AND E.C.. COORDINATE WITH PROPOSED PLUMBING & ELECTRICAL PLANS.

1. REMOVE EXISTING FLOOR/BASE SYSTEMS IN THEIR ENTIRETY - PREP SUBFLOOR/WALL TO ACCEPT NEW FINISHES.
1A. REMOVE EXISTING TILE FLOOR AND ASSOCIATED TILE BASE IN THEIR ENTIRETY - PREP SUBFLOOR/WALL TO ACCEPT NEW FINISHES.
2. REMOVE EXISTING CEILING SYSTEMS, FRAMING, GYPSUM BOARD, IN THEIR ENTIRETY - COORDINATE DISCONNECTS W/MEP CONTRACTORS.
2A. REMOVE EXISTING PORTION OF CEILING SYSTEMS AS REQUIRED FOR NEW WORK - COORDINATE DISCONNECTS AND EXACT LOCATIONS W/MEP CONTRACTORS.
2B. REMOVE EXISTING CEILING FRAMING, GYPSUM BOARD, AND PLYWOOD COVER IN ITS ENTIRETY ABOVE TOILET ROOM - COORDINATE DISCONNECTS W/MEP CONTRACTORS.
3. REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL SUPPORTS IN THEIR ENTIRETY - COORDINATE DISCONNECTS W/MEP CONTRACTORS.
4. REMOVE EXISTING CONCRETE SLAB AND FOUNDATION BELOW.
5. REMOVE EXISTING SELECTED WALL IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS. REMOVAL SHALL INCLUDE ANY AND ALL EXISTING TOP PARTITION ANCHORS AT EXISTING STEEL BEAMS.
5A. REMOVE EXISTING PORTION OF SELECTED WALL AS REQUIRED FOR NEW DOOR WINDOW MECHANICAL PENETRATION AND APPLICABLE FRAME SYSTEM - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS AND WALL PENETRATION SIZES.
5B. REMOVE EXISTING SELECTED CMU/ MASONRY WALL IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS. REMOVAL SHALL INCLUDE ANY AND ALL EXISTING TOP PARTITION ANCHORS AT EXISTING STEEL BEAMS.
6. REMOVE EXISTING WINDOW & FRAMES IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
6A. REMOVE EXISTING STOREFRONT/ CURTAINWALL SYSTEM IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
7. REMOVE EXISTING DOOR & FRAME IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
7A. REMOVE EXISTING DOOR, "HIDDEN" SIDELITE & FRAME IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES
8. REMOVE EXISTING COLUMN ENCLOSURE & FRAMING IN ITS ENTIRTY.
9. REMOVE EXISTING LOCKERS AND ASSOCIATED BLOCKING. LOCKERS TO BE STORED AND REINSTALLED IN NEW LOCATION. REMOVE AND DISPOSE OF RUBBER BASE. REFER TO THE PROPOSED DRAWINGS FOR NEW LOCATIONS.
10. EXISTING PLUMBING FIXTURE TO BE REMOVED BY P.C. - G.C. SHALL COORDINATE DISCONNECTS W/ P.C., G.C. TO REMOVE COUNTERTOP & BASE CABINETS.
11. EXISTING MECH EQUPMENT TO BE REMOVED AND DISPOSED OF BY M.C.
12. EXISTING SMART BOARD TO BE REMOVED AND TURNED OVER TO OWNER.
13. REMOVE EXISTING CASEWORK, SHELVING BASE UNITS AND ASSOCIATED BLOCKING.
14. EXISTING ELECTRICAL PANEL TO BE RELOCATED
15. G.C. SHALL REMOVE AND DISPOSE OF ALL EXISTING VEGETATION, STONE, LARGE BOLDERS, PLANTER BOXES, TABLES, BENCHES, ADN SUBGRADE AS REQ'D FOR NEW SUBBASE AND CONCRETE SLAB ON GRADE.
16. EXISTING EXPOSED DECK AND BEAMS TO BE CLEANED, SCRAPED, AND PREPPED FOR NEW FINISH.
17. REMOVE AND DISPOSE OF FIRE EXTINGUISHER CABINET. TURN FIRE EXT. OVER TO OWNER.
18. EXISTING VENDING MACHINES TO BE MOVED BY OWNER.
19. REMOVE AND DISPOSE OF EXISTING DISPLAY CASE. COORD. WITH OWNER PRIOR TO REMOVAL.
20. REMOVE AND DISPOSE OF EXISTING TOILET PARTITIONS IN ITS ENTIRITY THROUGHOUT TOILET ROOM. REMOVE ALL ACCESSORIES MOUNTED TO PARTITIONS.
21. EXISTING COPIER TO BE REMOVED AND TEMPORARILY RELOCATED BY OWNER.
22. REMOVE AND TURN OWVER TO OWNER ALL EXISTING WALL HUNG PLAQUES.
23. REMOVE AND DISPOSE OF EXISTING WHITE BOARD / CHALK BOARD.
24. REMOVE AND TURN OVER TO OWNER EXISTING LCD TV DISPLAY.
25. G.C. TO DEMO EXISTING RAILING. PATCH AND REPAIR WALL AS NEED TO RECEIVE RELOCATED LOCKERS
26. EXISTING RECESSED DRINKING FOUNTAIN TO BE REMOVED BY P.C. - G.C. SHALL COORDINATE DISCONNECTS W/ P.C.
27. EXISTING WOOD HANDRAIL TO BE DEMOLISHED. EXISTING GUARDRAIL TO REMAIN. PATCH ANY HOLES LEFT IN EXISTING WALL AND GUARDRAIL
28. G.C. TO REMOVE ALL EXISTING FIXED AMPHITHEATER CHAIR
29. G.C. TO OPEN AND PATCH WALL TO ALLOW FOR NEW OUTLETS ON EXISTING WALL PARTITIONS TO REMAIN, COORDINATE WITH ELECTRICAL PLANS & E.C.

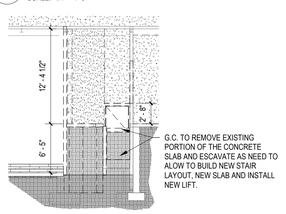
FLOOR PLAN LEGEND

AREA NOT IN CONTRACT U.O.N.



3 ENLARGED DEMO PLAN - CHORUS STAIR - AREA D

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



4 CHORUS STAIR - DEMO SECTION

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

REV.	DATE	ITEM

NOTICE

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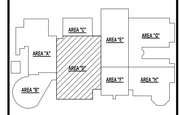

KEY PLAN

NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

DEMOLITION FIRST FLOOR PLAN - AREA D

DWG TITLE

DRWG. BY: C.M.

CHK. BY: G.E.O.

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BBS
ARCHITECTS
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ENGINEERS

BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

www.BBSARCHITECTURE.COM

SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE DEMOLITION FIRST FLOOR PLAN - AREA D

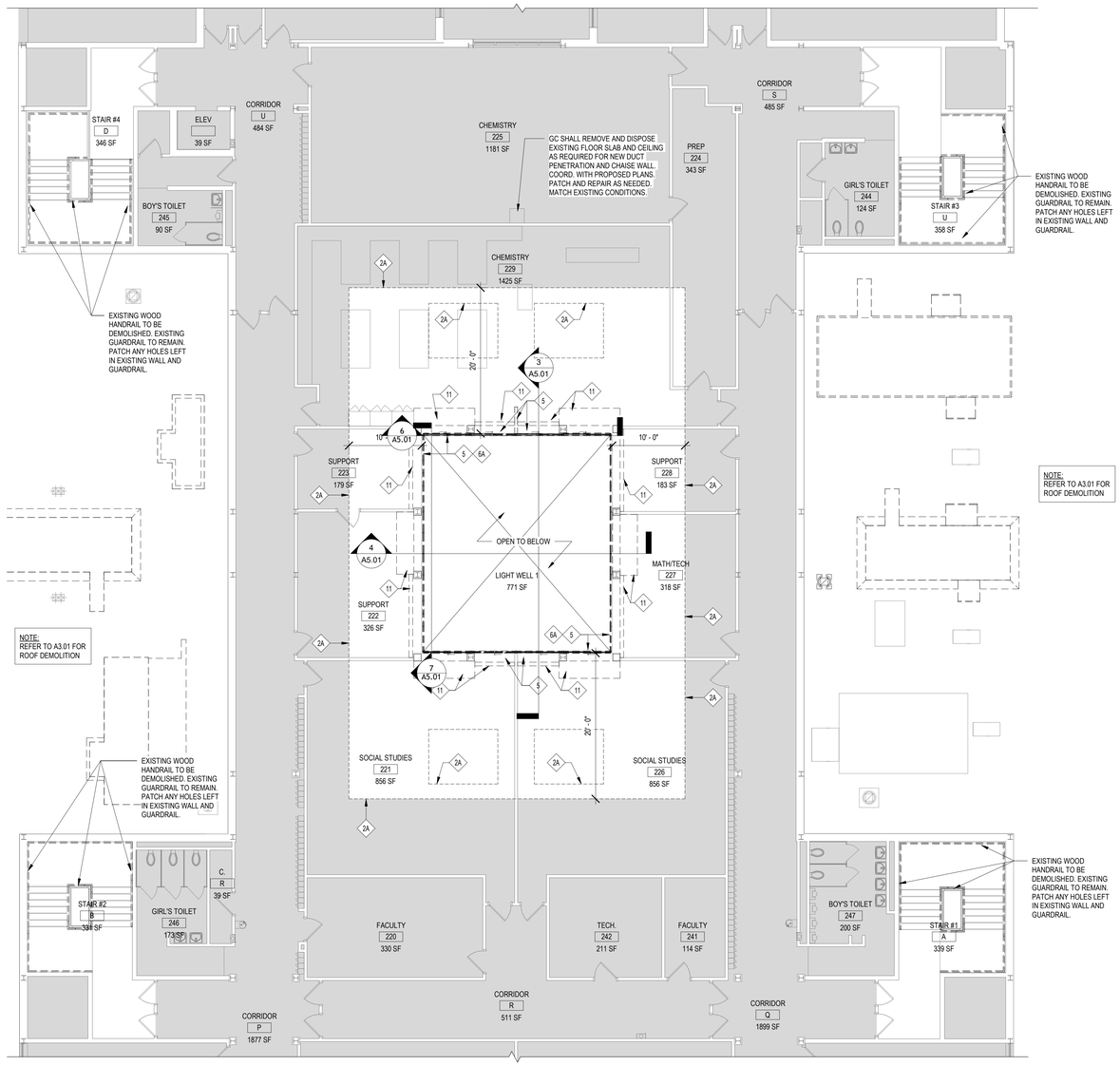
SCALE: AS NOTED

DATE: -

BID P/U DATE: 11/14/2022

FILE NO. 21-274C

A1.02 HSMS



1 SECOND FLOOR DEMO PLAN - AREA D

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

BIDDER NOTE:
ADD ALTERNATE #6 TO BASE BID GC-1
GC SHALL REMOVE AND REPLACE EXISTING CEILING TILE IN ROOMS 221, 222, 223, 226, 227, 228, 229.

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REV.	DATE	ITEM

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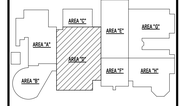

KEY PLAN

NO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

DEMOLITION SECOND FLOOR PLAN - AREA D

DRWG. BY: C.M.
CHK. BY: G.E.O.

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ARCHITECTS
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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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DWG TITLE DEMOLITION SECOND FLOOR PLAN - AREA D

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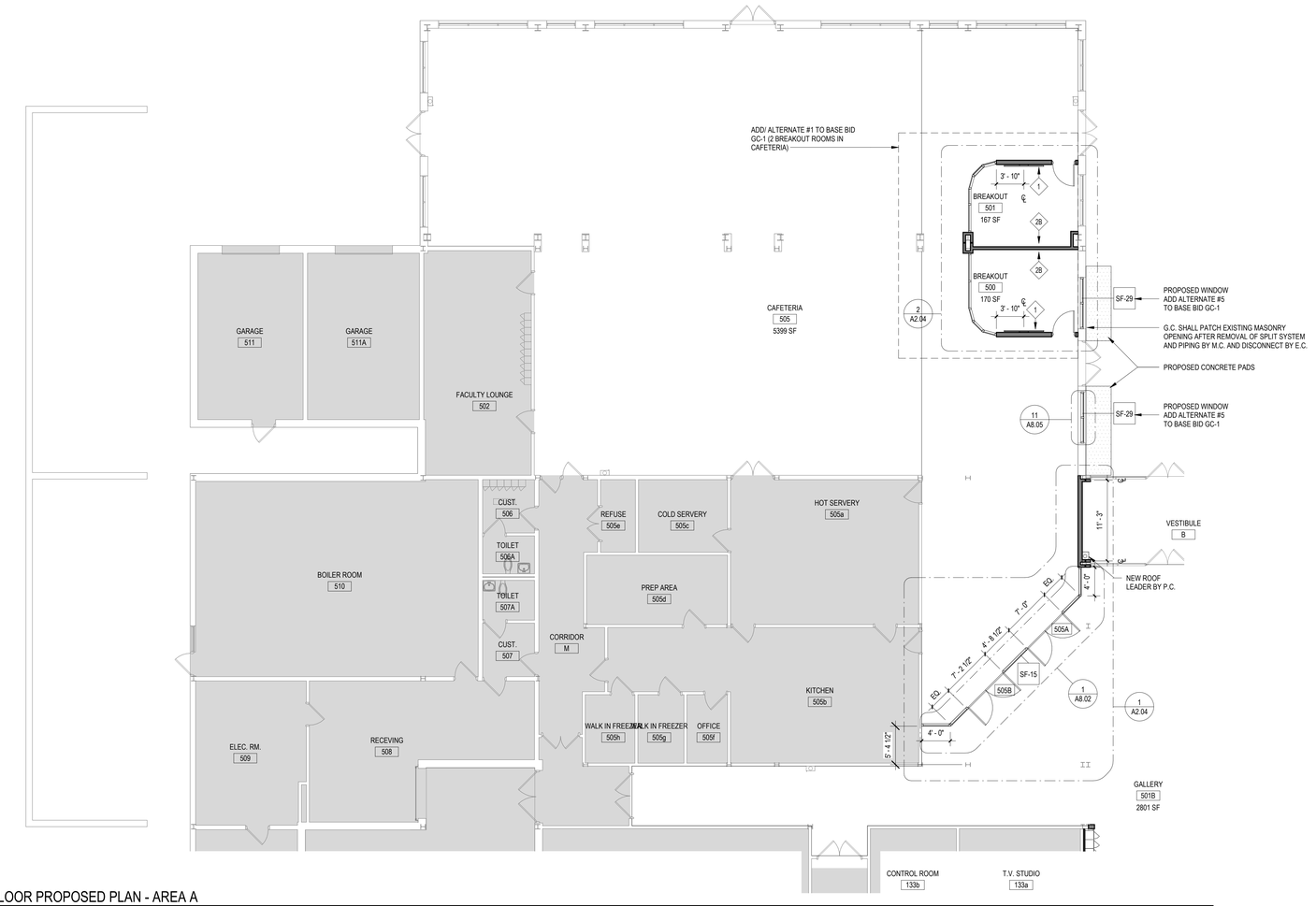
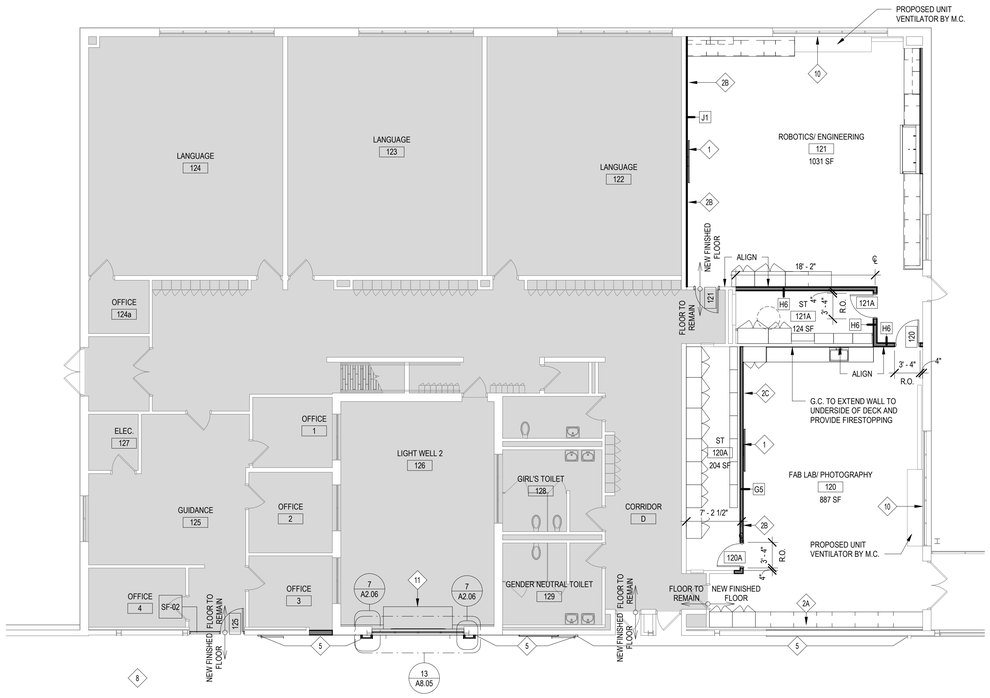
A1.03 HSMS



1 FIRST FLOOR PROPOSED PLAN - AREA A

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



2 FIRST FLOOR PROPOSED PLAN - AREA C

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

ARCHITECTURAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	KEY NOTE
XXX	DOOR NUMBER
WX	WINDOW DESIGNATION
XXXX / XXX / XXX SF	ROOM TAG ROOM NAME ROOM NUMBER ROOM AREA
	ELEVATION DATUM
XX / XX.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.
E.J.	DENOTES LOCATION OF FLEL BUILDING EXPANSION JOINT. PROVIDE APPROPRIATE INTERIOR FLOOR, WALL AND CEILING EXPANSION JOINT COVERS, WHERE APPLICABLE. PROVIDE VERTICAL JOINT BY 'EMSEAL' OR EQUAL AT EXTERIOR, WHERE APPLICABLE.
M.C.J.	DENOTES LOCATION OF 1/2" MASONRY CONTROL JOINT WITH CONTINUOUS BACKER ROD AND SEALANT.
D.S.	DENOTES LOCATION OF NEW CAST STONE DATE STONE.
D.P.	DENOTES LOCATION OF NEW DEDICATION PLAQUE.
S.D.	DENOTES LOCATION OF SMOKE DOOR.
XX'-XX" / XXX.XX'	DENOTES FINISH FLOOR ELEVATION REFERENCED FROM 0'-0". WHERE ENGINEERING ELEVATIONS ARE REFERENCED (000.00'). REFER TO CIVIL-SERIES DRAWINGS FOR ADDITIONAL DATUM INFORMATION.
LL'XX	DENOTES LOCATION AND DESIGNATION OF NEW LINTEL.
R.W.	DENOTES LOCATION OF NEW/EXISTING RESCUE WINDOW.
I.D.	DENOTES LOCATION OF TRUSS / JOIST IDENTIFICATION SIGN.
A.E.D.	DENOTES LOCATION OF AUTOMATED EXTERNAL DEFIBRILLATOR.
M.O.S.	DENOTES LOCATION OF ASSEMBLY SPACE MAXIMUM OCCUPANCY SIGN.
A.O.R.	DENOTES LOCATION OF AREA OF REFUGE WITH TWO-WAY COMMUNICATION DEVICE. REFER TO E-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
XXX	DENOTES MAXIMUM DOOR / STAIR EXITING CAPACITY.
X.X	DENOTES R.E.U. FOR ASSEMBLY SPACES
M	DENOTES DOOR ON MAGNETIC AUTOMATIC HOLD OPEN DEVICE, CONNECTED TO FIRE ALARM SYSTEM.
M.O.L. XX / P.S. XX	MAX. OCCUPANCY LOAD (PER N.Y.S. CODE) PUPIL STATION COUNT
	DENOTES ACCESSIBLE ENTRANCE/EXIT, FIXTURE, ACCESSORY, DEVICE, OR PARTICIPATION AREA.
	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

ARCHITECTURAL KEY NOTES

1. 75" DIAG SMART BOARD BY OWNER. MOUNTING BLOCKING BY G.C. POWER BY E.C. REFER TO MOUNTING DETAIL 1/A2.06 FOR INFO.
1A. 85" DIAG SMART BOARD BY OWNER. MOUNTING BLOCKING BY G.C. POWER BY E.C. REFER TO MOUNTING DETAIL 1/A2.06 FOR INFO.
1B. 65" DIAG SMART BOARD BY OWNER. MOUNTING BLOCKING BY G.C. POWER BY E.C. REFER TO MOUNTING DETAIL 1/A2.06 FOR INFO.
2A. 16' MARKER BOARD BY G.C.
2B. 8' MARKER BOARD BY G.C.
2C. 6' MARKER BOARD BY G.C.
2D. 4' MARKER BOARD BY G.C.
3. HOMASOTE TACK BOARD WRAPPED W/ FABRIC, CUT TO ALIGN WITH WALL CABINETS ABOVE.
4. G.C. SHALL INFILL EXISTING GYP. BOARD WALL OPENING ABOVE CEILING AND OR INFILL TO NEW SIZED OPENING AFTER DUCT REMOVAL/INSTALL BY M.C. MATCH EXISTING ADJACENT CONDITIONS. TAPE/SPACKLE AND FIRE STOPE OPENINGS. (TYP.)
5. G.C. SHALL PATCH/REPAIN EXISTING GYP. BOARD WALL AFTER REMOVAL OF EXISTING WALL MOUNTED LIGHTING BY E.C. PAINT. (TYPICAL ENTIRE LENGTH OF CORRIDOR)
5A. G.C. SHALL PATCH/REPAIR EXISTING MASONRY WALL AFTER REMOVAL OF EXISTING WALL MOUNTED LIGHTING BY E.C. PAINT. PATCH EXISTING FASTENER HOLES. (TYPICAL ENTIRE LENGTH OF CORRIDOR.)
6. G.C. SHALL PATCH/REPAIR EXISTING GYP. BOARD WALL AFTER REMOVAL OF EXISTING LIGHTING FIXTURE BY E.C. PAINT. (TYP.)
7. G.C. SHALL PATCH/REPAIR EXISTING GYP. BOARD WALL AFTER REMOVAL/INSTAL OF ELECTRICAL PANELS BY E.C. PAINT. (TYP.)
8. G.C. SHALL REINSTALL EXISTING LOCKERS AND BASES. PROVIDE NEW CONTINUOUS SLOPE TOP TO MATCH EXISTING COLOR. PROVIDE NEW RUBBER BASE AT LOCKER. (TYP.)
9. G.C. SHALL PROVIDE AND INSTALL NEW SLAB ON GRADE. REFER TO STRUCTURAL DRAWING'S AND ELECTRICAL DRAWINGS FOR UNDERSLAB ELECTRICAL.
10. G.C. SHALL INSTALL NEW PHENOLIC RESIN SILL
11. G.C. SHALL PROVIDE AND INSTALL NEW 9'X3'X4" THICK CONCRETE PAD CENTERED ON NEW LOUVER. PROVIDE 6X6 4.0X4.0WWF REINF. WITH 8" THICK HAUNCH AT PERIMETER. PROVIDE BROOM FINISH.

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 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.

MATERIAL LEGEND

HATCH	MATERIAL	HATCH	MATERIAL
	CMU WALL CONSTRUCTION		EARTH
	2-HOUR FIREWALL CONSTRUCTION		GRAVEL
	BRICK VENEER CONSTRUCTION		RIGID INSULATION
	GYPSUM AND METAL STUD WALL CONSTRUCTION		BATT INSULATION
	GYPSUM BOARD; PLASTER; MORTAR; SAND		PLYWOOD
	CONCRETE		INTERMEDIATE BLOCKING CONTINUOUS BLOCKING
	STEEL		FINISH WOOD

FLOOR PLAN LEGEND

	AREA NOT IN CONTRACT U.O.N.

REV.	DATE	ITEM
1		

NOTICE

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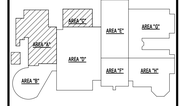

KEY PLAN

NO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED FIRST FLOOR PLAN - AREA A & C

DRWG. BY: C.M.

CHK. BY: G.E.O.

THIS DRAWING, PREPARED FOR THE SPECIFIC PROJECT INDICATED IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. INFRINGEMENT OR ANY USE OF THIS DRAWING FOR ANY OTHER PROJECT IS PROHIBITED. ANY ALTERATION OR REPRODUCTION OF THIS DOCUMENT IS ALSO PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR ENGINEER.

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PROPOSED FIRST FLOOR PLAN - AREA A & C

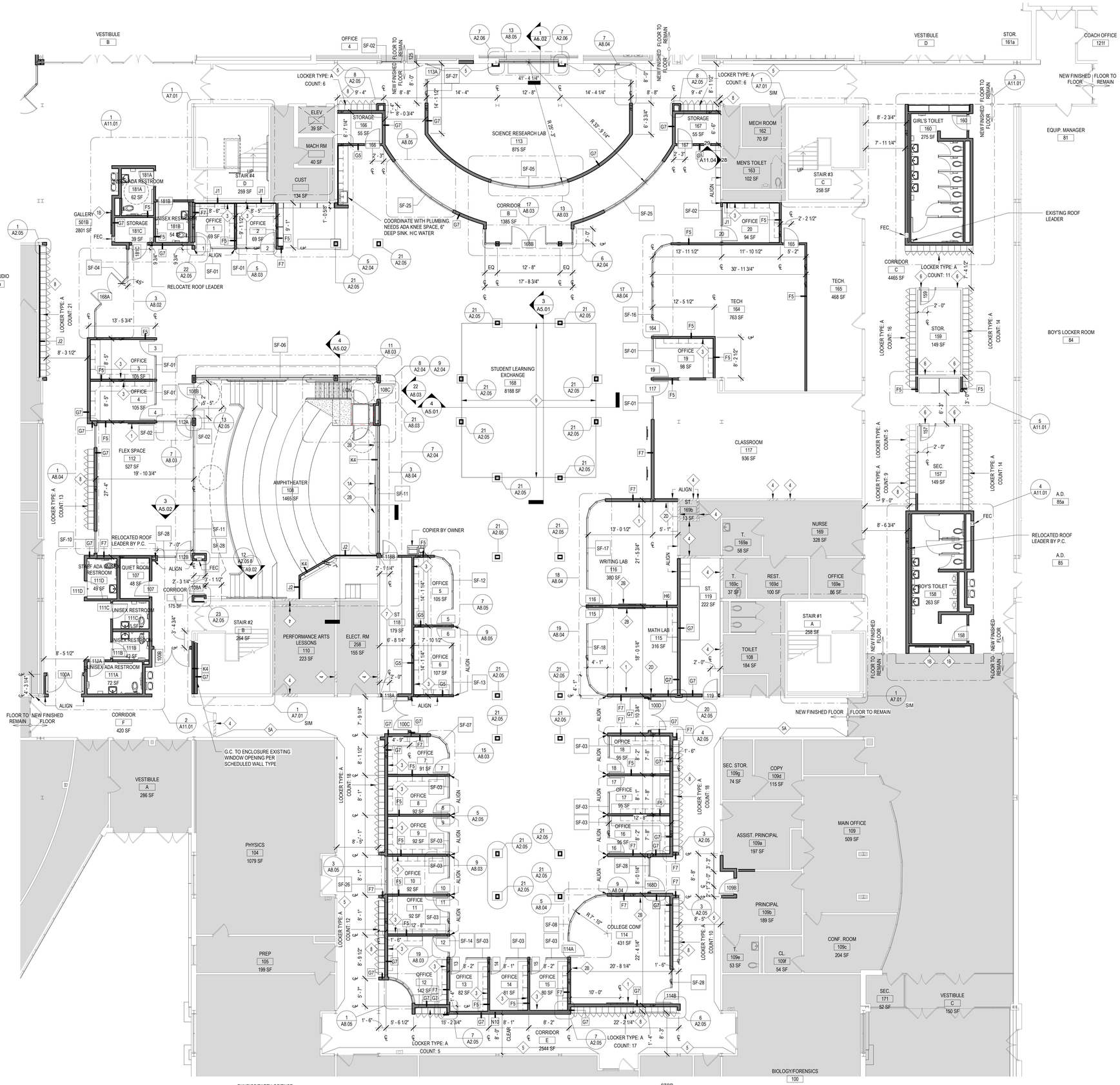
SCALE: AS NOTED

DATE: -

BID P/U DATE: 11/14/2022

FILE NO. 21-274C

A2.01 | HSMS



1 FIRST FLOOR PROPOSED PLAN - AREA D

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

ARCHITECTURAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	KEY NOTE
XXX	DOOR NUMBER
WX	WINDOW DESIGNATION
XXXX / XXX / XXX SF	ROOM TAG: ROOM NAME, ROOM NUMBER, ROOM AREA
	ELEVATION DATUM
XX / XX.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.
E.J.	DENOTES LOCATION OF FULL BUILDING EXPANSION JOINT. PROVIDE APPROPRIATE INTERIOR FLOOR, WALL AND CEILING EXPANSION JOINT COVERS, WHERE APPLICABLE. PROVIDE VERTICAL JOINT BY 'EMSEAL' OR EQUAL AT EXTERIOR, WHERE APPLICABLE.
M.C.J.	DENOTES LOCATION OF 1/2" MASONRY CONTROL JOINT WITH CONTINUOUS BACKER ROD AND SEALANT.
C.S.	DENOTES LOCATION OF NEW CAST STONE DATE STONE.
D.P.	DENOTES LOCATION OF NEW DEDICATION PLAQUE.
S.D.	DENOTES LOCATION OF SMOKE DOOR.
XX'-XX" / XXX.XX'	DENOTES FINISH FLOOR ELEVATION REFERENCED FROM 0'-0". WHERE ENGINEERING ELEVATIONS ARE REFERENCED (000.00'), REFER TO CIVIL-SERIES DRAWINGS FOR ADDITIONAL DATUM INFORMATION.
LL.VX	DENOTES LOCATION AND DESIGNATION OF NEW LINTEL.
R.W.	DENOTES LOCATION OF NEW/EXISTING RESCUE WINDOW.
I.D.	DENOTES LOCATION OF TRUSS / JOIST IDENTIFICATION SIGN.
A.E.D.	DENOTES LOCATION OF AUTOMATED EXTERNAL DEFIBRILLATOR.
M.O.S.	DENOTES LOCATION OF ASSEMBLY SPACE MAXIMUM OCCUPANCY SIGN.
A.O.R.	DENOTES LOCATION OF AREA OF REFUGE WITH TWO-WAY COMMUNICATION DEVICE. REFER TO E-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
XXX	DENOTES MAXIMUM DOOR / STAIR EXITING CAPACITY.
X.X	DENOTES R.E.U. FOR ASSEMBLY SPACES
M	DENOTES DOOR ON MAGNETIC AUTOMATIC HOLD OPEN DEVICE, CONNECTED TO FIRE ALARM SYSTEM.
M.O.L. XX / P.S. XX	MAX. OCCUPANCY LOAD (PER N.Y.S. CODE) / PUPIL STATION COUNT
	DENOTES ACCESSIBLE ENTRANCE/EXIT, FIXTURE, ACCESSORY, DEVICE, OR PARTICIPATION AREA.
	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

ARCHITECTURAL KEY NOTES

1. 75" DIAG SMART BOARD BY OWNER. MOUNTING BLOCKING BY G.C. POWER BY E.C. REFER TO MOUNTING DETAIL 1/A2.06 FOR INFO.
1A. 85" DIAG SMART BOARD BY OWNER. MOUNTING BLOCKING BY G.C. POWER BY E.C. REFER TO MOUNTING DETAIL 1/A2.06 FOR INFO.
1B. 65" DIAG SMART BOARD BY OWNER. MOUNTING BLOCKING BY G.C. POWER BY E.C. REFER TO MOUNTING DETAIL 1/A2.06 FOR INFO.
2A. 16' MARKER BOARD BY G.C.
2B. 8' MARKER BOARD BY G.C.
2C. 6' MARKER BOARD BY G.C.
2D. 4' MARKER BOARD BY G.C.
3. HOMASOTE TACK BOARD WRAPPED W/ FABRIC, CUT TO ALIGN WITH WALL CABINETS ABOVE.
4. G.C. SHALL INFILL EXISTING GYP. BOARD WALL OPENING ABOVE CEILING AND OR INFILL TO NEW SIZED OPENING AFTER DUCT REMOVAL/INSTALL BY M.C. MATCH EXISTING ADJACENT CONDITIONS. TAPE/SPACKLE AND FIRE STOPE OPENINGS. (TYP.)
5. G.C. SHALL PATCH/REPAIR EXISTING GYP. BOARD WALL AFTER REMOVAL OF EXISTING WALL MOUNTED LIGHTING BY E.C. PAINT. (TYPICAL ENTIRE LENGTH OF CORRIDOR)
5A. G.C. SHALL PATCH/REPAIR EXISTING MASONRY WALL AFTER REMOVAL OF EXISTING WALL MOUNTED LIGHTING BY E.C. PAINT. PATCH EXISTING FASTENER HOLES. (TYPICAL ENTIRE LENGTH OF CORRIDOR.)
6. G.C. SHALL PATCH/REPAIR EXISTING GYP. BOARD WALL AFTER REMOVAL OF EXISTING LIGHTING FIXTURE BY E.C. PAINT. (TYP.)
7. G.C. SHALL PATCH/REPAIR EXISTING GYP. BOARD WALL AFTER REMOVAL/INSTAL OF ELECTRICAL PANELS BY E.C. PAINT. (TYP.)
8. G.C. SHALL REINSTALL EXISTING LOCKERS AND BASES. PROVIDE NEW CONTINIOUS SLOPE TOP TO MATCH EXISTING COLOR. PROVIDE NEW RUBBER BASE AT LOCKER. (TYP.)
9. G.C. SHALL PROVIDE AND INSTALL NEW SLAB ON GRADE. REFER TO STRUCTURAL DRAWINGS AND ELECTRICAL DRAWINGS FOR UNDERSLAB ELECTRICAL.
10. G.C. SHALL INSTALL NEW PHENOLIC RESIN SILL
11. G.C. SHALL PROVIDE AND INSTALL NEW 9'X3'X4" THICK CONCRETE PAD CENTERED ON NEW LOUVER. PROVIDE 6X6 4.0X4.0WWF REINF. WITH 8" THICK HAUNCH AT PERIMETER. PROVIDE BROOM FINISH.

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 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.

MATERIAL LEGEND

HATCH	MATERIAL	HATCH	MATERIAL
	CMU WALL CONSTRUCTION		EARTH
	2-HOUR FIREWALL CONSTRUCTION		GRAVEL
	BRICK VENEER CONSTRUCTION		RIGID INSULATION
	GYPSUM AND METAL STUD WALL CONSTRUCTION		BATT INSULATION
	GYPSUM BOARD; PLASTER; MORTAR; SAND		PLYWOOD
	CONCRETE		INTERMEDIATE BLOCKING CONTINUOUS BLOCKING
	STEEL		FINISH WOOD

FLOOR PLAN LEGEND

	AREA NOT IN CONTRACT U.O.N.

REV.	DATE	ITEM
1		

NOTICE

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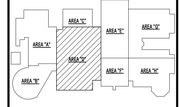

KEY PLAN

NO SCALE

PROJECT

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE

PROPOSED FIRST FLOOR PLAN - AREA D

DRWG. BY: C.M.

CHK. BY: G.E.O.

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7655

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PROPOSED FIRST FLOOR PLAN - AREA D

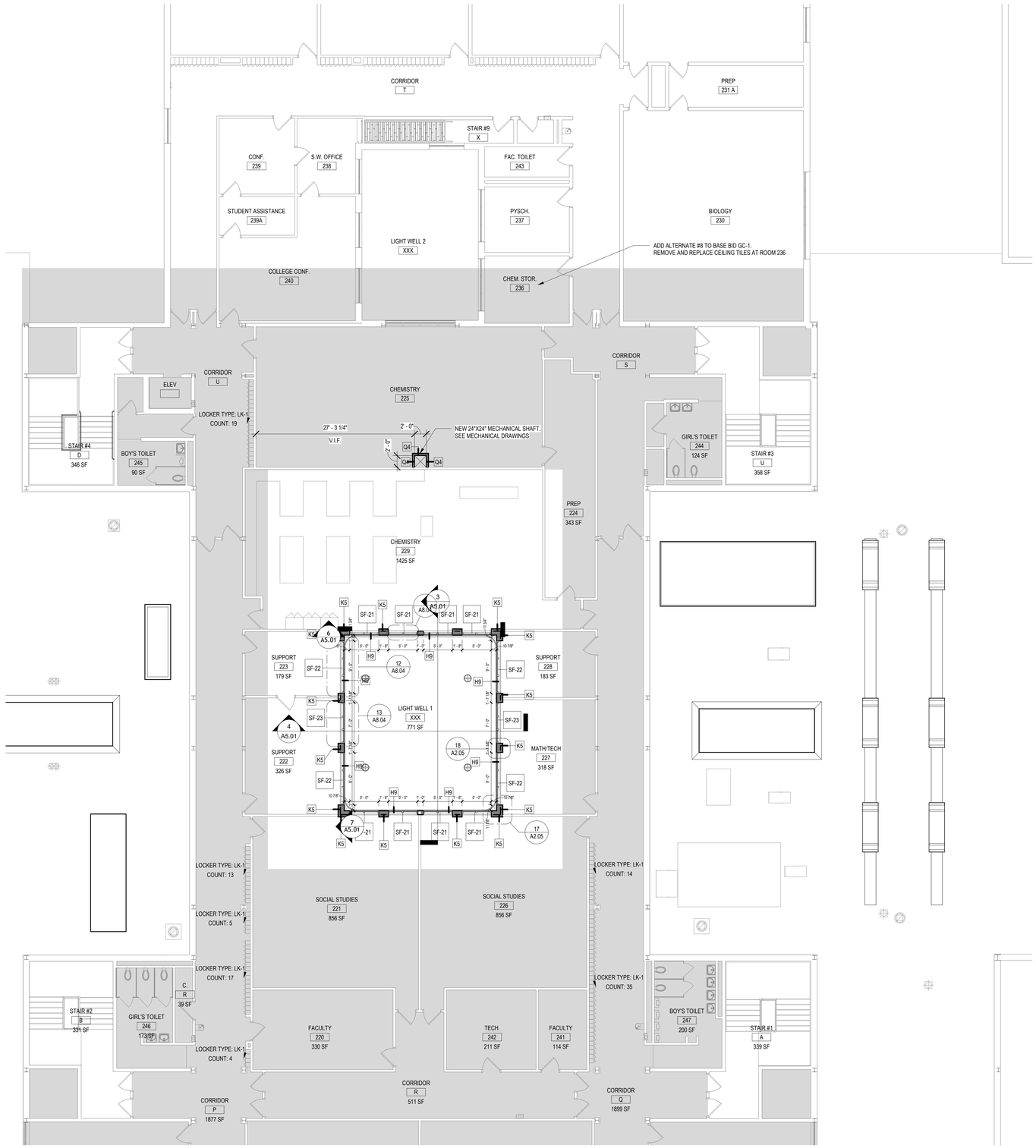
SCALE: AS NOTED

DATE: -

BID P/U DATE: 11/14/2022

FILE NO. 21-274C

A2.02 | HSMS



1 SECOND FLOOR PROPOSED PLAN - AREA D

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

ARCHITECTURAL KEY NOTES

1. 75" DIAG SMART BOARD BY OWNER. MOUNTING BLOCKING BY G.C. POWER BY E.C. REFER TO MOUNTING DETAIL 1/A2.06 FOR INFO.
1A. 85" DIAG SMART BOARD BY OWNER. MOUNTING BLOCKING BY G.C. POWER BY E.C. REFER TO MOUNTING DETAIL 1/A2.06 FOR INFO.
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ARCHITECTURAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
X	KEY NOTE
XXX	DOOR NUMBER
WX	WINDOW DESIGNATION
XXX' - 0" / XXX / XXX SF	ROOM TAG ROOM NAME ROOM NUMBER ROOM AREA
	ELEVATION DATUM
XX / XX.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.
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D.S.	DENOTES LOCATION OF NEW CAST STONE DATE STONE.
D.P.	DENOTES LOCATION OF NEW DEDICATION PLAQUE.
S.D.	DENOTES LOCATION OF SMOKE DOOR.
XX'-0" / XXX.XX'	DENOTES FINISH FLOOR ELEVATION REFERENCED FROM 0'-0". WHERE ENGINEERING ELEVATIONS ARE REFERENCED (000.00'), REFER TO CIVIL-SERIES DRAWINGS FOR ADDITIONAL DATUM INFORMATION.
LL.XX	DENOTES LOCATION AND DESIGNATION OF NEW LINTEL.
R.W.	DENOTES LOCATION OF NEW/EXISTING RESCUE WINDOW.
T.O.	DENOTES LOCATION OF TRUSS / JOIST IDENTIFICATION SIGN.
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XXX	DENOTES MAXIMUM DOOR / STAIR EXITING CAPACITY.
XX	DENOTES R.E.U. FOR ASSEMBLY SPACES
M	DENOTES DOOR ON MAGNETIC AUTOMATIC HOLD OPEN DEVICE, CONNECTED TO FIRE ALARM SYSTEM
M.O.L. XX / P.S. XX	MAX. OCCUPANCY LOAD (PER N.Y.S. CODE) PUPIL STATION COUNT
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MATERIAL LEGEND

HATCH	MATERIAL	HATCH	MATERIAL
	CMU WALL CONSTRUCTION		EARTH
	2-HOUR FIREWALL CONSTRUCTION		GRAVEL
	BRICK VENEER CONSTRUCTION		RIGID INSULATION
	GYPSUM AND METAL STUD WALL CONSTRUCTION		BATT INSULATION
	GYPSUM BOARD; PLASTER; MORTAR; SAND		PLYWOOD
	CONCRETE		INTERMEDIATE BLOCKING CONTINUOUS BLOCKING
	STEEL		FINISH WOOD

FLOOR PLAN LEGEND

	AREA NOT IN CONTRACT U.O.N.

REV.	DATE	ITEM

NOTICE

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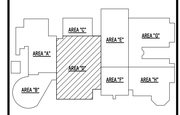

KEY PLAN

NO SCALE

PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: PROPOSED SECOND FLOOR PLAN - AREA D

DRWG. BY: C.M.
CHK. BY: G.E.O.

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650

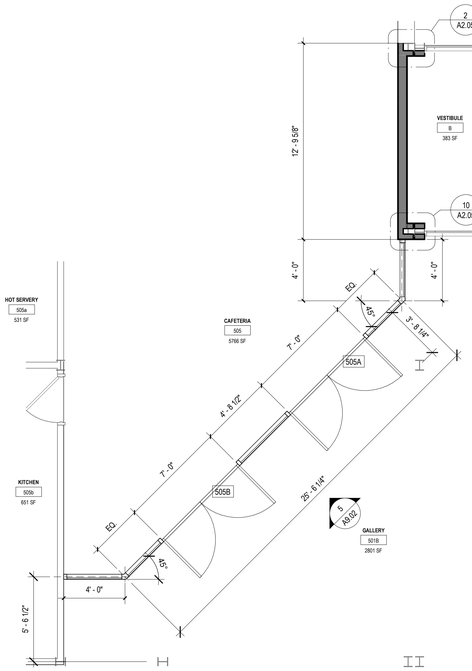
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

www.BBSARCHITECTURE.COM

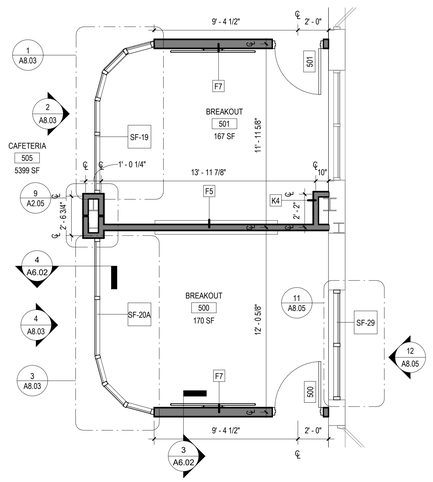
SED No. 66-14-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE PROPOSED SECOND FLOOR PLAN - AREA D

SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

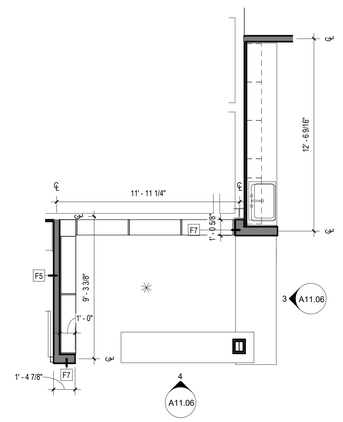
A2.03 HSMS



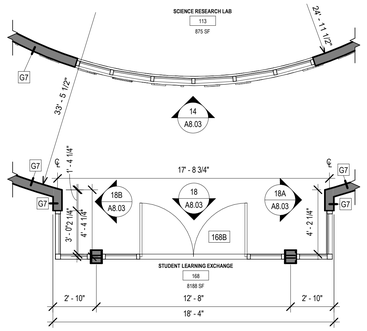
1 ENLARGED PLAN - AREA A - CAFETERIA ENTRY
SCALE: 1/4" = 1'-0"



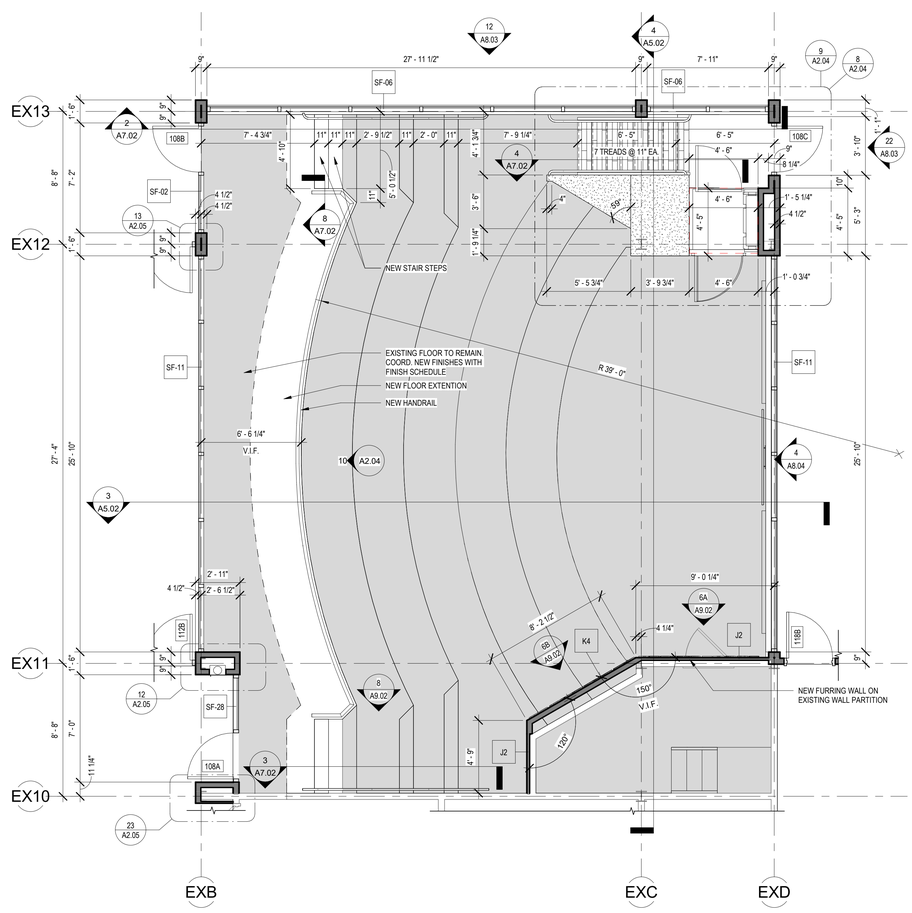
2 ADD/ALT # 1 - ENLARGED PLAN AREA A - BREAKOUT ROOMS
SCALE: 1/4" = 1'-0"



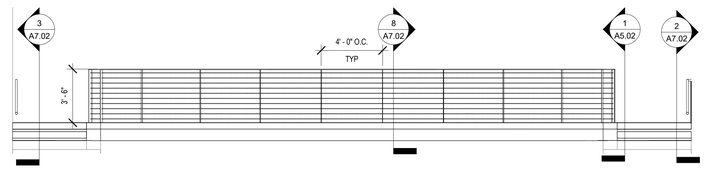
5 ENLARGED PLAN - AREA D - SLE FRONT DESK
SCALE: 1/4" = 1'-0"



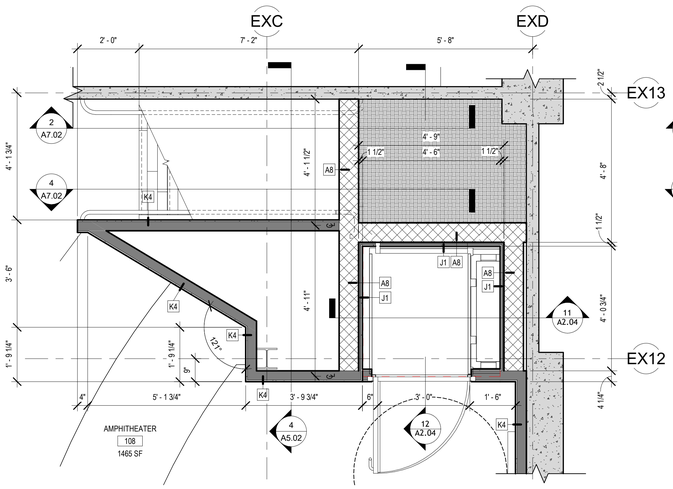
6 ENLARGED PLAN - AREA D - SLE MAIN ENTRY
SCALE: 1/4" = 1'-0"



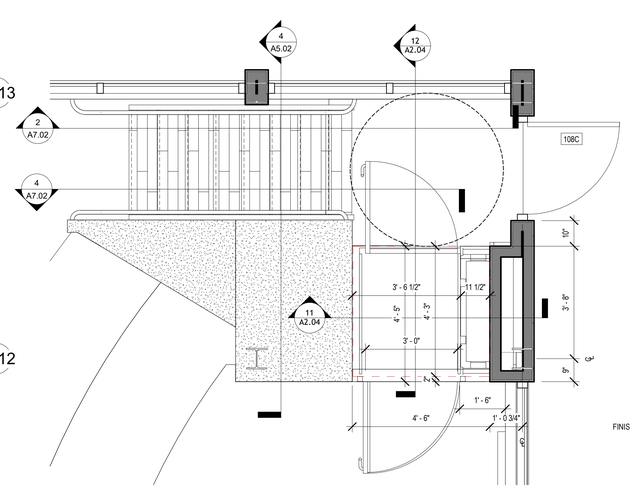
7 ENLARGED PLAN - AMPHITHEATER
SCALE: 1/4" = 1'-0"



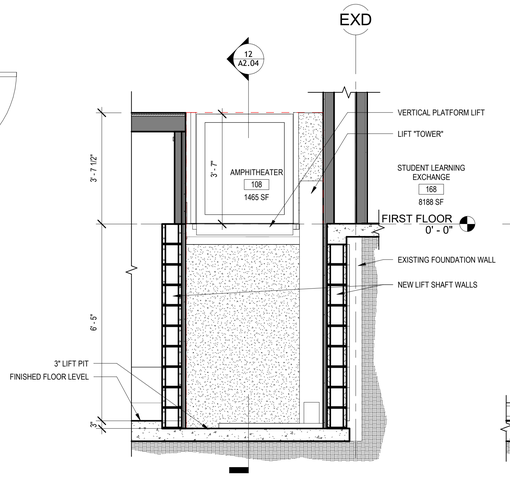
10 AMPHITHEATER GUARDRAIL ELEVATION
SCALE: 1/4" = 1'-0"



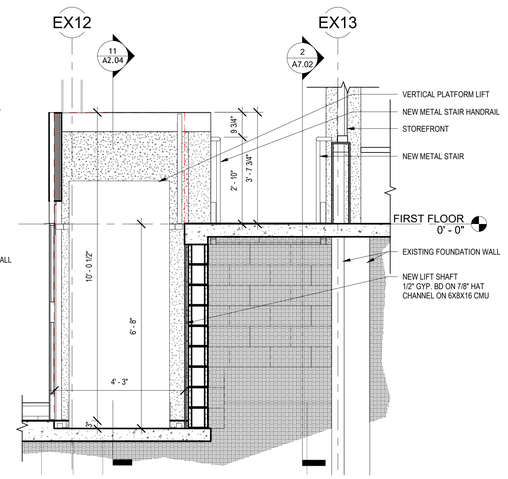
8 ENLARGED PLAN - AREA D - AMPHITHEATER LIFT AND STAIR PLAN - LOWER LEVEL
SCALE: 1/2" = 1'-0"



9 ENLARGED PLAN - AREA D - AMPHITHEATER LIFT AND STAIR PLAN - UPPER LEVEL
SCALE: 1/2" = 1'-0"



11 Section 10
SCALE: 1/2" = 1'-0"



12 Section 11
SCALE: 1/2" = 1'-0"

REV.	DATE	ITEM

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BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

ENLARGED PLANS

PROJECT

DWG/TITLE

DRWG. BY: J.N.
CHK. BY: G.E.O.

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE ENLARGED PLANS

SCALE: AS NOTED
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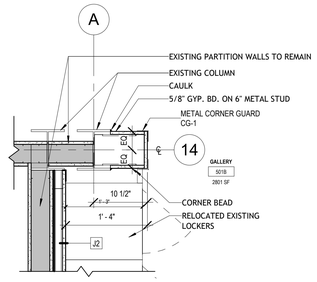
FILE NO. 21-274C

A2.04 HSMS



1 AREA A - COLUMN DETAIL
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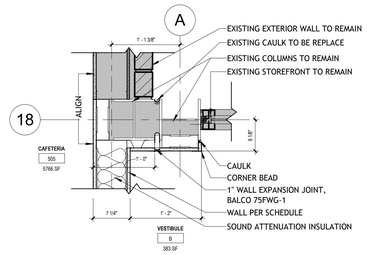
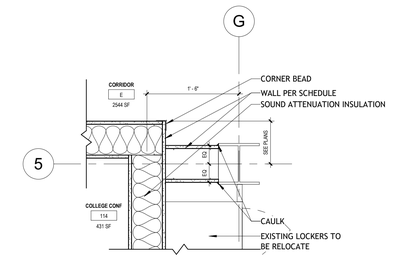
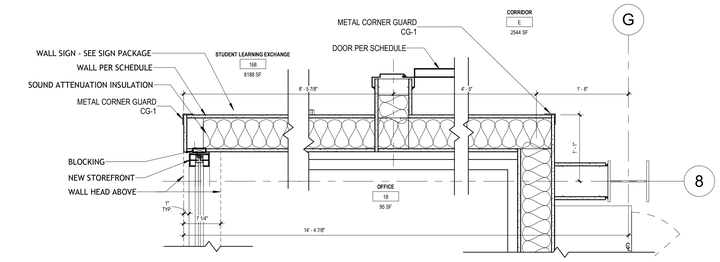


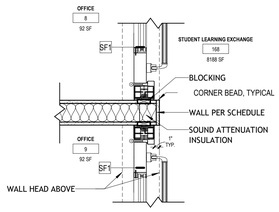
2 AREA A - EXPANSION JOINT @ CAFETERIA 2
SCALE: 1" = 1'-0"



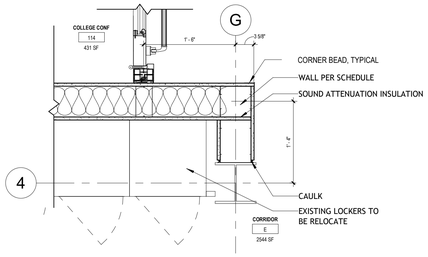
3 AREA D - WALL/COLUMN TYP. TERMINATION
SCALE: 1" = 1'-0"



4 AREA D - PLAN DETAIL D
SCALE: 1" = 1'-0"



5 AREA D - PLAN DETAIL C
SCALE: 1" = 1'-0"



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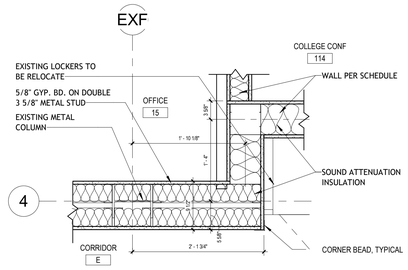
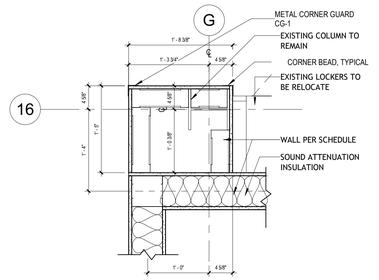
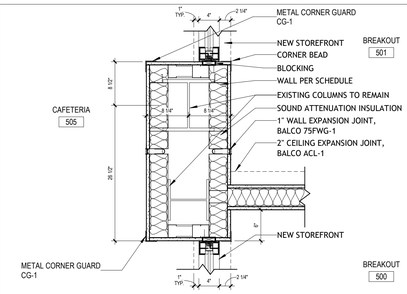


7 AREA D - PLAN DETAIL F
SCALE: 1" = 1'-0"



8 AREA D - PLAN DETAIL G
SCALE: 1" = 1'-0"



9 AREA A - EXPANSION JOINT @ CAFETERIA 1
SCALE: 1" = 1'-0"

10 AREA A - E.J. @ COLUMN
SCALE: 1" = 1'-0"

11 AREA D - DETAIL PLAN @ FLEX SPACE
SCALE: 1" = 1'-0"

12 AREA D - PLAN DETAIL B
SCALE: 1" = 1'-0"

13 AREA D - PLAN DETAIL A
SCALE: 1" = 1'-0"

14 AREA D - RESTROOMS & QUIET ROOM AREA 1
SCALE: 1" = 1'-0"

15 AREA D - RESTROOM CABINET DISPLAY PLAN DETAIL
SCALE: 1" = 1'-0"

16 AREA D - RESTROOMS & QUIET ROOM AREA 2
SCALE: 1" = 1'-0"

17 AREA D - SECOND FLOOR LIGHTWELL DETAIL 1
SCALE: 1" = 1'-0"

18 AREA D - SECOND FLOOR LIGHTWELL DETAIL 2
SCALE: 1" = 1'-0"

19 AREA D - STOREFRONT COLUMN PLAN DETAIL
SCALE: 1" = 1'-0"

20 AREA D - COLUMN FURRING DETAIL
SCALE: 1" = 1'-0"

21 AREA D - COLUMN DETAIL
SCALE: 1" = 1'-0"

22 AREA D - END WALL @ SLE
SCALE: 1" = 1'-0"

23 AREA D - COLUMN DETAIL @ EXISTING STAIR
SCALE: 1" = 1'-0"

REV.	DATE	ITEM

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

PLAN DETAILS

DWGTITLE

DRWG. BY: J.N.
CHK. BY: G.E.O.

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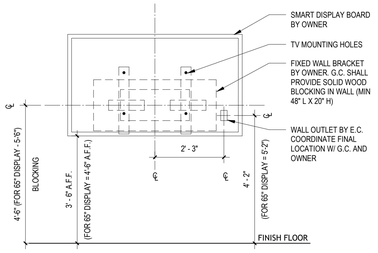
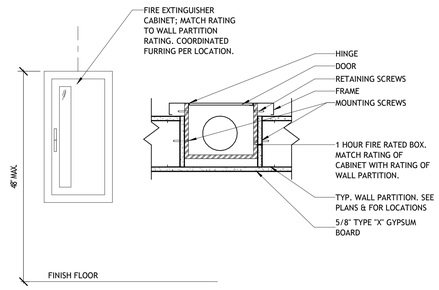
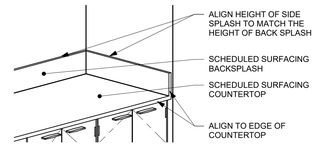
A2.05 HSMS



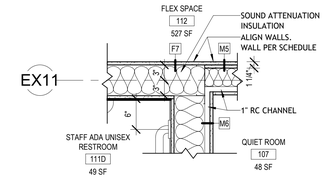
1 SMART BOARD MOUNTING DETAIL
SCALE: 1/2" = 1'-0"



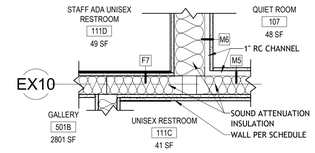
2 TYP. FIRE EXTINGUISHER CABINET @ 1 HR RATED WALL
SCALE: 1 1/2" = 1'-0"



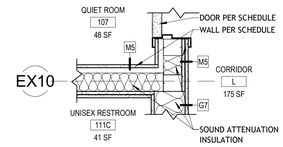
3 CORIAN SIDE SPLASH
SCALE: 1/2" = 1'-0"



4 AREA D - PLAN DETAIL A @ QUIET ROOM
SCALE: 1" = 1'-0"



5 AREA D - PLAN DETAIL B @ QUIET ROOM
SCALE: 1" = 1'-0"



6 AREA D - PLAN DETAIL C @ QUIET ROOM
SCALE: 1" = 1'-0"

7 AREA D - PLAN DETAIL - BOX OUT PIPES
SCALE: 1" = 1'-0"

8 AREA D - PLAN DETAIL A @ FLEX SPACE
SCALE: 1" = 1'-0"

REV.	DATE	ITEM

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444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

MISC DETAILS

DWGTITLE

DRWG. BY: Author
CHK. BY: Checker

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PATCHOGUE
NEW YORK 11772
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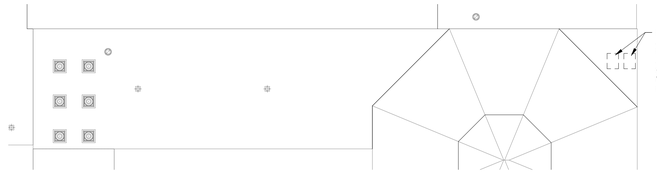
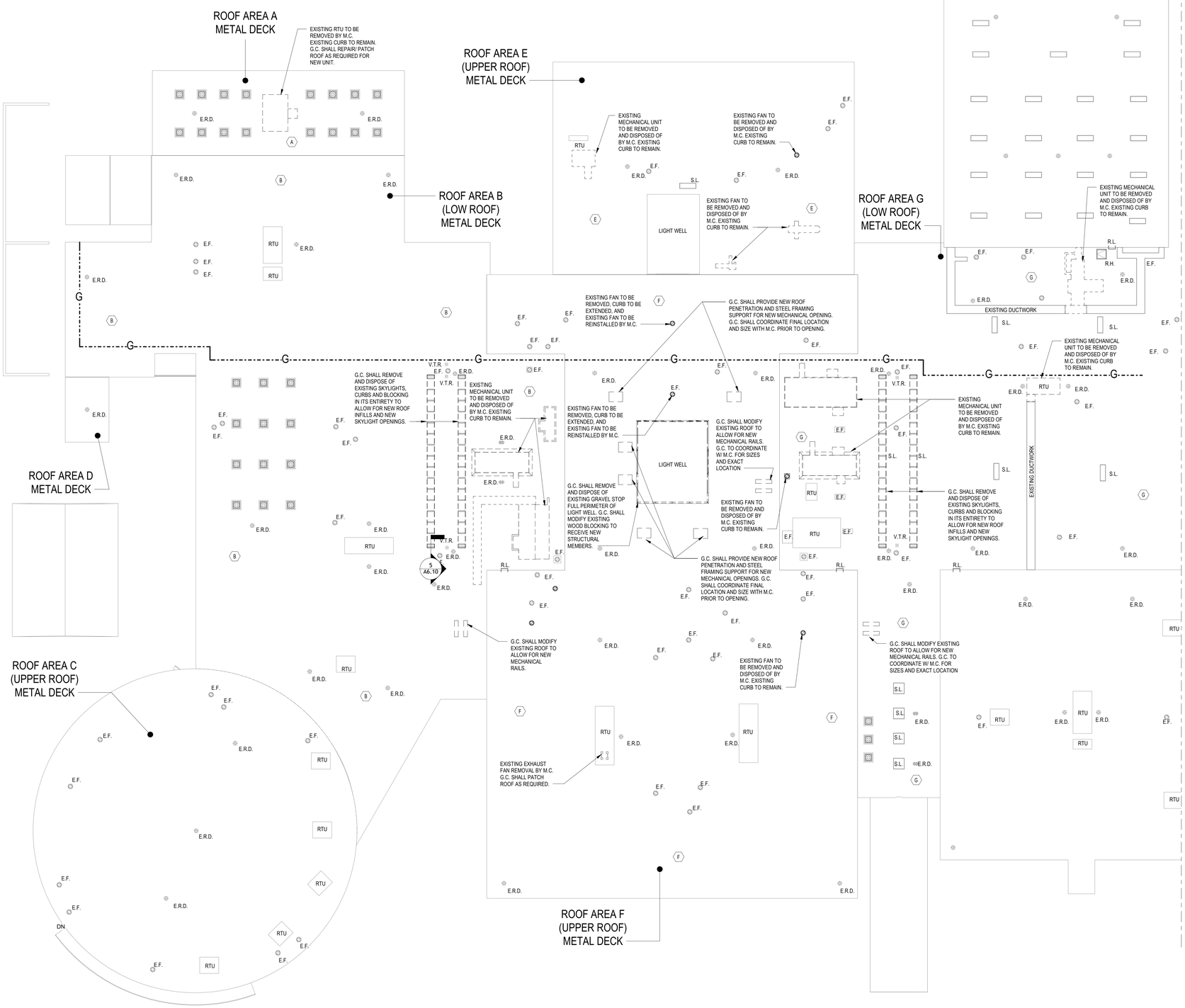
A2.06 HSMS



2 ROOF DEMOLITION PLAN - MIDDLE SCHOOL - AREA K
SCALE: 1/16" = 1'-0"



1 ROOF DEMOLITION PLAN - HIGH SCHOOL
SCALE: 1/16" = 1'-0"

ROOF LEGEND

X	ROOF AREA DESIGNATION. REFER TO ROOF COMPOSITION AND REMOVAL SCHEDULE	V.T.R.	VENT THROUGH ROOF TO REMAIN
N.I.C.	NOT IN CONTRACT	E.R.D.	EXISTING ROOF DRAIN. REFER TO ROOF DRAIN REPLACEMENT DETAIL FOR RAISED DRAIN.
1 / A101	ELEVATION	T.W.S.	THRU-WALL SCUPPER TO REMAIN (U.O.N.)
A-#	INDICATES PHOTO LOCATION AND DIRECTION	G.V.	EXISTING GRAVITY VENTILATORS TO REMAIN (U.O.N.)
R.T.U.	EXISTING ROOFTOP MECHANICAL UNIT TO REMAIN (U.O.N.)	D.S.	EXISTING DOWNSPOUT TO REMAIN (U.O.N.)
E.F.	EXISTING EXHAUST FAN TO REMAIN (U.O.N.)	S.L.	EXISTING SKYLIGHT
SLOPE	INDICATES ROOF SLOPE. REFER TO DETAILS FOR ACTUAL SLOPE.	PA-1	EXISTING ROOF CORE SAMPLE LOCATIONS. REFER TO ROOF COMPOSITION NOTES THIS DRWG. AND ROOF INVESTIGATION REPORTS UNDER INFORMATION AVAILABLE TO BIDDERS IN THE PROJECT MANUAL.
R.L.	EXISTING ROOF LADDER TO REMAIN (U.O.N.)	S.H.	EXISTING SMOKE HATCH TO REMAIN (U.O.N.)
C.D.	EXISTING ROOFTOP CONDENSER TO REMAIN (U.O.N.)	CHIM. VENT	FAUX. CHIMNEY VENTILATOR OUTLETS TO REMAIN (U.O.N.)
R.H.	EXISTING ROOF HATCH TO REMAIN (U.O.N.)	WALK	EXISTING CONCRETE WALKWAY PADS TO BE REMOVED AND DISPOSED OF TO ALLOW FOR NEW ROOFING. REFER TO A3.02 FOR LOCATIONS.
G	EXISTING GAS LINE TO REMAIN.		PROPOSED EPDM WALKWAY PADS OVER NEW ROOFING REFER TO A3.03 FOR LOCATIONS.

GENERAL NOTES:

1. ALL NEW FLAT ROOFING SHALL BE TPO ROOF SYSTEM. REFER TO SPEC. SECTION 07534 FOR ADDITIONAL INFORMATION.
2. THE NEW ROOF SYSTEM TO BE PROVIDED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION DIVISION 7. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE SPECIFICATIONS & OTHER APPLICABLE SPECIFICATIONS.
3. ALL FLASHING ON WALLS, MECHANICAL UNITS, VENTS, AND SKYLIGHTS MUST BE INSTALLED AT A DISTANCE ABOVE NEW FINISHED ROOF SURFACE TO INSURE CONFORMANCE WITH ROOFING MANUFACTURERS WARRANTY REQUIREMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL NEW PERIMETER WOOD BLOCKING TO HEIGHTS AS REQUIRED FOR NEW TAPERED INSULATION LAYOUT NECESSARY FOR NEW ALUM. GRAVEL STOPS AND EXPANSION JOINTS AS DETAILED. REFER TO TAPERED LAYOUT DRAWING FOR TAPERED HEIGHT REQUIREMENTS.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO START OF WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR ESTIMATING.
7. CONTRACTOR TO PROTECT AND MAKE WATER TIGHT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
8. CONTRACTOR SHALL INSTALL EQUIPMENT RAILS, ROOF CURBS & PITCH POCKETS FOR ALL H.V.A.C. AND ELECTRICAL CONDUIT & PIPING AS NECESSARY (PROVIDED BY EACH RESPECTIVE CONTRACTOR). PROVIDE AND INSTALL TAPERED CRICKETS TO DIVERT WATER AWAY FROM CURBS TYPICAL FOR ALL CURBS ON ROOF. CONTRACTOR TO PROVIDE TAPERED ROOF INSULATION LAYOUT FOR APPROVAL. SHOW PITCH ON ROOF PLAN.
9. CONTRACTOR TO VERIFY WITH STRUCTURAL DRAWINGS ON ALL ROOF PENETRATIONS, ROOF TOP EQUIPMENT SUPPORTS, AND ALL OTHER OBJECTIVES THAT ARE APPLICABLE TO THE ROOF PLAN.

ROOF SYSTEM NOTES:

FLAT ROOF:

1. CONFORM TO APPLICABLE CODES FOR ROOF ASSEMBLY FIRE HAZARD REQUIREMENTS.
2. FACTORY MUTUAL ENGINEERING AND RESEARCH CORP. (FM):
   A. ROOF ASSEMBLY CLASSIFICATION OF CLASS 1 CONSTRUCTION, WIND UPLIFT REQUIREMENTS OF I-135 IN ACCORDANCE WITH FM CONSTRUCTION BULLETIN 1-28.
   B. CONTACT ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE FOR ADD. INFO.
3. UNDERWRITERS LABORATORIES, INC. (UL)- CLASS 'A' FIRE HAZARD CLASSIFICATION.

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.

NOTE TO CONTRACTOR:

1. ALL EQUIPMENT SHOWN ON ROOF PLANS ARE FOR DIAGRAMMATIC REFERENCE ONLY. MORE SPECIFIC DETAILS ARE INDICATED ON THE 'M' SERIES DRAWINGS AND MAY REQUIRE ADDITIONAL MODIFICATION. G.C. TO COORDINATE WITH M.C. FOR ALL NEW ROOFTOP EQUIPMENT AND PENETRATIONS.
2. 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 ANY BID COST.

ROOF CONSTRUCTION NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE DESCRIPTION OF ROOF ASSEMBLY AND COMPONENTS.
2. COLOR AND FINISH OF ALL ALUMINUM COPINGS, 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 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. SEE TYPICAL WELDED ANGLE FRAMING DETAIL ON SHEET S5.02, REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND LOCATIONS
6. G.C. SHALL ALSO PROVIDE ALL PENETRATIONS AND FLASHING REQUIRED FOR ALL PLUMBING VENTS AND DRAINS. SEE PLUMBING DRAWINGS FOR COORDINATION.
7. REFER TO ROOF DETAILS AND WALL SECTIONS FOR OTHER DETAILS NOT SHOWN.
8. COORDINATE ALL MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS AND WORK AS PART OF THIS CONTRACT EVEN IF NOT SHOWN ON THIS DRAWING. ROOF RELATED WORK IS SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF WARRANTY NOTE:

CONTRACTOR SHALL NOTE THAT THE EXISTING ROOF WARRANTY MUST MAINTAIN FOR THE DURATION OF THE PROJECT. CONTRACTOR RESPONSIBLE FOR EXISTING ROOFING MODIFICATIONS MUST BE CERTIFIED WITH THE EXISTING ROOFING MANUFACTURER.

REV.	DATE	ITEM

NOTICE

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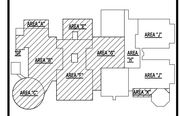

KEY PLAN
NO SCALE

PROJECT: BRIARCLIFF MANOR U.F.S.D. PHASE 2 BOND IMPROVEMENTS — BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL — 444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE: ROOF DEMOLITION PLANS

DRWG. BY: C.M.
CHK. BY: G.E.O.

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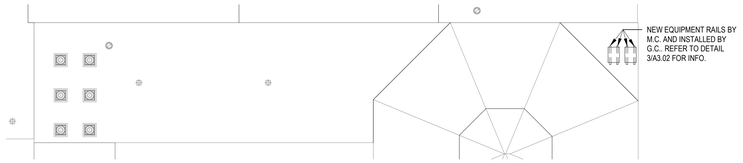
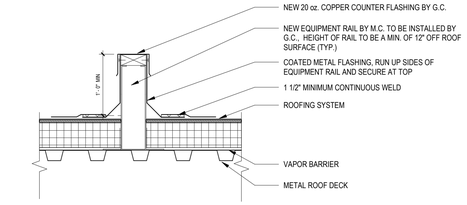
SED No. 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR U.F.S.D.
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: ROOF DEMOLITION PLANS
SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A3.01 HSMS



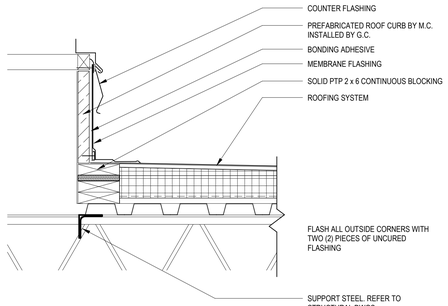
2 PROPOSED ROOF PLAN - MIDDLE SCHOOL - AREA K

SCALE: 1/16" = 1'-0"



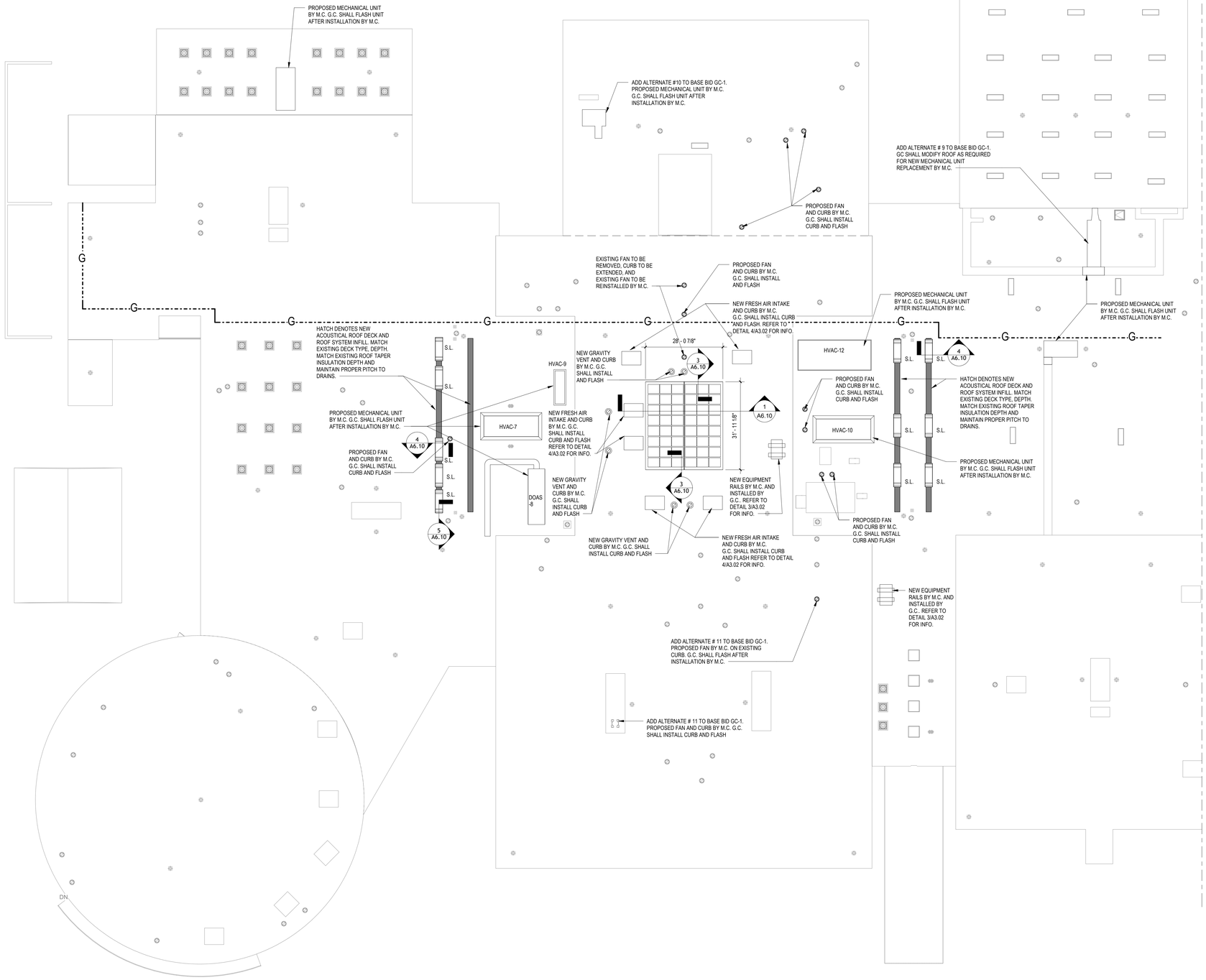
3 ROOF EQUIPMENT RAIL DETAIL

SCALE: 1" = 1'-0"



4 ROOF MECH CURB

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



1 PROPOSED ROOF PLAN - HIGH SCHOOL

SCALE: 1/16" = 1'-0"

REV.	DATE	ITEM

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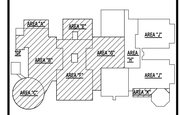

KEY PLAN NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

PROPOSED ROOF PLANS

DWG/TITLE

DRWG. BY: C.M.

CHK. BY: G.E.O.

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SED No. 66-14-02-02-0-004-023

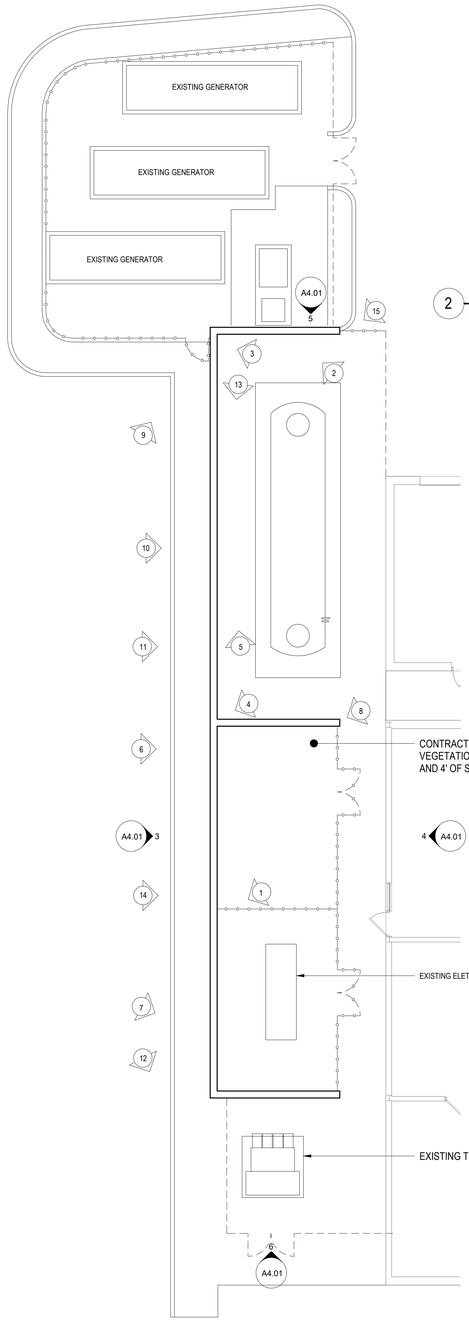
DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PROPOSED ROOF PLANS

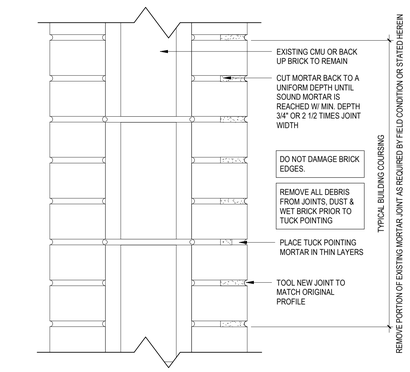
SCALE:	AS NOTED
DATE:	-
BID P/U DATE:	11/14/2022
FILE NO.	21-274C

A3.02 HSMS

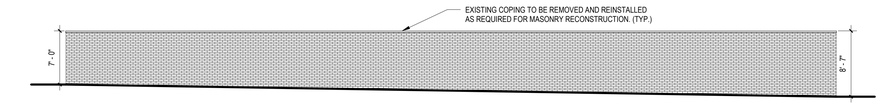


1 FUEL ENCLOSURE PLAN
SCALE: 1/8" = 1'-0"

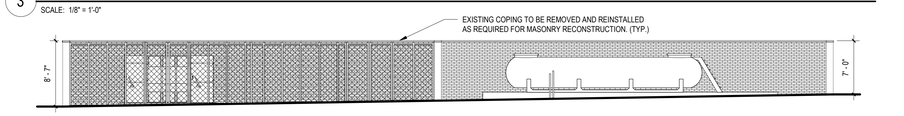
BIDDER NOTE:
ALL WORK NOTED ON THIS DRAWING SHALL BE COVERED UNDER ADD ALTERNATE #7 TO BASE BID GC-1



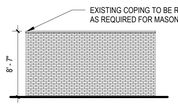
2 TUCKPOINTING DETAIL & NOTES
SCALE: 3" = 1'-0"



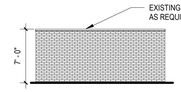
3 NORTHEAST ELEVATION
SCALE: 1/8" = 1'-0"



4 SOUTHWEST ELEVATION
SCALE: 1/8" = 1'-0"



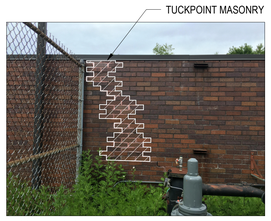
5 SOUTHEAST ELEVATION
SCALE: 1/8" = 1'-0"



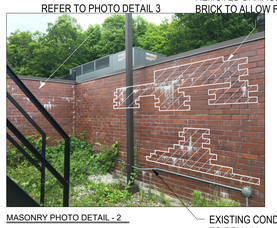
6 NORTHWEST ELEVATION
SCALE: 1/8" = 1'-0"

MASONRY RECONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL SCAFFOLD ALL AREAS AS REQUIRED TO PERFORM THE REQUIRED SCOPE OF WORK WITH OSHA APPROVED SCAFFOLDING EQUIPMENT. THE SCAFFOLDING SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT. AREAS OF SCAFFOLDING SHOULD BE ENCLOSED WITH CONSTRUCTION FENCING WITH THE PROPER MARKINGS.
2. MASONRY IS TO BE TUCK POINTED AND BRICK IS TO BE REMOVED AND REPLACED AS REQUIRED AND WHERE INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. BRICK MORTAR, AND SEALANT SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT AND TEST PANELS ERECTED FOR THE ARCHITECTS INSPECTION AND APPROVAL AS INDICATED IN THE SPECIFICATIONS.
3. AREAS REQUIRING TUCK POINTING INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING LOCATIONS:
   A. WHERE MORTAR HAS ERODED FROM THE FACE OF THE MASONRY
   B. WHERE MORTAR HAS CRUMBLED FROM THE JOINTS.
   C. WHERE HAIR LINE CRACKS ARE APPARENT IN THE MORTAR.
   D. WHERE THE BOND BETWEEN THE MASONRY AND THE MORTAR IS BROKEN.
4. PRIOR TO APPLYING NEW MORTAR, CLEAN OUT ALL DEBRIS AND DUST AND WET BRICK.
5. WHERE THE EXISTING BRICK UNITS ARE DAMAGED CUT OUT THE OLD MORTAR SURROUNDING THE AFFECTED UNITS AND REMOVE THE BRICK. CHISEL OUT ALL OLD MORTAR AND REMOVE ALL DUST AND DEBRIS, BEING CAREFUL NOT TO ALLOW DEBRIS TO FALL INTO CAVITY. DAMPEN SURROUNDING BRICK SURFACES AND PLACE NEW UNIT OF SIMILAR SIZE AND COLORATION INTO OPENING. TOOL JOINT TO MATCH ORIGINAL PROFILE.
6. MORTAR FOR REBUILDING AND TUCK POINTING SHALL BE AS SPECIFIED AND SHALL BE HIGH IN LIME CONTENT. MORTAR SHALL BE SOFTER THAN EXISTING BRICK AND NO HARDER THEN EXISTING MORTAR.
7. THE FINAL APPEARANCE OF THE FACADE SHALL BE UNIFORM IN TERMS OF MORTAR COLORATION, TOOLING, AND SIZE OF JOINTS. JOINTS SHALL BE TOOLED TO MATCH EXISTING OR, WHERE THE ENTIRE WALL IS BEING REDONE, NEW JOINTS SHALL BE TOOLED CONCAVE.
8. AFTER COMPLETION OF TUCK POINTING WORK, ALL LOOSE MORTAR AND MORTAR STAINING SHALL BE CLEANED FROM SURFACE OF MASONRY.
9. THE CONTRACTOR SHALL PROTECT ALL EXISTING WINDOWS AND DOOR OPENINGS AND ADJACENT MATERIALS AND SURFACES FROM DAMAGE DURING POINTING PROCESS. ANY DAMAGE INCURRED SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
10. IN AREAS WHERE MORTAR CANNOT BE REMOVED BY GRINDING, CONTRACTOR SHALL USE MANUAL METHODS.
11. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE RANDOM SAMPLES OF MORTAR DURING THE PROGRESS OF WORK, AS DIRECTED BY THE ARCHITECT.
12. THE CONTRACTOR SHALL SUBMIT A MORTAR DESIGN MIX FOR APPROVAL BY THE ARCHITECT AND SHALL INFORM THE ARCHITECT PRIOR TO APPLICATION FOR MORTAR TESTING
13. THE CONTRACTOR SHALL PROVIDE 2'X2' BRICK MOCK UP SHOWING BRICK AND MORTAR COLORS FOR APPROVAL



MASONRY PHOTO DETAIL - 1



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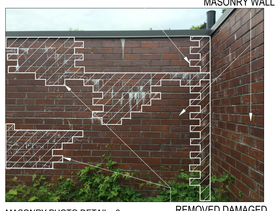


MASONRY PHOTO DETAIL - 3



MASONRY PHOTO DETAIL - 4



MASONRY PHOTO DETAIL - 5



MASONRY PHOTO DETAIL - 6

REPLACE FALE VENEER



MASONRY PHOTO DETAIL - 7

REPLACE FALE VENEER

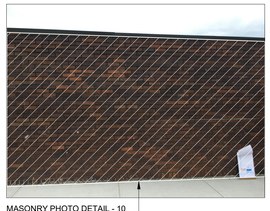


MASONRY PHOTO DETAIL - 8



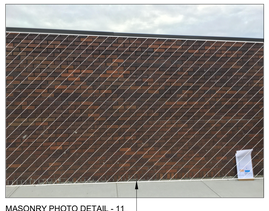
MASONRY PHOTO DETAIL - 9

REPLACE FALE VENEER



MASONRY PHOTO DETAIL - 10

TUCKPOINT ENTIRE MASONRY WALL



MASONRY PHOTO DETAIL - 11

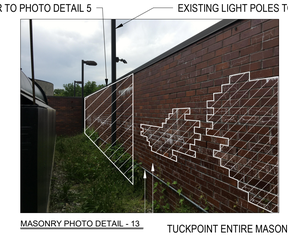
TUCKPOINT ENTIRE MASONRY WALL



MASONRY PHOTO DETAIL - 15



MASONRY PHOTO DETAIL - 12



MASONRY PHOTO DETAIL - 13



MASONRY PHOTO DETAIL - 14

REV.	DATE	ITEM

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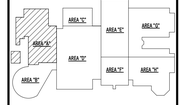

KEY PLAN
NO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE
MASONRY RECONSTRUCTION

DRWG. BY: C.M. / R.K.
CHK. BY: G.E.O.

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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE MASONRY RECONSTRUCTION

SCALE: AS NOTED
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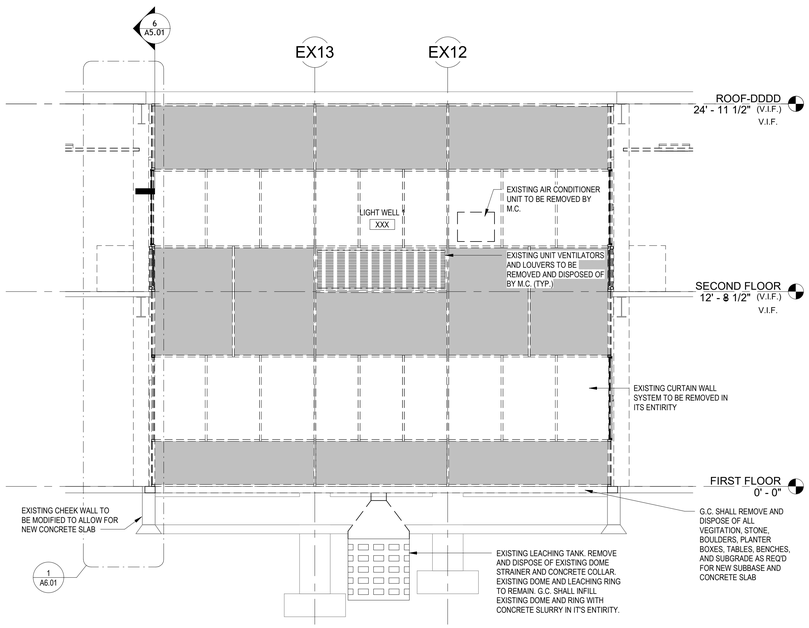
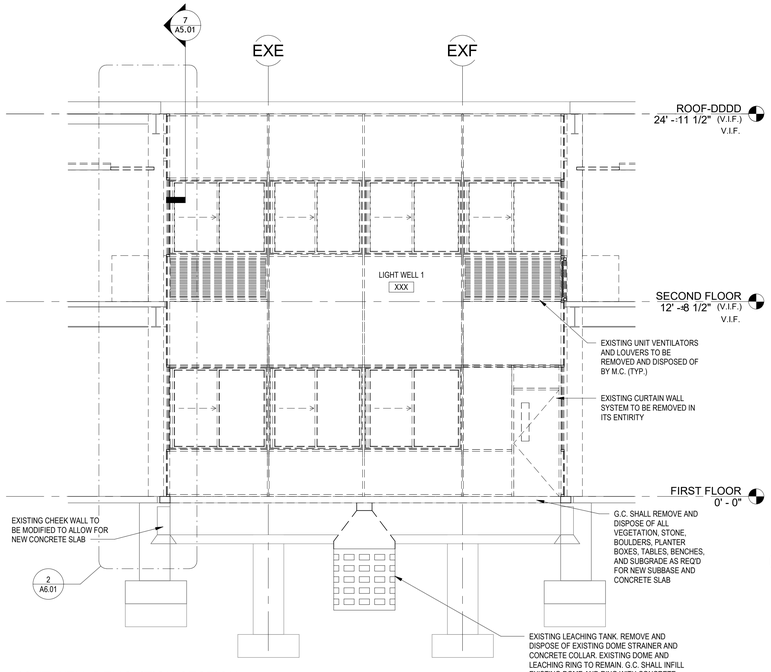
FILE NO. 21-274C

A4.01 | HSMS



1 LIGHT WELL DEMOLITION SECTION

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



2 LIGHT WELL DEMOLITION SECTION

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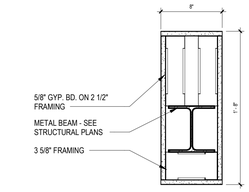
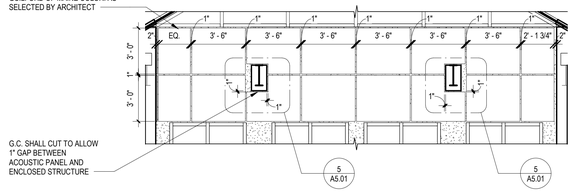


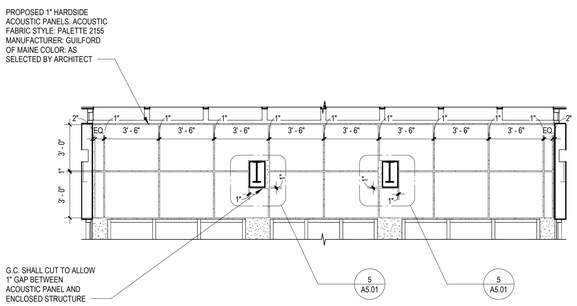
5 8"X1'-8" FAUX BEAM

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



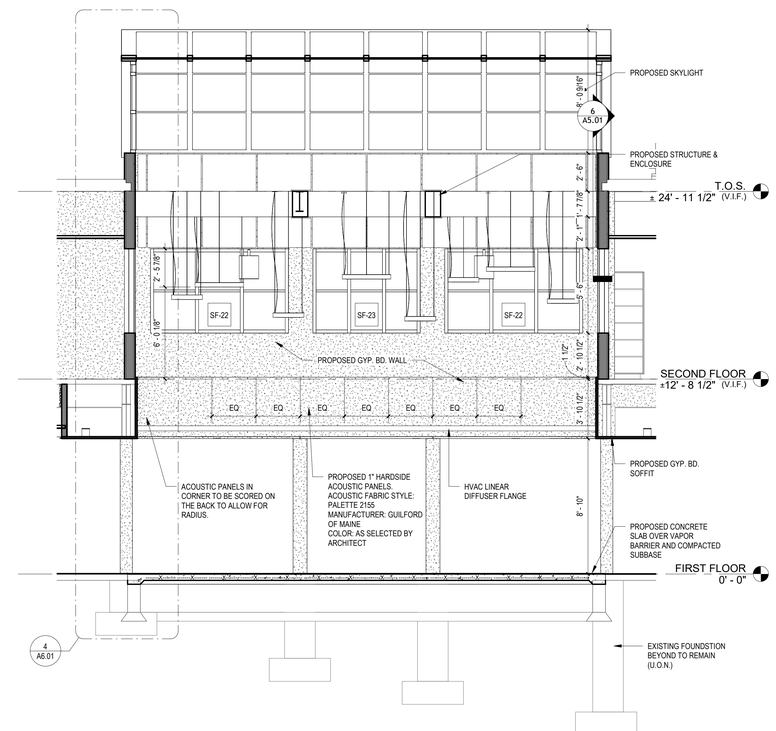
6 ACOUSTIC PANEL INTERIOR ELEVATION A

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



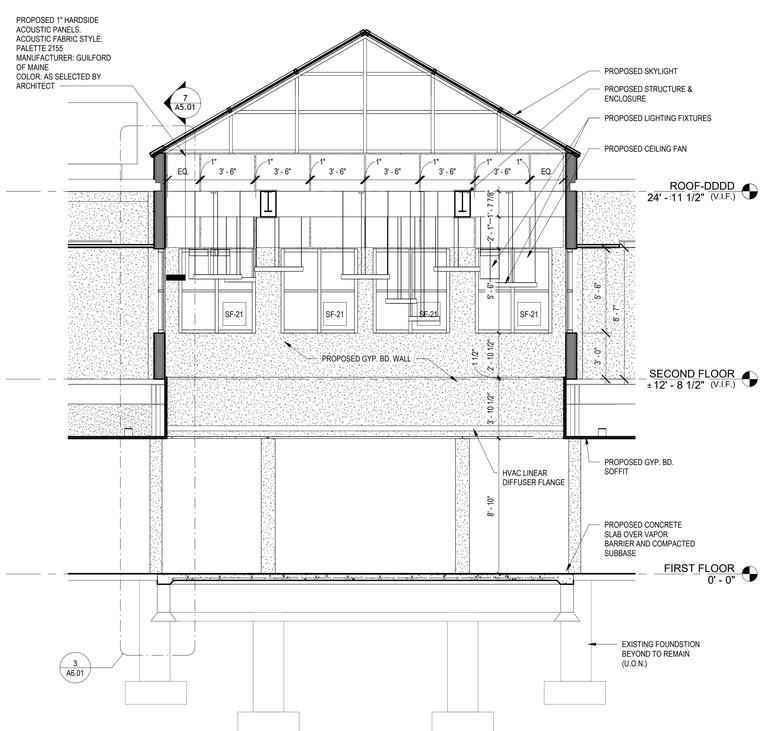
7 ACOUSTIC PANEL INTERIOR ELEVATION B

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



3 PROPOSED LIGHT WELL SECTION

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



4 PROPOSED LIGHT WELL SECTION

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

REV.	DATE	ITEM

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PROJECT

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE

BUILDING SECTIONS

DRWG. BY: J.N.

CHK. BY: G.E.O.

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE BUILDING SECTIONS

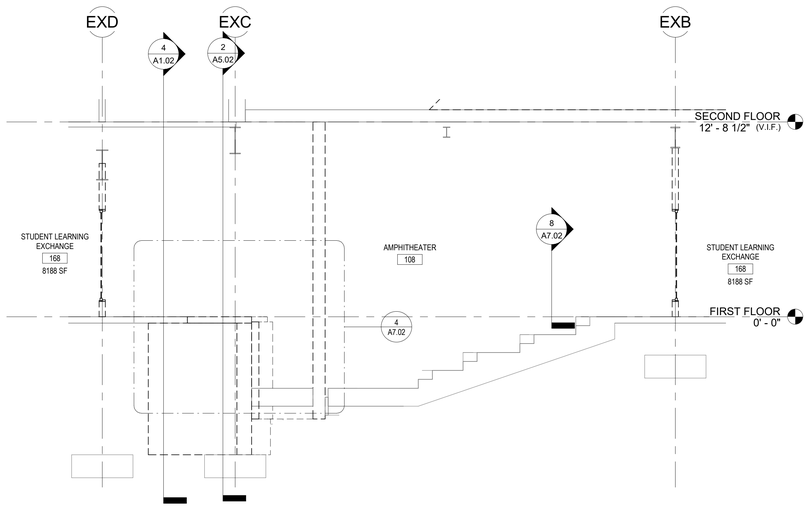
SCALE: AS NOTED

DATE: -

BID P/U DATE: 11/14/2022

FILE NO. 21-274C

A5.01 HSMS



1 AMPITHEATER SECTION
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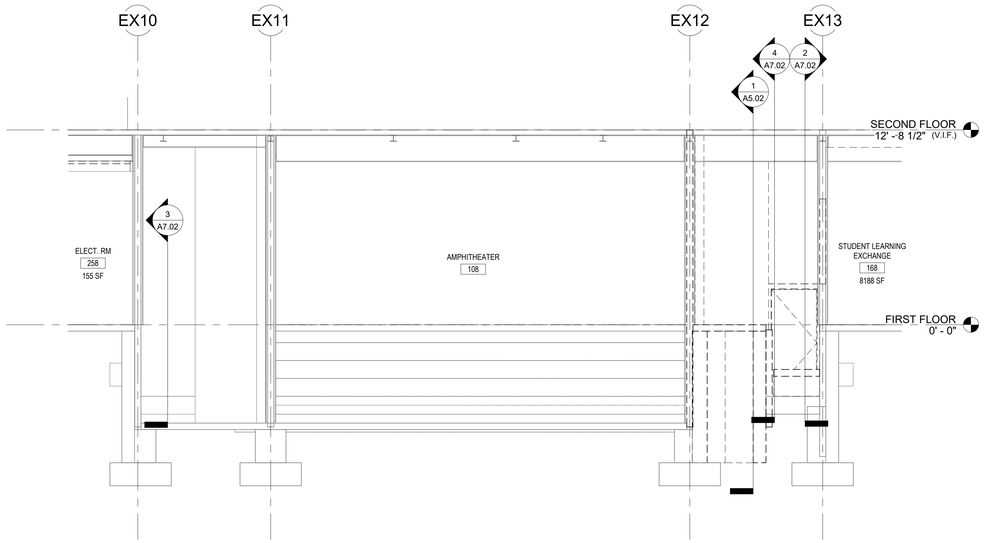

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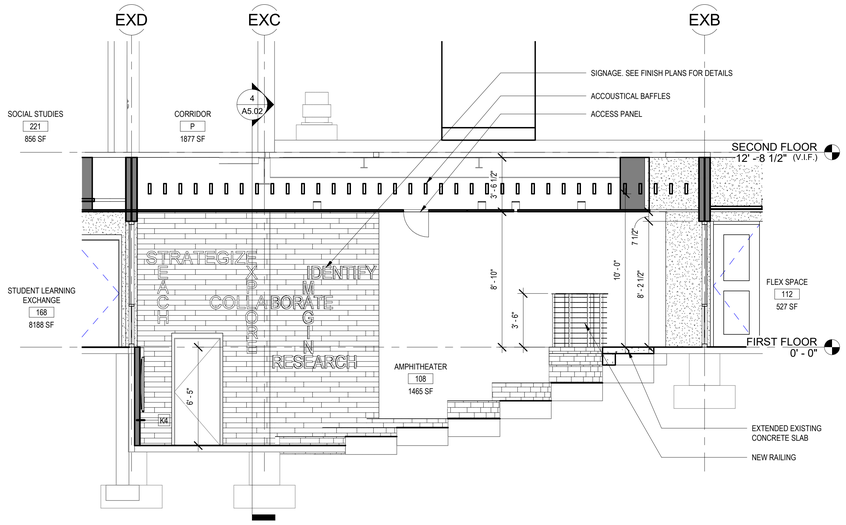

3 AMPITHEATER SECTION
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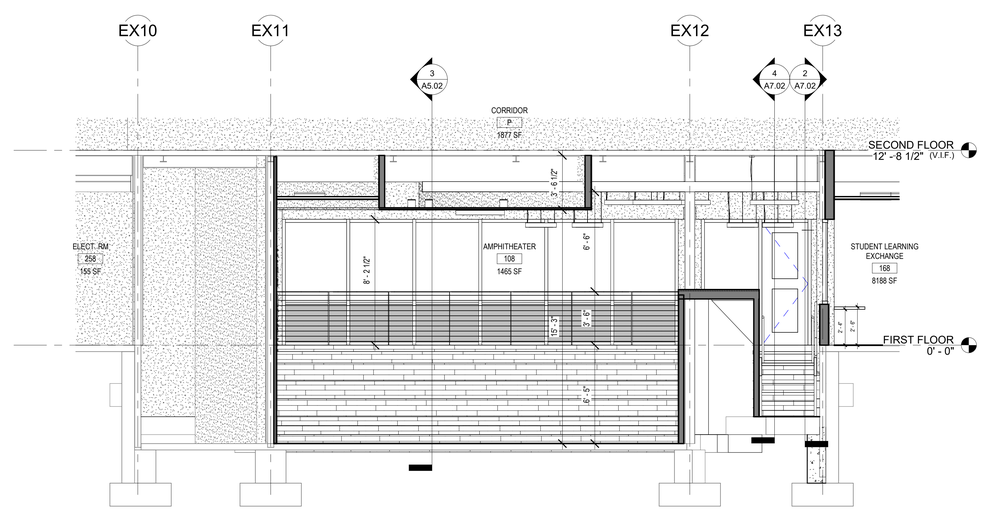

4 AMPITHEATER SECTION
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE
BUILDING SECTIONS

DRWG. BY: C.M.
CHK. BY: G.E.O.

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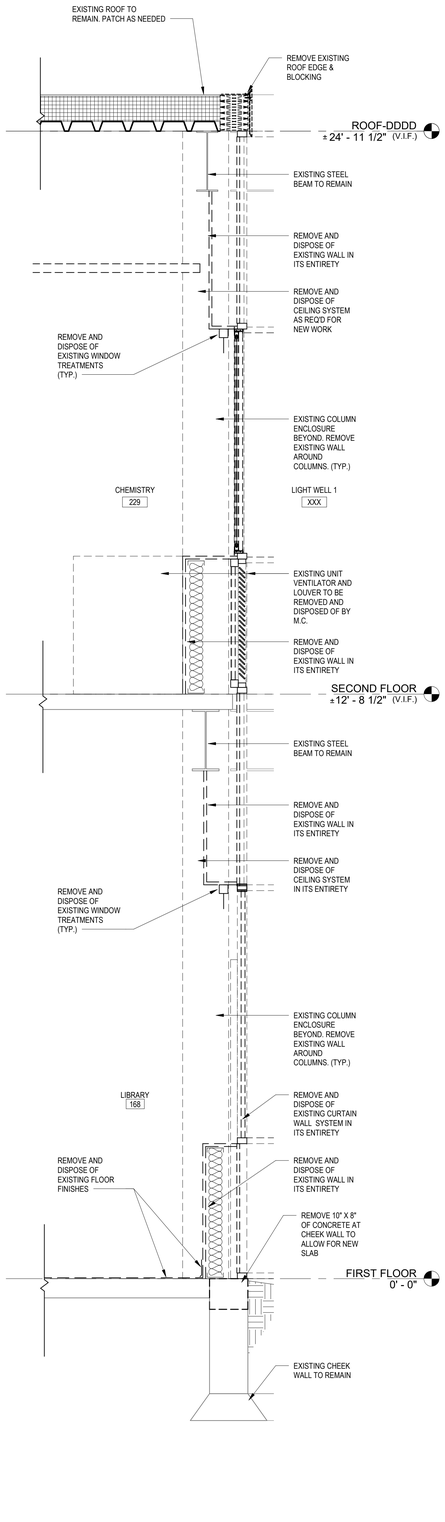
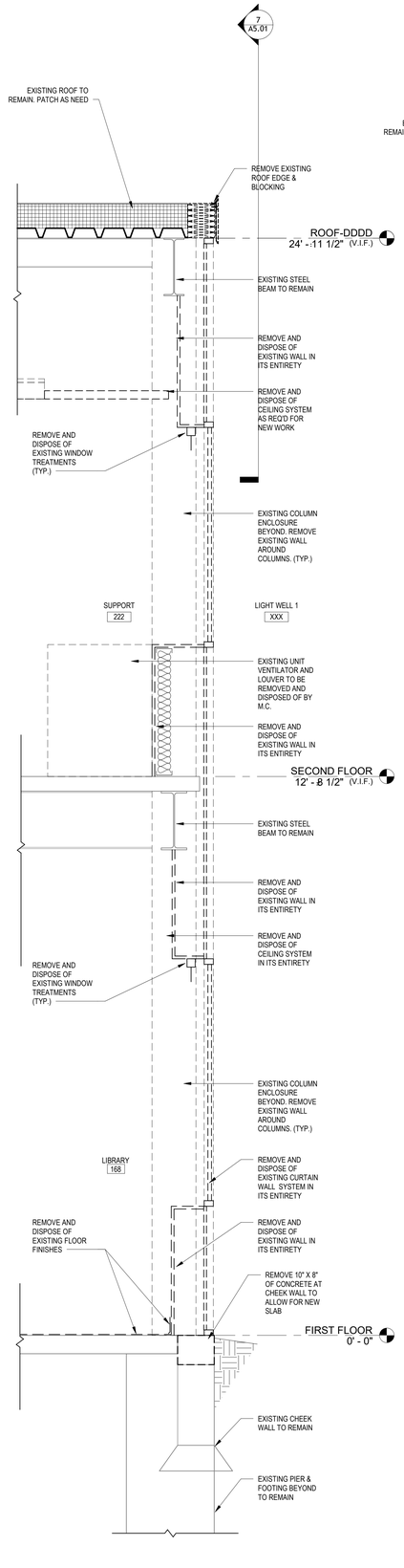
A5.02 HSMS



1 DEMOLITION LIGHTWELL SECTION
SCALE: 3/4" = 1'-0"



2 DEMOLITION LIGHTWELL SECTION
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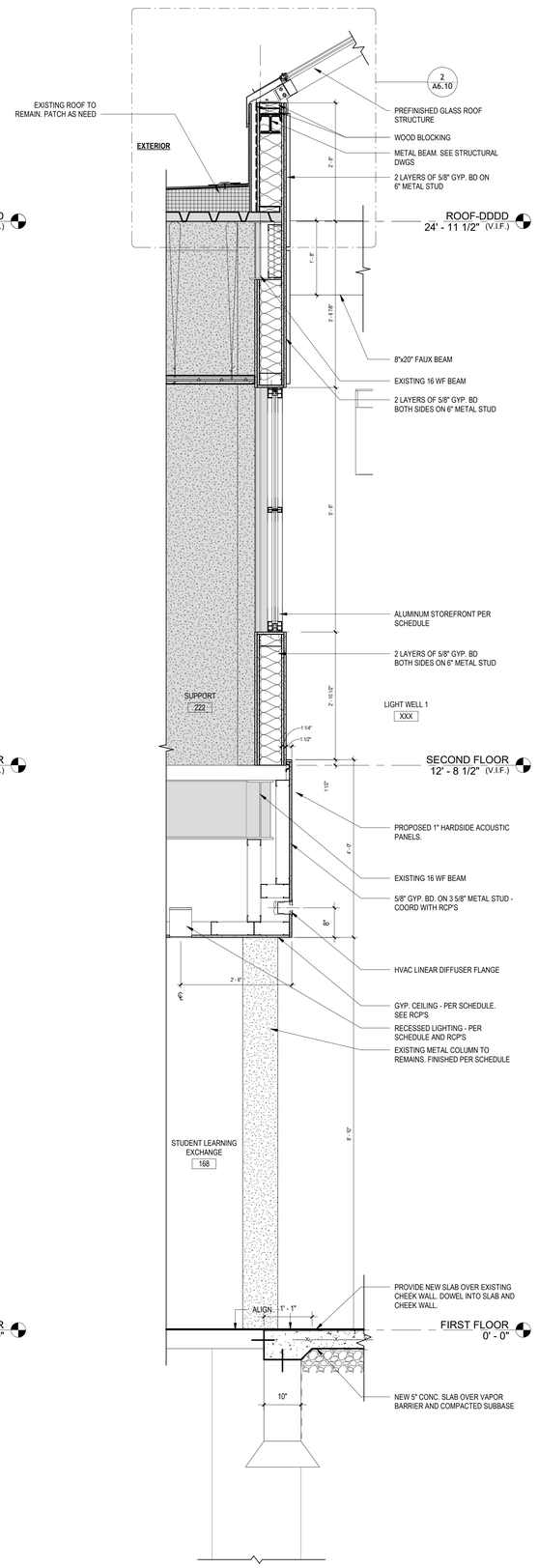
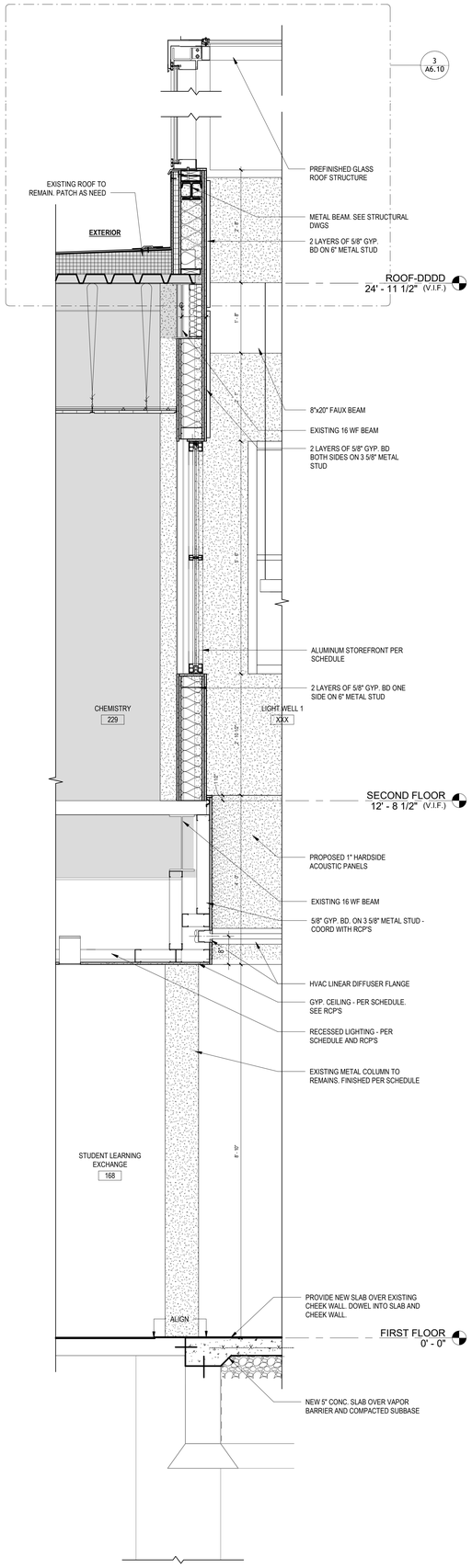


3 LIGHT WELL PROPOSED SECTION
SCALE: 3/4" = 1'-0"



4 LIGHT WELL PROPOSED SECTION
SCALE: 3/4" = 1'-0"

REV.	DATE	ITEM

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE
WALL SECTIONS - LIGHT WELL

DRWG. BY: C.M.
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PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE WALL SECTIONS - LIGHT WELL

SCALE: AS NOTED
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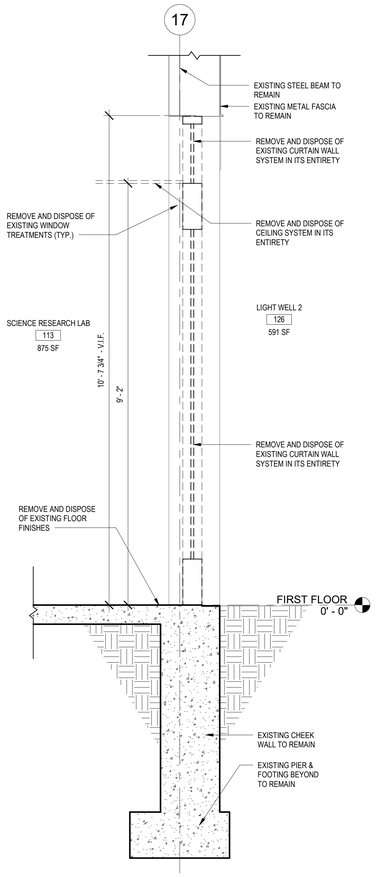
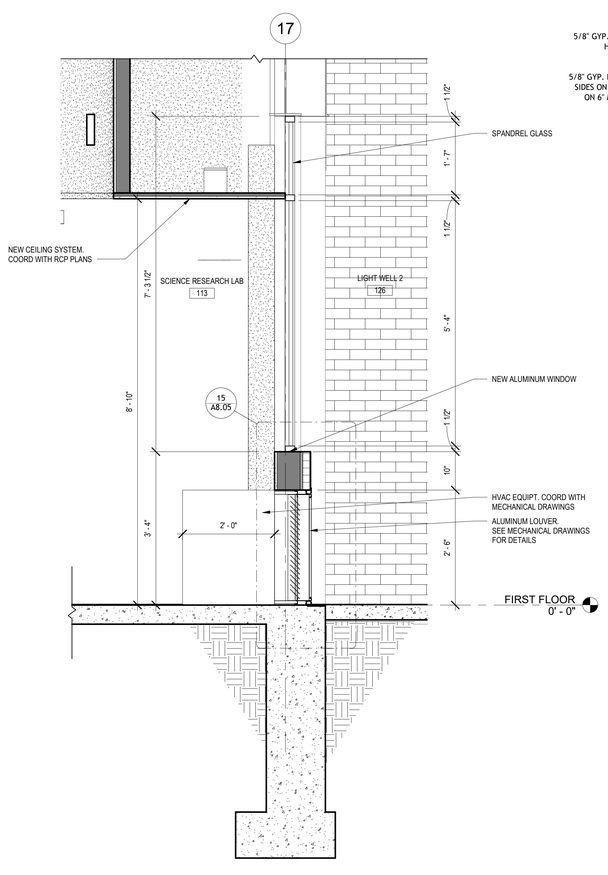
FILE NO. 21-274C

A6.01 HSMS



1 CORRIDOR B - DEMOLITION WALL SECTION
SCALE: 3/4" = 1'-0"



2 CORRIDOR B - WALL SECTION
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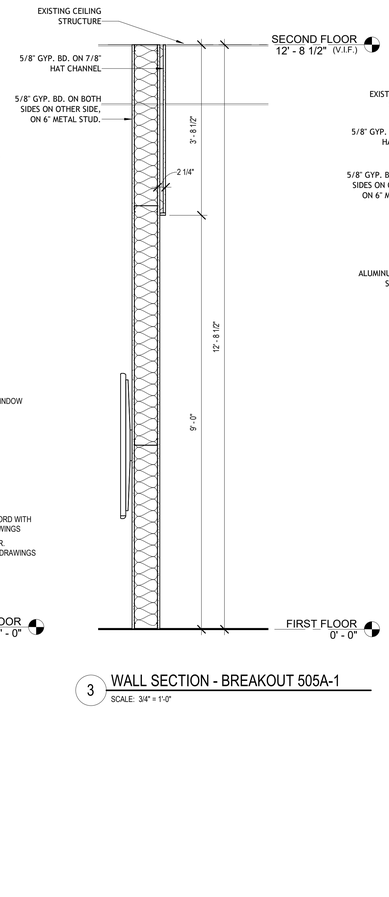
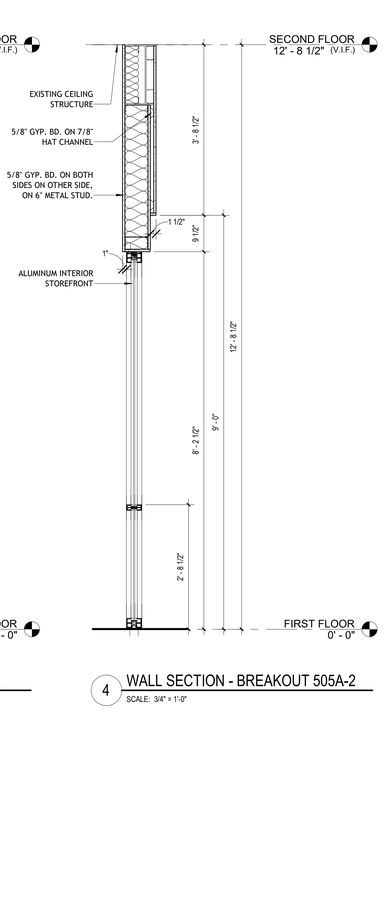


3 WALL SECTION - BREAKOUT 505A-1
SCALE: 3/4" = 1'-0"



4 WALL SECTION - BREAKOUT 505A-2
SCALE: 3/4" = 1'-0"

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444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE

WALL SECTIONS

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DWG TITLE WALL SECTIONS

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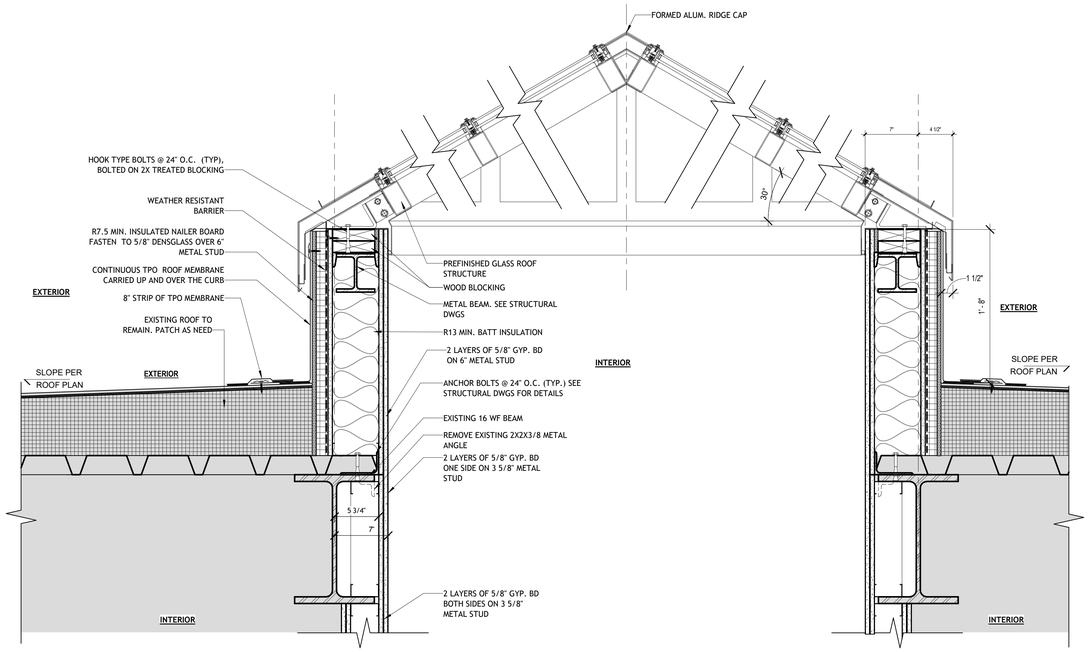
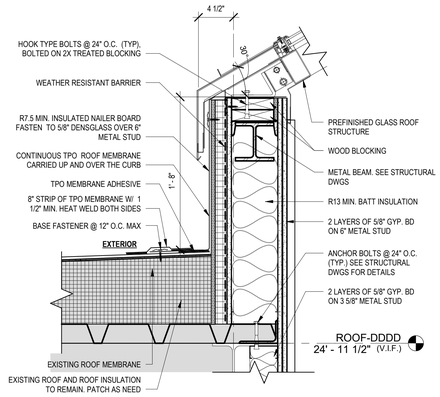
FILE NO. 21-274C

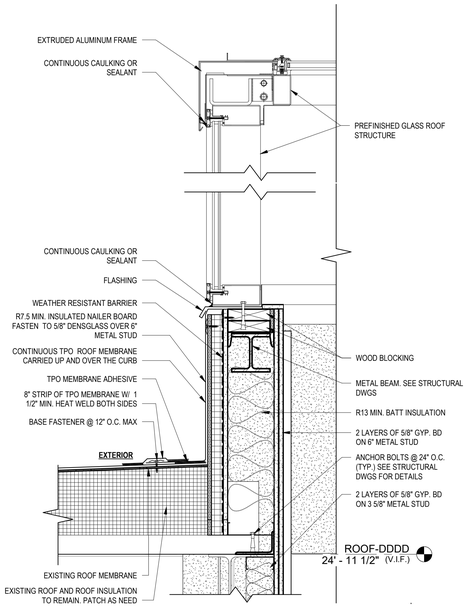
A6.02 HSMS



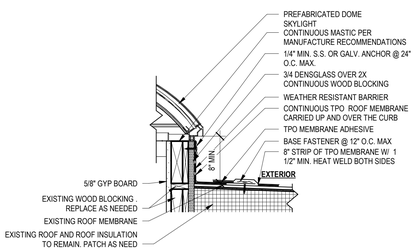
1 SKYLIGHT PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



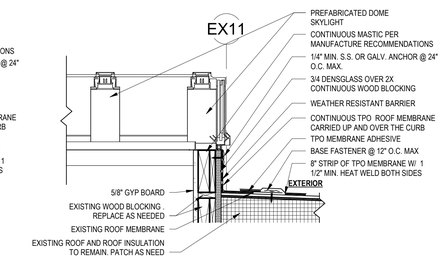
2 SECTION DETAIL - SKYLIGHT CURB
SCALE: 1 1/2" = 1'-0"



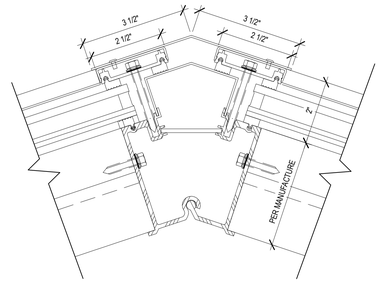
3 SECTION DETAIL - LIGHTWELL END WALL
SCALE: 1 1/2" = 1'-0"



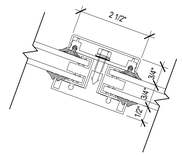
4 DOME SKYLIGHT DETAIL A
SCALE: 1 1/2" = 1'-0"



5 DOME SKYLIGHT DETAIL B
SCALE: 1 1/2" = 1'-0"



6 SKYLIGHT RIDGE DETAIL
SCALE: 6" = 1'-0"



7 SKYLIGHT MULLION DETAIL
SCALE: 6" = 1'-0"

REV.	DATE	ITEM

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE
SECTIONS DETAILS

DRWG. BY: J.N.
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DWG TITLE SECTIONS DETAILS
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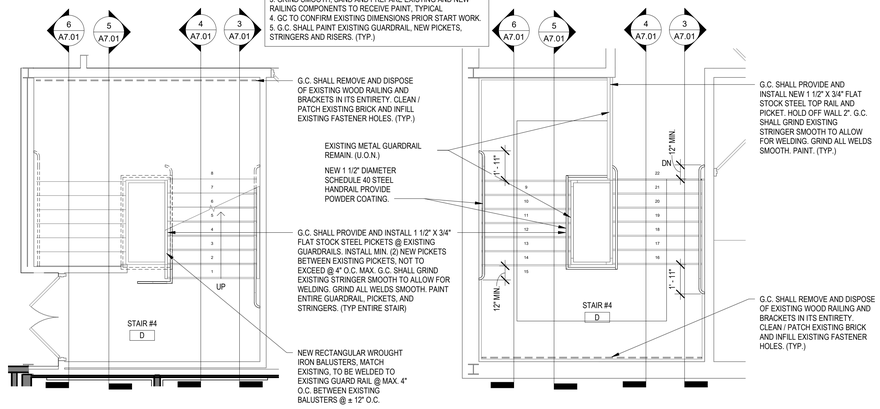
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A6.10 | HSMS

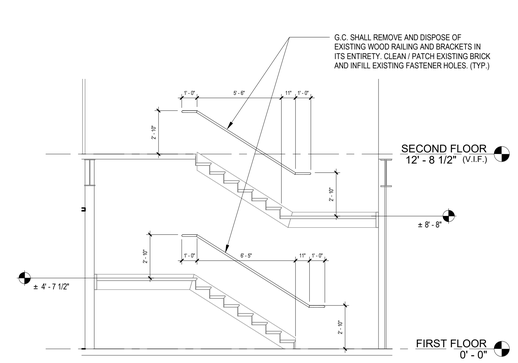
STAIR RECONSTRUCTION NOTES:

GENERAL CONTRACTOR TO:
1. REMOVE EXISTING WOOD RAILING FROM EXISTING STAIR GUARDRAILS, AND WALLS.
2. REMOVE METAL BRACKETS THAT SUPPORT EXISTING WOOD PANELS. CLEAN / PATCH EXISTING BRICK AND INFILL EXISTING FASTENER HOLES. (TYP.)
3. GRIND SMOOTH, SAND AND PREPARE EXISTING AND NEW RAILING COMPONENTS TO RECEIVE PAINT, TYPICAL
4. GC TO CONFIRM EXISTING DIMENSIONS PRIOR START WORK.
5. G.C. SHALL PAINT EXISTING GUARDRAIL, NEW PICKETS, STRINGERS AND RISERS. (TYP.)

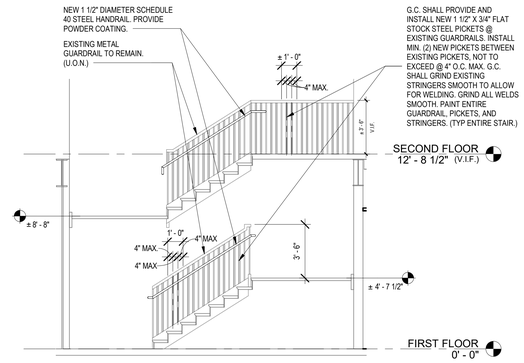


1 ENLARGED PLAN - FIRST FLOOR STAIR
SCALE: 1/4" = 1'-0"

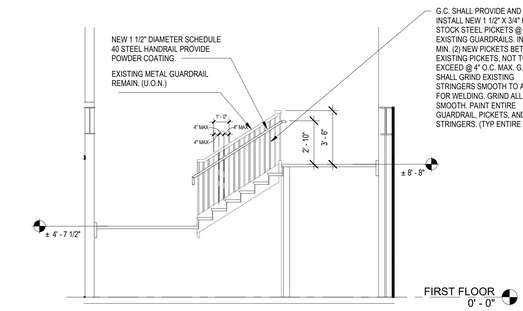
2 ENLARGED PLAN - SECOND FLOOR STAIR
SCALE: 1/4" = 1'-0"



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



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



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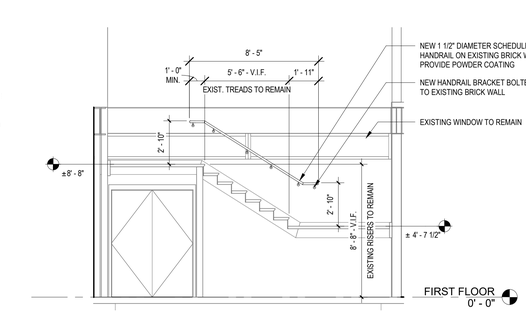
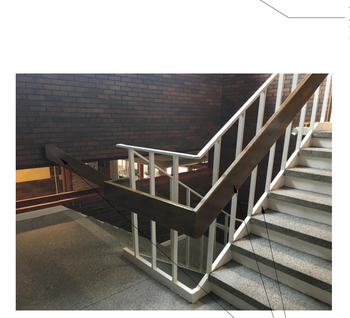
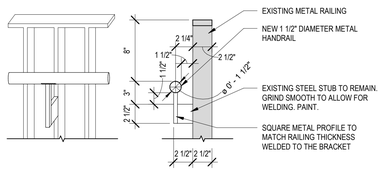
SCALE: 1/4" = 1'-0"



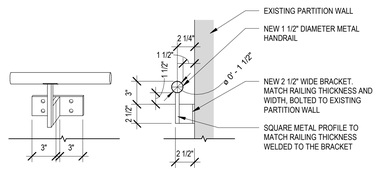
6 STAIR SECTION
SCALE: 1/4" = 1'-0"



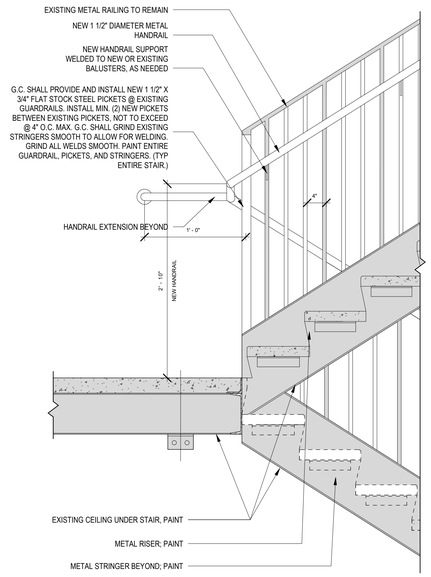




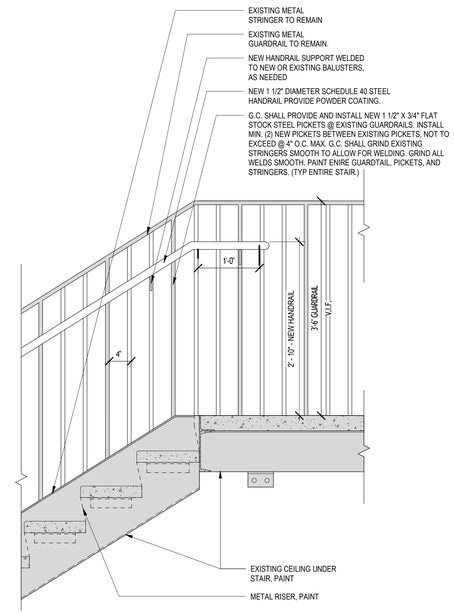
7 STAIR - BRACKET AT RAILING
SCALE: 1 1/2" = 1'-0"



8 STAIR - BRACKET AT WALL
SCALE: 1 1/2" = 1'-0"



9 STAIR - INTERMEDIATE LANDING @ GUARDRAIL
SCALE: 1" = 1'-0"



10 STAIR - TYP. TOP LANDING
SCALE: 1" = 1'-0"

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STAIR PLANS AND ELEVATIONS

PROJECT

DWG TITLE

DRWG. BY: C.M.
CHK. BY: G.E.O.

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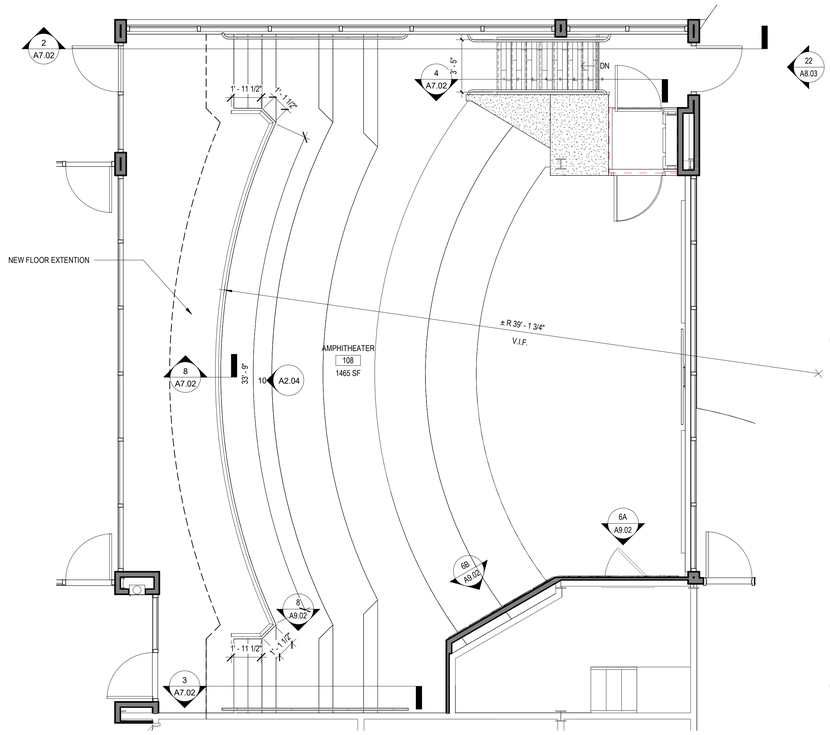
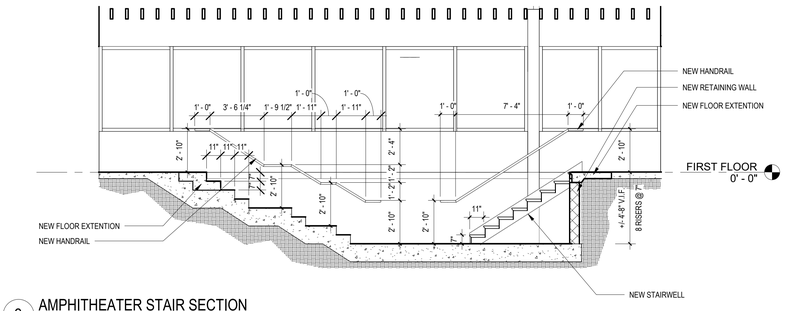
FILE NO. 21-274C

A7.01 HSMS



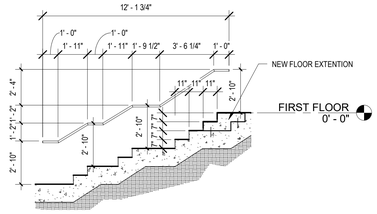
1 ENLARGED PLAN - AMPHITHEATER STAIR

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



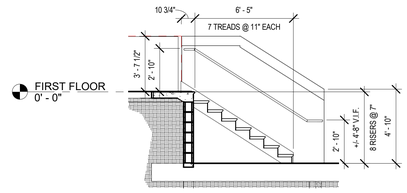
2 AMPHITHEATER STAIR SECTION

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



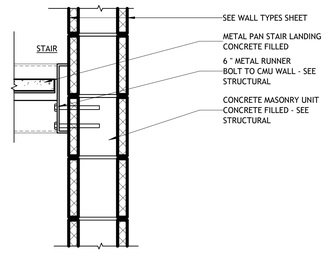
3 AMPHITHEATER STAIR SECTION 2

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



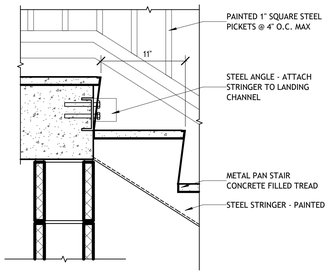
4 AMPHITHEATER STAIR SECTION 3

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



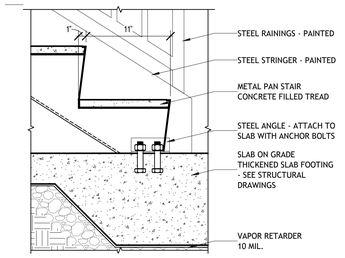
5 STAIR - INTERMEDIATE LANDING @ CMU WALL (METAL PAN)

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



6 STAIR - RISER AT LANDING (METAL PAN)

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



7 STAIR - RISER AT SLAB (METAL PAN)

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

8 AMPHITHEATER GUARDRAIL SECTION

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

REV.	DATE	ITEM

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PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE

STAIR PLANS AND ELEVATIONS

DRWG. BY: Author

CHK. BY: Checker

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

www.BBSARCHITECTURE.COM

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PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE STAIR PLANS AND ELEVATIONS

SCALE: AS NOTED

DATE: -

BID P/U DATE: 11/14/2022

FILE NO. 21-274C

A7.02 | HSMS

DOOR SCHEDULE

VV	LOCATION		SIGNAGE	DOOR						FRAME			HARDWARE	DETAILS				FIRE RATING	REMARKS	DOOR NO.
	FROM ROOM	TO ROOM		LEAF	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	GLAZING		HEAD	JAMB	SILL	THOLD		
	CORRIDOR (C)			1	8'- 7"	6'- 6"	0"		---	---	F2	HM	---			J5					
1	STUDENT LEARNING EXCHANGE (168)	OFFICE (1)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-01	ALUM	GL-1		E	IU	P	---			1
2	OFFICE (2)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-01	ALUM	GL-1		E	IU	P	---			2
3	OFFICE (3)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-01	ALUM	GL-1		E	IU	P	---			3
4	STUDENT LEARNING EXCHANGE (168)	OFFICE (4)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-01	ALUM	GL-1		E	IU	P	---			4
5	STUDENT LEARNING EXCHANGE (168)	OFFICE (5)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-12	ALUM	GL-1		E	IU	P	---			5
6	OFFICE (6)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-13	ALUM	GL-1		E	IU	P	---			6
7	STUDENT LEARNING EXCHANGE (168)	OFFICE (7)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-07	ALUM	GL-1		E	IU	P	---			7
8	STUDENT LEARNING EXCHANGE (168)	OFFICE (8)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			8
9	OFFICE (9)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			9
10	STUDENT LEARNING EXCHANGE (168)	OFFICE (10)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			10
11	OFFICE (11)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			11
12	OFFICE (12)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-14	ALUM	GL-1		E	IU	P	---			12
13	OFFICE (13)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			13
14	OFFICE (14)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			14
15	OFFICE (15)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			15
16	OFFICE (16)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			16
17	STUDENT LEARNING EXCHANGE (168)	OFFICE (17)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			17
18	OFFICE (18)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-03	ALUM	GL-1		E	IU	P	---			18
19	OFFICE (19)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-01	ALUM	GL-1		E	IU	P	---			19
20	OFFICE (20)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-01	ALUM	GL-1		E	IU	P	---			20
100A	GALLERY (501B)	CORRIDOR (F)		2	3'- 6"	7'- 0"	1 3/4"	D2	WD	F.L.P.	F2	HM	---		H6	J6		T4	45 MIN.	M.C.M.V. DOOR WITH KICK PLATE , ELECTROMAGNETIC HOLDER AND CLOSER	100A
100B	CORRIDOR (L)	CORRIDOR (F)		2	3'- 6"	7'- 0"	1 3/4"	D2	WD	F.L.P.	F2	HM	---		H4	J4		T4	45 MIN.	M.C.M.V. DOOR WITH KICK PLATE , ELECTROMAGNETIC HOLDER AND CLOSER	100B
100C	STUDENT LEARNING EXCHANGE (168)	CORRIDOR (E)		2	3'- 0"	7'- 0"	1 3/4"	D2	WD	F.L.P.	F2	HM	---		H4	J4		T3	45 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	100C
100D	CORRIDOR (E)	STUDENT LEARNING EXCHANGE (168)		2	3'- 0"	7'- 0"	1 3/4"	D2	WD	F.L.P.	F2	HM	---		H4	J4		T3	45 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	100D
107	QUIET ROOM (107)	CORRIDOR (L)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2		PROVIDE GASKET AROUND DOOR	107
108A	CORRIDOR (L)	AMPHITHEATER (108)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	TEMP	SF-28	F.B.C	GL-2		E	IU	P	---	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	108A
108B	STUDENT LEARNING EXCHANGE (168)	AMPHITHEATER (108)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	TEMP	SF-02	F.B.C	GL-1		E	IU	P	---			108B
108C	AMPHITHEATER (108)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	F1	F.B.C	GL-1		H4	J4	P	---			108C
109B	PRINCIPAL (109b)	CORRIDOR (E)		1	3'- 0"	7'- 0"	1 3/4"	D2	AWD	TEMP	F1	HM	---		H4	J4		T4	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	109B
111A	GALLERY (501B)	UNISEX ADA RESTROOM (111A)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2			111A
111B	GALLERY (501B)	UNISEX RESTROOM (111B)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2			111B
111C	GALLERY (501B)	UNISEX RESTROOM (111C)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2			111C
111D	GALLERY (501B)	STAFF ADA UNISEX RESTROOM (111D)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2			111D
112A	STUDENT LEARNING EXCHANGE (168)	FLEX SPACE (112)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-02	ALUM	GL-1		E	IU	P	---			112A
112B	FLEX SPACE (112)	CORRIDOR (L)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-28	F.B.C	GL-2		E	IU	P	---	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	112B
113A	CORRIDOR (B)	SCIENCE RESEARCH LAB (113)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-27	F.B.C	GL-2	01	E	IU	P	---	45 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	113A
113B	SCIENCE RESEARCH LAB (113)	CORRIDOR (B)		1	3'- 1"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-27	F.B.C	GL-2	01	E	IU	P	---	45 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	113B
114A	COLLEGE CONF (114)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-1	SF-08	ALUM	GL-1		E	IU	P	---			114A
114B	CORRIDOR (E)	COLLEGE CONF (114)		1	3'- 0"	7'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-28	F.B.C	GL-2		E	IU	P	---	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	114B
115	STUDENT LEARNING EXCHANGE (168)	MATH LAB (115)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	F.L.P.	SF-18	ALUM	GL-1		E	IU	P	---			115
116	WRITING LAB (116)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	TEMP	SF-17	ALUM	GL-1		E	IU	P	---			116
117	STUDENT LEARNING EXCHANGE (168)	CLASSROOM (117)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	TEMP	SF-01	ALUM	GL-1		E	IU	P	---			117
118A	CORRIDOR (E)	ST (118)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T4	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	118A
118B	STUDENT LEARNING EXCHANGE (168)	ST (118)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T4			118B
119	ST. (119)	CORRIDOR (E)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T4	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	119
120	ROBOTICS/ ENGINEERING (121)	FAB LAB/ PHOTOGRAPHY (120)		1	3'- 0"	7'- 0"	1 3/4"	D3	HM	GL-2	F1	HM	---		H4	J4		T4	90 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	120
120A	FAB LAB/ PHOTOGRAPHY (120)	ST (120A)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T4	45 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	120A
121	ROBOTICS/ ENGINEERING (121)	CORRIDOR (D)		1	3'- 0"	7'- 0"	1 3/4"	D3	HM	GL-2	F1	HM	---		H4	J4		T4	90 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	121
121A	ROBOTICS/ ENGINEERING (121)	ST (121A)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T4	90 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	121A
125	GUIDANCE (125)	CORRIDOR (B)		1	3'- 0"	7'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-02	F.B.C	GL-2		E	IU	P	---	45 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	125
157	CORRIDOR (C)	SEC. (157)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H1/H2	J2		T4			157
158	BOY'S TOILET (158)	CORRIDOR (C)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2			158
159	CORRIDOR (C)	STOR. (159)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H1/H2	J2		T4			159
160	CORRIDOR (C)	GIRL'S TOILET (160)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2			160
164	TECH (164)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	TEMP	SF-16	ALUM	GL-1		E	IU	P	---			164
165	TECH (164)	TECH. (165)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T4			165
166	STUDENT LEARNING EXCHANGE (168)	STORAGE (166)		1	3'- 0"	7'- 0"	1 3/4"	D2	AWD	TEMP	F1	HM	---		H4	J4		T4			166
167	STUDENT LEARNING EXCHANGE (168)	STORAGE (167)		1	3'- 0"	7'- 0"	1 3/4"	D2	AWD	TEMP	F1	HM	---		H4	J4		T4			167
168A	STUDENT LEARNING EXCHANGE (168)	GALLERY (501B)		2	6'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-04	F.B.C	GL-2		E	IU	P	---	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	168A
168B	STUDENT LEARNING EXCHANGE (168)	CORRIDOR (B)		2	7'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-09	F.B.C	GL-2		E	IU	P	---	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	168B
168D	CORRIDOR (E)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	8'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-28	F.B.C	GL-2		E	IU	P	---	60 MIN.	M.C.M.V. DOOR WITH KICK PLATE AND CLOSER	168D
181A	GALLERY (501B)	UNISEX ADA RESTROOM (181A)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2			181A
181B	UNISEX RESTROOM (181B)	GALLERY (501B)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T2			181B
181C	STORAGE (181C)	STUDENT LEARNING EXCHANGE (168)		1	3'- 0"	7'- 0"	1 3/4"	D1	HM	---	F1	HM	---		H4	J4		T4			181C
500	CAFETERIA (505)	BREAKOUT (500)		1	3'- 0"	7'- 0"	1 3/4"	D4	HM	TEMP	F1	HM	-		H4	J4					500
501	CAFETERIA (505)	BREAKOUT (501)		1	3'- 0"	7'- 0"	1 3/4"	D4	HM	TEMP	F1	HM	-		H4	J4					501
505A	GALLERY (501B)	CAFETERIA (505)		2	7'- 0"	7'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-15	F.B.C	GL-2		E	J	P	---	60 MIN.	ADD/ ALT #1 CAFETERIA	505A
505B	GALLERY (501B)	CAFETERIA (505)		2	7'- 0"	7'- 0"	1 3/4"	D4	ALUM/GLASS	GL-2	SF-15	F.B.C	GL-2		E	J	P	---	60 MIN.	ADD/ ALT #1 CAFETERIA	505B

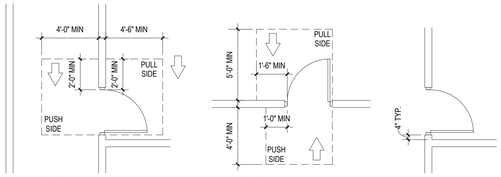
ABBREVIATIONS

ALUM. . . . . .ALUMINUM	M.C.M.V. . . . . .MINERAL CORE MAPLE VENEER
F.B.C. . . . . .FIRE BARRIER COMPOSITE	M.C.O.V. . . . . .MINERAL CORE OAK VENEER
F.G. . . . . .1" FIREGLASS 20	S.C.L.C.M.V. . . .SOLID COMPOSITE LUMBER CORE MAPLE VENEER
F.L.P. . . . . .5/16" FIRE-LITE PLUS	S.C.L.C.O.V. . . .SOLID COMPOSITE LUMBER CORE OAK VENEER
F.R.P. . . . . .FIBERGLASS REINFORCED POLYESTER	S.L.. . . . . .1" SAFETY LAMINATED GLASS
H.M. . . . . .HOLLOW METAL	TEMP. . . . . .1" TEMPERED GLASS
INSUL. . . . . .1" INSULATED GLASS	OBSC. . . . . .OBSCURE GLASS

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. ALL FIRE RATED WOOD DOORS 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. REFER TO SPECIFICATION SECTION 08211 FOR ADDITIONAL INFORMATION.
5. ALL GLAZING IN DOORS SHALL BE INSTALLED IN METAL VISION KIT TO MATCH FIRE LABEL. VISION KIT COLOR SHALL BE AS SELECTED BY ARCHITECT.
6. ALL NEW H.M. FRAMES SHALL BE 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.
7. 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.
8. 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.
9. ALL NEW HOLLOW METAL FRAMES AND HOLLOW METAL DOORS SHALL BE FINISH PAINTED. COLOR AS SELECTED BY ARCHITECT.
10. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL A.D.A. ACCESSIBLE SIGNAGE AT ALL DOORS (WHERE SPECIFIED IN DOOR SCHEDULE AND/OR SHOWN ON FLOOR PLANS) AND INSTALLED IN CONFORMANCE WITH ALL A.D.A. REQUIREMENTS.
    - ▼ A. WHERE DENOTED IN SCHEDULE, PROVIDE 4"x4" SIGNAGE WITH BRAILLE INDICATING ROOM NUMBER (COORD. WITH OWNER), MODEL E-BTCUST.
    - ▼ B. WHERE DENOTED IN SCHEDULE, PROVIDE 4"x12" SIGNAGE WITH BRAILLE INDICATING ROOM NAME AND NUMBER (COORD. WITH OWNER), MODEL 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 (BOYS), X-7096 (GIRLS)
        - AT MULTI-USE ACCESSIBLE TOILET ROOMS, PROVIDE AND INSTALL MODEL No. X-5688 (WOMEN), X-5671 (MEN), X-7108 (BOYS), X-7107 (GIRLS)
    - ▼ 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, IF REQUIRED.
        - AT SINGLE-USE ACCESSIBLE TOILET ROOMS, PROVIDE AND INSTALL MODEL No. E-BTCUST. SIGN SHALL SPECIFY STAFF OR STUDENT USE, IF REQUIRED

    MANUFACTURER: "ALLSTATE SIGN AND PLAQUE" (REFER TO DOOR SCHEDULE AND FLOOR PLANS FOR SIGN TYPE AND LOCATION). ALL SIGNAGE SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL.
11. ALL REMOVABLE MULLIONS ARE TO BE KEYED ALIKE AND TO MATCH EXISTING BUILDING SYSTEM.
12. GLAZING WITH SURFACE APPLIED FILMS WILL NOT BE CONSIDERED EQUIVALENT WHERE LAMINATED FILM IS SPECIFIED.



CONFORM TO ANSI STANDARDS FOR FRONT APPROACH
A DOOR PLAN/DETAIL NOT TO SCALE

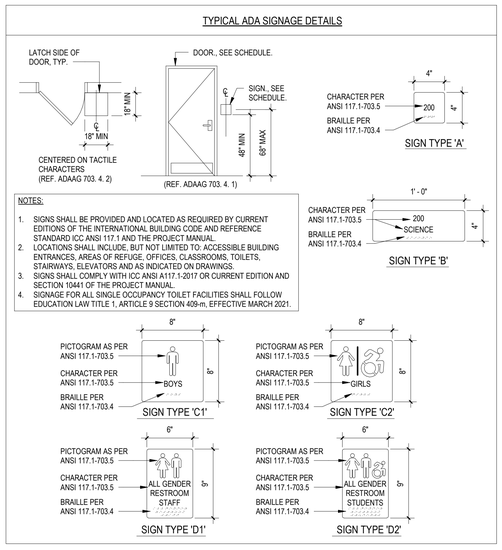
CONFORM TO ANSI STANDARDS FOR LATCH SIDE APPROACH
B DOOR PLAN/DETAIL NOT TO SCALE

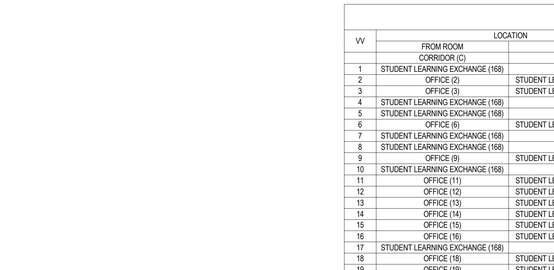
DOOR PLACEMENT TYPICAL/ UNLESS OTHERWISE NOTED
C DOOR PLAN/DETAIL NOT TO SCALE

DOOR PLACEMENT DETAILS

SCALE: N.T.S.

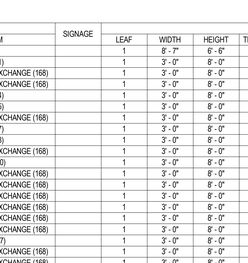
TYPICAL ADA SIGNAGE DETAILS



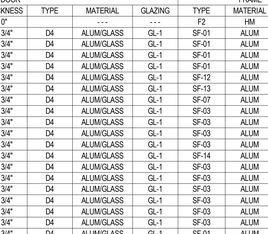


H1 DOOR HEAD DETAIL 1
SCALE:3" = 1'-0"

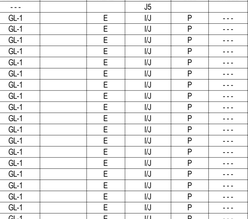
H2 DOOR HEAD DETAIL 2
SCALE:3" = 1'-0"



H3 DOOR HEAD DETAIL 3
SCALE:3" = 1'-0"



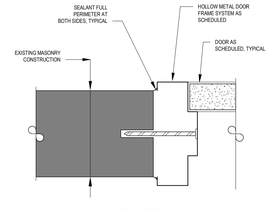
H4 DOOR HEAD DETAIL 4
SCALE:3" = 1'-0"



H5 CASE OPENING HEAD DETAIL 5
SCALE:3" = 1'-0"



H6 DOOR HEAD DETAIL 4
SCALE:3" = 1'-0"



J1 DOOR JAMB DETAIL 1
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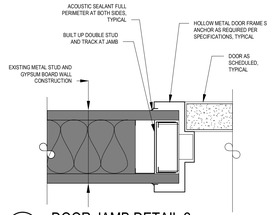

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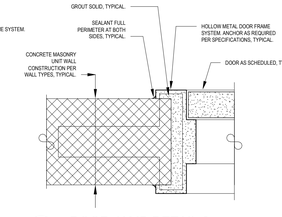
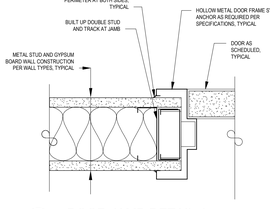


J3 DOOR JAMB DETAIL 3
SCALE:3" = 1'-0"



J4 DOOR JAMB DETAIL 4
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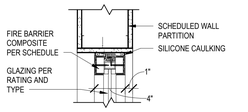
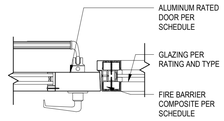
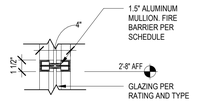


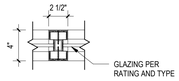
A SF HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



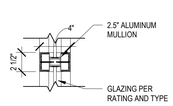
J SF DOOR JAMB R DETAIL
SCALE: 1 1/2" = 1'-0"



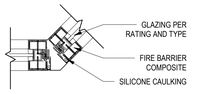
B SF 1.5" HORIZONTAL DETAIL
SCALE: 1 1/2" = 1'-0"



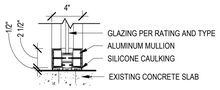
K SF VERTICAL DETAIL
SCALE: 1 1/2" = 1'-0"



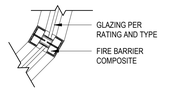
C SF 2.5" HORIZONTAL DETAIL
SCALE: 1 1/2" = 1'-0"



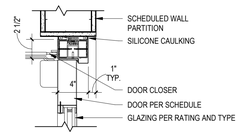
L SF 45 CORNER DETAIL
SCALE: 1 1/2" = 1'-0"



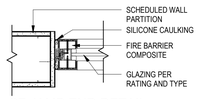
D SF BOTTOM DETAIL
SCALE: 1 1/2" = 1'-0"



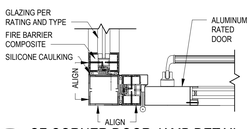
M SF VERTICAL CURVE DETAIL
SCALE: 1 1/2" = 1'-0"



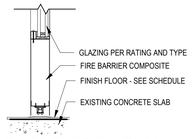
E SF DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



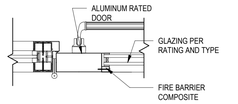
N SF JAMB END DETAIL
SCALE: 1 1/2" = 1'-0"



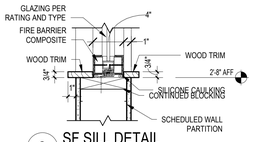
F SF CORNER DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



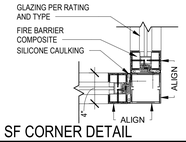
P SF DOOR SILL DETAIL
SCALE: 1 1/2" = 1'-0"



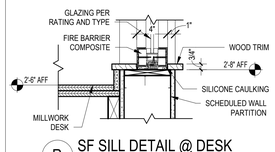
G SF DOOR JAMB L DETAIL
SCALE: 1 1/2" = 1'-0"



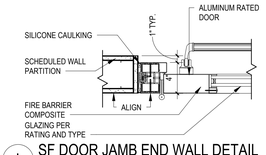
Q SF SILL DETAIL
SCALE: 1 1/2" = 1'-0"



H SF CORNER DETAIL
SCALE: 1 1/2" = 1'-0"



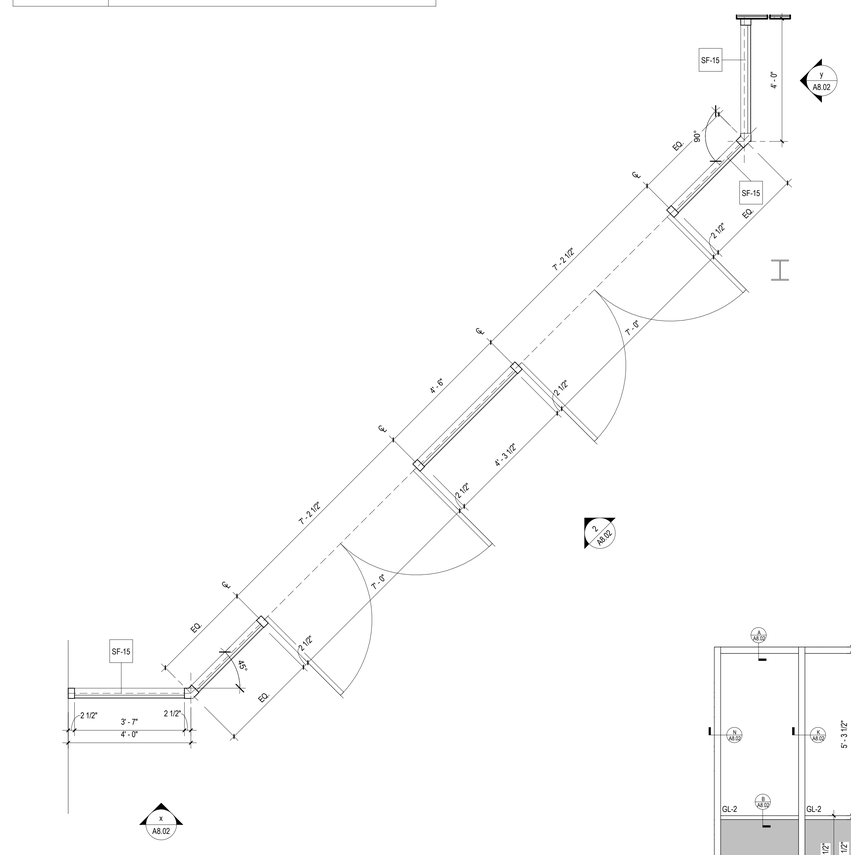
R SF SILL DETAIL @ DESK
SCALE: 1 1/2" = 1'-0"



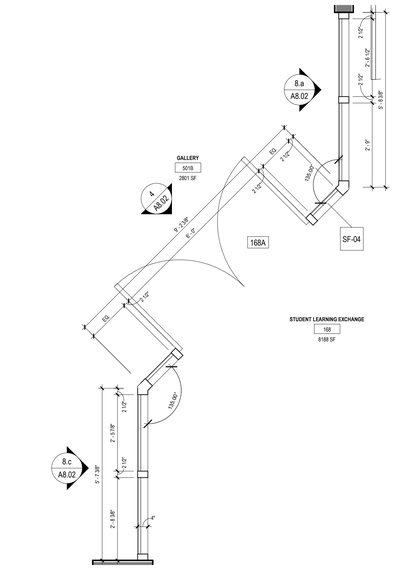
I SF DOOR JAMB END WALL DETAIL
SCALE: 1 1/2" = 1'-0"

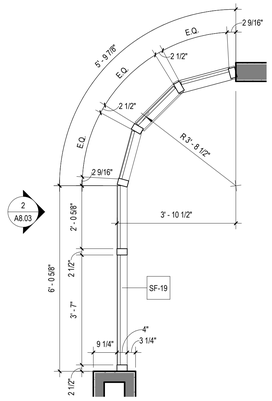
STOREFRONT & WINDOW GLAZING LEGEND

GL-1	SINGLE PANEL TEMPERED GLAZING - PER PROJECT MANUAL NO RATED ALUMINUM MULLIONS
GL-2	RATED SINGLE PANEL GLAZING - PER PROJECT MANUAL & DOOR SCHEDULE 1HR RATED ALUMINUM MULLIONS WITH FIRE BARRIER COMPOSITE
GL-3	HIGH PERFORMANCE INSULATING DOUBLE GLAZING - PER PROJECT MANUAL INSULATED ALUMINUM MULLIONS
GL-4	HIGH PERFORMANCE SPANDREL DOUBLE GLAZING - PER PROJECT MANUAL INSULATED ALUMINUM MULLIONS
PNL-1	COMPOSITE PANEL - PER PROJECT MANUAL NO RATED ALUMINUM MULLIONS
PNL-2	RATED COMPOSITE PANEL - PER PROJECT MANUAL & DOOR SCHEDULE 1HR RATED ALUMINUM MULLIONS WITH FIRE BARRIER COMPOSITE

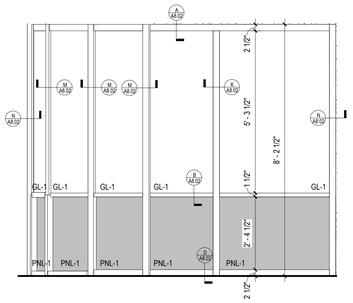


1 1HR RATED STOREFRONT PLAN - 15 (ASTM E 119)
SCALE: 1/2" = 1'-0"

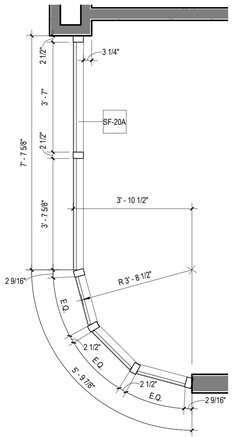

8.a
A8.02
GALLERY
501B
2901 SF
4
A8.02
168A
SF-04
STUDENT LEARNING EXCHANGE
150
8188 SF
8.c
A8.02
2 1/2"
2 1/4"
2 1/2"
5 1/8"
2'-9"
5 1/8"
2 1/2"
EQ.
2 1/2"
8'-0"
135.00°
2 1/2"
EQ.
2 1/2"
2 1/2"
2 1/2"



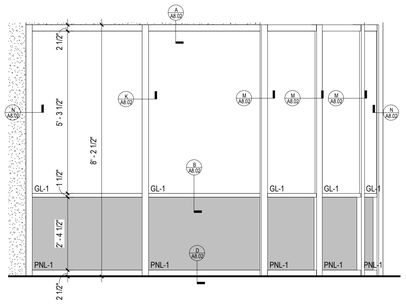
1 STOREFRONT PLAN - 19
SCALE: 1/2" = 1'-0"



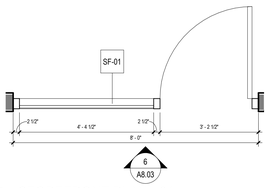
2 STOREFRONT - 19 ELEVATION
SCALE: 1/2" = 1'-0"



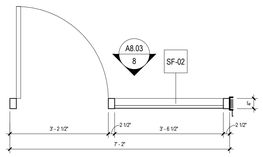
3 STOREFRONT PLAN - 20
SCALE: 1/2" = 1'-0"



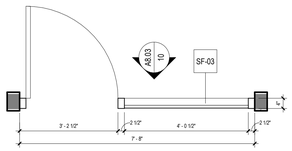
4 STOREFRONT - 20 ELEVATION
SCALE: 1/2" = 1'-0"



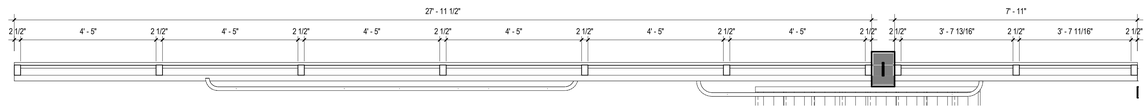
5 STOREFRONT PLAN - 01
SCALE: 1/2" = 1'-0"



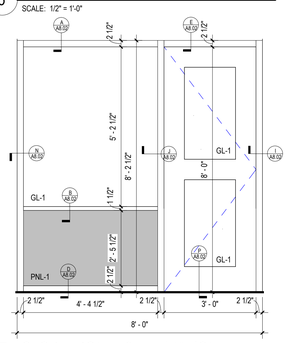
7 STOREFRONT PLAN - 02
SCALE: 1/2" = 1'-0"



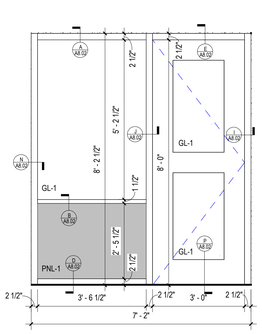
9 STOREFRONT PLAN - 03
SCALE: 1/2" = 1'-0"



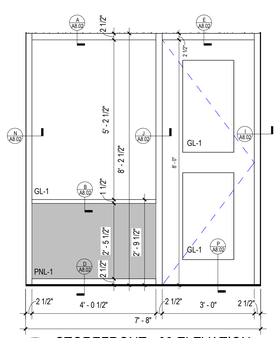
11 STOREFRONT PLAN - 06
SCALE: 1/2" = 1'-0"



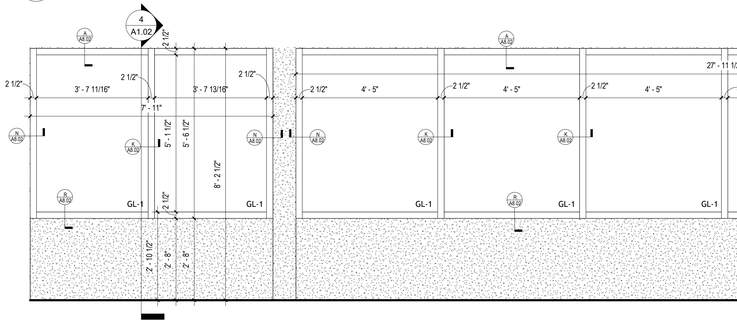
6 STOREFRONT - 01 ELEVATION
SCALE: 1/2" = 1'-0"



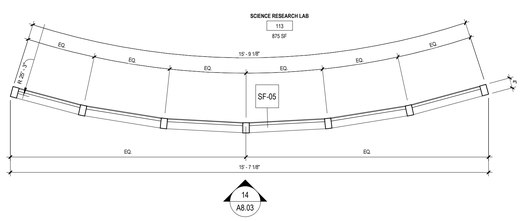
8 STOREFRONT - 02 ELEVATION
SCALE: 1/2" = 1'-0"



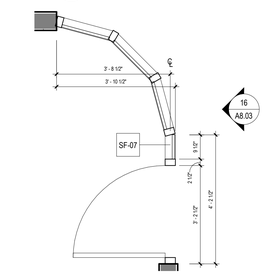
10 STOREFRONT - 03 ELEVATION
SCALE: 1/2" = 1'-0"



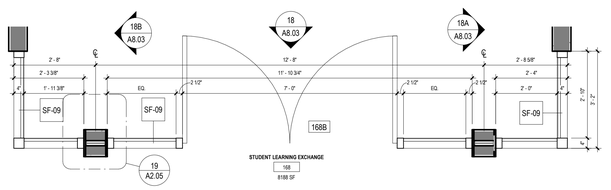
12 STOREFRONT - 06 ELEVATION
SCALE: 1/2" = 1'-0"



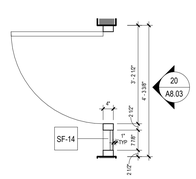
13 1HR RATED STOREFRONT PLAN - 05 (ASTM E119)
SCALE: 1/2" = 1'-0"



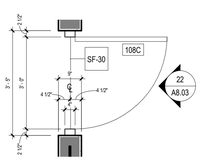
15 STOREFRONT PLAN - 07
SCALE: 1/2" = 1'-0"



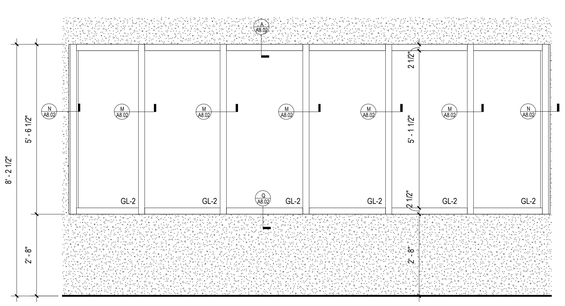
17 STOREFRONT PLAN - 09
SCALE: 1/2" = 1'-0"



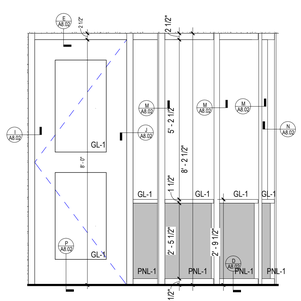
19 STOREFRONT PLAN - 14
SCALE: 1/2" = 1'-0"



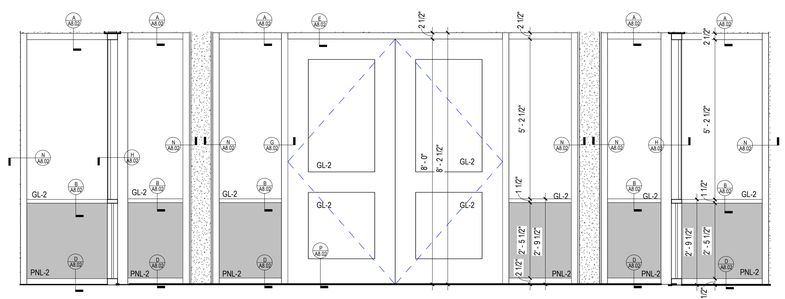
21 STOREFRONT PLAN - 30
SCALE: 1/2" = 1'-0"



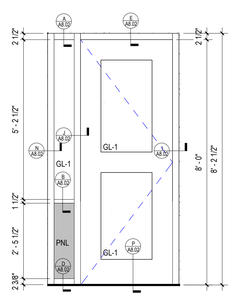
14 STOREFRONT - 05 ELEVATION
SCALE: 1/2" = 1'-0"



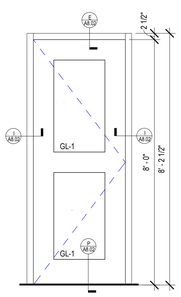
16 STOREFRONT - 07 ELEVATION
SCALE: 1/2" = 1'-0"



18 1HR RATED STOREFRONT - 09 ELEVATION 2 (ASTM E 119)
SCALE: 1/2" = 1'-0"



20 STOREFRONT - 14 ELEVATION
SCALE: 1/2" = 1'-0"



22 STOREFRONT - 30 ELEVATION
SCALE: 1/2" = 1'-0"

REV.	DATE	ITEM
1		

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PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE
STOREFRONT PLANS AND ELEVATIONS

DRWG. BY: J.N.
CHK. BY: G.E.O.

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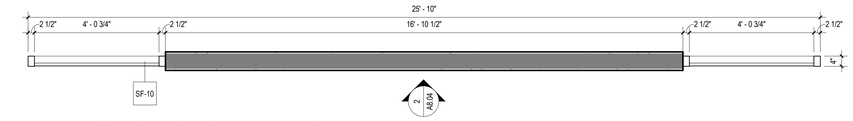
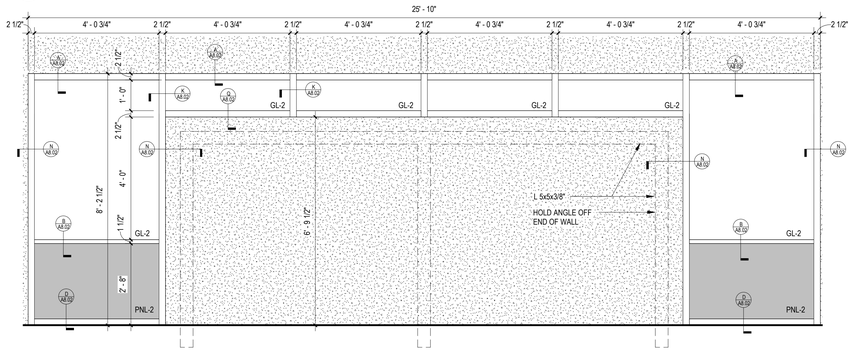
SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE STOREFRONT PLANS AND ELEVATIONS

SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A8.03 | HSMS



1 1HR RATED STOREFRONT PLAN - 10 (ASTM E119)
SCALE: 1/2" = 1'-0"



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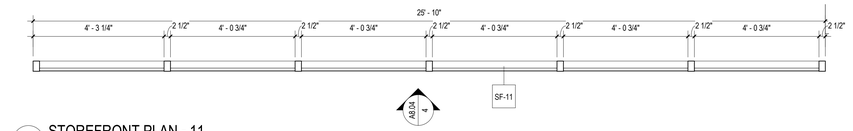
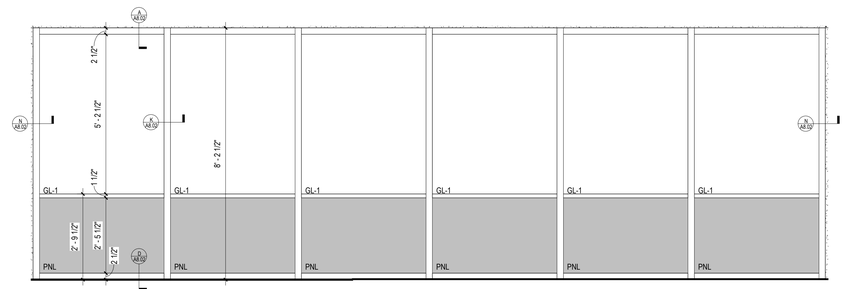
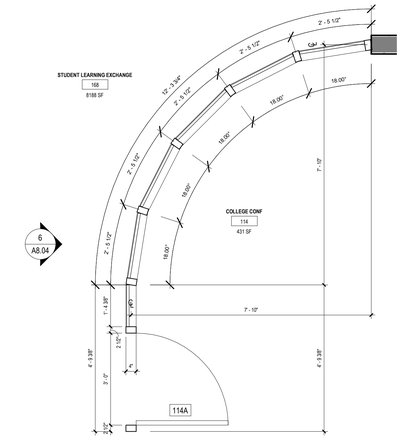
SCALE: 1/2" = 1'-0"



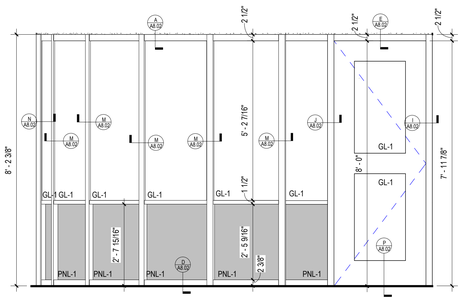
3 STOREFRONT PLAN - 11
SCALE: 1/2" = 1'-0"



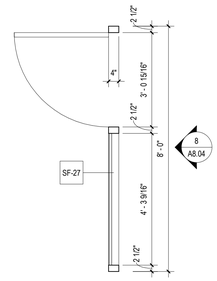
4 STOREFRONT - 11 ELEVATION
SCALE: 1/2" = 1'-0"



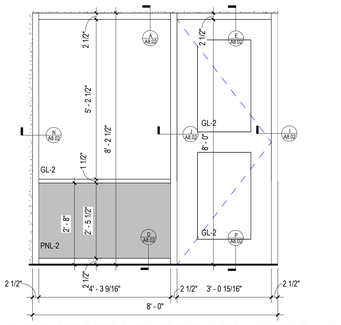
5 STOREFRONT PLAN - 08
SCALE: 1/2" = 1'-0"



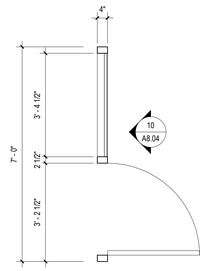
6 STOREFRONT - 08 ELEVATION
SCALE: 1/2" = 1'-0"



7 1HR RATED STOREFRONT PLAN - 27 (ASTM E 119)
SCALE: 1/2" = 1'-0"



8 1HR RATED STOREFRONT - 27 ELEVATION (ASTM E 119)
SCALE: 1/2" = 1'-0"



9 1HR RATED STOREFRONT PLAN - 28 (ASTM E 119)
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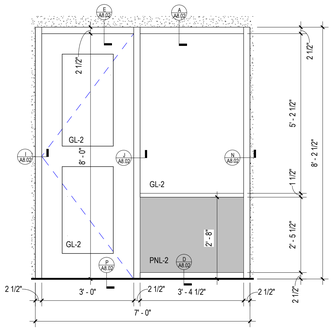
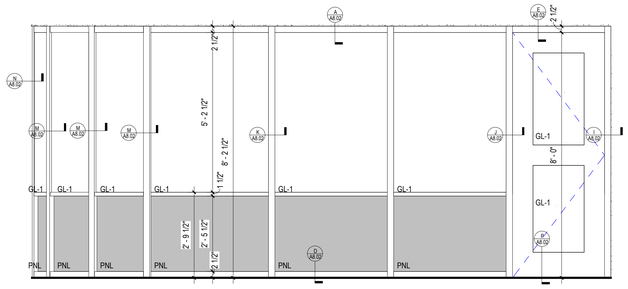
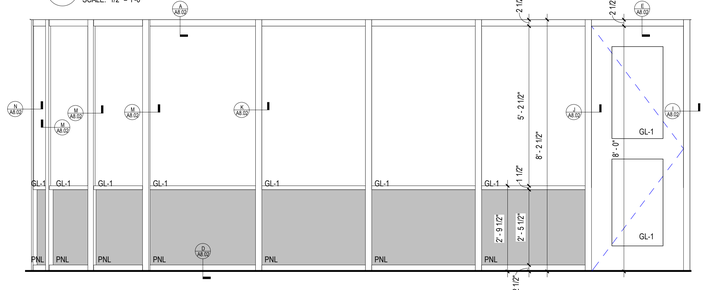


10 1HR RATED STOREFRONT - 28 ELEVATION (ASTM E 119)
SCALE: 1/2" = 1'-0"



20 STOREFRONT - 16 ELEVATION
SCALE: 1/2" = 1'-0"



21 STOREFRONT - 17 ELEVATION
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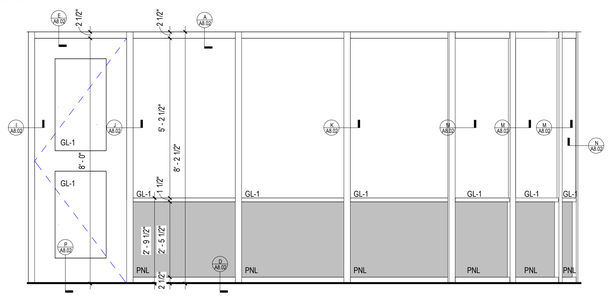
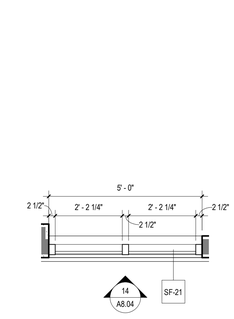
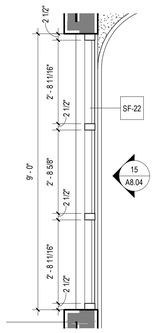


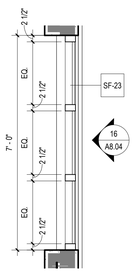
22 STOREFRONT - 18 ELEVATION
SCALE: 1/2" = 1'-0"



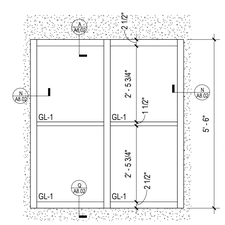
11 STOREFRONT PLAN - 21
SCALE: 1/2" = 1'-0"



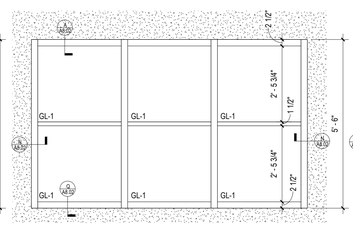
12 STOREFRONT PLAN - 22
SCALE: 1/2" = 1'-0"



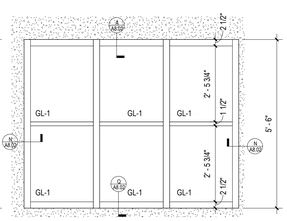
13 STOREFRONT PLAN - 23
SCALE: 1/2" = 1'-0"



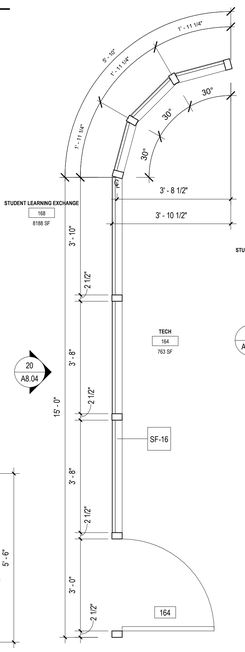
14 STOREFRONT - 21 ELEVATION
SCALE: 1/2" = 1'-0"



15 STOREFRONT - 22 ELEVATION
SCALE: 1/2" = 1'-0"



16 STOREFRONT - 23 ELEVATION
SCALE: 1/2" = 1'-0"



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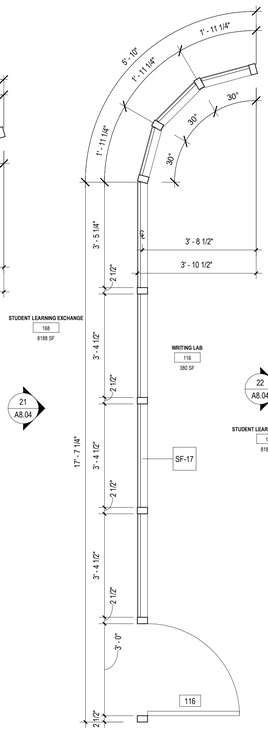
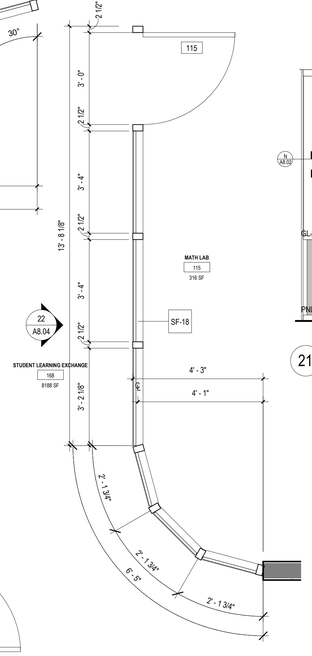


18 STOREFRONT PLAN - 17
SCALE: 1/2" = 1'-0"



19 STOREFRONT PLAN - 18
SCALE: 1/2" = 1'-0"

22 STOREFRONT - 18 ELEVATION
SCALE: 1/2" = 1'-0"

REV.	DATE	ITEM
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DRWG. BY: J.N.
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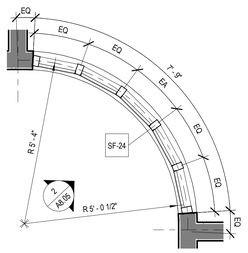
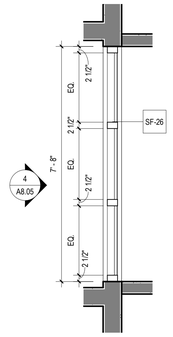
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE STOREFRONT PLANS AND ELEVATIONS
SCALE: AS NOTED
DATE:
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

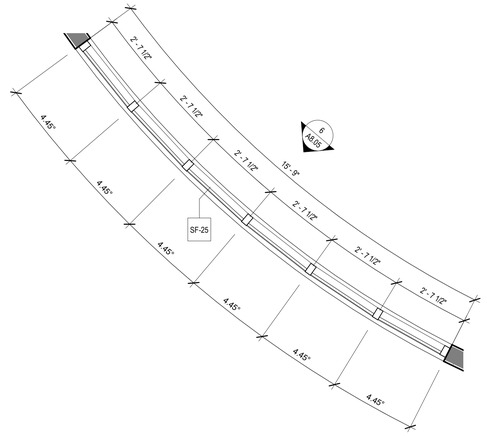
A8.04 HSMS



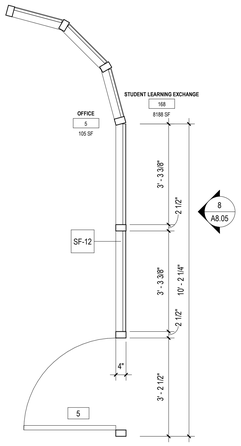
1 1HR RATED STOREFRONT PLAN - 24 (ASTM E 119)
SCALE: 1/2" = 1'-0"



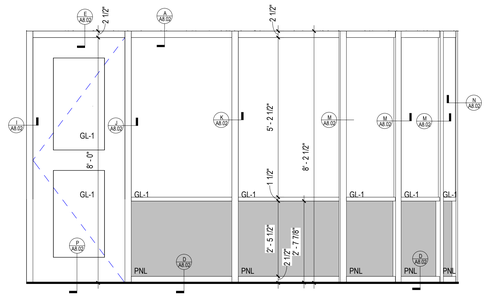
3 1HR RATED STOREFRONT PLAN - 26 (ASTM E 119)
SCALE: 1/2" = 1'-0"



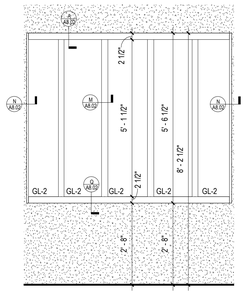
5 1HR RATED STOREFRONT PLAN - 25 (ASTM E 119)
SCALE: 1/2" = 1'-0"



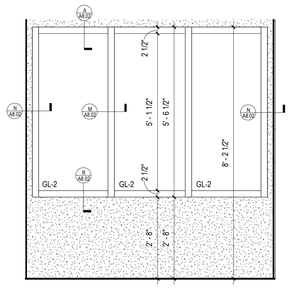
7 STOREFRONT PLAN - 12
SCALE: 1/2" = 1'-0"



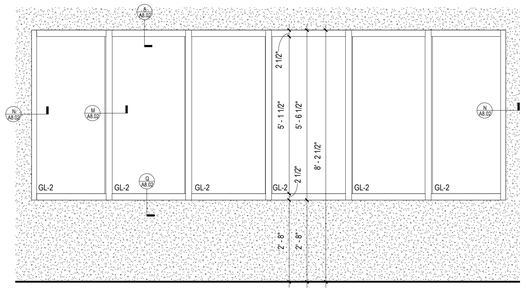
8 STOREFRONT - 12 ELEVATION
SCALE: 1/2" = 1'-0"



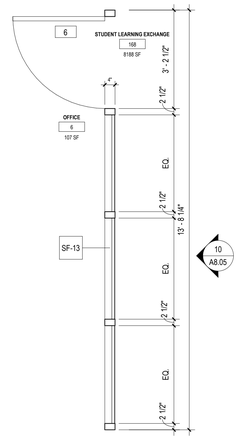
2 1HR RATED STOREFRONT - 24 ELEVATION (ASTM E 119)
SCALE: 1/2" = 1'-0"



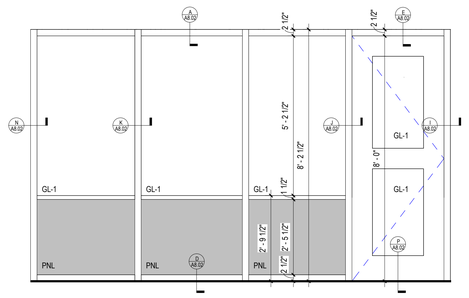
4 1HR RATED STOREFRONT - 26 ELEVATION (ASTM E 119)
SCALE: 1/2" = 1'-0"



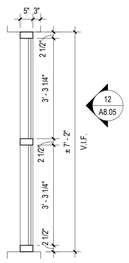
6 1HR RATED STOREFRONT - 25 ELEVATION (ASTM E 119)
SCALE: 1/2" = 1'-0"



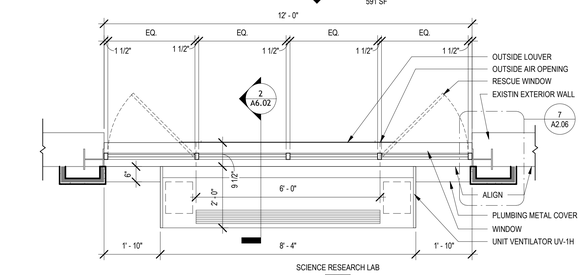
9 STOREFRONT PLAN - 13
SCALE: 1/2" = 1'-0"



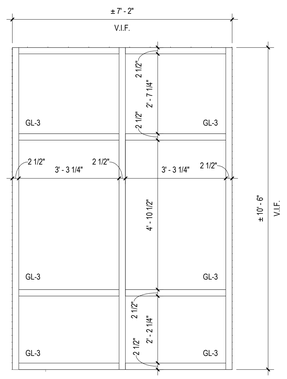
10 STOREFRONT - 13 ELEVATION
SCALE: 1/2" = 1'-0"



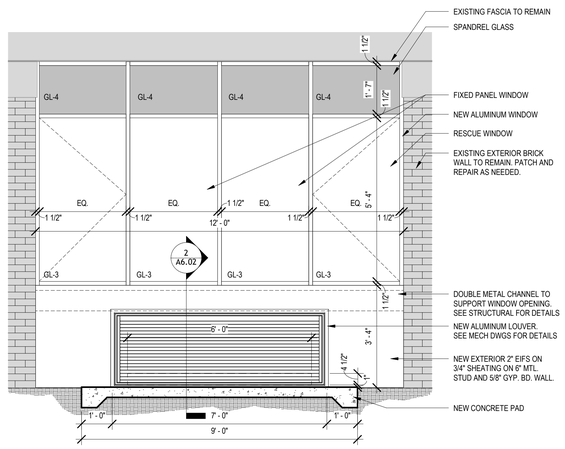
11 STOREFRONT PLAN - 29
SCALE: 1/2" = 1'-0"



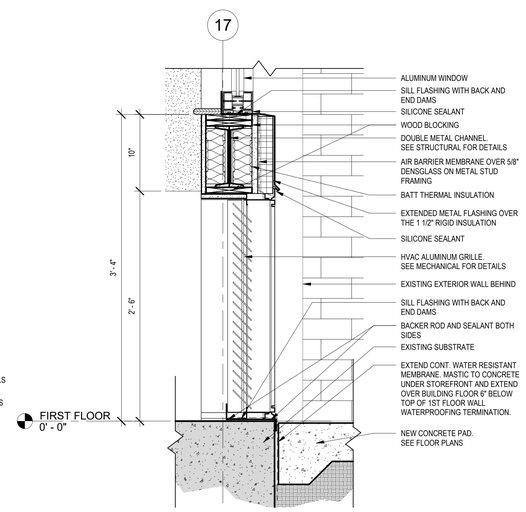
13 WINDOW PLAN - 01
SCALE: 1/2" = 1'-0"



12 STOREFRONT - 29 ELEVATION
SCALE: 1/2" = 1'-0"



14 WINDOW - 01 ELEVATION
SCALE: 1/2" = 1'-0"



15 CORRIDOR B - DETAIL SECTION
SCALE: 1 1/2" = 1'-0"

REV.	DATE	ITEM
1		

NOTICE

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PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE
STOREFRONT PLANS AND ELEVATONS

DRWG. BY: Author
CHK. BY: Checker

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
www.BBSARCHITECTURE.COM

SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR U.F.S.D.
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	STOREFRONT PLANS AND ELEVATONS
SCALE:	AS NOTED
DATE:	-
BID P/U DATE:	11/14/2022
FILE NO.	21-274C

A8.05 HSMS

WALL TYPES:

TYPE P1: PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: EXTRA WHITE SW7006 (CEILING)	TYPE P2: PAINT BY SHERWIN WILLIAMS LATEX FLAT ENAMEL COLOR: DENIM SW6523 (CEILING ACCENT - BLUE)
TYPE P3: PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: BIG CHILL SW7648 (GENERAL WALLS)	TYPE P4: PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: DENIM SW6523 (ACCENT A - BLUE)
TYPE P5: PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: ROBUST ORANGE SW6628 (ACCENT B- ORANGE)	TYPE P6: PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: DAPHNE SW9151 (ACCENT C- LIGHT BLUE)
TYPE P7: PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: AS SELECTED BY ARCHITECT (CORRIDOR)	TYPE P8: PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: AS SELECTED BY ARCHITECT (CORRIDOR)
TYPE P9: PAINT BY SHERWIN WILLIAMS LATEX SEMI-GLOSS ENAMEL COLOR: AS SELECTED BY ARCHITECT (TOILET)	TYPE WC1: WALLTALKERS MAG-RITE (M248) - MAGNETIC, WRITABLE WALL SURFACE AS MANUFACTURED BY KOROSEAL OR EQUAL. PROVIDE FLOOR TO CEILING- LEVEL 5 GYP. BOARD FINISH REQUIRED FOR INSTALLATION.
TYPE CT-1: 4" X 12" CERAMIC WALL TILE MANUFACTURER: AMERICAN OLEAN COLLECTION: COLORSTORY WALL COLOR: MATTE DESIGNER WHITE 0061	TYPE CT-2: 4" X 12" CERAMIC WALL TILE MANUFACTURER: AMERICAN OLEAN COLLECTION: COLORSTORY WALL COLOR: SAPPHIRE SKY 0070
TYPE CT-3: 4" X 12" CERAMIC WALL TILE MANUFACTURER: AMERICAN OLEAN COLLECTION: COLORSTORY WALL COLOR: BLAZE 0029	

FLOOR MATERIAL TYPES

TYPE VCT1: 12" X 12" VINYL COMPOSITION TILE MANUFACTURER: ARMSTRONG 'EXCELON IMPERIAL' FIELD COLOR: SOFT WARM GRAY 51861 ACCENT VCT1A: GO BLUE 57531 ACCENT VCT1B: SCREAMIN' PUMPKIN 57516	TYPE LVT1: 7"X48" LUXURY VINYL TILE MANUFACTURER: PATCRAFT STYLE: RESTON 20 MIL COLOR: 00730 ANISE-V2
TYPE CPT1: 24" X 24" CARPET TILE MANUFACTURER: TARKETT STYLE: COLORKNIT COLOR: 30230 REGAL BLUE	TYPE CT-4: 8" X 8" CERAMIC FLOOR TILE MANUFACTURER: CREATIVE MATERIAL CO. COLLECTION: FRAMMENTO COLOR: BEIGE MACRO - NATURAL - RECTIFIED (BEIGE TERRAZZO)

BASE TYPES:

TYPE RCB1: 4" RUBBER COVE BASE BY TARKETT COLOR: BLUE INTENSITY TH2	TYPE RCB2: 4" RUBBER COVE BASE BY TARKETT COLOR: SHORELINE 280
TYPE RCB3: RUBBER COVE BASE BY "JOHNSONITE" LATEX EGGSHELL ENAMEL COLOR AS SELECTED BY ARCHITECT (CORRIDORS)	TYPE RCB4: RUBBER COVE BASE BY "JOHNSONITE" LATEX EGGSHELL ENAMEL COLOR AS SELECTED BY ARCHITECT (OFFICES)
TYPE CT-5: 8" X 8" CERAMIC FLOOR TILE MANUFACTURER: CREATIVE MATERIAL CO. COLLECTION: FRAMMENTO COLOR: BEIGE MACRO - NATURAL - RECTIFIED (BEIGE TERRAZZO)	

CEILING TILE TYPES:

TYPE ACT1: ACOUSTIC CEILING TILE BY "ARMSTRONG" SIZE: 24" X 24" X 3/4" STYLE: #1911 ULTIMA BEVELED TEGULAR (CORRIDORS/CLASSROOMS)	TYPE ACT2: ACOUSTIC CEILING TILE BY "ARMSTRONG" SIZE: 24" X 24" X 1", NRC RATING .95 STYLE: # 3250 OPTIMA SQUARE TEGULAR (STUDENT LEARNING EXCHANGE/OFFICES)
TYPE ACT3: ACOUSTIC CEILING TILE BY "ARMSTRONG" SIZE: 24" X 24" X 5/8" STYLE: # 770 CORTEGA SQUARE LAY-IN (STORAGE ROOMS/CUSTODIAL)	TYPE ACT4: ACOUSTIC CEILING BY "CERTAINTEED" SIZE: 4' DEEP X 1 1/4" THICK STYLE: DECOUSTICS RONDOLO BAFFLES COLOR(S) AS SELECTED BY ARCH. (STUDENT LEARNING EXCHANGE)
TYPE ACT5: ACOUSTIC CEILING TILE BY "ARMSTRONG" SIZE: 24" X 24" X 3/4" STYLE: # 1935 ULTIMA HEALTH ZONE SQUARE LAY-IN (TOILET ROOMS)	CEILING GRID: CEILING GRID BY "ARMSTRONG", 15/16" PRELUDE, WHITE, U.O.N. NOTE: ALL CEILING TILE & GRID TO BE WHITE UNLESS OTHERWISE NOTED.

GROUT TYPES:

TYPE GRT1: GRT1: 1/8" GROUT MANUFACTURER: CUSTOM BUILDING PRODUCTS COLOR: #11 SNOW WHITE	TYPE GRT2: GRT2: 1/16" GROUT MANUFACTURER: CUSTOM BUILDING PRODUCTS COLOR: #645 STEEL BLUE

TACKBOARDS:

TBI: TACK BOARDS.
COLOR: AS PER ARCHITECT

WINDOW TREATMENTS:

TYPE WS1: DRAPER CLUTCH OPERATED FLEXSHADE, PHIFER SHEARWEAVE PW 2500, 1% OPEN COLOR AS SELECTED BY ARCHITECT (ALL EXTERIOR WINDOWS, U.O.N.)

TYPE WS2: DRAPER CLUTCH OPERATED FLEXSHADE, PHIFER SHEARWEAVE PW 2500, SOLID COLOR AS SELECTED BY ARCHITECT (ALL INTERIOR WINDOWS @ MEDIA CENTER)

NOTES:
1. PROVIDE (1) PER WINDOW UNIT
2. GC SHALL SUBMIT SHOP DRAWINGS AND SAMPLES FOR APPROVAL BY ARCHITECT.

ACOUSTICAL WALL PANEL:

AP: 1" HARDSIDE FABRIC WRAPPED
ACOUSTICAL WALL PANEL AS MANUFACTURED BY KINETICS NOISE CONTROL OR EQUAL
FABRIC: PALETTE 2155 BY GUILFORD OF MAINE
COLOR: AS PER ARCHITECT

WRITABLE WALL COVERING

1. 'WALLTALKERS WALLCOVERINGS', AS MANUFACTURED BY KOROSEAL INTERIOR PRODUCTS, LLC, 3875 EMBASSY PARKWAY, SUITE 110, FAIRLAWN, OHIO 44333, TELEPHONE: (855)753-5474, EMAIL: INFO@KOROSEAL.COM, OR APPROVED EQUAL.

2. 'WALLTALKERS' TO BE WRITE-ABLE WITH MAGNETIC CAPABILITIES AND WILL EXTEND ENTIRE LENGTH OF WALL, FLOOR TO CEILING. 'WALLTALKERS' TO BE WHITE WITH ALUMINUM J-CAP TRIM , SEMI-GLOSS (PRODUCT CODE M248).

3. ACCESSORIES - 1 SET REQUIRED FOR EACH ROOM. INCLUDE THE FOLLOWING:
   a. ONE SILVER ANODIZED ALUMINUM MARKER CADDY (MODEL NO. AMCM)
   b. STARTER KIT (8 MARKERS, ONE FELT ERASER, 8 OZ. SPRAY BOTTLE OF LIQUID CLEANER, ONE EMPTY 8 OZ. SPRAY BOTTLE FOR WATER, TWO DRY ERASE CLEANING CLOTHS).
   c. HEAVY DUTY MAGNETS (MAG1), MINIMUM OF 12 MAGNETS.

4. WARRANTY: INCLUDE MANUFACTURER'S STANDARD 5 YEAR WARRANTY.

5. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS HORIZONTALLY WITH SEAM AT 2 A.F.F AND 6' A.F.F. REFER TO INSTALLATION INSTRUCTIONS, DOUBLE CUTTING ALL SEAMS.

6. G.C. SHALL CLEAN / PREP MATERIAL FOR FIRST USE AS RECOMMENDED BY MANUFACTURER AN AMMONIA OR ALCOHOL BASED CLEANER OR MILD SOAP AND RINSED THOROUGHLY WITH WATER.

BALANCE ALONG TOP
SEAM — — — — — — — — —
SOLID 'WALLTALKERS' PIECE
SEAM — — — — — — — — —
32" FROM FLOOR

GRAPHIC VINYL DECAL

GV1: GC RESPONSIBLE FOR USING GRAPHICS ALLOWANCE TO PROVIDE HEAT FORMED VINYL WALL DECAL, DESIGN AND INSTALLATION BY 71 VISUALS (631.532.6142) ON PAINTED GYP. BD. WALL.
PRODUCT: ARLON VINYL WITH MATTE LAMINATE, MULTIPLE COLORS

RUBBER TRANSITIONS/NOSINGS

GC RESPONSIBLE FOR USING GRAPHICS ALLOWANCE TO PROVIDE HEAT FORMED VINYL WALL DECAL, DESIGN AND INSTALLATION BY 71 VISUALS (631.532.6142) ON PAINTED GYP. BD. WALL.
PRODUCT: ARLON VINYL WITH MATTE LAMINATE, MULTIPLE COLORS

CASEWORK FINISHES

QT-1: SOLID SURFACE AS MANUFACTURED BY WILSONART OR EQUAL- COLOR: FROSTY WHITE MIRAGE 1573MG

PL-1: PLASTIC LAMINATE AS MANUFACTURED BY WILSONART OR EQUAL W/ MATCHING 3MM PVC EDGE WHERE REQUIRED
COLOR: LOFT OAK 7968-12

PL-2: PLASTIC LAMINATE AS MANUFACTURED BY WILSONART OR EQUAL W/ MATCHING 3MM PVC EDGE WHERE REQUIRED
COLOR: HIGH RISE 4996-38

PL-3: PLASTIC LAMINATE AS MANUFACTURED BY WILSONART OR EQUAL W/ MATCHING 3MM PVC EDGE WHERE REQUIRED
COLOR: INDIGO D379-60

**G.C. RESPONSIBLE FOR PROVIDING AND INSTALLING CASEWORK SHOWN IN ELEVATION 23/11.04, 27/11.04 AND RECEPTION DESK DETAILED ON 11.06 ONLY. ALL OTHER CASEWORK TO BE PROVIDED AND INSTALLED BY OWNER'S CC ON SEPARATE CONTRACT.

FINISH SCHEDULE

RM. NO.	LOCATION	FLOOR MATERIAL	FLOOR FINISH	BASE MATERIAL	BASE FINISH	WALLS MATERIAL	WALLS FINISH	CEILING	REMARKS
1	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
2	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
3	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
4	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
5	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
6	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
7	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
8	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
9	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
10	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
11	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
12	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
13	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
14	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
15	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
16	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
17	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
18	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
19	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
20	OFFICE	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P6	ACT2	
107	QUIET ROOM	LVT	LVT1	RUBBER BASE	RB2	GYP. BD	AP	ACT2	WALLS TO BE WRAPPED IN ACOUSTICAL PANEL
108	AMPHITHEATER	LVT	LVT1	RUBBER BASE	RB2	GYP. BD	P3	ACT2&4/GYP	
111A	UNISEX ADA RESTROOM	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT5	
111B	UNISEX RESTROOM	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT5	
111C	UNISEX RESTROOM	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT5	
111D	STAFF ADA UNISEX RESTROOM	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT5	
112	FLEX SPACE	LVT	LVT1	RUBBER BASE	RB2	GYP. BD	P3	ACT1/GYP	
113	SCIENCE RESEARCH LAB	LVT	LVT1	RUBBER BASE	RB2	GYP. BD	P3/P5/WC1	ACT1&4/GYP	
114	COLLEGE CONF	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P3/P4	ACT1	
115	MATH LAB	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P5/WC1	ACT1	
116	WRITING LAB	CARPET	CPT1	RUBBER BASE	RB1	GYP. BD	P5/WC1	ACT1	
117	CLASSROOM	VCT	VCT1	RUBBER BASE	RB1	GYP. BD	P3/P5	ACT1	
118	ST	VCT	VCT1	RUBBER BASE	RB1	GYP. BD	P3	ACT3	
119	ST.	VCT	VCT1	RUBBER BASE	RB1	GYP. BD	P3	ACT3	
120	FAB LAB/ PHOTOGRAPHY	LVT	LVT1	RUBBER BASE	RB1	GYP. BD	P4	ACT1	
120A	ST	LVT	LVT1	RUBBER BASE	RB1	GYP. BD	P4	ACT1	
121	ROBOTICS/ ENGINEERING	LVT	LVT1	RUBBER BASE	RB1	GYP. BD	P4	ACT1	
157	SEC.	VCT	VCT1	RUBBER BASE	RB1	EXIST	P4	ACT3	
158	BOY'S TOILET	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT5	
159	STOR.	VCT	VCT1	RUBBER BASE	RB1	EXIST	P3	ACT3	
160	GIRL'S TOILET	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT5	
164	TECH	VCT	VCT1	RUBBER BASE	RB1	GYP. BD	P3/P5	ACT1	
165	TECH.	VCT	VCT1	RUBBER BASE	RB1	GYP. BD	P3/P5	ACT1	
166	STORAGE	VCT	VCT1	RUBBER BASE	RB1	GYP. BD	P3	ACT4	
167	STORAGE	VCT	VCT1	RUBBER BASE	RB1	GYP. BD	P3	ACT4	
168	STUDENT LEARNING EXCHANGE	CARPET/LVT	CPT1/LVT1	RUBBER BASE	RB1	GYP. BD	P3/P4/P5	ACT2&4/GYP	
181A	UNISEX ADA RESTROOM	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT5	
181B	UNISEX RESTROOM	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT5	
501B	GALLERY	VCT	VCT1	RUBBER BASE	RB2	GYP. BD	P	NO CLG/P1&11	
505	CAFETERIA	LVT	LVT1	RUBBER BASE	RB1	GYP. BD	MATCH EXIST.	ACT1	
B	CORRIDOR	VCT	VCT1	RUBBER BASE	RB2	GYP. BD	P	ACT1/GYP	
C	CORRIDOR	EXIST VCT	PATCH AS REQ'D	RUBBER BASE	RB2	GYP. BD	P	NO CLG/P1	
E	CORRIDOR	VCT	VCT1	RUBBER BASE	RB2	GYP. BD	P	ACT1	
F	CORRIDOR	VCT	VCT1	RUBBER BASE	RB2	GYP. BD	P	NO CLG/P1	
L	CORRIDOR	CERAMIC TILE	CT1	CERAMIC TILE	CT2	CERAMIC TILE	CT2	ACT1	

FINISH NOTES

1. ALL FINISH TYPES (STYLE/COLOR/PATTERN) SHALL CONFORM TO THE STANDARD OF QUALITY INDICATED BY THE PROJECT MANUAL. FINAL STYLE/COLOR/PATTERN TO BE SELECTED BY ARCHITECT.
2. ALL CMU SURFACES SHALL BE PRIMED WITH INTERIOR & EXTERIOR BLOCK FILLER M88 INDUSTRIAL MAINTENANCE BY BENJAMIN MOORE. PRIOR TO FINISH PAINT APPLICATION.
3. ALL WINDOWS IN AREA OF WORK ARE TO HAVE NEW SHADES OR BLINDS SUPPLIED AND INSTALLED BY GC, (1) PER WINDOW UNIT. G.C. SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
4. NEW AND EXISTING DOOR FRAMES ASSOCIATED IN SCOPE OF WORK SHALL BE PREPPED AND PAINTED WITH 'BENJAMIN MOORE' LATEX SEMI-GLOSS PAINT BY GC. COLOR AS SELECTED BY ARCHITECT.
5. REFER TO FLOOR PLANS FOR TILE PATTERNS.
6. G.C. SHALL PREP/PRIME AND PAINT ALL SHEET METAL PIPE ENCLOSURES (INSTALLED BY MC). COLOR AS SELECTED BY ARCHITECT.
7. BEFORE PAINTING, CONCRETE SURFACES MUST CURE 30 DAYS, BLOCK AND PLASTER SURFACES MUST CURE FOR 30 DAYS.
8. ALL NEW WOOD WINDOW SILLS, MOLDING AND TRIM SHALL RECEIVE A "STAINED" FINISH AND RECEIVE (3) COATS OF 'BENWOOD' POLYURETHANE FINISH LOW LUSTER NO. 435 BY 'BENJAMIN MOORE' OR APPROVED EQUAL. STAIN COLOR AS SELECTED BY ARCHITECT. GC SHALL SUBMIT PHYSICAL COLOR SAMPLE FOR REVIEW AND APPROVAL.
9. ALL FINISHES SHALL BE PROVIDED AND INSTALLED BY GC UNLESS OTHERWISE NOTED. REFER TO SPEC SECTION 09900 FOR ADDITIONAL INFORMATION.
10. ALL INTERIOR FINISHES IN CORRIDOR SHALL BE CLASS 'A' RATED.
11. PATCH, REPAIR AND FINISH CEILING, WALLS, AND FLOOR @ POINTS OF DEMOLITION TO MATCH EXISTING ADJACENT. EXISTING FINISHES TO REMAIN.
12. SHOULD ANY FINISH MATERIALS BE DISCONTINUED BY MANUFACTURER, GC MUST REPLACE WITH CLOSEST MATCH AT NO ADDITIONAL COST, AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
13. REFER TO REFLECTED CEILING PLANS AND FINISH FLOOR PLANS FOR ADDITIONAL INFORMATION.
14. DOOR FRAMES TO BE PREPPED & PAINTED AS PER SPEC. COLOR AS SELECTED BY ARCHITECT.
15. G.C. SHALL PREP, PRIME & PAINT SHEETROCK CEILINGS UNLESS OTHERWISE NOTED FINISH AS PER SPEC. COLOR: WHITE- FLAT FINISH.
16. REFER TO FINISH FLOOR PLANS FOR TILE PATTERNS - THE TILE PATTERNS MAY NOT REPRESENT THE FINAL PATTERNS TO BE DESIGNED, INSTALLED & TURNED OVER TO OWNER. THE BID SHALL BE BASED ON THE TILE MIX & PERCENTAGES, AS INDICATED IN THE PROJECT MANUAL.
17. REFER TO REFLECTED CEILING PLANS, TOILET ROOM TILE PLANS, AND FINISHED FLOOR PLANS FOR ADDITIONAL FINISH INFORMATION.
18. GENERAL CONTRACTOR SHALL PERFORM A BOND TEST' IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION OF NEW V.C.T. FLOORING.
19. CONTRACTOR SHALL INSTALL PLANI/PATCH PLUS BY 'MAPEI' OR APPROVED EQUAL. OVER SUBSTRATE AND/OR CONCRETE SLAB TO PROVIDE A FLOOR SURFACE IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS AND AS SPECIFIED FOR INSTALLATION OF NEW FINISH FLOOR MATERIALS.

PRIME 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.

TYPICAL MOLDING NOTES

1. COORDINATE DEMOLITION AND PROPOSED DRAWINGS FOR EXTENT OF MOLDING REPLACEMENT IN THE EXISTING BUILDING. ALL MOLDING COMPONENTS AND PROFILES ARE INDICATED FOR REFERENCE ONLY.
2. EXISTING TRIM SHALL BE MAINTAINED WHERE INDICATED. WHERE NEW TRIM SHALL MATCH THE EXISTING TO REMAIN, THE SIZE AND PROFILE SHALL MATCH THE EXISTING - SPECIES MAY VARY.
3. CONTRACTOR SHALL PROVIDE SOLID BLOCKING AS REQUIRED TO SUPPORT ALL MOLDINGS AND TRIM WHETHER EXPLICITLY NOTED/SHOWN OR NOT.
4. ALL MOLDINGS TO BE EITHER MAPLE OR POPLAR AS SPECIFIED. ALL MOLDINGS SHALL BE PAINTED - COLOR BY ARCHITECT.
5. REFER TO SPECIFICATION SECTION 09900 FOR ADDITIONAL INFORMATION REGARDING PAINT FOR NEW/EXISTING MOLDINGS, PAINT FOR NEW/EXISTING PLASTER, CAULKING, REQUIRED PREPARATION WORK, AND APPLICATION PROCEDURES.

GYPSUM BOARD FINISHING

GENERAL CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF GYPSUM ASSOCIATION TRADE PUBLICATION GA-214-96 'RECOMMENDED LEVELS OF GYPSUM BOARD FINISH' & 3.06 OF SPECIFICATION SECTION 09250.

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

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.

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.

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.

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

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.)

ABBREVIATIONS:

ACT.....ACOUSTIC CEILING TILE	CWT.....CERAMIC WALL TILE	MS.....MARBLE SADDLE (ADA)	PFT.....PORCELAIN FLOOR TILE	RT.....RUBBER TILE	VINYL.....SLIP-RESISTANT FLOORING
CPT.....CARPET	EPOXY.....EPOXY TERRAZZO	NA.....NOT APPLICABLE	PLAST.....PLASTER	TERR.....TERRAZZO	WD.....WOOD
C.M.U. .....CONCRETE MASONRY UNIT	GTW .....GLAZED TILE WAINSCOT	NIC .....NOT IN CONTRACT	RB .....RUBBER COVE BASE	VCT .....VINYL COMPOSITION TILE	WM .....WALK OFF MAT
CONC. .....CONCRETE	GYP .....GYPSUM BOARD	PCB .....PORCELAIN TILE COVE BASE	RF.....RUBBER FLOORING	VET .....VINYL ENHANCED TILE	

REV.	DATE	ITEM

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BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

FINISH SCHEDULE

DWG/TITLE

DRWG. BY: C.M.
CHK. BY: G.E.O.

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
www.BBSARCHITECTURE.COM

SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE FINISH SCHEDULE

SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A9.01 HSMS



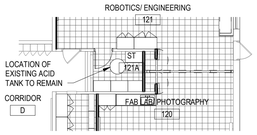
PROPOSED FINISH FLOOR PLAN

SCALE: 3/32" = 1'-0"

FLOOR TYPES

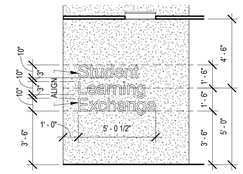
REFER TO FINISH SCHED FOR MORE INFO

VCT | CPT | CT | LVT



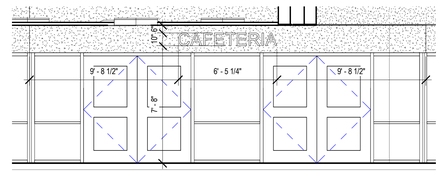
3 ADD/ALT #2 - FINISH FLOOR PLAN

SCALE: 3/32" = 1'-0"



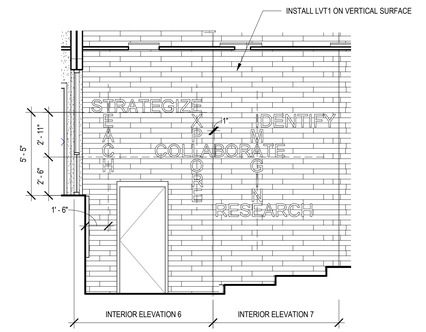
4 SLE SIGNAGE

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



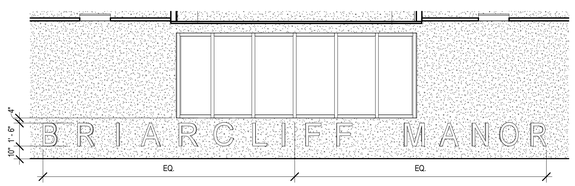
5 CAFETERIA SIGNAGE

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



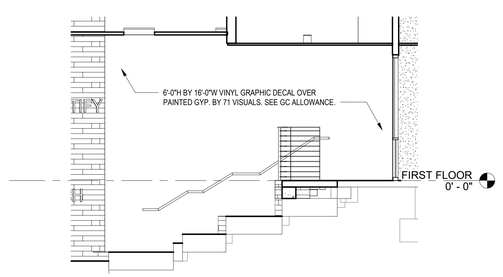
6A AMPHITHEATER SIGNAGE

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



7 BRIARCLIFF MANOR SIGNAGE

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



8 AMPHITHEATER GRAPHIC

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

REV.	DATE	ITEM
1		

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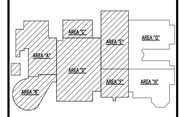

KEY PLAN

NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

FINISH FLOOR PLAN

PROJECT | DWG TITLE

DRWG. BY: C.M.
CHK. BY: G.E.O.

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ALBANY
NEW YORK 12205
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PATCHOGUE
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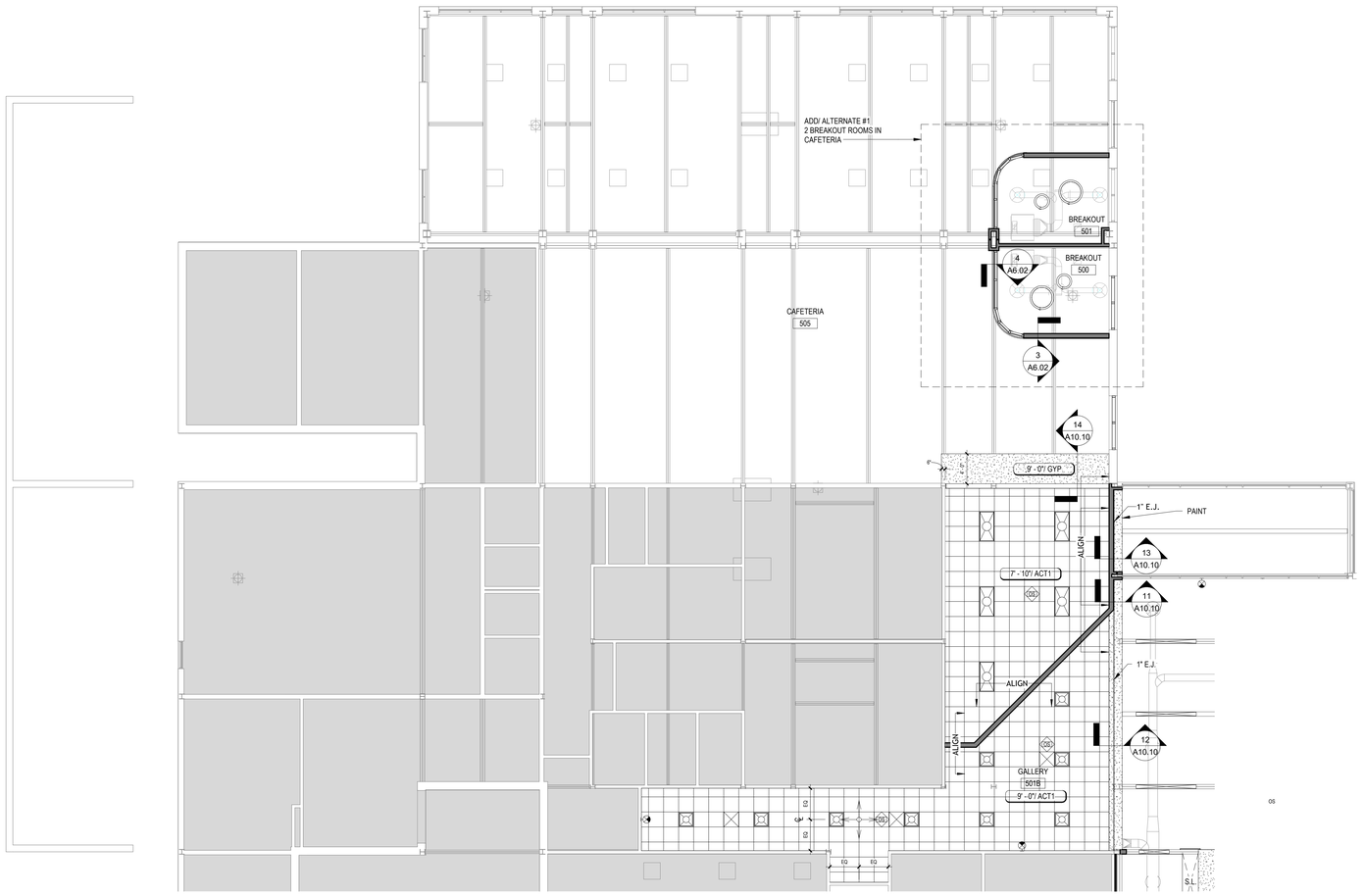
DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE FINISH FLOOR PLAN

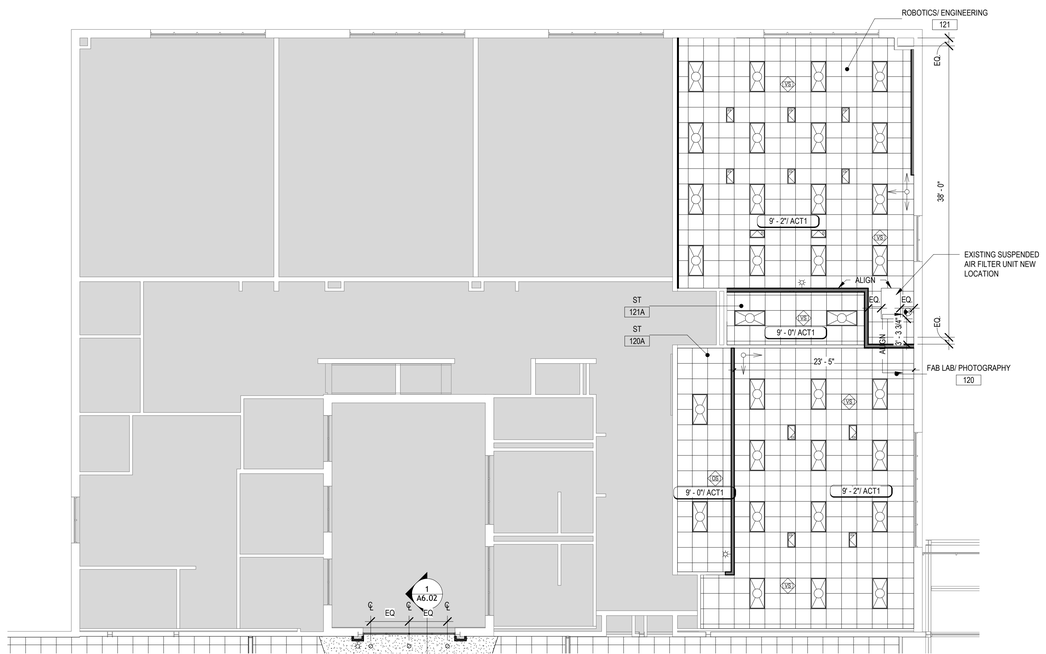
SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A9.02 | HSMS



1 FIRST FLOOR REFLECTED CEILING PLAN - AREA A

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



2 FIRST FLOOR REFLECTED CEILING PLAN - AREA C

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

SYMBOL LEGEND

NAME / No. / x'-x"/ATx	ROOM TAG, CEILING TILE TYPE and FINISH CEILING ELEVATION (ABOVE FINISH FLOOR)
NO CEILING (CLG)	OPEN TO STRUCTURE AND DECK ABOVE - PAINT (G.C.)
	NEW 2'x2' SUSPENDED ACOUSTICAL CEILING AND GRID - SEE FINISH SCHEDULE (G.C.)
	EXISTING 2'x2' SUSPENDED ACOUSTICAL CEILING AND GRID
	GYPSUM BOARD SOFFIT OVER METAL FRAMING - TAPE, SPACKLE & PAINT (G.C.)
	RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	LINEAR PENDANT LIGHT FIXTURE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	PENDANT LIGHT FIXTURE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	EXIT SIGN. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
SPKR	CEILING MOUNTED SPEAKER. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
S H	SMOKE/HEAT DETECTORS. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	OCCUPANCY SENSOR. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	CEILING GRILLE/REGISTER. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFO (M.C.)
	CEILING MOUNTED UNIT VENTILATOR. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFO (M.C.)
AP	16" x 16" ACCESS PANEL. TO BE PAINTED SAME COLOR AS GYP. BD. CEILING.
	24" x 12" CORD REEL PLENUM RATED ENCLOSURE. REFER TO DETAIL 17/A10.10 FOR MORE INFO.
	COMPACT CEILING FAN. SEE MECHANICAL DRAWINGS FOR MORE INFO.
S.L.	PROPOSED SKYLIGHT. REFER TO A3.02
OS DS OS	OCCUPANCY SENSOR/VACANCY SENSOR/ DAYLIGHT SENSOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (E.C.)
	WALL MOUNTED STROBE NOTIFICATION DEVICE. REFER TO ELECTRICAL DRAWINGS FOR ADDITONAL INFO. (E.C.)
C.J.	CEILING DRYWALL VEE CONTROL JOINT. PAINT
	MOUNTED EMERGENCY LIGHT DEVICE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (E.C)

TYPICAL REFLECTED CEILING NOTES

1. ALL CEILING TILES TO BE AT-1, U.O.N. REFER TO FINISH SCHEDULE FOR ADD'L INFO.
2. ALL CEILING GRID TO BE 15/16" PRELUDE BY "ARMSTRONG", U.O.N.
3. CEILING PLANS MAY NOT INDICATE ALL MECHANICAL AND/OR ELECTRICAL CEILING ITEMS, REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR ADD'L INFO.
4. ALL FIXTURES SHALL BE CENTERED WITHIN THE GRID, U.O.N.
5. SUPPORT OF ALL ARCHITECTURAL COMPONENTS (I.E, HUNG CEILING SYSTEMS, GRIDS, ETC.) SHALL BE INSTALLED TO WITHSTAND SEISMIC LOADS IN ACCORDANCE WITH THE IBC SECTION 1621. FOR SEISMIC DESIGN CATEGORY 'B' AND IMPORTANCE FACTOR 1.0. BASED UPON THE ABOVE, NO SPECIFIC SEISMIC RESTRAINTS ARE REQUIRED.
6. ALL ACOUSTICAL HUNG CEILING GRID SYSTEMS SHALL BE INSTALLED IN CONFORMANCE WITH ASTM, C636 "STANDARD PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS" REQUIREMENTS.
7. ALL LIGHTING FIXTURES REMAIN EXCEPT WHERE NOTED. ELECTRICAL CONTRACTOR TO DE-ENERGIZE DURING DEMOLITION AND INSTALLATION OF NEW CEILING. ELECTRICAL CONTRACTOR TO RE-INSTALL ALL OTHER ELECTRICAL DEVICES (SPEAKERS, SMOKE DETECTORS, FIRE ALARM STROBES, ETC.) WHETHER NOTED ON PLAN OR NOT. REFER TO ELECTRICAL DRAWINGS FOR ADD'L INFO.
8. CEILING GRID SHALL BE ARRANGED TO BE SPACED EQUALLY IN EACH DIRECTION W/ NO TILE LESS THAN 6" UNLESS OTHERWISE REQUIRED.
9. PROVIDE CEILING EXPANSION JOINT AT ALL NEW TO EXISTING INTERACTIONS AND WHERE INDICATED ON PLAN. REFER TO WALL SECTIONS AND SPECIFICATIONS.
10. ALL AREAS NOTED AS 'OPEN' AND/OR 'NO CEILING (CLG)' SHALL BE PAINTED. (INCLUDING DECK, STRUCTURE, DUCTWORK, ETC.)

FIRE STOP/ACOUSTICAL SEALING NOTES

1. ALL PIPING PENETRATIONS THROUGH CORRIDOR WALLS AS WELL AS ALL FIRE RATED WALLS (SUCH AS STORAGE ROOMS, CLOSETS, BOILER ROOMS, ETC) AND ALL OTHER FIRE RATED FLOORS OR STRUCTURES SHALL BE FIRE STOPPED.
2. ALL PENETRATIONS THROUGH ALL OTHER WALLS, FLOORS, ETC. (I.E. CLASSROOMS AND LIBRARIES) SHALL BE ACOUSTICALLY SEALED IN ACCORDANCE WITH ANSI S12.60-2002 REQUIREMENTS. THE SEALANT MATERIALS SHALL BE " SPEC-SEAL, SMOKE AND SOUND ACOUSTIC SEALANT" AS MANUFACTURED BY STI, OR ARCHITECT APPROVED EQUAL. SEALANT SHALL MEET ASTMC919 FOR SEALANTS IN ACOUSTICAL APPLICATIONS.
3. 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.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED FOR APPROVAL BY ARCHITECT.
5. FIRESTOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS.

FLOOR PLAN LEGEND

	AREA OF CONTRACT SCOPE

REV.	DATE	ITEM
1		

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PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

REFLECTED CEILING PLANS - AREA A & C

DRWG. BY: J.N.
CHK. BY: G.E.O.

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
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PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE REFLECTED CEILING PLANS - AREA A & C

SCALE: AS NOTED
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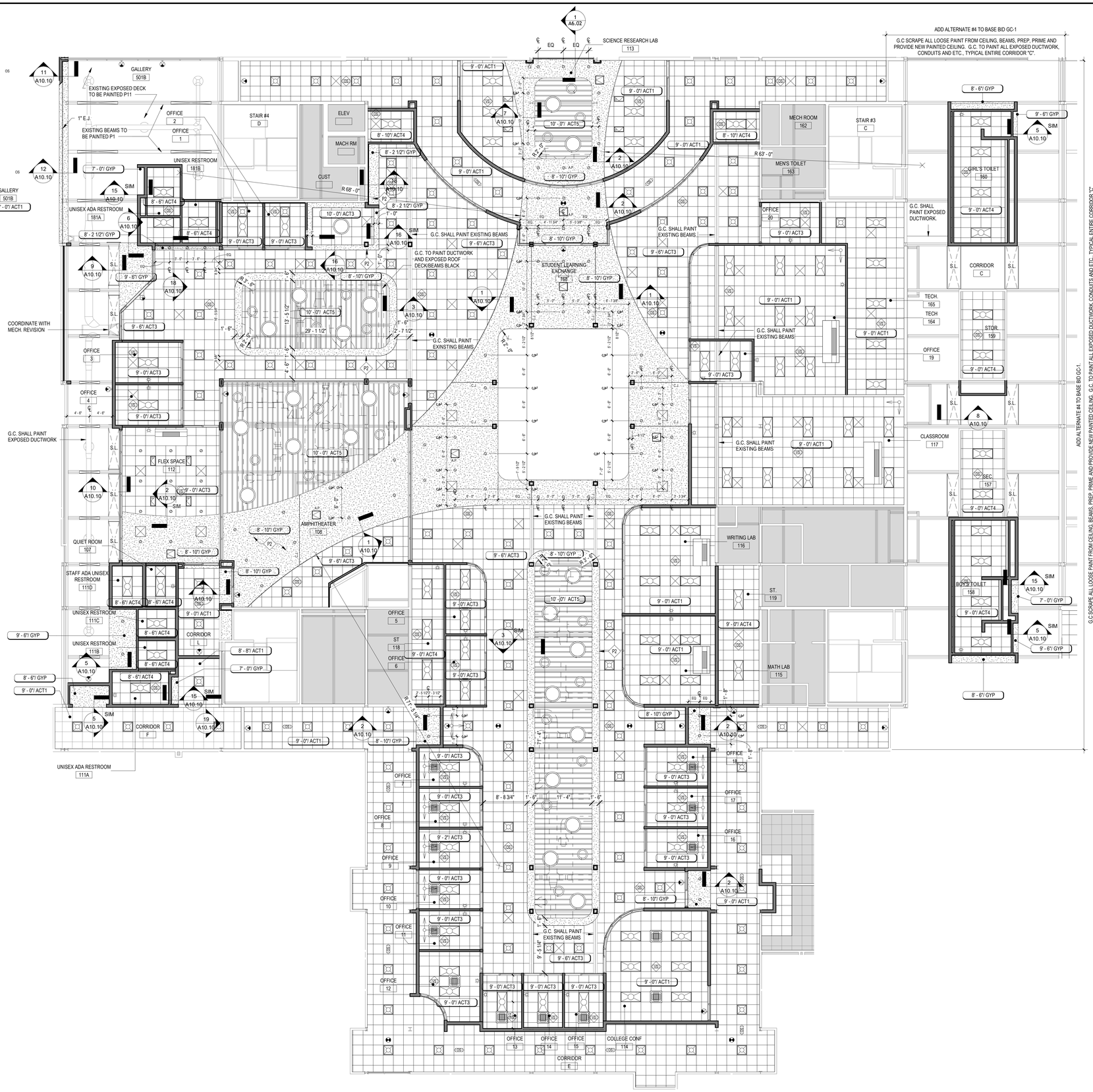
FILE NO. 21-274C

A10.01 | HSMS



1 FIRST FLOOR REFLECTED CEILING PLAN - AREA D

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

SYMBOL LEGEND

NAME No. x'-x"/ATx	ROOM TAG, CEILING TILE TYPE and FINISH CEILING ELEVATION (ABOVE FINISH FLOOR)
NO CEILING (CLG)	OPEN TO STRUCTURE AND DECK ABOVE - PAINT (G.C.)
	NEW 2'x2' SUSPENDED ACOUSTICAL CEILING AND GRID - SEE FINISH SCHEDULE (G.C.)
	EXISTING 2'x2' SUSPENDED ACOUSTICAL CEILING AND GRID
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FLOOR PLAN LEGEND

AREA NOT IN CONTRACT U.O.N.

REV.	DATE	ITEM
1		

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BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE
REFLECTED CEILING FIRST FLOOR PLAN - AREA D

DRWG. BY: J.N.
CHK. BY: G.E.O.

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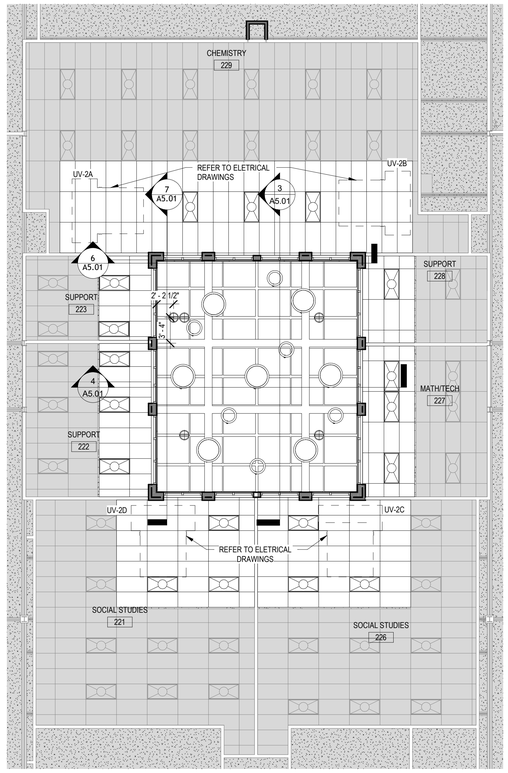
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
www.BBSARCHITECTURE.COM

SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE REFLECTED CEILING FIRST FLOOR PLAN - AREA D

SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A10.02 HSMS

FLOOR PLAN LEGEND	
	AREA NOT IN CONTRACT U.O.N.



1 SECOND FLOOR REFLECTED CEILING PLAN - AREA D

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

SYMBOL LEGEND

NAME / No. / x'-x"/ATx	ROOM TAG, CEILING TILE TYPE and FINISH CEILING ELEVATION (ABOVE FINISH FLOOR)
NO CEILING (CLG)	OPEN TO STRUCTURE AND DECK ABOVE - PAINT (G.C.)
	NEW 2'x2' SUSPENDED ACOUSTICAL CEILING AND GRID - SEE FINISH SCHEDULE (G.C.)
	EXISTING 2'x2' SUSPENDED ACOUSTICAL CEILING AND GRID
	GYPSUM BOARD SOFFIT OVER METAL FRAMING - TAPE, SPACKLE & PAINT (G.C.)
	RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	LINEAR PENDANT LIGHT FIXTURE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	PENDANT LIGHT FIXTURE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	EXIT SIGN. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
SPKR	CEILING MOUNTED SPEAKER. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
S H	SMOKE/HEAT DETECTORS. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	OCCUPANCY SENSOR. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	CEILING GRILLE/REGISTER. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFO (M.C.)
	CEILING MOUNTED UNIT VENTILATOR. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFO (M.C.)
AP	16" x 16" ACCESS PANEL. TO BE PAINTED SAME COLOR AS GYP. BD. CEILING.
	24" x 12" CORD REEL PLENUM RATED ENCLOSURE. REFER TO DETAIL 17/A10.10 FOR MORE INFO.
	COMPACT CEILING FAN. SEE MECHANICAL DRAWINGS FOR MORE INFO.
SKYLIGHT	PROPOSED SKYLIGHT. REFER TO A3.02
OS DS DS OS	OCCUPANCY SENSOR/VACANCY SENSOR/ DAYLIGHT SENSOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (E.C.)
	WALL MOUNTED STROBE NOTIFICATION DEVICE. REFER TO ELECTRICAL DRAWINGS FOR ADDITONAL INFO. (E.C.)
C.J.	CEILING DRYWALL VEE CONTROL JOINT. PAINT
	MOUNTED EMERGENCY LIGHT DEVICE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFO. (E.C)

TYPICAL REFLECTED CEILING NOTES

1. ALL CEILING TILES TO BE AT-1, U.O.N. REFER TO FINISH SCHEDULE FOR ADD'L INFO.
2. ALL CEILING GRID TO BE 15/16" PRELUDE BY "ARMSTRONG", U.O.N.
3. CEILING PLANS MAY NOT INDICATE ALL MECHANICAL AND/OR ELECTRICAL CEILING ITEMS, REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR ADD'L INFO.
4. ALL FIXTURES SHALL BE CENTERED WITHIN THE GRID, U.O.N.
5. SUPPORT OF ALL ARCHITECTURAL COMPONENTS (I.E, HUNG CEILING SYSTEMS, GRIDS, ETC.) SHALL BE INSTALLED TO WITHSTAND SEISMIC LOADS IN ACCORDANCE WITH THE IBC SECTION 1621, FOR SEISMIC DESIGN CATEGORY 'B' AND IMPORTANCE FACTOR 1.0. BASED UPON THE ABOVE, NO SPECIFIC SEISMIC RESTRAINTS ARE REQUIRED.
6. ALL ACOUSTICAL HUNG CEILING GRID SYSTEMS SHALL BE INSTALLED IN CONFORMANCE WITH ASTM, C636 "STANDARD PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS" REQUIREMENTS.
7. ALL LIGHTING FIXTURES REMAIN EXCEPT WHERE NOTED. ELECTRICAL CONTRACTOR TO DE-ENERGIZE DURING DEMOLITION AND INSTALLATION OF NEW CEILING. ELECTRICAL CONTRACTOR TO RE-INSTALL ALL OTHER ELECTRICAL DEVICES (SPEAKERS, SMOKE DETECTORS, FIRE ALARM STROBES, ETC.) WHETHER NOTED ON PLAN OR NOT. REFER TO ELECTRICAL DRAWINGS FOR ADD'L INFO.
8. CEILING GRID SHALL BE ARRANGED TO BE SPACED EQUALLY IN EACH DIRECTION W/ NO TILE LESS THAN 6" UNLESS OTHERWISE REQUIRED.
9. PROVIDE CEILING EXPANSION JOINT AT ALL NEW TO EXISTING INTERACTIONS AND WHERE INDICATED ON PLAN. REFER TO WALL SECTIONS AND SPECIFICATIONS.
10. ALL AREAS NOTED AS 'OPEN' AND/OR 'NO CEILING (CLG)' SHALL BE PAINTED. (INCLUDING DECK, STRUCTURE, DUCTWORK, ETC.)

FIRE STOP/ACOUSTICAL SEALING NOTES

1. ALL PIPING PENETRATIONS THROUGH CORRIDOR WALLS AS WELL AS ALL FIRE RATED WALLS (SUCH AS STORAGE ROOMS, CLOSETS, BOILER ROOMS, ETC) AND ALL OTHER FIRE RATED FLOORS OR STRUCTURES SHALL BE FIRE STOPPED.
2. ALL PENETRATIONS THROUGH ALL OTHER WALLS, FLOORS, ETC. (I.E. CLASSROOMS AND LIBRARIES) SHALL BE ACOUSTICALLY SEALED IN ACCORDANCE WITH ANSI S12.60-2002 REQUIREMENTS. THE SEALANT MATERIALS SHALL BE " SPEC-SEAL, SMOKE AND SOUND ACOUSTIC SEALANT" AS MANUFACTURED BY STI, OR ARCHITECT APPROVED EQUAL. SEALANT SHALL MEET ASTMC919 FOR SEALANTS IN ACOUSTICAL APPLICATIONS.
3. 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.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED FOR APPROVAL BY ARCHITECT.
5. FIRESTOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS.

REV.	DATE	ITEM

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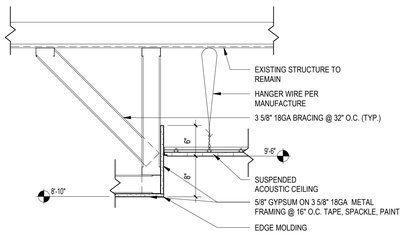
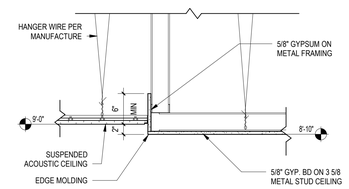
A10.03 | HSMS



1 CEILING DETAIL 1
SCALE: 1" = 1'-0"



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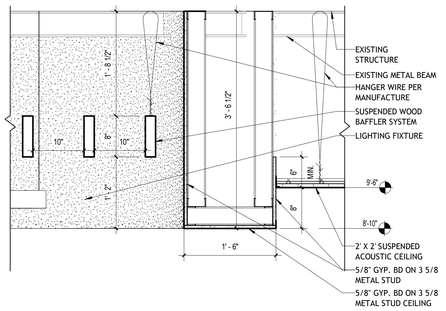

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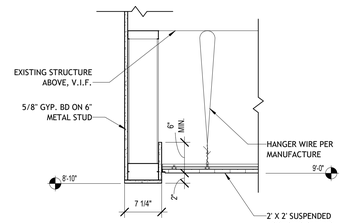

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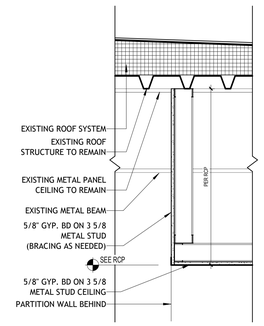

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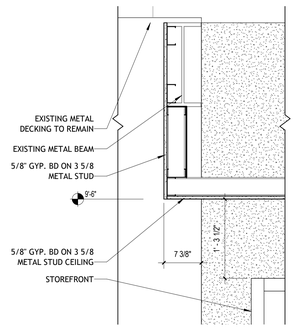

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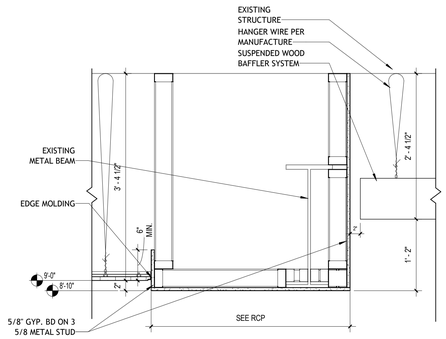

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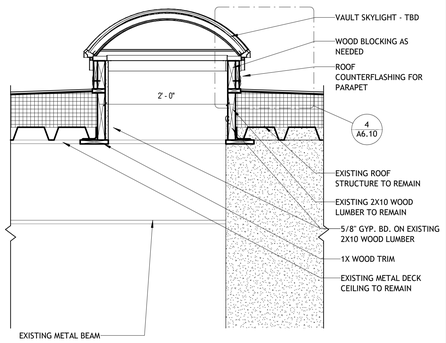

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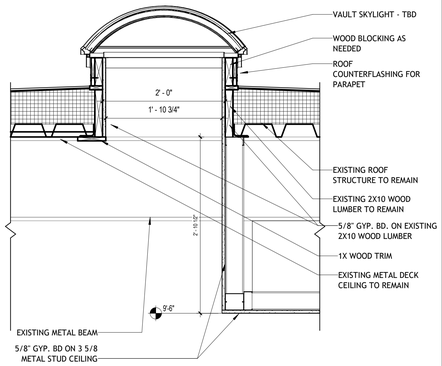

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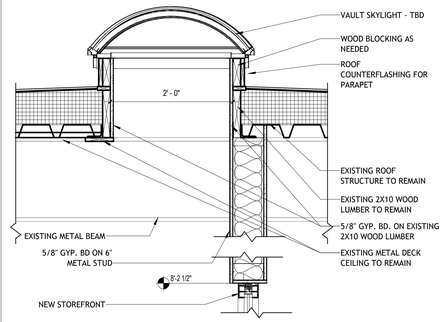
SCALE: 1" = 1'-0"



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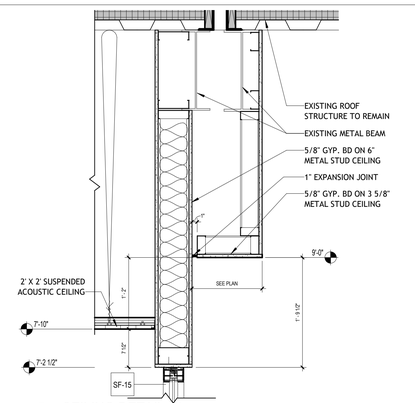

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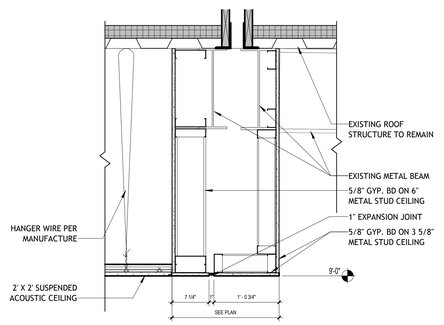

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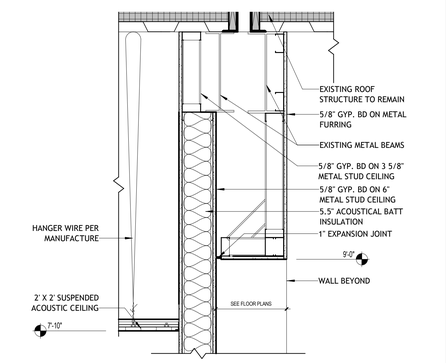

13 CEILING DETAIL 13
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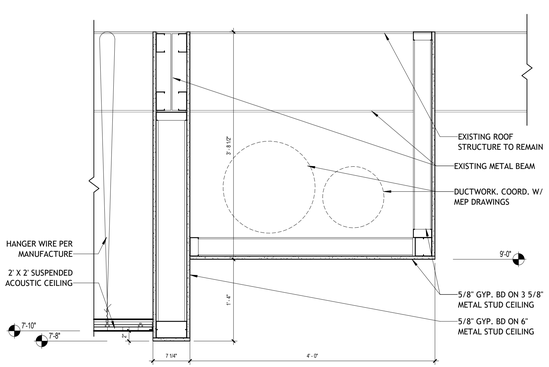

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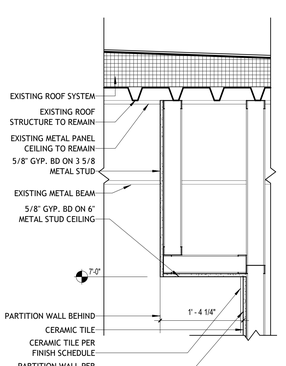
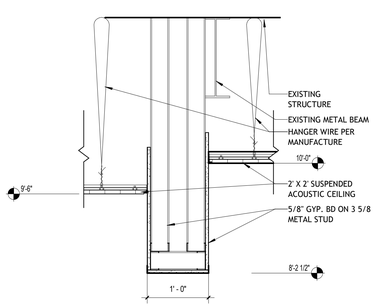
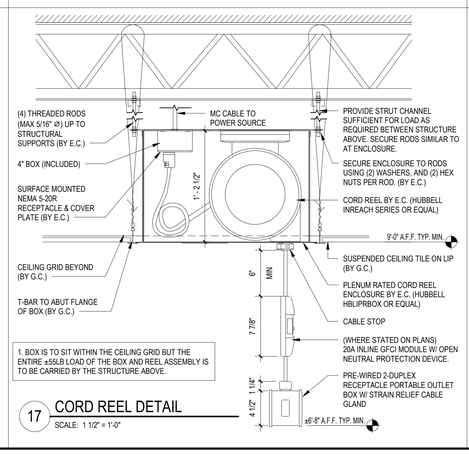


15 CEILING DETAIL 15
SCALE: 1" = 1'-0"

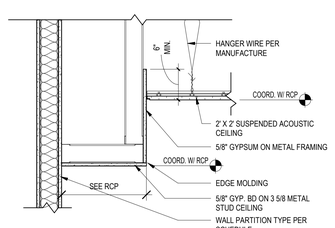


16 CEILING DETAIL 16
SCALE: 1" = 1'-0"

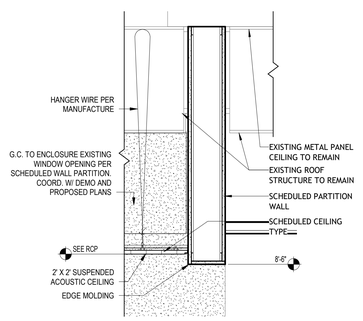


1. BOX IS TO SIT WITHIN THE CEILING GRID BUT THE ENTIRE ±55LB LOAD OF THE BOX AND REEL ASSEMBLY IS TO BE CARRIED BY THE STRUCTURE ABOVE.

17 CORD REEL DETAIL
SCALE: 1 1/2" = 1'-0"



18 CEILING DETAIL 18
SCALE: 1" = 1'-0"



19 CEILING DETAIL 19
SCALE: 1" = 1'-0"

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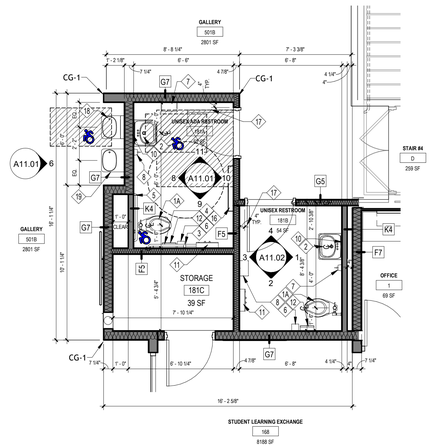
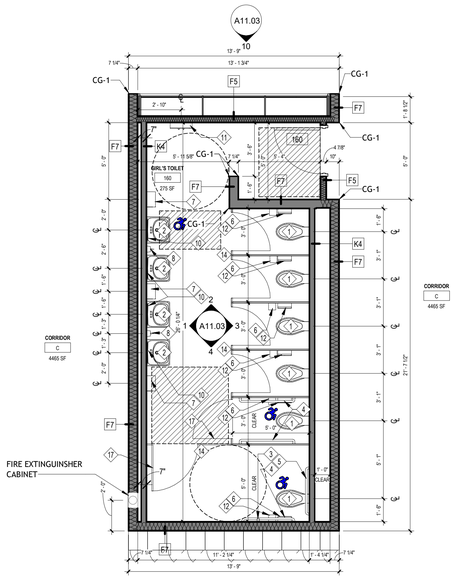
A10.10 | HSMS



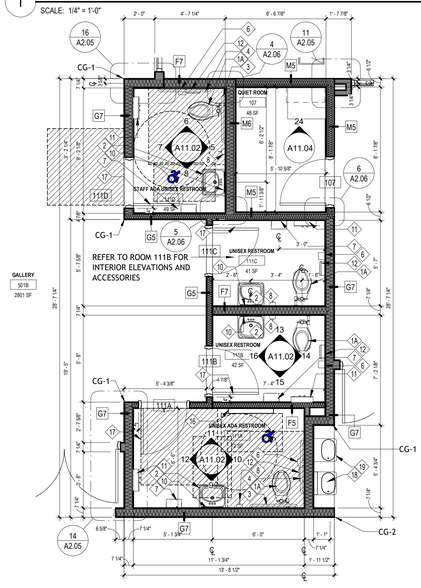
1 ENLARGED PLAN - AREA D - UNISEX RESTROOM

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



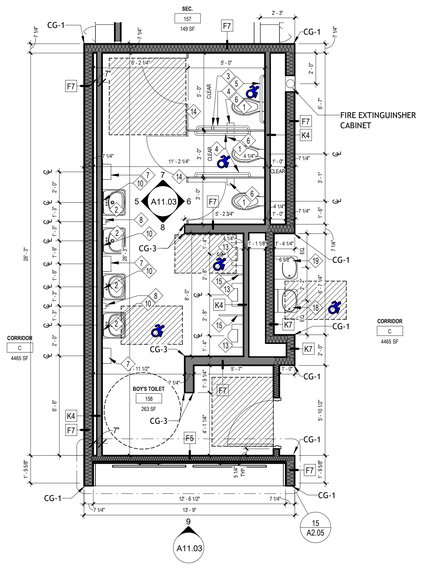
3 ENLARGED PLAN - AREA D - GILR'S RESTROOM

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



2 ENLARGED PLAN AREA D - RESTROOMS & QUIET ROOM AREA

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



4 ENLARGED PLAN - AREA D - BOY'S RESTROOM

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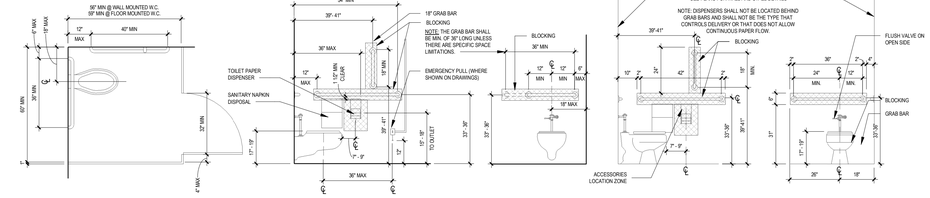
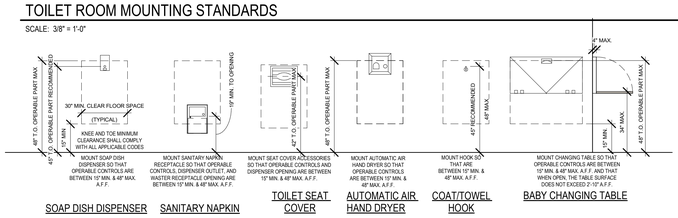


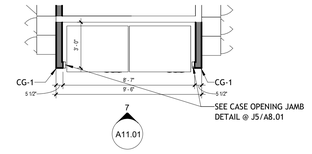
TOILET ROOM MOUNTING STANDARDS

SCALE: 3/8" = 1'-0"



ADA - ADA MOUNTING HEIGHTS FOR RESTROOM ACCESSORIES

SCALE: 3/8" = 1'-0"

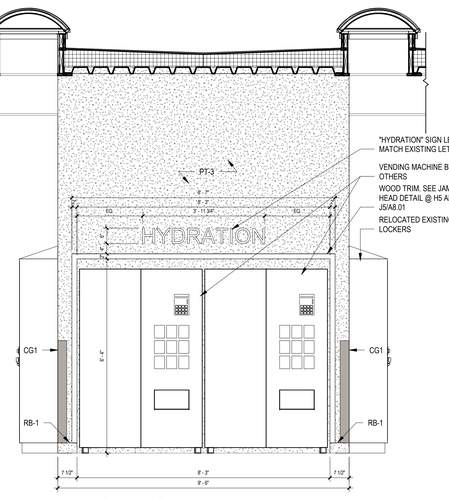


5 ENLARGED PLAN AREA D - VENDING POD

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

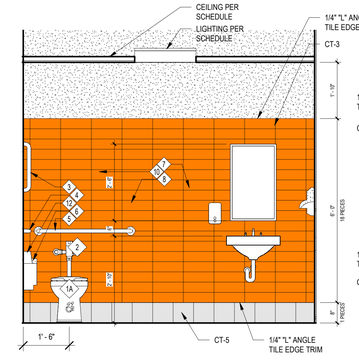
6 DRINKING FOUNTAIN INTERIOR ELEVATION - TYPICAL

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



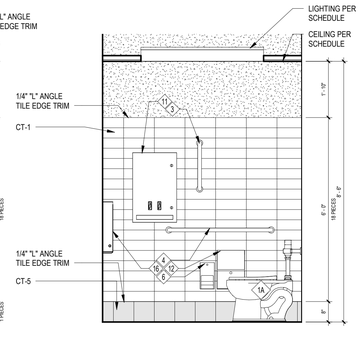
7 VENDING POD - INTERIOR ELEVATION

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



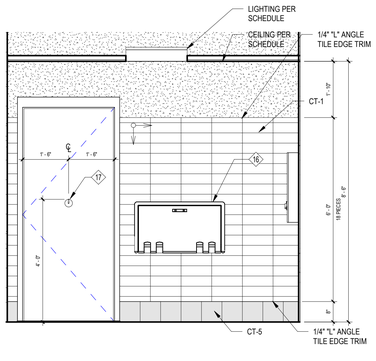
8 UNISEX ADA RESTROOM 181A - INTERIOR ELEVATION 1

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



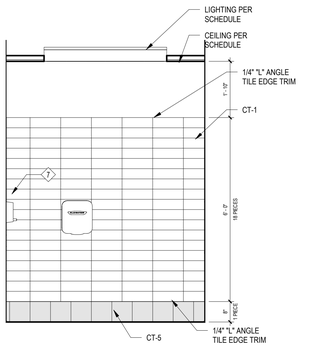
9 UNISEX ADA RESTROOM 181A - INTERIOR ELEVATION 2

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



10 UNISEX ADA RESTROOM 181A - INTERIOR ELEVATION 3

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



11 UNISEX ADA RESTROOM 181A - INTERIOR ELEVATION 4

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

REV.	DATE	ITEM

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SYMBOL DENOTES ADA COMPLIANCE PUMBLING FIXTURE

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6. OWNER TO FURNISH AND G.C. TO INSTALL NEW TOILET PAPER DISPENSER.
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9. P.C. TO FURNISH AND INSTALL NEW FLOOR DRAINS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
10. G.C. TO FURNISH AND INSTALL NEW FLAT MIRROR.
11. G.C. TO FURNISH AND INSTALL NEW SANITARY NAPKIN & TAMPON DISPENSER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. G.C. TO FURNISH AND INSTALL NEW SANITARY NAPKIN DISPOSAL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. P.C. TO FURNISH AND INSTALL NEW URINAL AND FLUSHOMETER.
14. G.C. TO FURNISH AND INSTALL ALL TOLIET PARTITION WALLS, DOORS AND HARDWARE.
15. G.C. TO FURNISH AND INSTALL ALL URINAL PARTITION WALLS.
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17. G.C. TO FURNISH AND INSTALL COAT/ROBE HOOK. BRADLEY CONCEALED MOUNTING CHROME-PLATED ROBE HOOK, ON BACK OF DOOR.
18. ADA DRINKING WATER FOUNTAIN WITH BOTTLE REFILLING STATION
19. DRINKING WATER FOUNTAIN STATION

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT
ENLARGED RESTROOM PLANS & ELEVATIONS
DWGTITLE

BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
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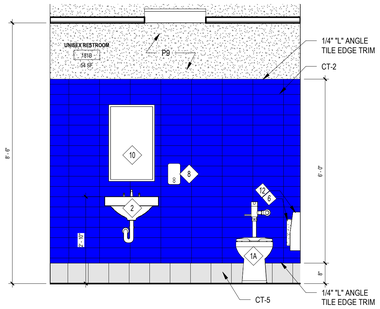
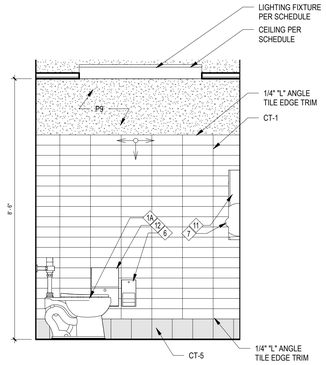
DRWG. BY: J.N.
CHK. BY: G.E.O.

SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE ENLARGED RESTROOM PLANS & ELEVATIONS
SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A11.01 | HSMS



1 UNISEX RESTROOM 181B - INTERIOR ELEVATION 1
SCALE: 1/2" = 1'-0"



2 UNISEX RESTROOM 181B - INTERIOR ELEVATION 2
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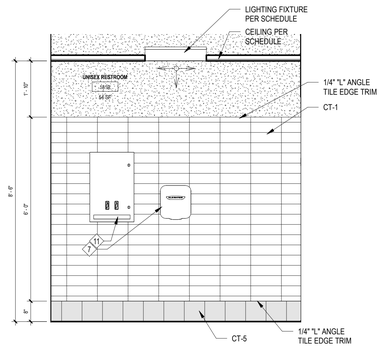

3 UNISEX RESTROOM 181B - INTERIOR ELEVATION 3
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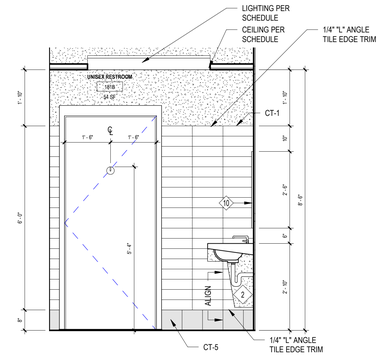

4 UNISEX RESTROOM 181B - INTERIOR ELEVATION 4
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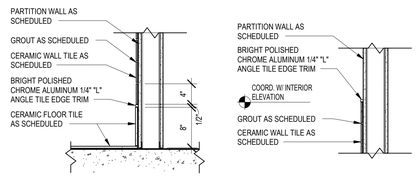
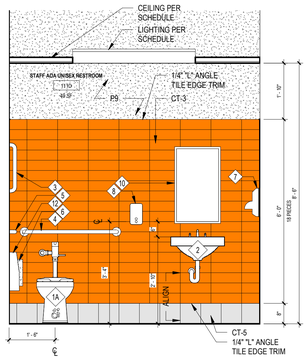
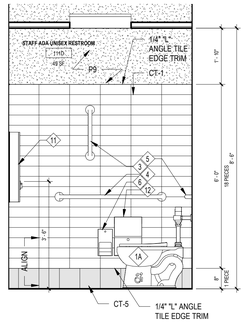


17 TILE TRIM DETAILS
SCALE: 1" = 1'-0"



5 STAFF ADA RESTROOM 111D - INTERIOR ELEVATION 1
SCALE: 1/2" = 1'-0"



6 STAFF ADA RESTROOM 111D - INTERIOR ELEVATION 2
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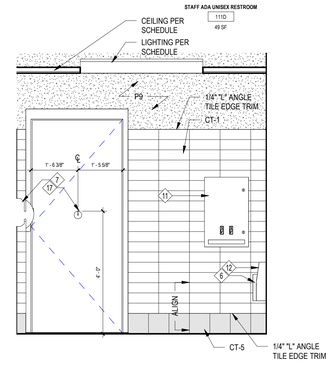

7 STAFF ADA RESTROOM 111D - INTERIOR ELEVATION 3
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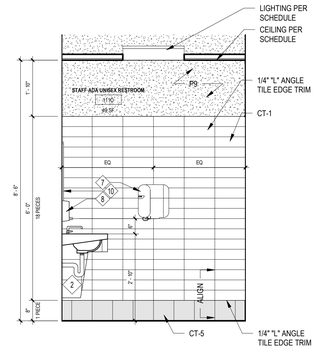

8 STAFF ADA RESTROOM 111D - INTERIOR ELEVATION 4
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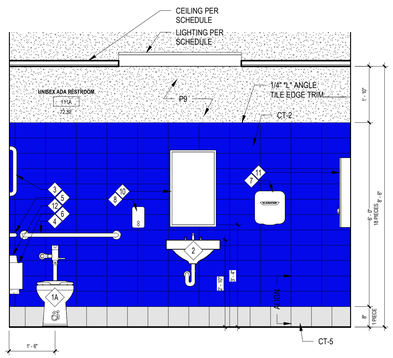
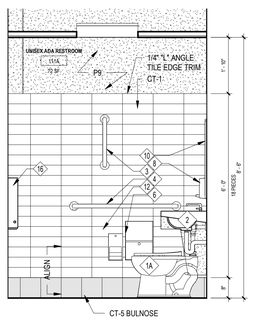


9 UNISEX ADA RESTROOM 111A - INTERIOR ELEVATION 1
SCALE: 1/2" = 1'-0"



10 UNISEX ADA RESTROOM 111A - INTERIOR ELEVATION 2
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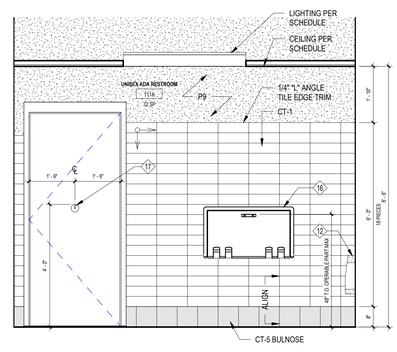

11 UNISEX ADA RESTROOM 111A - INTERIOR ELEVATION 3
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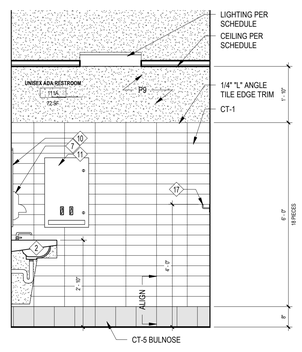

12 UNISEX ADA RESTROOM 111A - INTERIOR ELEVATION 4
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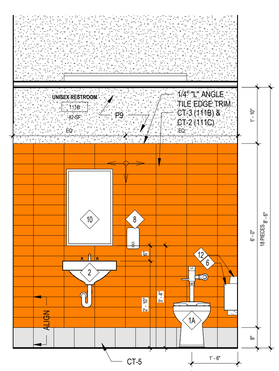

13 UNISEX RESTROOM 111B - INTEIRIOR ELEVATION 1
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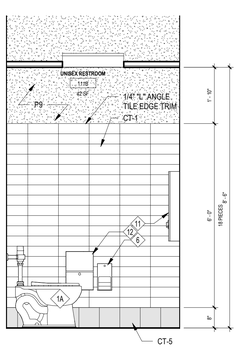

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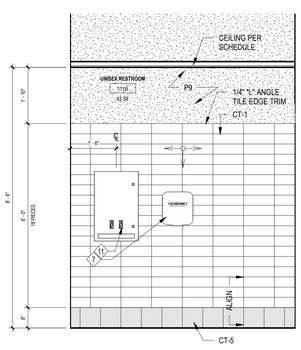

15 UNISEX RESTROOM 111B - INTERIOR ELEVATION 3
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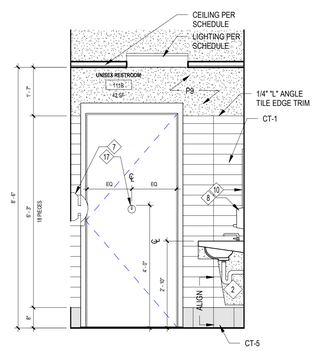

16 UNISEX RESTROOM 111B - INTERIOR ELEVATION 4
SCALE: 1/2" = 1'-0"

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REV.	DATE	ITEM

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PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
ENLARGED RESTROOM ELEVATIONS

DRWG. BY: Author
CHK. BY: Checker

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ALBANY
NEW YORK 12205
T. 518.621.7650
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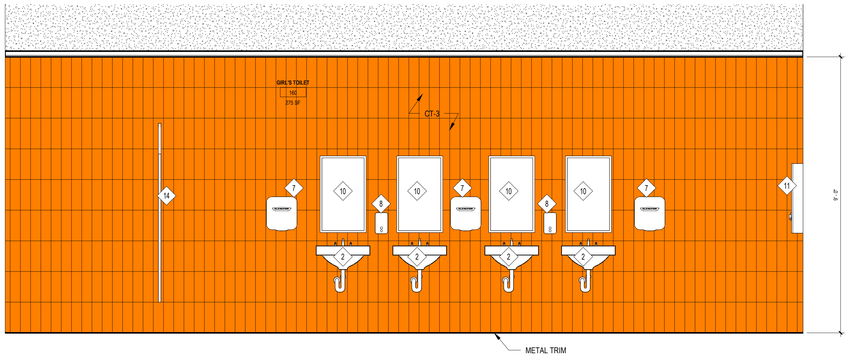
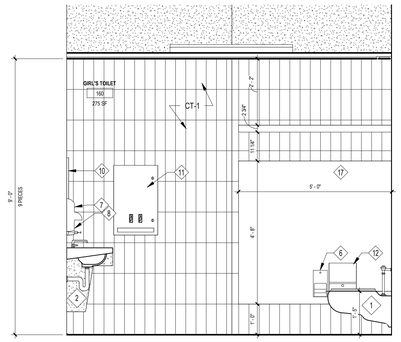
SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR U.F.S.D.
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	ENLARGED RESTROOM ELEVATIONS
SCALE:	AS NOTED
DATE:	-
BID P/U DATE:	11/14/2022
FILE NO.	21-274C

A11.02 HSMS



1 GIRL'S RESTROOM - INTERIOR ELEVATION 1
SCALE: 1/2" = 1'-0"



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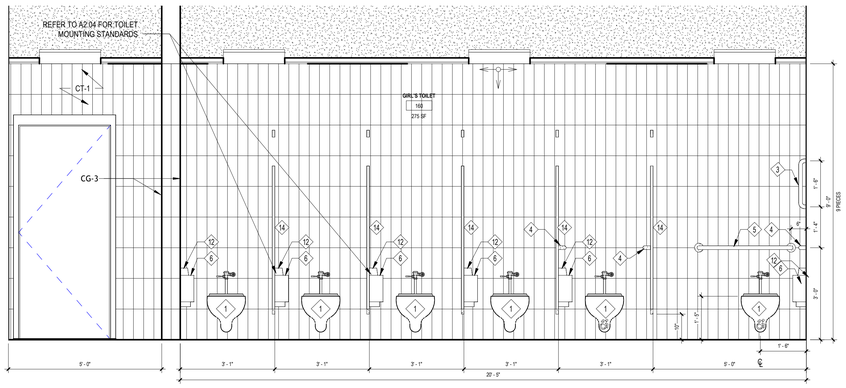
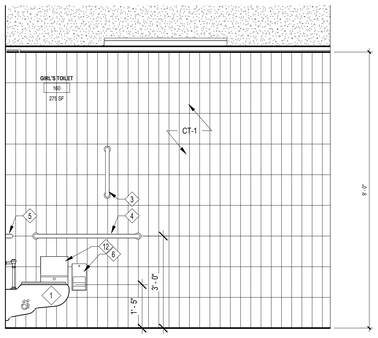


3 GIRL'S RESTROOM - INTERIOR ELEVATION 3
SCALE: 1/2" = 1'-0"



4 GIRL'S RESTROOM - INTERIOR ELEVATION 4
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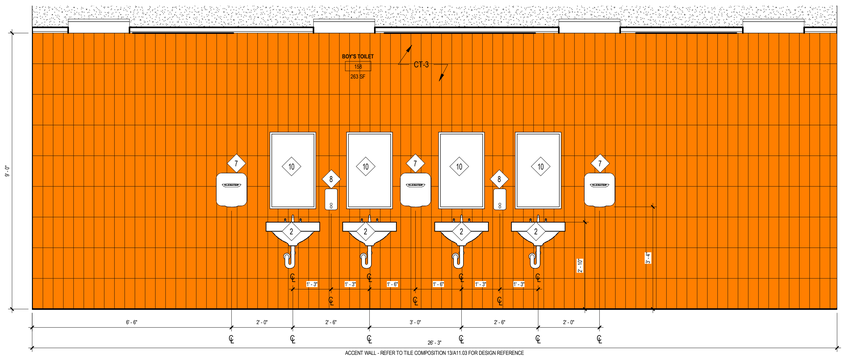
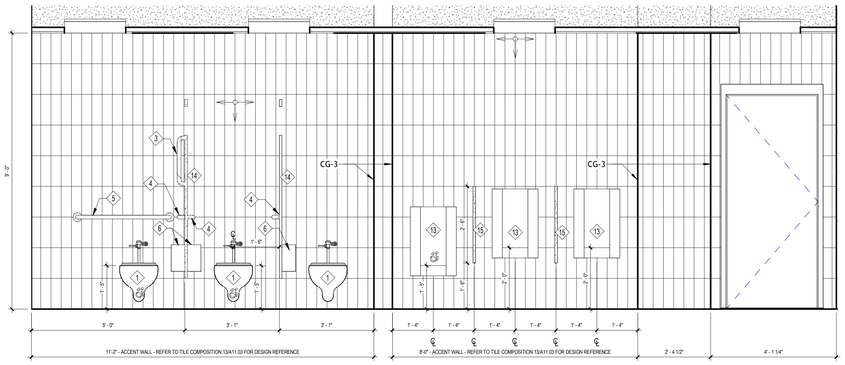


5 BOY'S RESTROOM - INTERIOR ELEVATION 4
SCALE: 1/2" = 1'-0"



6 BOY'S RESTROOM - INTERIOR ELEVATION 2
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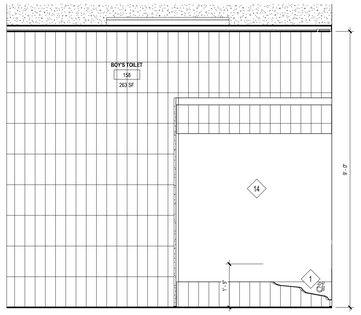
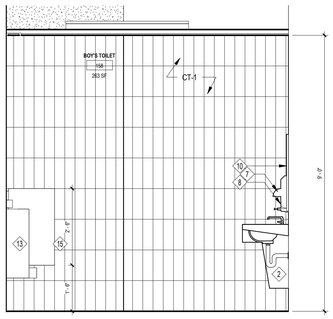
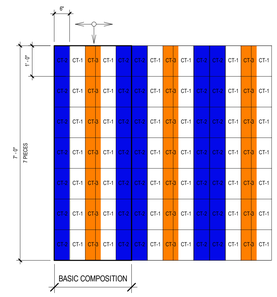


7 BOY'S RESTROOM - INTERIOR ELEVATION 1
SCALE: 1/2" = 1'-0"



8 BOY'S RESTROOM - INTERIOR ELEVATION 3
SCALE: 1/2" = 1'-0"



13 TILE COMPOSITION - REFERENCE ELEVATION
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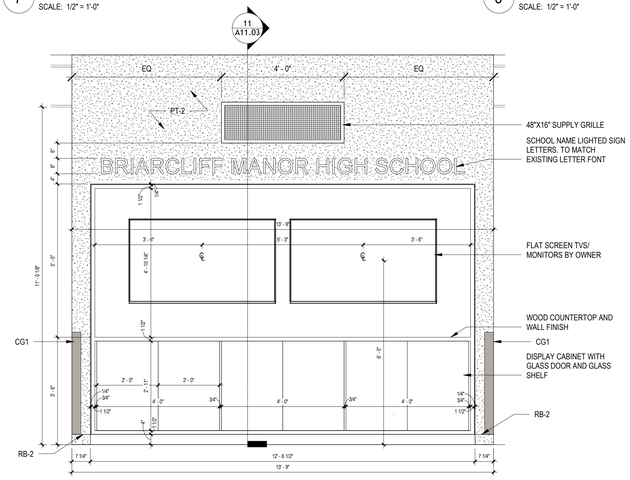
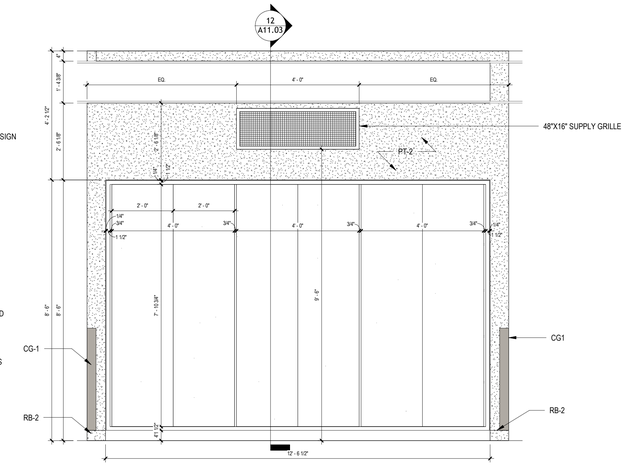


9 ENTRANCE DISPLAY - INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



10 CORRIDOR C DISPLAY - INTERIOR ELEVATION
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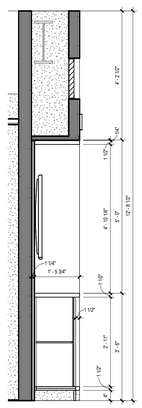
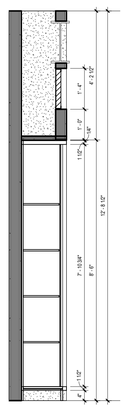


11 ENTRANCE DISPLAY WALL SECTION
SCALE: 1/2" = 1'-0"



12 CORRIDOR C WALL SECTION
SCALE: 1/2" = 1'-0"

BIDDER NOTE

NOTE:
ADD ALTERNATE # 2 TO BASE BID GC-1 PROVIDE ADDITIONAL WALL TILE TO CEILING ABOVE THE BASE BID WAINSCOT HEIGHT TYPICAL FOR ALL TOILETS ROOMS.

TOILET KEY NOTES

NOTE:
G.C. & P.C. COORDINATE ADA ACCESSIBLE FIXTURES LOCATION WITH PLANS. SEE A11.01 FOR TOILET ROOM MOUNTING STANDARDS.

SYMBOL DENOTES ADA COMPLIANCE PUMBLING FIXTURE

1. P.C. TO FURNISH AND INSTALL ALL NEW WALL MOUNTED WATER CLOSET AND FLUSHOMETER.
1A. P.C. TO FURNISH AND INSTALL ALL NEW FLOOR MOUNTED WATER CLOSET AND FLUSHOMETER.
2. P.C. TO FURNISH AND INSTALL NEW LAVATORY AND FAUCET.
3. G.C. TO FURNISH AND INSTALL NEW 18" GRAB BAR.
4. G.C. TO FURNISH AND INSTALL NEW 42" GRAB BAR.
5. G.C. TO FURNISH AND INSTALL NEW 36" GRAB BAR.
6. OWNER TO FURNISH AND G.C. TO INSTALL NEW TOILET PAPER DISPENSER.
7. G.C. TO FURNISH AND INSTALL NEW HAND DRYER. G.C. TO COORDINATE LOCATION WITH E.C.
8. OWNER TO FURNISH AND G.C. TO INSTALL NEW SOAP DISPENSER.
9. P.C. TO FURNISH AND INSTALL NEW FLOOR DRAINS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
10. G.C. TO FURNISH AND INSTALL NEW FLAT MIRROR.
11. G.C. TO FURNISH AND INSTALL NEW SANITARY NAPKIN & TAMPON DISPENSER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. G.C. TO FURNISH AND INSTALL NEW SANITARY NAPKIN DISPOSAL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. P.C. TO FURNISH AND INSTALL NEW URINAL AND FLUSHOMETER.
14. G.C. TO FURNISH AND INSTALL ALL TOLIET PARTITION WALLS, DOORS AND HARDWARE.
15. G.C. TO FURNISH AND INSTALL ALL URINAL PARTITION WALLS.
16. HORIZONTAL WALL MOUNTED CHANGING STATION/ TABLE
17. G.C. TO FURNISH AND INSTALL COAT/ROBE HOOK. BRADLEY CONCEALED MOUNTING CHROME-PLATED ROBE HOOK, ON BACK OF DOOR.
18. ADA DRINKING WATER FOUNTAIN WITH BOTTLE REFILLING STATION
19. DRINKING WATER FOUNTAIN STATION

REV.	DATE	ITEM

NOTICE

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PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE: ENLARGED RESTROOM ELEVATIONS

DRWG. BY: Author
CHK. BY: Checker

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ENGINEERS
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187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
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PATCHOGUE
NEW YORK 11772
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F. 631.475.0361
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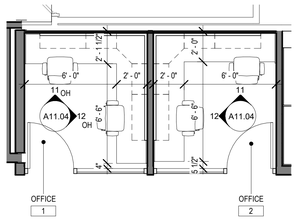
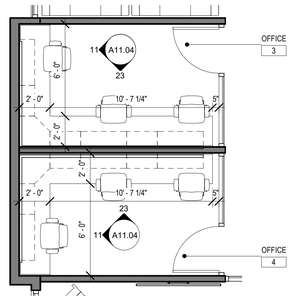
SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE ENLARGED RESTROOM ELEVATIONS

SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A11.03 | HSMS



1 ENLARGED CASEWORK PLANS - OFFICE 1 & 2
SCALE: 1/4" = 1'-0"



2 ENLARGED CASEWORK PLANS - OFFICE 3 & 4
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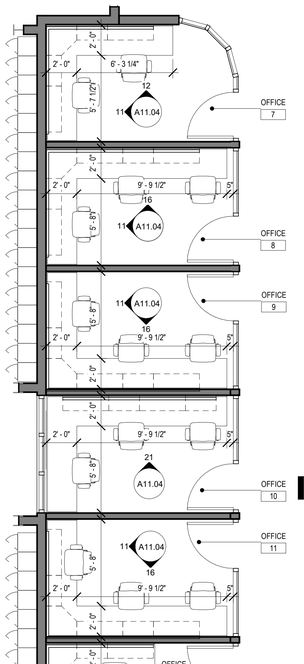
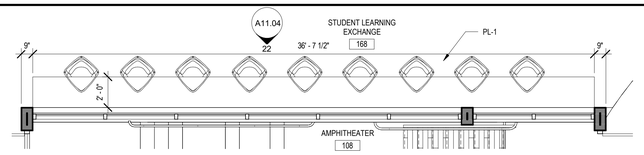
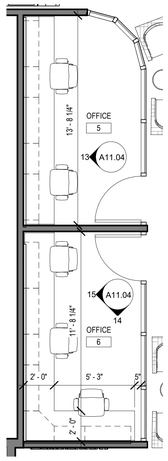


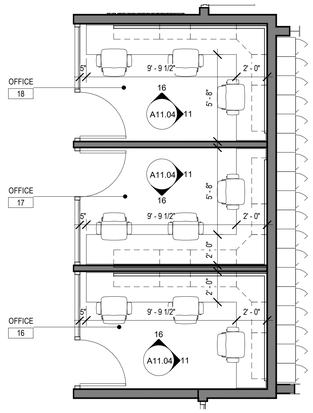
3 ENLARGED CASEWORK PLANS - OFFICE 7 THRU 15
SCALE: 1/4" = 1'-0"



4 ENLARGED CASEWORK PLANS - SLE COUNTER
SCALE: 1/4" = 1'-0"



5 ENLARGED CASEWORK PLANS - OFFICE 4 & 5
SCALE: 1/4" = 1'-0"



6 ENLARGED CASEWORK PLANS - OFFICE 16, 17, & 18
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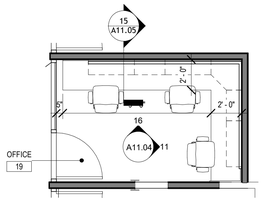

7 ENLARGED CASEWORK PLANS - OFFICE 19
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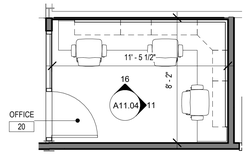

8 ENLARGED CASEWORK PLANS - OFFICE 20
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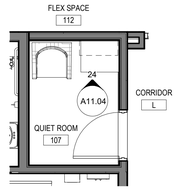

9 ENLARGED CASEWORK PLANS - QUIET ROOM
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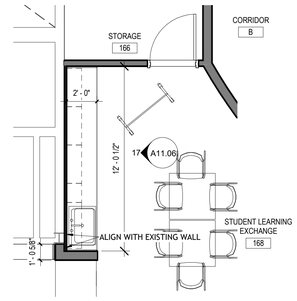

10 ENLARGED CASEWORK PLANS - SLE
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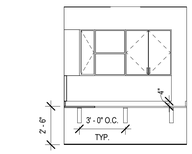
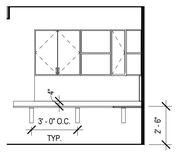
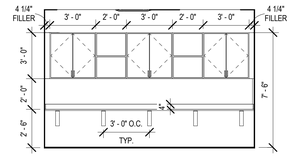


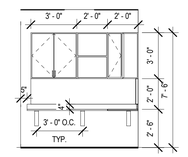
11 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



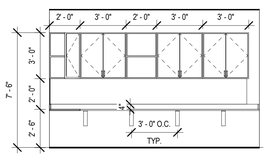
12 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



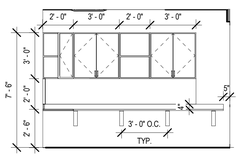
13 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



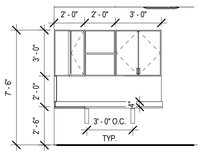
14 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



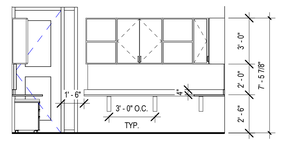
15 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



16 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



17 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



18 CASEWORK ELEVATION
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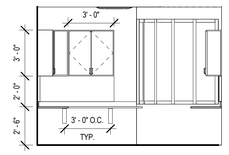
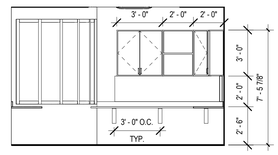


19 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



20 CASEWORK ELEVATION
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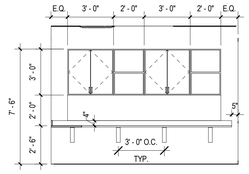
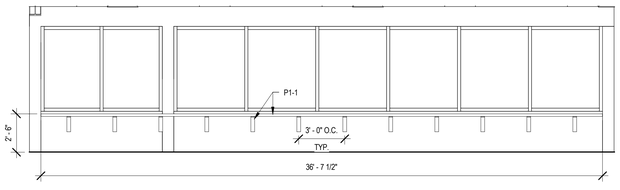


21 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



22 CASEWORK ELEVATION
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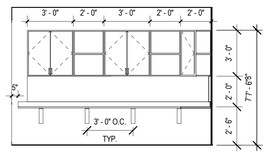

23 CASEWORK ELEVATION
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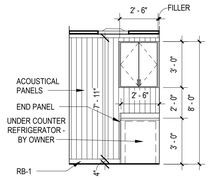
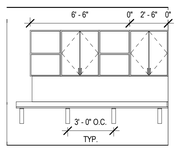
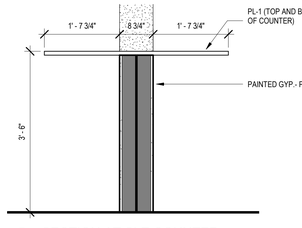


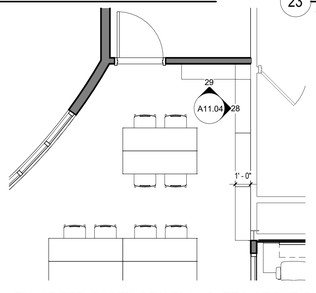
24 QUIET ROOM CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



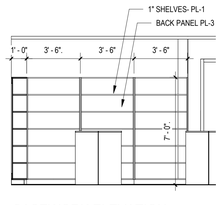
25 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



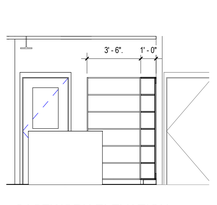
26 SECTION AT SLE COUNTER
SCALE: 3/4" = 1'-0"



27 ENLARGED CASEWORK PLANS- TECH ZONE SHELVING
SCALE: 1/4" = 1'-0"



28 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



29 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"

CASEWORK CONSTRUCTION NOTES

1. ALL CASEWORK AS OUTLINED ON THIS DRAWING IS TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR (G.C.).
2. G.C. SHALL BE RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS & BUILD TO SUIT AND TO REVIEW AND REPORT ANY DISCREPANCIES TO ARCHITECT.
3. ALL PLUMBING INSTALLATIONS, CONNECTIONS, SERVICE PIPING & TRAPS SHALL BE PROVIDED & INSTALLED BY P.C.. ALL ELECTRIC INSTALLATIONS, CONNECTIONS AND ELECTRICAL CONDUIT BY E.C..
4. REFER TO ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION ON SINK, FIXTURE, FITTINGS & ELECTRICAL CONNECTIONS.
5. G.C. SHALL BE RESPONSIBLE TO INSTALL ALL FLOORING, 4" H RUBBER WALL BASE AT ALL NEW CASEWORK TOE KICKS AND AT ALL ADA KNEE SPACE AREAS AT SINK BASE UNITS. REFER TO FINISH SCHEDULE FOR ADDITIONAL FLOOR, WALL, BASE & CEILING FINISH INFORMATION.
6. G.C. SHALL FURNISH AND INSTALL FILLER PANELS, WHERE NECESSARY, TO PROVIDE A COMPLETE AND FINISHED INSTALLATION. (FILLER PANELS SHALL BE USED TO FORM CONTINUOUS CABINETRY BETWEEN ALL UNITS AND/OR ADJACENT SURFACES.)
7. G.C. SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND BLOCKING AS REQUIRED FOR COMPLETE AND PROPER INSTALLATION OF THEIR WORK.
8. ALL TRADE CONTRACTORS SHALL BE RESPONSIBLE TO COORDINATE THEIR WORK WITH THE G.C.
9. UNLESS OTHERWISE NOTED ALL TACK BOARDS, MARKER BOARDS SHALL BE PROVIDED AND INSTALLED BY G.C. G.C. SHALL COORDINATE WITH M.C., P.C. AND E.C. FOR WALL MOUNTED COMPONENTS WHICH MAY NOT BE SHOWN THESE PLANS OR ELEVATIONS.
10. ALL COUNTERTOPS SHALL BE PLASTIC LAMINATE OVER 1" THICK PLYWOOD SUBSTRATE WITH 4" HIGH BACK & SIDE SPLASHES, U.O.N. IN CASEWORK SHOP DRAWINGS.
11. G.C. AND E.C. SHALL COORDINATE MOUNTING LOCATIONS FOR POWER AND DATA MANAGEMENT SYSTEM TO UNDERSIDE OF COMPUTER WORKSTATIONS AND CIRCULATION DESKS. G.C. SHALL PROVIDE ALL CUTOUTS IN PANELS AS REQUIRED FOR CABLE PASSAGE BETWEEN UNITS. NO SURFACE MOUNTED INSTALLATIONS WILL BE ACCEPTED WHICH OCCUR ABOVE THE WORKSURFACE. ALL SHALL BE CONCEALED EITHER BELOW WORKSURFACE OR WITHIN CABINETS.
12. G.C. SHALL SUBMIT SHOP DRAWINGS AND COLOR SAMPLES FOR APPROVAL BY ARCHITECT ACCORDING TO SPECIFICATIONS PRIOR TO FABRICATION.
13. ALL WOOD BLOCKING TO BE RETARDANT (U.O.N)
14. ALL DOORS, DRAWERS, CABINETS, FILES, ETC. SHALL RECEIVE WARDEN LOCKS. (MASTERKEYED)
15. FINAL MECHANICAL CONNECTIONS BY M.C., FINAL ELECTRICAL CONNECTIONS BY E.C. & FINAL PLUMBING CONNECTIONS BY P.C.

GENERAL CASEWORK/ FURNITURE NOTES

1. ALL UPPER CABINETS SHALL BE 12" DEEP, U.O.N.
2. ALL BASE CABINETS SHALL BE 34" TALL, U.O.N.
3. ALL LOOSE FURNITURE TO BE PROVIDED BY OWNER AND N.I.C.

REV.	DATE	ITEM

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PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE: ENLARGED EQUIPMENT PLANS & DETAILS

DRWG. BY: C.M.
CHK. BY: G.E.O.

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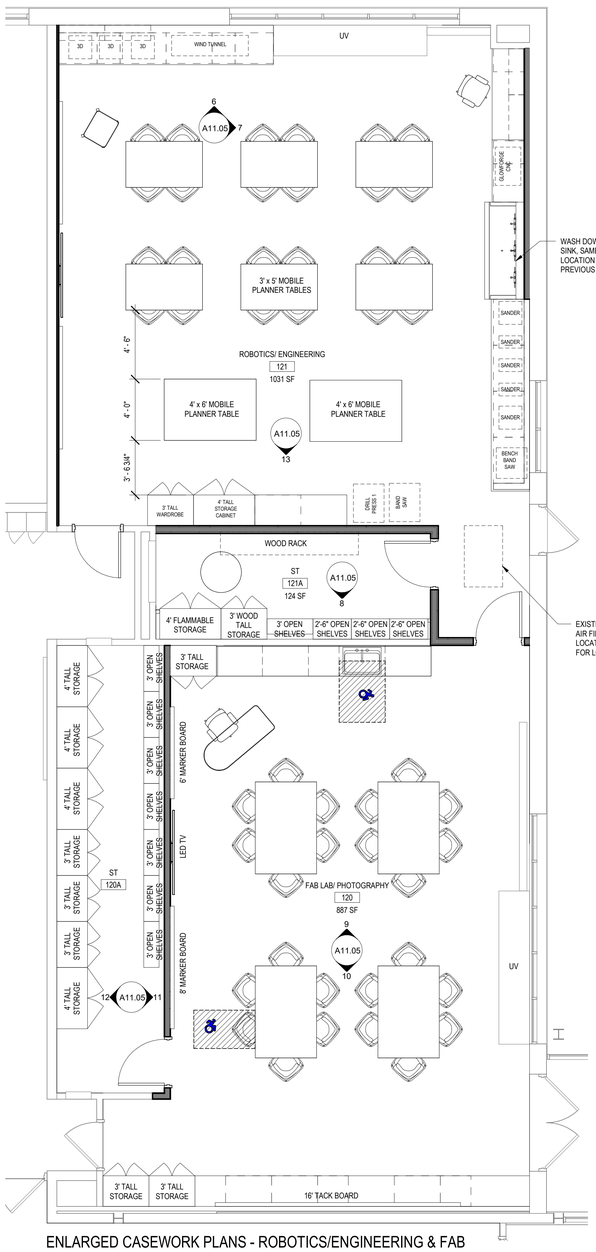
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
www.BBSARCHITECTURE.COM

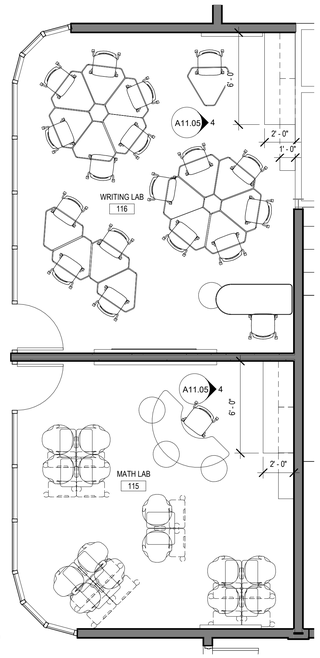
SED No. 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR U.F.S.D.
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: ENLARGED EQUIPMENT PLANS & DETAILS

SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-274C

A11.04 | HSMS



1 ENLARGED CASEWORK PLANS - ROBOTICS/ENGINEERING & FAB LAB/PHOTOGRAPHY
SCALE: 1/4" = 1'-0"



2 ENLARGED CASEWORK PLANS - MATH & WRITING LAB
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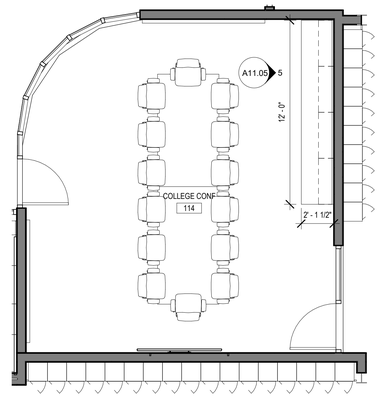
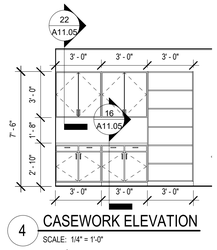
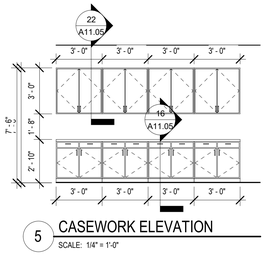


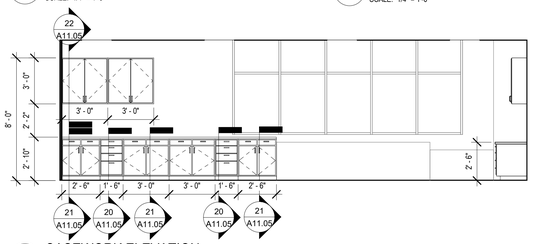
3 ENLARGED CASEWORK PLANS - COLLEGE CONFERENCE
SCALE: 1/4" = 1'-0"



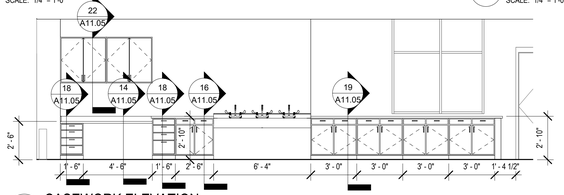
4 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



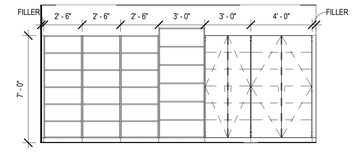
5 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



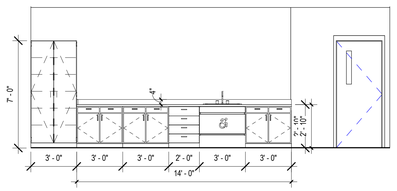
6 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



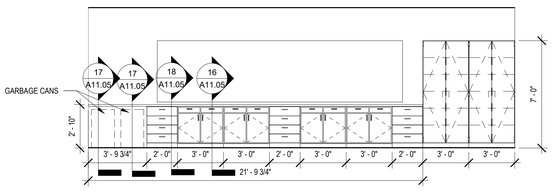
7 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



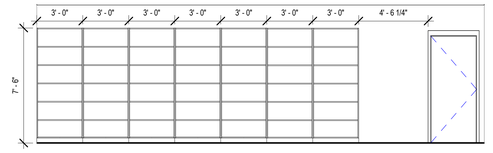
8 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



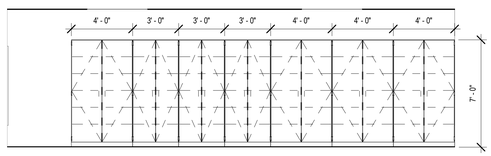
9 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



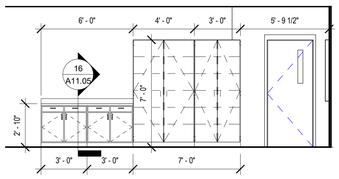
10 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



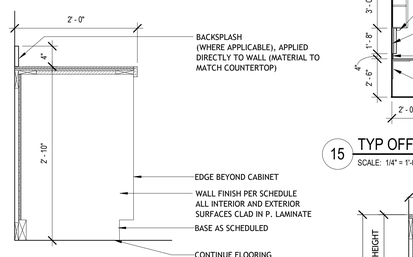
11 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



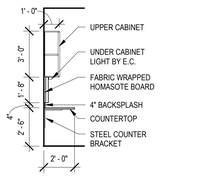
12 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



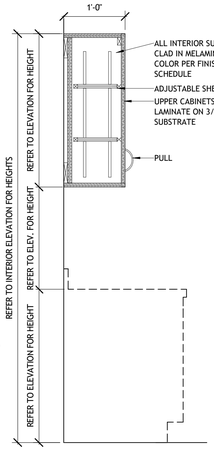
13 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



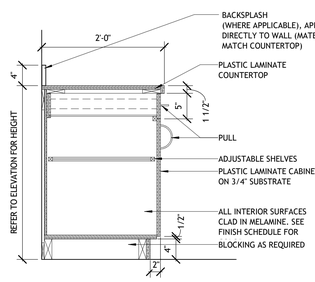
14 TYP. BASE CABINET /DESK (HEATER BEHIND)
SCALE: 1" = 1'-0"



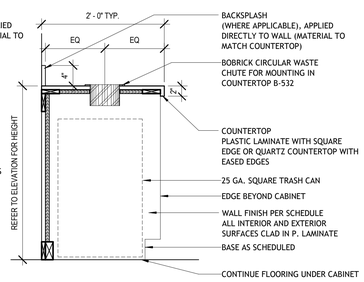
15 TYP OFFICE CASEWORK SECTION
SCALE: 1/4" = 1'-0"



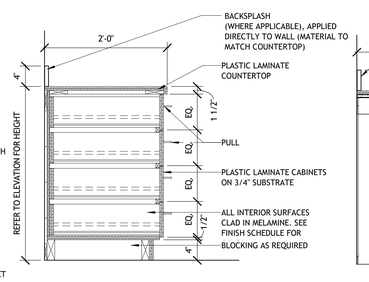
22 TYP. UPPER CABINET
SCALE: 1" = 1'-0"



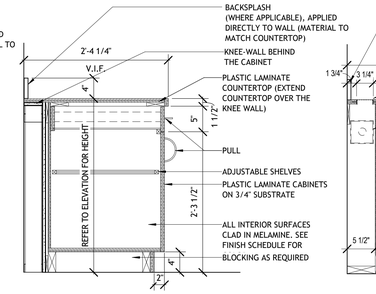
16 TYP. BASE CABINET
SCALE: 1" = 1'-0"



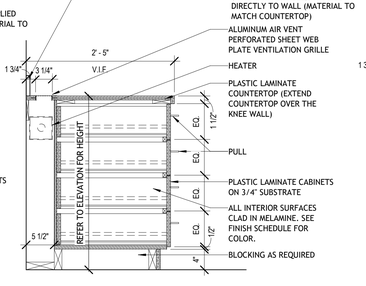
17 TYP. BASE CABINET WITH WASTE CHUTE
SCALE: 1" = 1'-0"



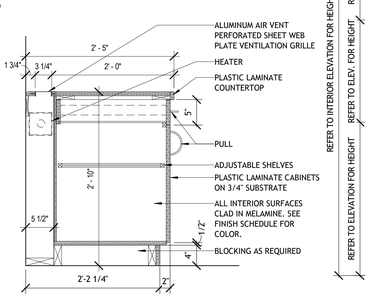
18 TYP. BASE CABINET WITH DRAWERS
SCALE: 1" = 1'-0"



19 TYP. BASE CABINET (KNEE WALL)
SCALE: 1" = 1'-0"



20 TYP. BASE CABINET W/ DRAWERS (HEATER BEHIND)
SCALE: 1" = 1'-0"



21 TYP. BASE CABINET - HEATER BEHIND
SCALE: 1" = 1'-0"

REV.	DATE	ITEM

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PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE
ENLARGED EQUIPMENT PLANS & DETAILS

DRWG. BY: C.M.
CHK. BY: G.E.O.

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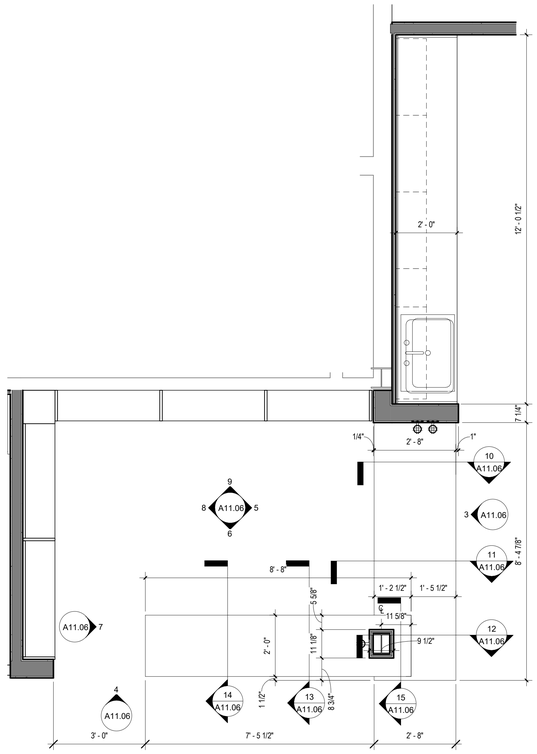
SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE ENLARGED EQUIPMENT PLANS & DETAILS

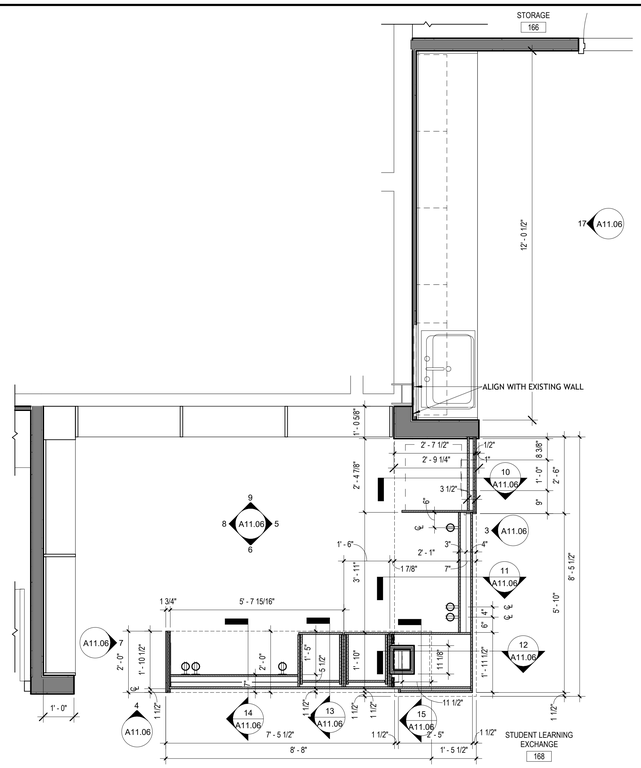
SCALE: AS NOTED
DATE: -
BID PJU DATE: 11/14/2022
FILE NO. 21-274C

A11.05 | HSMS

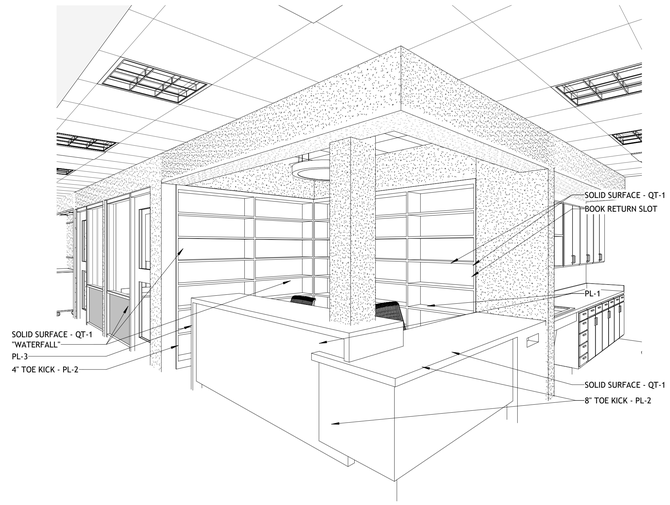
G.C. SHALL PROVIDE AND INSTALL
ALL CASEWORK IN THIS SHEET



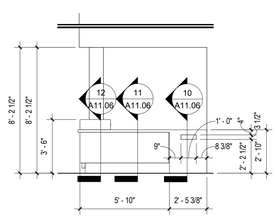
1 ENLARGED CASEWORK PLAN - SLE CIRCULATION DESK COUNTERTOP
SCALE: 1/2" = 1'-0"



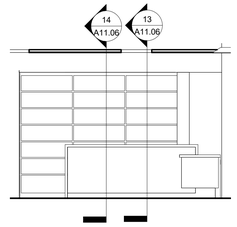
2 ENLARGED CASEWORK PLAN - CIRCULATION DESK LOWER CABINETS
SCALE: 1/2" = 1'-0"



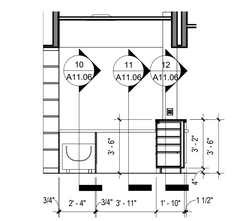
A 3D View - Front Desk (Right)
SCALE:



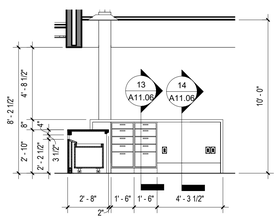
3 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



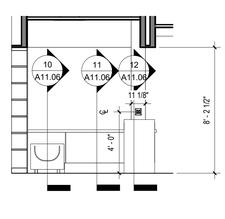
4 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



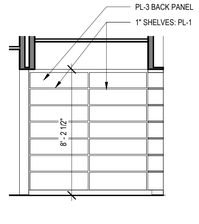
5 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



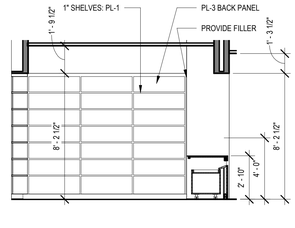
6 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



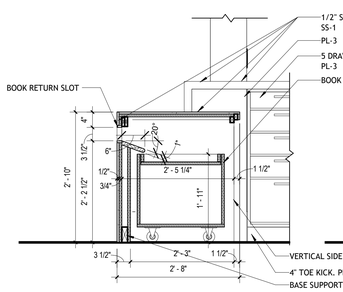
7 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



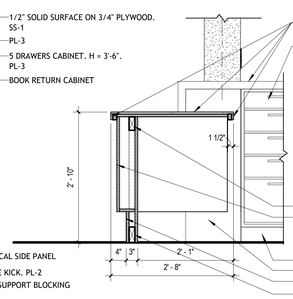
8 CASEWORK ELEVATION 34
SCALE: 1/4" = 1'-0"



9 CASEWORK ELEVATION 35
SCALE: 1/4" = 1'-0"



10 SECTION AT RECEPTION DESK 3
SCALE: 3/4" = 1'-0"



11 SECTION AT RECEPTION DESK 1
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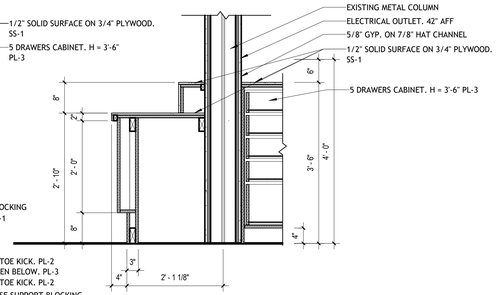

12 SECTION AT RECEPTION DESK 5
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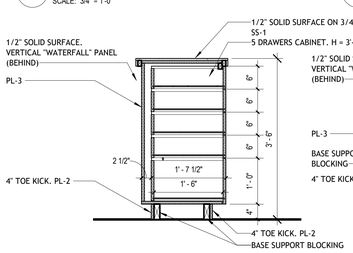
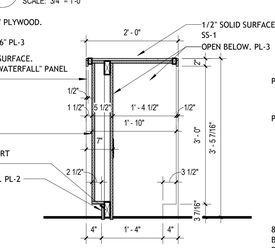
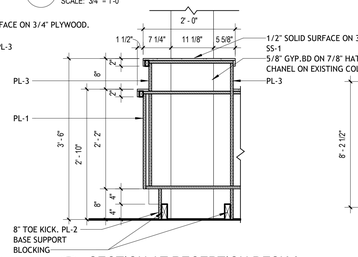


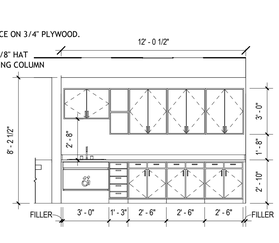
13 SECTION AT RECEPTION DESK 2
SCALE: 3/4" = 1'-0"



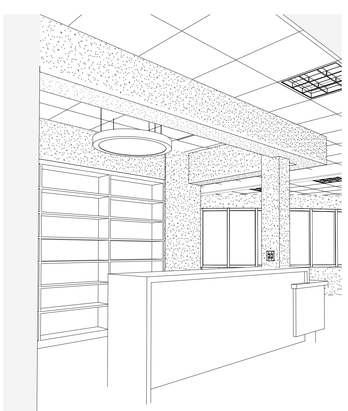
14 SECTION AT RECEPTION DESK 4
SCALE: 3/4" = 1'-0"



15 SECTION AT RECEPTION DESK 6
SCALE: 3/4" = 1'-0"



17 CASEWORK ELEVATION
SCALE: 1/4" = 1'-0"



B 3D View - Front Desk (Left)
SCALE:



C 3D View - Front Desk (Inside View)
SCALE:

REV.	DATE	ITEM

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
ENLARGED EQUIPMENT PLANS & DETAILS

DRWG. BY: Author
CHK. BY: Checker

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DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE ENLARGED EQUIPMENT PLANS & DETAILS
SCALE: AS NOTED
DATE: -
BID P/U DATE: 11/14/2022
FILE NO. 21-2740

A11.06 HSMS

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PROJECT

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DWG/TITLE

ENLARGED EQUIPMENT PLANS & DETAILS

DRWG. BY: Author

CHK. BY: Checker

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE ENLARGED EQUIPMENT PLANS & DETAILS

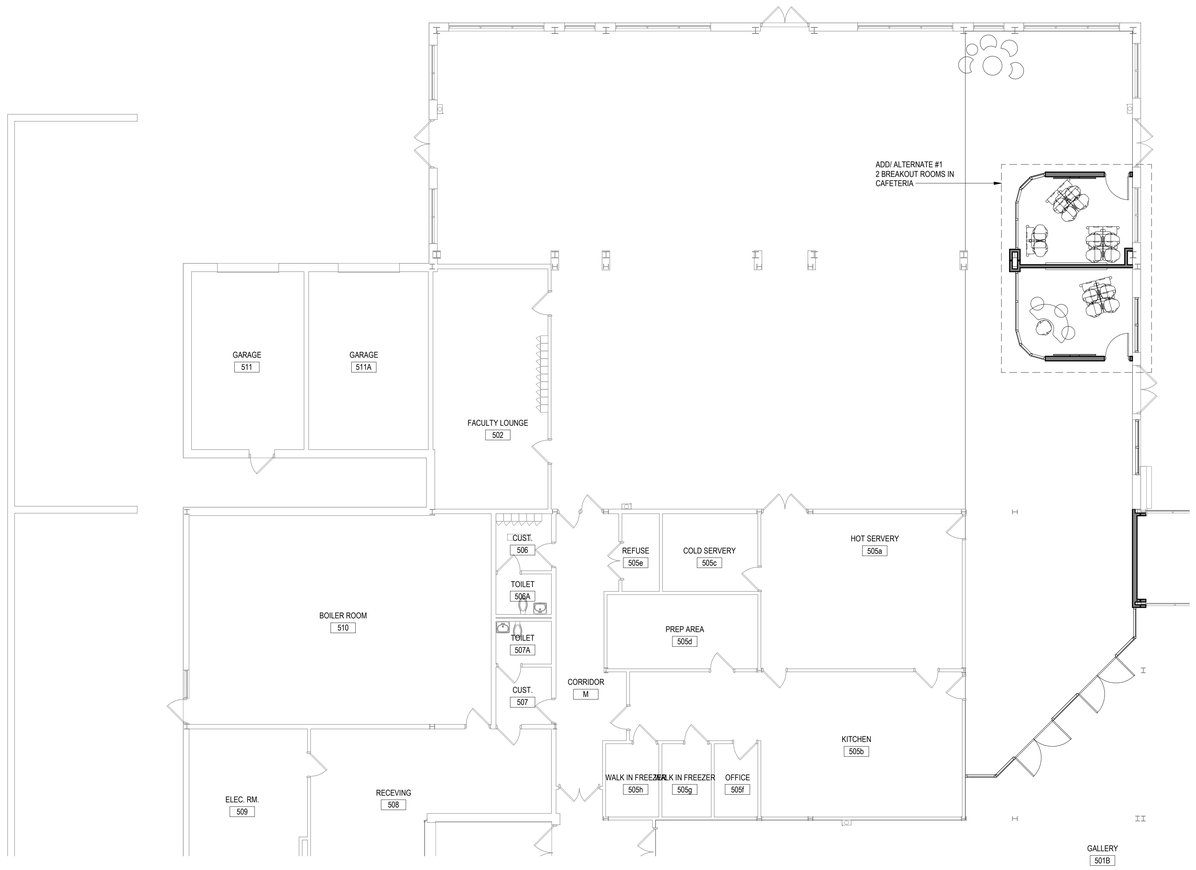
SCALE: AS NOTED

DATE: -

BID P/U DATE: 11/14/2022

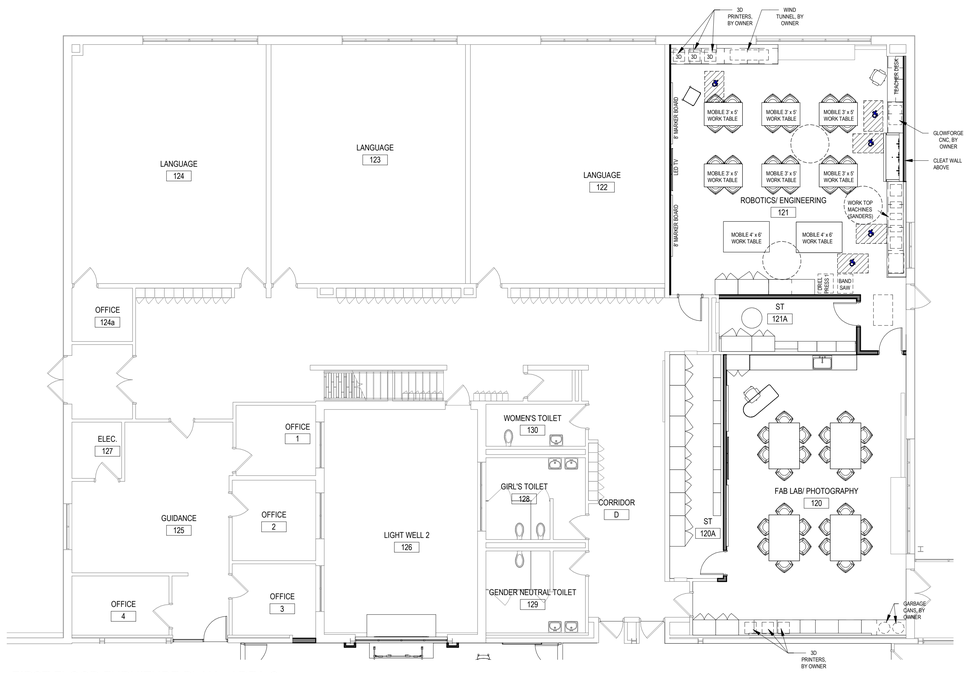
FILE NO. 21-274C

A11.07 HSMS



1 FIRST FLOOR FURNITURE PLAN - AREA A

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



2 FIRST FLOOR FURNITURE PLAN - AREA C

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

REV.	DATE	ITEM

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PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

ENLARGED FURNITURE PLANS - AREA A & C

DRWG. BY: C.M.

CHK. BY: G.E.O.

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ENGINEERS

BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE ENLARGED FURNITURE PLANS - AREA A & C

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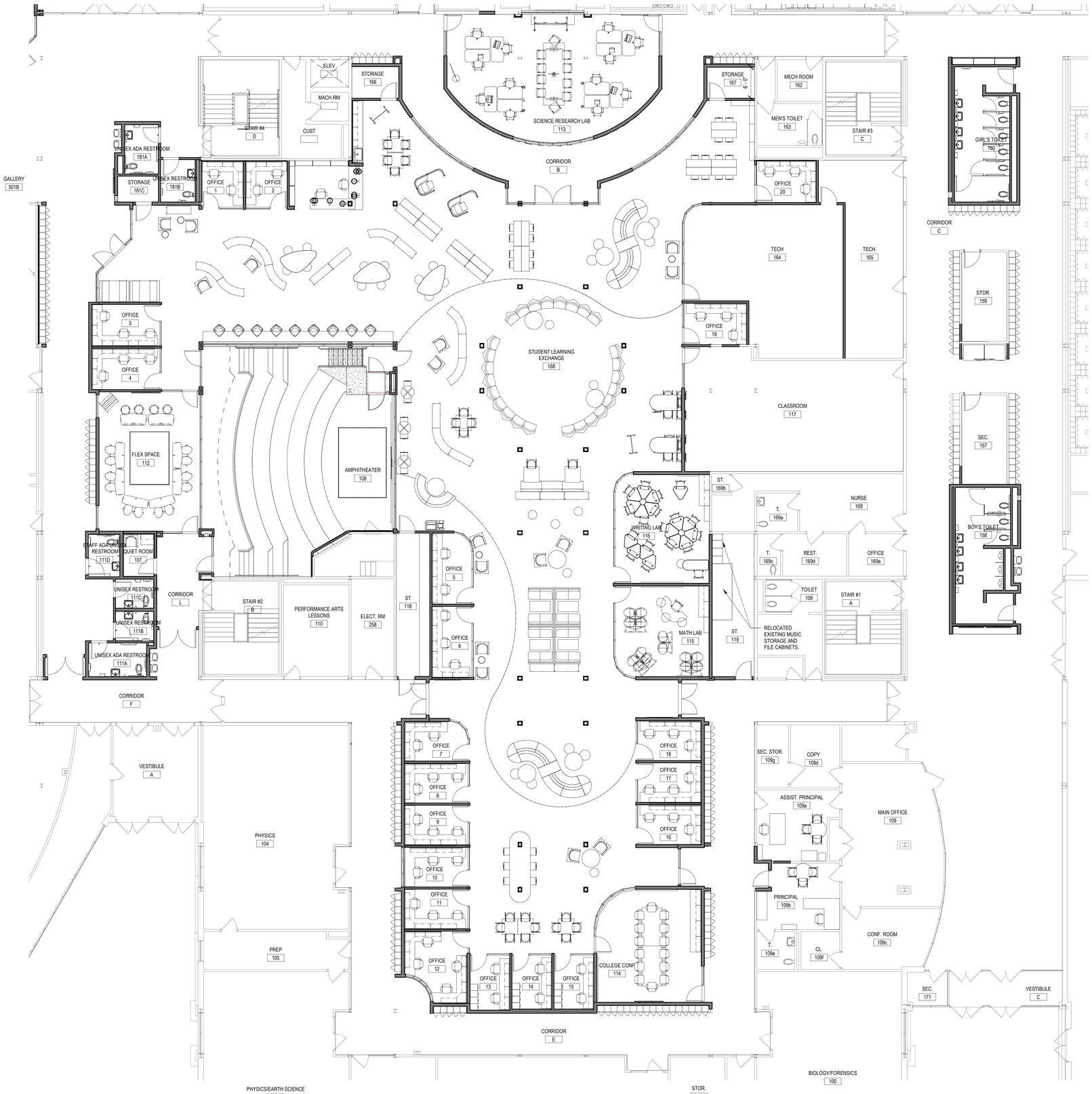

1 FIRST FLOOR FURNITURE PLAN - AREA D

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

REV.	DATE	ITEM

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BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE

ENLARGED FURNITURE PLANS - AREA D

DRWG. BY: C.M.

CHK. BY: G.E.O.

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE ENLARGED FURNITURE PLANS - AREA D

SCALE: AS NOTED

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BID P/U DATE: 11/14/2022

FILE NO. 21-274C

A11.09 | HSMS

DESIGN LOADS AND CRITERIA

1. DESIGN PROVISIONS: 2020 NYS BUILDING CODE
   BUILDING RISK CATEGORY, III
   TERRAIN EXPOSURE CATEGORY, B
   BASIC SEISMIC/MAIN WIND FORCE RESISTING SYSTEM FOR SKYLIGHT ONLY:
   NORTH-SOUTH, STEEL MOMENT FRAMES
   EAST-WEST, STEEL MOMENT FRAMES

2. ROOF DEAD LOAD, 20 PSF (TYPICAL)

   PORTION OF ABOVE ROOF DEAD LOAD FOR MECHANICAL EQUIPMENT AND PIPING SUSPENDED FROM STRUCTURAL FRAMING, 5 PSF

   CONCENTRATED LOADS SHALL BE LIMITED TO THOSE WHICH INDUCE MOMENTS AND SHEARS IN MEMBERS NOT GREATER THAN THOSE INDUCED BY THE NOTED UNIFORMLY DISTRIBUTED LOADS.

3. ROOF LIVE LOAD, 20 PSF (TYPICAL)

4. SNOW LOAD:

   GROUND SNOW LOAD (P_g), 30 PSF
   FLAT ROOF SNOW LOAD (PF), 35 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.

5. WIND LOAD:

   BASIC WIND SPEED, 123 MPH
   EXPOSURE CATEGORY, B
   TOPOGRAPHIC FACTOR, 1.0
   HEIGHT OF MAIN ROOF, 25 FEET

6. SEISMIC LOADS:

   RISK CATEGORY, III
   SITE CLASS, D
   SHORT-PERIOD ACCELERATION (S_{DS}), 0.210 g
   ONE-SECOND ACCELERATION (S_{D1}), 0.072 g
   SEISMIC DESIGN CATEGORY, B
   SEISMIC IMPORTANCE FACTOR (I_E), 1.25
   SEISMIC RESPONSE COEFFICIENT (C_S), 0.000
   RESPONSE MODIFICATION COEFFICIENT (R), 3

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
HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A 500 GRADE B OR C
STEEL PIPE: ASTM A 53, TYPE E OR S, GRADE B
HIGH-STRENGTH BOLTS: ASTM A 325 OR ASTM A 490
SHEAR CONNECTORS: ASTM A 108, GRADES 1010 THROUGH 1020 HEADED-STUD TYPE
UNHEADED ANCHOR RODS: ASTM F 1554
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, FOUNDATION WALLS, PIERS, GRADE BEAMS, MISC:
28 DAY COMPRESSIVE STRENGTH, f'_c= 3,000 PSI
SLUMP, 3 TO 5 INCHES
AIR ENTRAINMENT, 5 % ± 1 %

INTERIOR SLABS ON GRADE AND SLABS ON DECK:
28 DAY COMPRESSIVE STRENGTH, fc = 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 STRENCTH, 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 OR MASONRY: ASTM A 615. GRADE 60

DIMENSION LUMBER:
STUDS, NO. 1/NO, 2 OR BETTER, SPRUCE-PINE-FIR (SPF)
STRUCTURAL FRAMING, NO, 1/NO, 2 OR BETTER, SPRUCE-PINE-FIR (SPF)

ENGINEERED LUMBER;
LAMINATED VENEER LUMBER (LVL), MICROLAM AS MANUFACTURER BY ILEVEL.
PREMANUFACTURED I-JOISTS, TJI AS MANUFACTURED BY ILEVEL.

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: FLOOR DECK, ROOF DECK, SHEAR WALLS, 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.
13. COORDINATE STAIRWAYS, DIMENSIONS, AND STAIR OPENINGS WITH ARCHITECTURAL DRAWINGS AND STAIR FABRICATOR SHOP DRAWINGS.

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.

SLAB ON GRADE NOTES:

1. SUBGRADE BELOW SLAB ON GRADE SHALL BE REVIEWED AND ACCEPTED BY GEOTECHNICAL ENGINEER BEFORE CONCRETE SLAB PLACEMENT. DO NOT PLACE CONCRETE SLAB UNTIL SUBBASE AND/OR SUBGRADE HAS BEEN TESTED FOR COMPACTION AND RESULTS ARE SATISFACTORY.
2. PROVIDE PROTECTION FROM PRECIPITATION AND EXCESSIVE COLD TEMPERATURES FOR THE VAPOR RETARDER AND SLAB SUBBASE PRIOR TO SLAB-ON-GRADE PLACEMENT. SUBBASE MUST BE DRY AND NOT FROZEN AT THE TIME OF SLAB PLACEMENT.
3. DO NOT PLACE SLABS ON FROZEN GROUND. IF SUBGRADE OR SUBBASE ARE FROZEN AFTER PREPARATION, THEY SHALL BE THAWED THEN RECOMPACTED AND RETESTED FOR COMPACTION PRIOR TO SLAB PLACEMENT, AT THE EXPENSE OF THE CONTRACTOR.
4. PROVIDE PROTECTION FOR THE SLAB ON GRADE FROM DIRECT EXPOSURE TO THE SUN, WIND, PRECIPITATION, AND EXCESSIVE COLD OR HOT TEMPERATURES DURING PLACEMENT AND LASTING UNTIL THE END OF THE CURING PERIOD. DO NOT ALLOW GROUND BENEATH SLABS TO FREEZE ONCE POURED OR TO ACCUMULATE MOISTURE BETWEEN THE SLAB AND VAPOR RETARDER.
5. PRIOR TO SLAB PLACEMENT, SUBMIT FOR INFORMATION ONLY A WRITTEN PROTECTION PROGRAM FOR THE VAPOR RETARDER, SLAB SUBBASE, AND SLAB ON GRADE.
6. SLAB JOINTS ARE REQUIRED WHERE SHOWN ON PLAN. WHERE JOINTS ARE NOT SHOWN, SEE "OPTION FOR SLAB PLACEMENT" IN DIVISION 3 SPECIFICATIONS.
7. PROVIDE A SQUARE EDGE FORM JOINT FOR CONSTRUCTION JOINTS AND SAW-CUT JOINT FOR CONTRACTION JOINTS IN SLABS ON GRADE. SUBMIT JOINT LAYOUT TO THE ENGINEER FOR REVIEW.
8. REINFORCE SLABS AS NOTED ON DRAWINGS. AT PERIMETER OF SLABS, LOCATE REINFORCING 3 INCHES FROM SLAB EDGES. CONTINUE 50 PERCENT OF SLAB REINFORCEMENT THROUGH CONSTRUCTION AND CONTRACTION JOINTS.
9. PROVIDE ONE #4 BAR, 3 FEET LONG, DIAGONAL AT CORNERS AND OPENINGS IN SLABS ON GRADE.
10. THICKEN SLABS ON GRADE TO 8 INCHES, AND REINFORCE AS SHOWN ON DETAIL XX/XX UNDER NONBEARING MASONRY WALLS (6 INCHES THICK OR OVER) WHERE THE WALL HEIGHT EXCEEDS 12 FEET AND UNDER STAIR STRINGER BEARINGS. COORDINATE REQUIRED LOCATIONS WITH ARCHITECTURAL DRAWINGS.
11. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DETAILS OF DEPRESSED SLABS.
12. VERIFY SIZE AND LOCATION OF PLATFORMS, CURBS, OR PADS WITH MECHANICAL CONTRACTOR.
13. COORDINATE SLOPED SLABS, DRAINS, AND PENETRATIONS THROUGH SLAB WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
14. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

STRUCTURAL STEEL NOTES:

1. DO NOT BEGIN STEEL ERECTION UNTIL SUPPORTING CONCRETE OBTAINS 75 PERCENT OF THE MATERIAL STRENGTHS NOTED IN DESIGN DATA NOTES.
2. LOCATE ROOFTOP MECHANICAL UNITS AS SHOWN: COORDINATE WITH MECHANICAL DRAWINGS. NOTIFY ENGINEER IF ACTUAL UNIT WEIGHTS EXCEED THE WEIGHTS SHOWN ON DRAWINGS.
3. WHERE BEAM SPACING IS NOT NOTED, SPACE BEAMS EQUALLY BETWEEN COLUMNS OR BETWEEN COLUMNS AND WALLS.
4. 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.
5. PROVIDE HOT DIP GALVANIZED FASTENERS FOR GALVANIZED FRAMING CONNECTIONS AND STAINLESS STEEL FASTENERS FOR STAINLESS STEEL FRAMING CONNECTIONS.
6. FABRICATE AND ERECT STEEL IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
7. SLOPE ROOF STEEL UNIFORMLY BETWEEN ELEVATIONS SPECIFIED ON PLANS.
8. 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.
9. 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).
10. 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.
11. BACKER BARS AT COMPLETE JOINT PENETRATION WELDS MUST BE REMOVED IF "R" IS GREATER THAN 3 OR IF STEEL IS "AESS".
12. 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

13. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT UNLESS INDICATED IN STRUCTURAL DRAWINGS.
14. BOLTED CONNECTIONS SHALL UTILIZE TYPE 3 ASTM A 325 BOLTS, UNO. ALL CONNECTIONS SHALL BE INSTALLED SNUG TIGHT.
15. 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.
16. FABRICATE BOLTED CONNECTIONS WITH STANDARD SIZED HOLES, UNLESS NOTED OTHERWISE.
17. COMPLY WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTED CONNECTIONS.

SHEET LIST

SHEET NUMBER	SHEET NAME
S0.01	DESIGN DATA AND GENERAL NOTES
S0.02	SPECIAL INSPECTION NOTES AND SCHEDULE
S1.00	FOUNDATION PLAN
S1.01	ROOF FRAMING PLAN
S3.0	CONCRETE SECTIONS AND DETAILS
S5.0	STEEL SECTIONS AND DETAILS

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

BAR SIZE	f'c' =3,000 PSI				BAR SIZE	f'c' = 4,000 PSI			
	TOP BAR		OTHER BAR			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	4.5% ± 1.5%	1 INCH
EXT SLAB ON GRADE	F1	4,500 PSI	0.45	4.5% ± 1.5%	1 INCH
SLAB ON GRADE	F0	3,000 PSI	SEE NOTE 2	SEE NOTE 3	1 INCH
FOUNDATION WALLS	F0	3,000 PSI	SEE NOTE 2	4.5% ± 1.5%	3/4 INCH
SITE WALLS	F1	4,000 PSI	0.45	4.5% ± 1.5%	3/4 INCH
SLAB ON DECK	F0	3,500 PSI	SEE NOTE 2	SEE NOTE 3	3/4 INCH
PIERS	F0	3,000 PSI	SEE NOTE 2	4.5% ± 1.5%	3/4 INCH

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 2%. SLABS SHALL BE FINISHED TO AVOID SURFACE IMPERFECTIONS, INCLUDING BLISTERING AND DELAMINATION.
4. COARSE AGGREGATE SHALL BE ASTM C33 MEETING GRADATION REQUIREMENTS TYPE 57 FOR 1-INCH MAXIMUM AGGREGATE SIZE AND TYPE 67 FOR 3/4-INCH MAXIMUM AGGREGATE SIZE.
5. MAXIMUM CONCRETE UNIT WEIGHT NOT TO EXCEED 150 POUNDS PER CUBIC FEET.

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
		HVAC	HEATING, VENTILATION, AIR CONDITIONING	PSL	PARALLEL STRAND LUMBER
CANT	CANTILEVER			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

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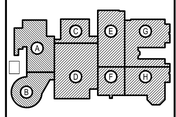

KEY PLAN
NOT TO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
DESIGN DATA AND GENERAL NOTES

DRAWING BY: AED
CHECK BY: ...

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ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

www.BBSARCHITECTURE.com



SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR UFSD
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE DESIGN DATA AND GENERAL NOTES

SCALE: AS NOTED
DATE: 7/15/22
BID PICK-UP:
FILE No: 21-274C

S0.01

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION NOTES:

1. THE SCHEDULE OF SPECIAL INSPECTIONS, ASSOCIATED NOTES AND SPECIFICATION SECTION 01420 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. COLD FORMED FRAMING
   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 "2015 INTERNATIONAL BUILDING CODE".

3. THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTIONS AND TESTING SHALL MEET THE MINIMUM QUALIFICATIONS FOR SPECIAL INSPECTIONS IDENTIFIED IN THE "2015 INTERNATIONAL BUILDING CODE". 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 SHALL FOR REVIEW WHEN REQUESTED.

4. 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/OR ARCHITECTURE, OWNER OR OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, TESTING AGENCY, AND AFFECTED SUB-CONTRACTORS. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE.

5. 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:

   -CONTINUOUS SPECIAL INSPECTION IS THE FULL TIME OBSERVATION OF WORK WHILE THE WORK IS BEING PERFORMED.

   -PERIODIC SPECIAL INSPECTION IS THE PART-TIME OBSERVATION OF WORK WHILE THE WORK IS BEING PERFORMEND OR AFTER IT HAS BEEN COMPLETED.

6. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR OR TESTING AGENCY AT LEAST 48 HOURS IN ADVANCE OF A REQUIRED INSPECTION OR TEST.

7. 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.

8. 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).

9. THE CONTRACTOR SHALL COOPERATE WITH SPECIAL INSPECTOR AND TESTING AGENCIES INCLUDING ADVANCE NOTIFICATION OF REQUIRED INSPECTION OR TEST, 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.

10. 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.

11. 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.

12. 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'.

13. 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.

14. 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.

15. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

16. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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 B. VERIFY FOOTING BEARING STRATA C. REVIEW AND ACCEPT FILLMATERIALS D. OBSERVE AND ACCEPT BACKFILLING AND COMPACTION PROCEDURES E. OBSERVE AND ACCEPT PREPARATION OF SLAB SUBGRADE AND SUBBASE F. VERIFY USE OF FILL MATERIAL AND LIFT THICKNESS IN FIELD		CONT PERIODIC PERIODIC CONT CONT PERIODIC	ALL LOCATIONS
2. COMPACTION AND MOISTURE CONTENT TESTING: A. TEST OF SUBGRADE AT FOOTINGS B. TEST OF SUBGRADE AND SUBBASE BELOW SLABS C. FILL MATERIALS	ASTM D 1557 ASTM D 6938	PERIODIC	EACH SPREAD FOOTING AND EACH 20-FOOT LENGTH OF STRIP FOOTING EACH 2000 SF OF SLAB-ON-GRADE, BUT NOT LESS THAN 4 TESTS 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 AND PLACEMENT A. FOOTINGS, FOUNDATION WALLS, AND PIERS B. SLABS ON GRADE C. SLABS ON DECK D. SHEAR WALLS		PERIODIC PERIODIC PERIODIC PERIODIC	ALL LOCATIONS
2. INSPECT EMBEDDED BOLTS AND ANCHOR RODS PRIOR TO PLACEMENT OF CONCRETE: A. AT COLUMN BASE PLATES, BEAM POCKETS, AND ELSEWHERE WHERE RODS ARE SUBJECT TO SHEAR OR TENSION B. AT COLUMNS IN BRACED FRAMES		PERIODIC PERIODIC	ALL LOCATIONS
3. VERIFY USE OF REQUIRED DESIGN MIX		CONT	EACH PLACEMENT
4. SAMPLE AND TEST FRESH CONCRETE: A. TAKE SIX STANDARD CYLINDERS B. RECORD TIME CONCRETE IS BATCHED, TIME CONCRETE IS SAMPLED, AND TIME THE TRUCK IS EMPTY C. PERFORM SLUMP TEST D. MEASURE AIR CONTENT E. RECORD CONCRETE AND AMBIENT AIR TEMPERATURE F. RECORD UNIT WEIGHT OF CONCRETE G. PERFORM COMPREHENSIVE STRENGTH TESTS	ASTM C 172 ASTM C 31 ASTM C 94 ASTM C 231 ASTM C 138 ASTM C 567 ASTM C 39	CONT	EACH 50 CU. YD. OF CONCRETE OR EACH 5000 SF OF SLAB AREA FOR EACH CLASS OF CONCRETE EACH TRUCK ONE TEST EACH TRUCK; TWO TESTS IF CONCRETE IS PUMPED - ONE AT TRUCK AND ONE AT HOSE END EACH TRUCK EACH TRUCK 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 B. MOISTURE VAPOR EMISSION AND ALKALINITY	ASTM E 1155 ASTM F 1869 ASTM F 710	PERIODIC CONT	ENTIRE SLAB AREA 4 TESTS FOR EACH 2000 SF OF FLOOR AREA AND MINIMUM OF 4 TESTS IN EACH AREA OF THE BUILDING WHERE ADHERED FLOOR FINISHES ARE BEING APPLIED
8. INSPECT WELDING OF REINFORCING STEEL: A. REFER TO STRUCTURAL STEEL TABLE	AWS D1.4	PERIODIC	

STRUCTURAL STEEL :

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: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360-10, A3.3	PERIODIC PERIODIC	ALL BOLTS
3. INSPECTION OF HIGH-STRENGTH BOLTING: A. BEARING-TYPE CONNECTIONS	AISC 360-10, N5.6	PERIODIC	ALL BOLTS
4. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND METAL DECK: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED	ASTM A 6 OR ASTM A 568 ASTM A 653	PERIODIC PERIODIC	ALL STRUCTURAL STEEL AND METAL DECK
5. PERFORM PULL-OUT TESTS ON DRILLED-IN, ADHESIVE, EXPANSION, AND SLEEVE ANCHORS		PERIODIC	TEST 10% OF EACH ANCHOR TYPE (MINIMUM OF 2) BY APPLYING A LOAD EQUAL TO 125% OF ALLOWABLE PULL-OUT STRENGTH TEST 100% OF ANCHORS BY PULLING WITH A CLAW HAMMER USING THE WEIGHT OF ONE MAN
6. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	AISC 360-10, A3.5	CONT CONT	ALL FILLER MATERIAL
7. INSPECTION OF WELDING OF STRUCTURAL STEEL: A. FILLET WELDS 1. SINGLE PASS (5/16 OR LESS) 2. MULTIPASS (GREATER THAN 5/16) B. METAL DECK WELDS C. SHEAR CONNECTOR WELDS. VERIFY FOR SHEAR CONNECTOR WELDS. BEND TEST BY CONTRACTOR	AISC 360-10, N5,4 & N5,5, AWS D1,1 ASTM E 709 AWS D1.1 AWS D1.3 HAMMER TEST AISC 360-10, N6	 PERIODIC CONT PERIODIC PERIODIC	100% VISUAL INSPECTION AND 10% MAGNETIC PARTICLE TESTING 100% VISUAL INSPECTION
8. INSPECTION OF WELDING OF REINFORCING STEEL: A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT C. OTHER REINFORCING STEEL	AWS D1.4 ACI 318 3.5.2	 PERIODIC CONT CONT PERIODIC	ALL REINFORCING STEEL WELD LOCATIONS
9. INSPECTION OF ERECTED STEEL FRAME: A. JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS B. BRACED FRAMES AND MOMENT FRAMES C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	AISC 360-10, N5.7	PERIODIC	ENTIRE FRAME
10. INSPECTION OF ERECTED METAL DECK: A. SIZE AND SPACING OF MECHANICAL FASTENERS INCLUDING SCREWS AND POWDER-ACTUATED FASTENERS	AISC 360-10, N6	PERIODIC	ENTIRE DECK

REV.	DATE	ITEM

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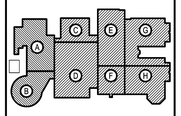

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

SPECIAL INSPECTION NOTES AND SCHEDULE OF INSPECTIONS

DWG TITLE

DRAWING BY: AED

CHECK BY: ...

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ENGINEERS

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PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

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SED No. 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: SPECIAL INSPECTION NOTES AND SCHEDULE

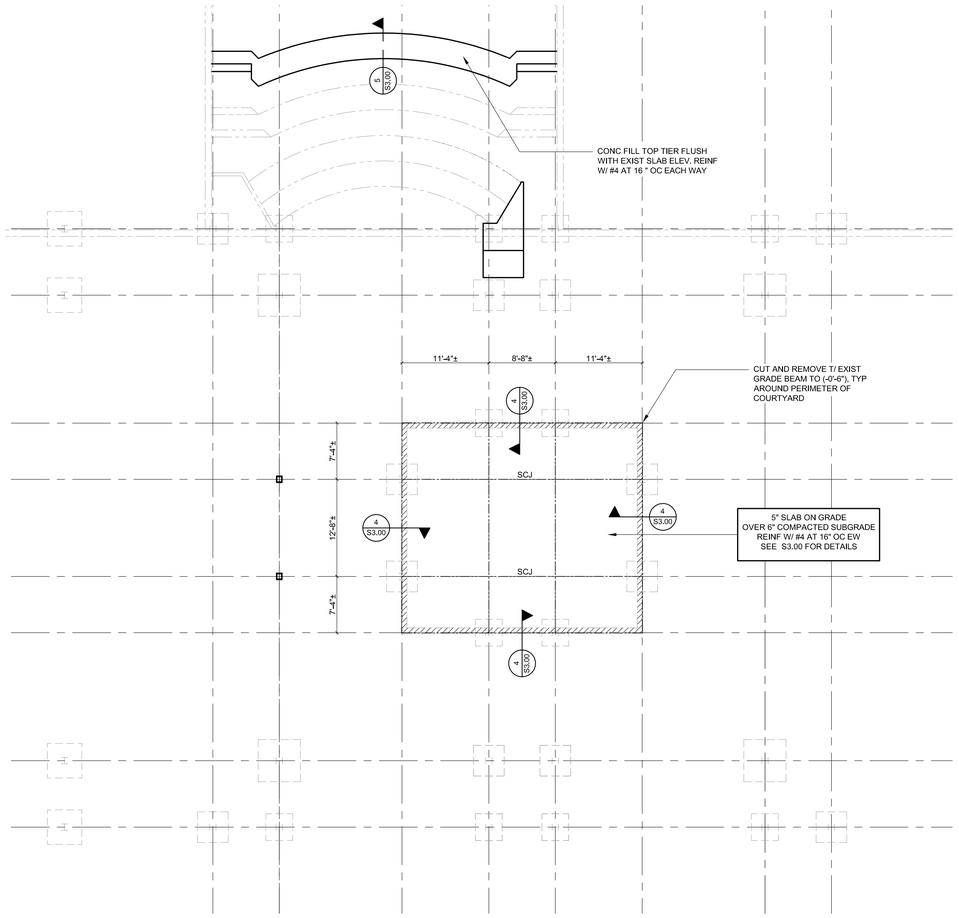
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

S0.02



PARTIAL FOUNDATION PLAN

1/8" = 1'-0"

NOTES:
1. T/SLAB ELEVATION ( ) EQUALS REFERENCE ELEVATION (0'-0"),
2. ELEVATIONS NOTED THUS ( ) ARE WITH RESPECT TO (0'-0"),
3. SEE 2/S3.00 AND 3/S3.00 FOR SLAB-ON-GRADE CONSTRUCTION AND CONTRACTION JOINTS.
4. DRILL AND GROUT SLAB REINFORCING 4" INTO EDGE OF EXISTING SLAB AT COURTYARD SLAB INFILL AREA.
5. PROVIDE (1)#4X4'-0" LONG DIAGONAL BAR AT CORNERS AND OPENINGS IN SLABS ON GRADE.
6. SEE S0.01 AND S0.02 FOR ADDITIONAL NOTES.
7. SEE S1.00 FOR FOUNDATION PLAN LEGEND.

FOUNDATION PLAN LEGEND

F#	INDICATES FOOTING TYPE OR DESIGNATION.
P#	INDICATES PIER TYPE OR DESIGNATION. SEE DRAWING 1/S302 FOR PIER DETAILS.
HIGH / LOW	INDICATES STEPPED FOOTING LOCATION AND ASSOCIATED T/FOOTING ELEVATIONS.
	INDICATES TOP OF CONCRETE WALL TO BE REMOVED TO (-0'-6") BELOW TOP OF EXISTING SLAB. SEE DETAIL 4/S3.00 FOR ADDITIONAL INFORMATION.
SCJ	INDICATES SLAB CONTROL OR CONTRACTION JOINT LOCATION. VERIFY AND COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS. SEE TYPICAL DETAILS ON DRAWING S300 FOR MORE INFORMATION.

REV.	DATE	ITEM

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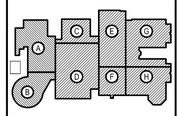

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NOT TO SCALE



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PHASE 2 BOND IMPROVEMENTS
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PROJECT

PARTIAL FOUNDATION PLAN

DWG TITLE

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PATCHOGUE
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T. 631.475.0349
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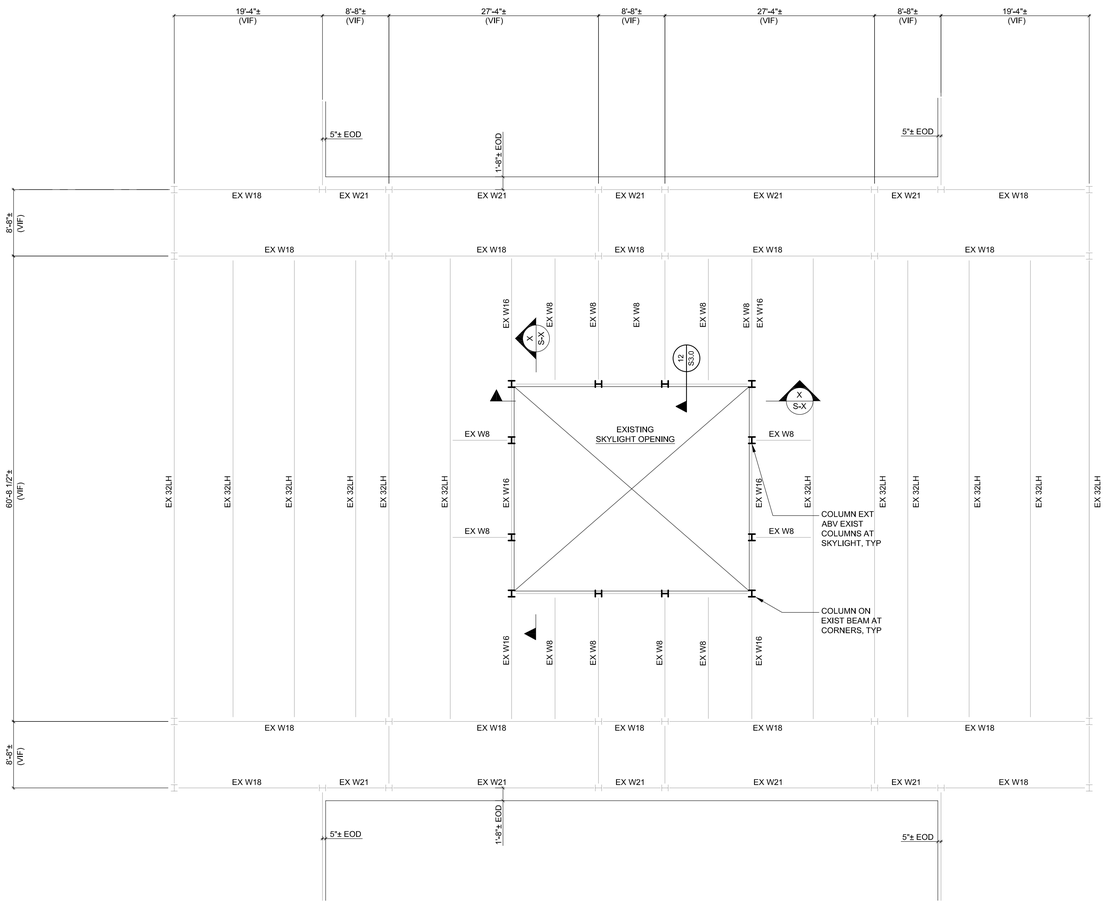
FILE No:	21-274C

S1.00



PARTIAL ROOF FRAMING PLAN AT SKYLIGHT

1/8" = 1'-0"

NOTES:

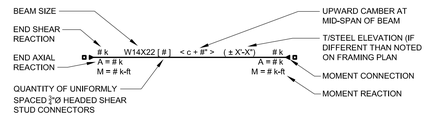
1. T/STEEL (B/DECK) ELEVATION AT HIGH POINT (+24'-11 3/8") ABOVE REFERENCE ELEVATION (0'-0") UNLESS NOTED OTHERWISE.
2. ELEVATIONS NOTED (+/- X'-X"-X") ARE IN REFERENCE TO THE SPECIFIED T/STEEL (B/DECK) ELEVATION.
3. COLUMN EXTENSIONS ABOVE ROOF ARE W8X24, TYPICAL UNLESS NOTED OTHERWISE. ORIENT COLUMN TO MATCH EXISTING COLUMN ORIENTATION. FIELD VERIFY.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EXISTING STRUCTURAL MEMBER LOCATIONS, ORIENTATIONS, AND SIZES.
5. PROVIDE ROOF OPENING ANGLE FRAME AT ROOF DRAINS, VENTS, EXHAUST FANS, AND HATCHES. COORDINATE AND VERIFY ROOF OPENING SIZES AND LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. SEE DETAIL X/XX.
6. SEE S01.01 AND S01.02 FOR ADDITIONAL NOTES.

FRAMING PLAN LEGEND

EOD	INDICATES THE EDGE OF DECK.
RD	INDICATES LOCATIONS AND DIRECTION OF SPAN FOR METAL ROOF DECK.
SLOPE	SPECIFIES DIRECTION OF DOWNWARD ROOF DECK SLOPE.
RD ○	INDICATES ROOF DRAIN. PROVIDE METAL DECK EDGE SUPPORT FRAMING AT PERIMETER. SEE ROOF OPENING FRAMING DETAIL FOR MORE INFORMATION. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
☒	INDICATES LOCATION OF ROOF OPENING. PROVIDE EDGE SUPPORT FRAMING AT PERIMETER (TYP UNO). SEE ROOF OPENING FRAMING DETAIL FOR INFORMATION. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
MC-X	DESIGNATES LOCATION AND TYPE OF MOMENT CONNECTION

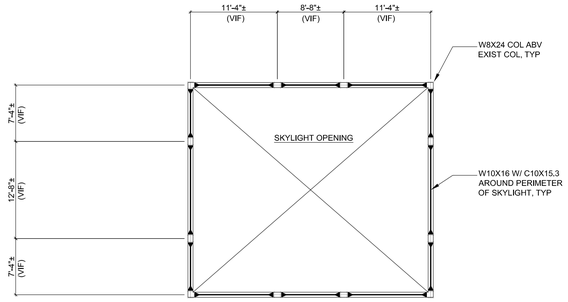
BEAM LEGEND SCHEMATIC

NOT TO SCALE



LEGEND NOTES:

1. REFER TO THE NOTES DRAWING S01.01 FOR CONNECTION DESIGN CRITERIA WHERE LOADS AND MOMENTS ARE NOT SHOWN.
2. LOADS AND MOMENTS SHOWN ARE LRFD (FACTORED DESIGN) UNLESS NOTED OTHERWISE.



HIGH ROOF FRAMING PLAN AT SKYLIGHT

1/8" = 1'-0"

NOTES:

1. T/STEEL (B/DECK) ELEVATION (+ 27'-5 3/8") ABOVE REFERENCE ELEVATION (0'-0") UNLESS NOTED OTHERWISE.
2. ELEVATIONS NOTED ( ) ARE TO T/STEEL (B/DECK) WITH RESPECT TO ELEVATION (+).
3. FIELD VERIFY EXISTING COLUMN LOCATIONS PRIOR TO FABRICATING STEEL. ALIGN COLUMNS LOCATION AND ORIENTATION WITH EXISTING COLUMNS BELOW.
4. SEE S0.01 FOR ADDITIONAL NOTES.
5. SEE S1.00 FOR STEEL BEAM LEGEND.

REV.	DATE	ITEM

NOTICE

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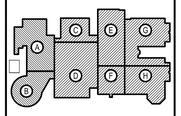

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

PARTIAL ROOF FRAMING PLAN AND HIGH ROOF FRAMING PLANS

DWG TITLE

DRAWING BY: AED

CHECK BY: ...

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F. 631.475.0361

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NEW YORK 12205
T. 518.621.7650
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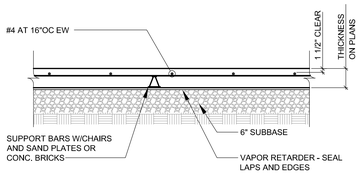
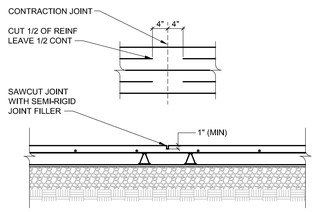
SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	PARTIAL ROOF FRAMING AND HIGH ROOF FRAMING PLANS
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

S1.01



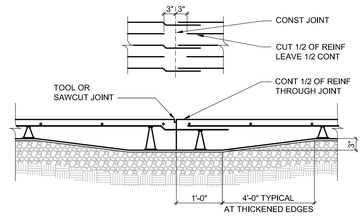
1 S3.00 SLAB ON GRADE TYPICAL SECTION

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



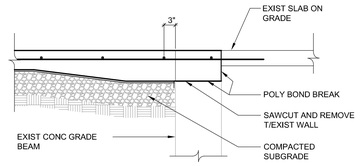
2 S3.00 SLAB ON GRADE TYPICAL CONTRACTION JOINT

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



3 S3.00 SLAB ON GRADE TYPICAL CONSTRUCTION JOINT

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



4 S3.00 SECTION AT EXISTING GRADE BEAM

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

REV.	DATE	ITEM

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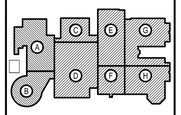

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

CONCRETE SECTIONS AND DETAILS

DRAWING BY: AED

CHECK BY: ...

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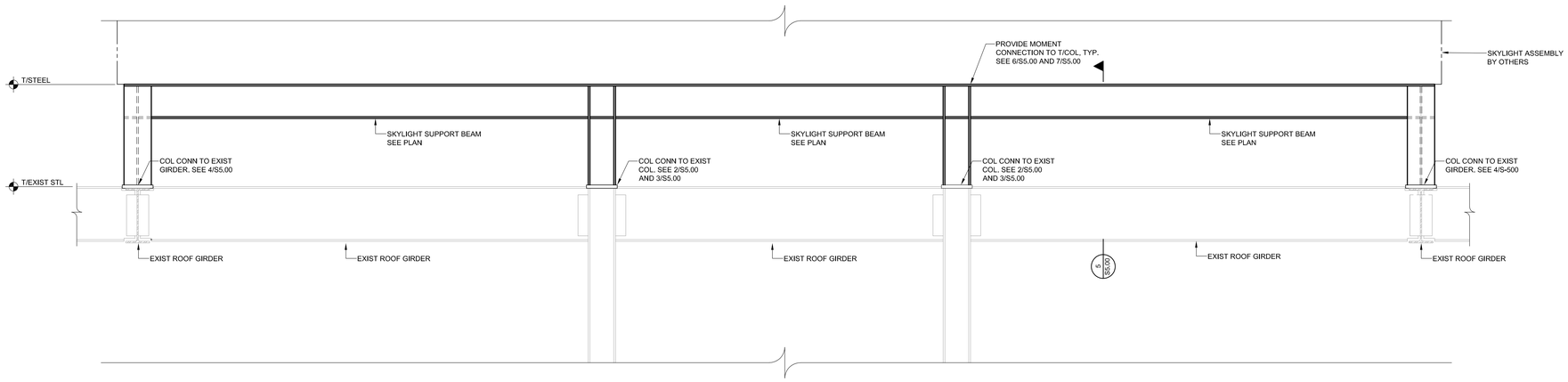
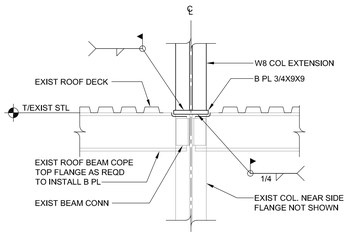
SED No:	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	CONCRETE SECTIONS AND DETAILS
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

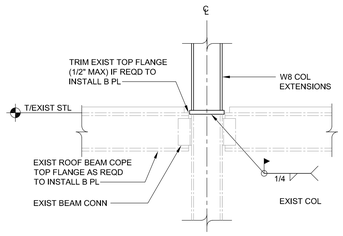
S3.00



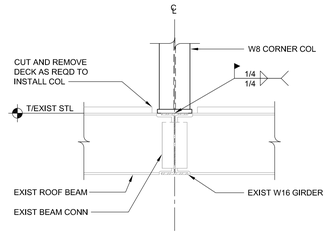
1/S5.00 SCHEMATIC FRAMING ELEVATION AT SKYLIGHT
SCALE: 3/4" = 1'-0"



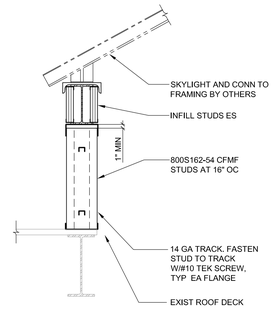
2/S5.00 CONNECTION DETAIL AT EXISTING COLUMN
SCALE: 3/4" = 1'-0"



3/S5.00 CONNECTION DETAIL AT EXISTING COLUMN
SCALE: 3/4" = 1'-0"

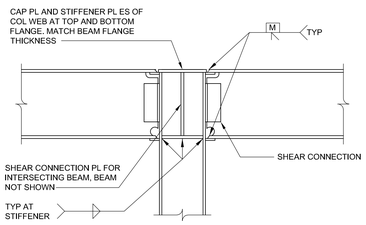


4/S5.00 SECTION AT CORNER COLUMMS
SCALE: 3/4" = 1'-0"

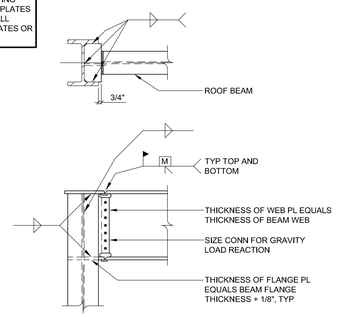


5/S5.00 SECTION AT SKYLIGHT BEAM
SCALE: 3/4" = 1'-0"

NOTE: FABRICATOR HAS OPTION TO USE ALTERNATE MOMENT CONNECTION. SUBMIT DETAIL FOR REVIEW AND ACCEPTANCE PRIOR TO SUBMITTING SHOP DWGS. IF BOLTED FLANGE PLATES ARE PROPOSED, SUBMITTAL SHALL INCLUDE FLANGE EXTENSION PLATES OR ANGLES FOR DECK SUPPORT



6/S-500 MOMENT CONNECTION AT COLUMN
SCALE: 3/4" = 1'-0"



7/S-500 MOMENT CONNECTION DETAIL AT COLUMN
SCALE: 3/4" = 1'-0"

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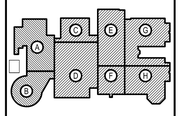

KEY PLAN
NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

STEEL SECTIONS AND DETAILS

DWG TITLE

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CHECK BY: ...

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DWG TITLE	STEEL SECTIONS AND DETAILS
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

S5.00

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 15511 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-8 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.

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 15250 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 15903 FOR FURTHER DETAILS.

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 15990 & 15997 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.

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 15511 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.
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.

PIPING SYSTEMS and 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.

ELECTRICAL WORK 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.
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 ALL ELECTRICAL WORK.

DUCTWORK NOTES

1. PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, 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 15891 & 15290 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 15891 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 15891 FOR FURTHER INFORMATION.

PIPING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	PIPING TO RISE UP
	PIPING TO DROP DOWN
P.A.	PIPING ANCHOR
	PIPING GUIDE
	COLD WATER SUPPLY PIPING
HWS	HEATING SYSTEM SUPPLY PIPING
HWR	HEATING SYSTEM RETURN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
CD	CONDENSATE DRAINAGE PIPING
F.O.S.	FUEL OIL SUPPLY PIPING
F.O.R.	FUEL OIL RETURN PIPING
G	LOW PRESSURE NATURAL GAS PIPING
EG	ELEVATED PRESSURE NATURAL GAS PIPING
	GAS COCK
	DIRT LEG IN PIPING
LP	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
	BALANCING VALVE
	3-WAY VALVE (w/ OPERATOR)
	CIRCUIT CETTER
	TRIPLE DUTY VALVE
	WAFER VALVE
	PLUG / CAP IN PIPING
	PNEUMATIC CONTROL VALVE OPERATOR
	ELECTRIC CONTROL VALVE OPERATOR
	AUTOMATIC AIR VENT
	EXISTING PIPING

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 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
W/	WITH
W/O	WITHOUT
WB.	WET BULB TEMPERATURE
WTD	WATER TEMPERATURE DROP
WTR	WATER TEMPERATURE RISE
WPD	WATER PRESSURE DROP

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
	FIRE DAMPER INSTALLED IN DUCTWORK
	VOLUME DAMPER IN DUCT (w/ LOCKING QUADRANT HANDLE)
	ROUND DUCT WORK 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 CILING DIFFUSER (90 DEG. / OPPOSING PATTERN)
	CEILING RETURN AIR REGISTER
	LINEAR SLOT DIFFUSER
	ROOF MOUNTED EXHAUST FAN

EXISTING BUILDING DROP CEILING TILE REMOVAL & RE-INSTALLATION NOTES

SUSPENDED ACOUSTIC CEILING TILE & GRID SHALL BE PARTIALLY REMOVED BY THE G.C. AS REQUIRED TO FACILITATE REMOVAL & INSTALLATION OF MECHANICAL SYSTEM DUCTWORK. THE ACOUSTIC CEILING SHALL BE RESTORED BY THE GC UPON COMPLETION OF DUCTWORK INSTALLATION.

THE MC SHALL COORDINATE WITH THE GC ALL OF THE LOCATIONS WHERE ACOUSTIC CEILING NEEDS TO BE REMOVED TO FACILITATE REMOVAL & INSTALLATION OF DUCTWORK.

GENERAL NOTES FOR ALL NEW FANS WITH AN ECM MOTOR

ALL ELECTRICALLY COMMUTATED (EC) MOTORS SHALL HAVE THE FOLLOWING FEATURES:

1. SOFT START - MOTORS MUST HAVE SOFT-START TECHNOLOGY WHICH ELIMINATES INRUSH CURRENT AT START-UP. THE MOTORS WILL RELIABLY START AT ANY SPEED SETTING.

2. OVERLOAD PROTECTION - IF THE MOTOR BECOMES OVERLOADED, IT WILL AUTOMATICALLY REDUCE ITS SPEED UNTIL IT IS NO LONGER OVERLOADED. THIS MEANS THAT THE MOTOR WILL NEVER OPERATE IN THE "SERVICE FACTOR" WHICH IS POSSIBLE WITH MANY AC MOTORS.

3. LOCKED ROTOR PROTECTION - IF THE MOTOR EVER ENCOUNTERS A LOCKED-ROTOR SCENARIO, THE MOTOR WILL AUTOMATICALLY SHUT ITSELF DOWN. IT WILL TRY TO RESTART UP TO 3 TIMES, AND IF AFTER THE 3RD TIME THE MOTOR WILL STILL NOT ROTATE, THE MOTOR WILL NOT ATTEMPT TO START AGAIN UNTIL POWER IS CYCLED.

4. THERMAL PROTECTION - THE MOTORS HAVE A ONE-SHOT FUSE THERMAL PROTECTOR. THIS IS MEANT TO PROTECT THE MOTOR FROM A SEVERE TEMPERATURE RISE. ADDITIONALLY, THE MOTORS HAVE ON-BOARD TEMPERATURE SENSORS WHICH WILL REDUCE THE SPEED OF THE MOTOR SHOULD IT BECOME TOO HOT. THE FUSE IS USED AS A LAST RESORT TO PREVENT A FIRE

FOR ALL PROPOSED NEW PIPING, NEW DUCTWORK, & NEW EQUIPMENT LAYOUTS, THE M.C. SHALL FURNISH DETAIL SHOP DRAWINGS PRIOR TO START OF ANY WORK. ALL EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE M.C. PRIOR TO FURNISH SHOP DRAWINGS & THESE FIELD CONDITIONS SHALL BE REFLECTED ON THE SHOP DRAWINGS.

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-1 ADD-ALTERNATE NO.1)

Room Number	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
Middle School Gym	Gym, stadium, arena (play area)	7	20	0.18	0	8097	57	2598	1	2598	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HV-2)

Room Number	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
Corridor G	Corridor	0	0	0.06	0	736	0	45	0.8	57	0
Boy's Locker Room 84	Sports locker room	0	0	0	0.5	1966	0	0	0.8	0	983
Girl's Locker Room 309	Sports locker room	0	0	0	0.5	1493	0	0	0.8	0	747
Storage 82	Storage room	0	0	0.12	0	87	0	11	0.8	14	0
W/D 92	Commercial laundry	10	25	0	0	199	2	50	0.8	63	0
Storage 91	Storage room	0	0	0.12	0	90	0	11	0.8	14	0
Storage 84a	Storage room	0	0	0.12	0	137	0	17	0.8	22	0
Stor. 97g	Storage room	0	0	0.12	0	105	0	13	0.8	17	0
Stor. 97f	Storage room	0	0	0.12	0	81	0	10	0.8	13	0
Storage 84b	Storage room	0	0	0.12	0	156	0	19	0.8	24	0
Office 97c	Office space	5	5	0.06	0	105	1	12	0.8	15	0
Office 97b	Office space	5	5	0.06	0	81	1	10	0.8	13	0
Coach 84e	Office space	5	5	0.06	0	136	1	14	0.8	18	0
Coach 97e	Office space	5	5	0.06	0	133	1	13	0.8	17	0
Office 84d	Office space	5	5	0.06	0	136	1	14	0.8	18	0
Office 97d	Office space	5	5	0.06	0	132	1

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-7)

Room Number	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
Gallery 501B	Corridor	0	0	0.06	0	2815	0	169	0.8	212	0
Office 4	Office space	5	5	0.06	0	105	1	12	0.8	15	0
Office 3	Office space	5	5	0.06	0	105	1	12	0.8	15	0
Corridor - F	Corridor	0	0	0.06	0	420	0	26	0.8	33	0
Corridor - L	Corridor	0	0	0.06	0	179	0	11	0.8	14	0
Student Learning Exchange 168-C	Media center	25	10	0.12	0	1692	43	634	0.8	793	0
Quiet Room 107	Office space	5	5	0.06	0	48	1	8	0.8	10	0
Office 1	Office space	5	5	0.06	0	70	1	10	0.8	13	0
Office 2	Office space	5	5	0.06	0	70	1	10	0.8	13	0

MECHANICAL CODE VENTILATION CALCULATIONS - (DOAS-8)

Room Number	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
College Conf 114	Conference room	50	5	0.06	0	430	22	136	0.8	170	0
Corridor E	Corridor	0	0	0.06	0	2583	0	155	0.8	194	0
Office 8	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 13	Office space	5	5	0.06	0	82	1	10	0.8	13	0
Office 15	Office space	5	5	0.06	0	82	1	10	0.8	13	0
Office 14	Office space	5	5	0.06	0	82	1	10	0.8	13	0
Office 12	Office space	5	5	0.06	0	144	1	14	0.8	18	0
Office 9	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 11	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 17	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 18	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 16	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 7	Office space	5	5	0.06	0	92	1	11	0.8	14	0
Office 10	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Student Learning Exchange 168-B	Media center	25	10	0.12	0	1782	45	664	0.8	830	0
Office 5	Office space	5	5	0.06	0	105	1	12	0.8	15	0
Office 6	Office space	5	5	0.06	0	107	1	12	0.8	15	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-9)

Room Number	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
Amphitheater 108	Lecture classroom	65	7.5	0.06	0	1502	98	826	0.8	1033	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-10)

Room Number	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
Corridor C	Corridor	0	0	0.06	0	4467	0	269	0.8	337	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-11)

Room Number	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
Cafeteria 505	Cafeteria, fast food	100	7.5	0.18	0	4811	482	4481	0.8	5602	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-12)

Room Number	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
Office 20	Office space	5	5	0.06	0	95	1	11	0.8	14	0
St 118	Storage room	0	0	0.12	0	176	0	22	0.8	28	0
St. 119	Storage room	0	0	0.12	0	223	0	27	0.8	34	0
Student Learning Exchange 168-A	Media center	25	10	0.12	0	3940	99	1463	0.8	1829	0
Tech. 165	Storage room	0	0	0.12	0	468	0	57	0.8	72	0
Corridor P	Corridor	0	0	0.06	0	757	0	46	0.8	58	0
Corridor Q	Corridor	0	0	0.06	0	757	0	46	0.8	58	0
Pysch. 237	Office space	5	5	0.06	0	164	1	15	0.8	19	0
Faculty 220	Office space	5	5	0.06	0	330	2	30	0.8	38	0
Tech. 242	Office space	5	5	0.06	0	211	2	23	0.8	29	0
Faculty 241	Office space	5	5	0.06	0	114	1	12	0.8	15	0
Corridor B	Corridor	0	0	0.06	0	1389	0	84	0.8	105	0
Student Learning Exchange 165-Light Well	Media center	25	10	0.12	0	780	20	294	0.8	368	0
Chemistry 225	Science Laboratories	25	10	0.18	1	1225	31	531	0.8	664	1225
Chemistry 229	Science Laboratories	25	10	0.18	1	1549	39	669	0.8	837	1549
Chem. Stor. 236	Storage room	0	0	0.12	0	169	0	21	0.8	27	0
Support 228	Office space	5	5	0.06	0	185	1	17	0.8	22	0
Math/Tech 227	Office space	5	5	0.06	0	321	2	30	0.8	38	0
Social Studies 221	Classroom (age 9 plus)	35	10	0.12	0	910	32	430	0.8	538	0
Social Studies 226	Classroom (age 9 plus)	35	10	0.12	0	899	32	428	0.8	535	0
Support 222	Office space	5	5	0.06	0	322	2	30	0.8	38	0
Support 223	Office space	5	5	0.06	0	187	1	17	0.8	22	0
Storage 166	Storage room	0	0	0.12	0	45	0	6	0.8	8	0
Storage 167	Storage room	0	0	0.12	0	46	0	6	0.8	8	0

MECHANICAL CODE VENTILATION CALCULATIONS - (FIRST FLOOR - CEILING MOUNTED UNIT VENTILATORS)

Room Number	Unit ID	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
Classroom 117	UV-1A	Classroom (age 9 plus)	35	10	0.12	0	938	33	443	0.8	554	0
Office 19	UV-1B	Office space	5	5	0.06	0	98	1	11	0.8	14	0
Tech 164	UV-1B	Classroom (age 9 plus)	35	10	0.12	0	763	27	362	0.8	453	0
Flex Space 112	UV-1C	Classroom (age 9 plus)	35	10	0.12	0	527	19	254	0.8	318	0
Writing Lab 116	UV-1D	Classroom (age 9 plus)	35	10	0.12	0	384	14	187	0.8	234	0
Math Lab 115	UV-1E	Classroom (age 9 plus)	35	10	0.12	0	317	12	159	0.8	199	0

MECHANICAL CODE VENTILATION CALCULATIONS - (FIRST FLOOR - FLOOR MOUNTED UNIT VENTILATORS)

Room Number	Unit ID	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
Fab Lab/Photography 120	UV-1F	Classroom (age 9 plus)	35	10	0.12	0	982	35	468	0.9	520	0
Robotics/Engineering 121	UV-1G	Classroom (age 9 plus)	35	10	0.12	0	1107	39	523	0.9	582	0
St 120A	UV-1F	Storage room	0	0	0.12	0	204	0	25	0.9	28	0
St 121A	UV-1G	Storage room	0	0	0.12	0	126	0	16	0.9	18	0
Science Research Lab 113	UV-1H	Classroom (age 9 plus)	35	10	0.12	0	890	32	427	0.9	475	0

MECHANICAL CODE VENTILATION CALCULATIONS - (SECOND FLOOR - CEILING MOUNTED UNIT VENTILATORS)

Room Number	Unit ID	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
Chemistry 229	UV-2A & UV-2B	Science Laboratories	25	10	0.18	1	1462	37	634	0.8	793	1462
Math/Tech 227	UV-2C	Office space	5	5	0.06	0	318	2	30	0.8	38	0
Social Studies 221	UV-2E	Classroom (age 9 plus)	35	10	0.12	0	858	31	413	0.8	517	0
Social Studies 226	UV-2D	Classroom (age 9 plus)	35	10	0.12	0	858	31	413	0.8	517	0
Support 222	UV-2F	Office space	5	5	0.06	0	329	2	30	0.8	38	0
Support 223	UV-2F	Office space	5	5	0.06	0	181	1	16	0.8	20	0
Support 228	UV-2C	Office space	5	5	0.06	0	126	1	13	0.8	17	0

MECHANICAL CODE VENTILATION CALCULATIONS - (FIRST FLOOR - CEILING MOUNTED FAN COIL UNITS)

Room Number	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
Breakout 500	Conference/meeting	50	5	0.06	0	169	9	56	0.8	70	0
Breakout 501	Conference/meeting	50	5	0.06	0	170	9	56	0.8	70	0

REV.	DATE	ITEM

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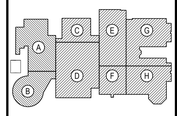

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

GENERAL NOTES, LEGENDS AND SYMBOLS (2 OF 2)

DWG TITLE

DRAWING BY: R.D.P.

CHECK BY: F.S.

NOTICE

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE GENERAL NOTES, LEGENDS AND SYMBOLS (2 OF 2)

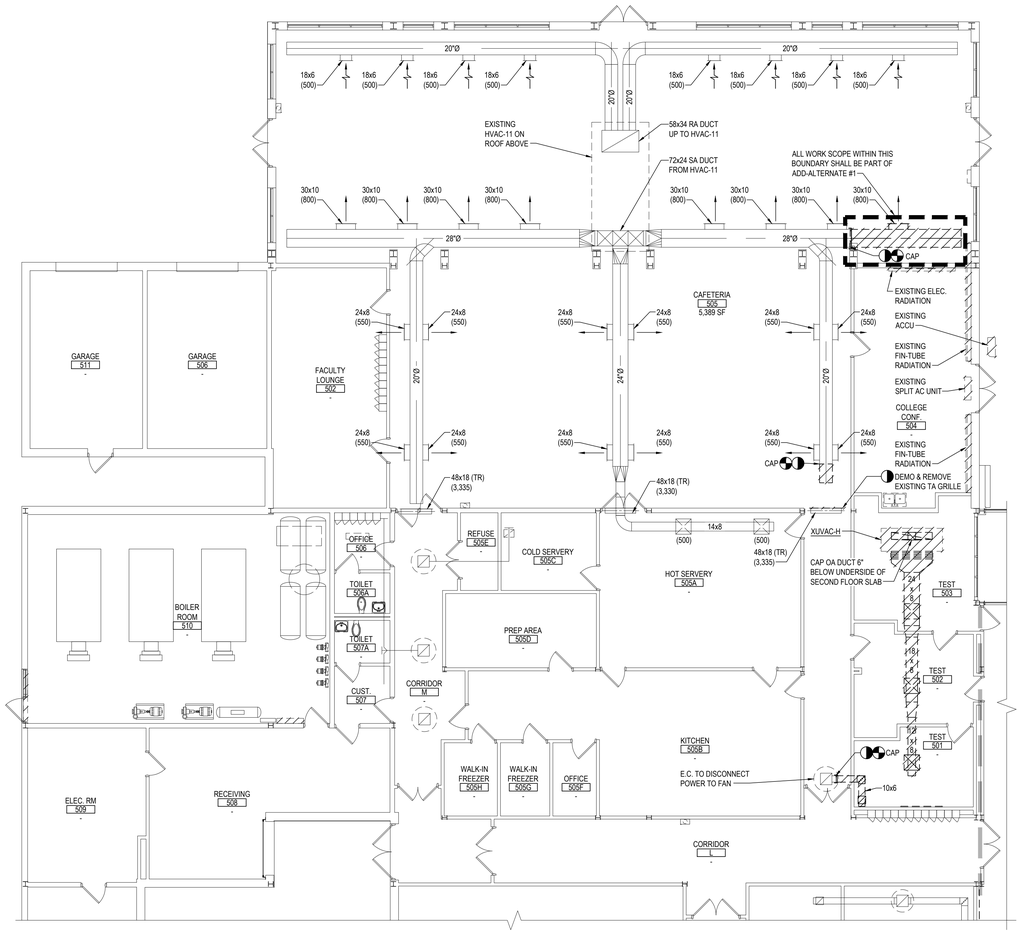
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

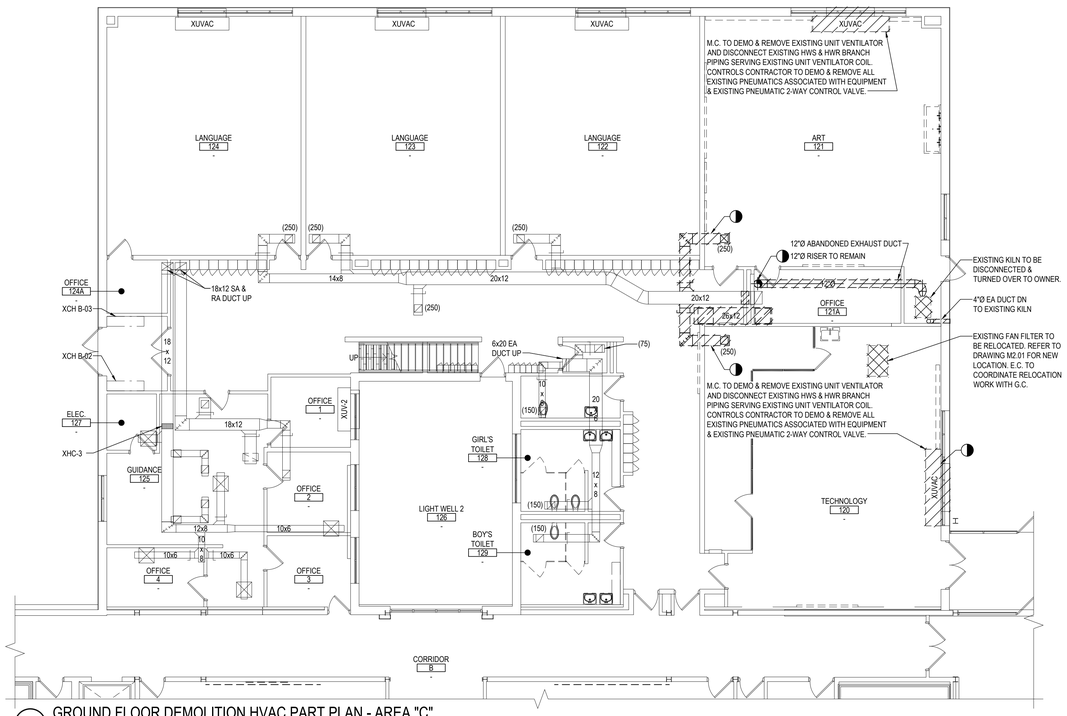
FILE No: 21-274C

M0.02 | HSMS



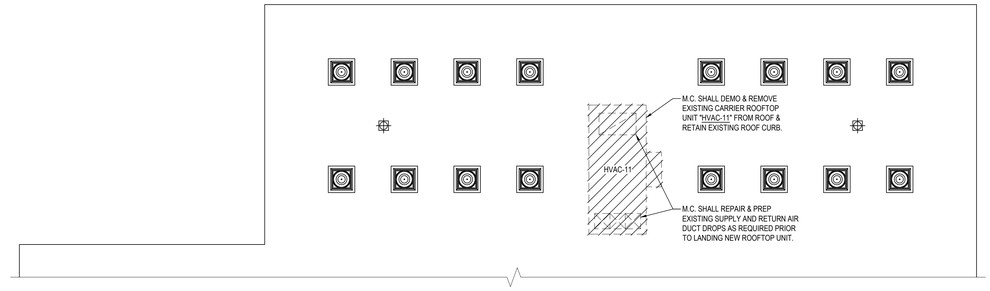
1 GROUND FLOOR DEMOLITION HVAC PART PLAN - AREA "A"

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



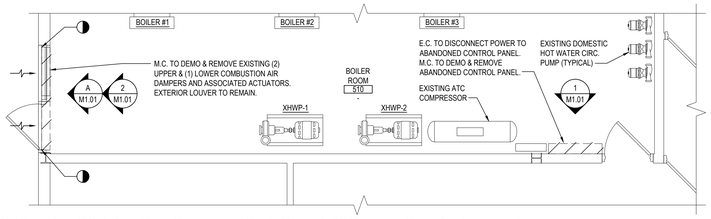
2 GROUND FLOOR DEMOLITION HVAC PART PLAN - AREA "C"

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



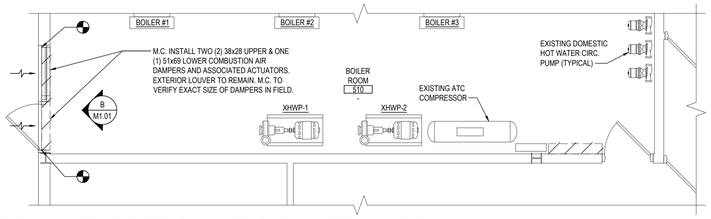
3 ROOF DEMOLITION HVAC PART PLAN - AREA "A" (EAST)

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



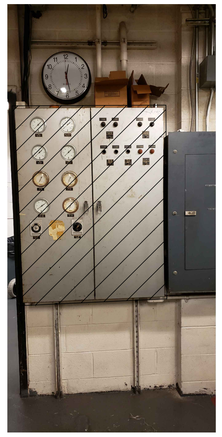
4 GROUND FLOOR DEMOLITION (ENLARGED BOILER ROOM) HVAC PART PLAN - AREA "A"

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

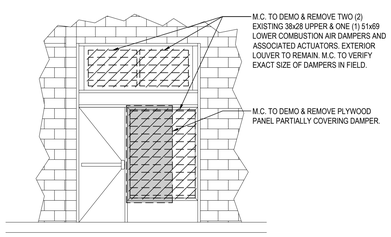


5 GROUND FLOOR PROPOSED (ENLARGED BOILER ROOM) HVAC PART PLAN - AREA "A"

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

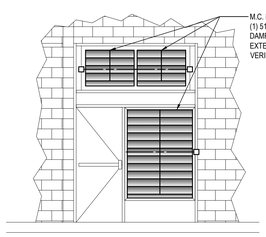


PANEL PHOTO DETAIL - 1



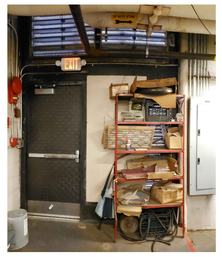
A ELEVATION - DEMOLITION

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



B ELEVATION - PROPOSED

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



DAMPER PHOTO DETAIL - 2

REV.	DATE	ITEM

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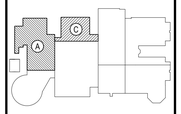

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DEMOLITION HVAC PART PLANS - AREA A & C

PROJECT

DWG TITLE

DRAWING BY: R.D.P.

CHECK BY: F.S.

NOTICE

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SED No: 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: DEMOLITION HVAC PART PLANS AREA A & C

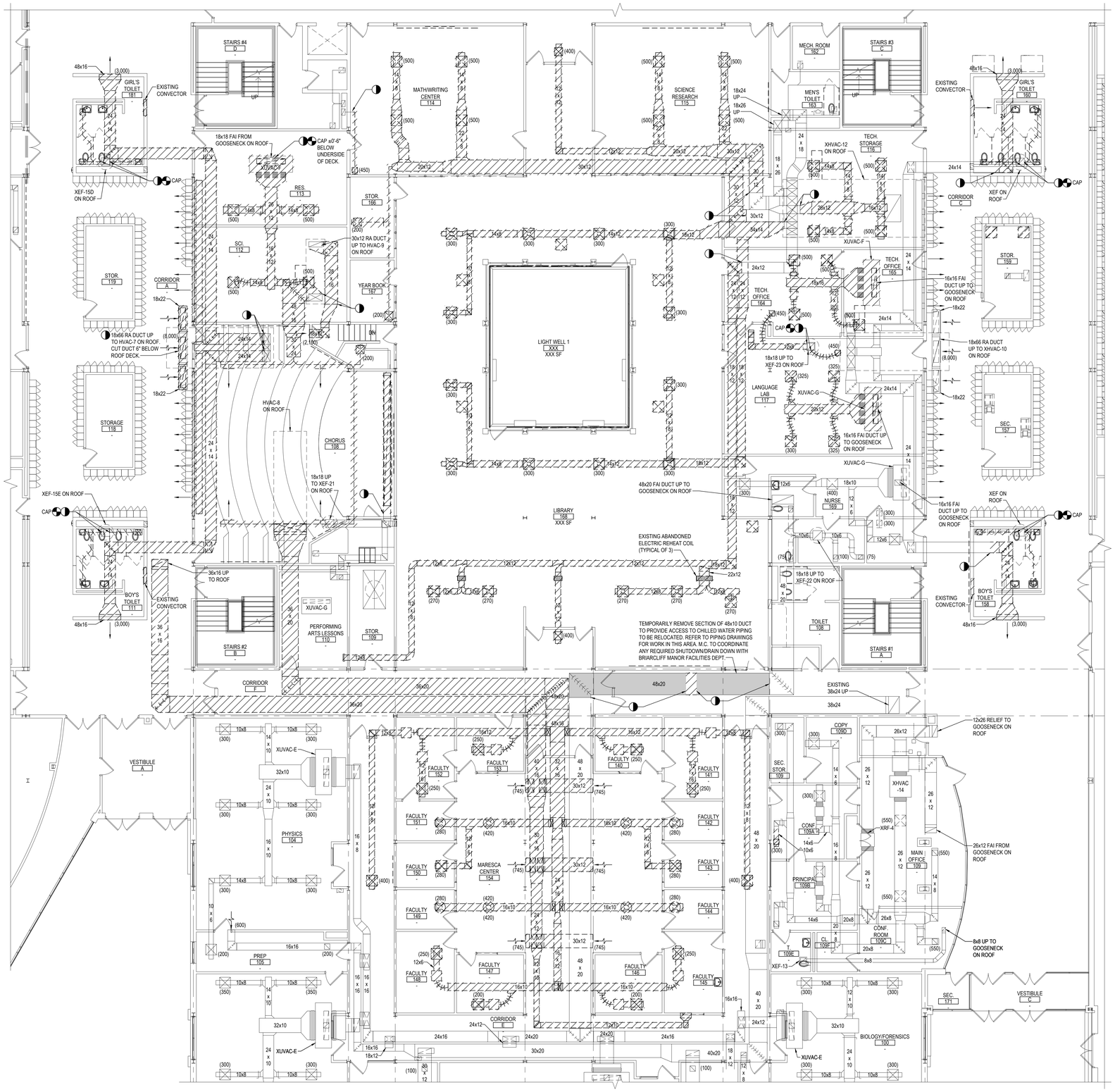
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M1.01 | HSMS



1 GROUND FLOOR DEMOLITION HVAC PART PLAN - AREA "D"

NOTE:

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

REV.	DATE	ITEM

NOTICE

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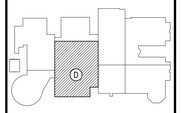

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DEMOLITION HVAC PART PLANS - AREA D

PROJECT

DWG TITLE

DRAWING BY: R.D.P.

CHECK BY: F.S.

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE DEMOLITION HVAC PART PLANS AREA D

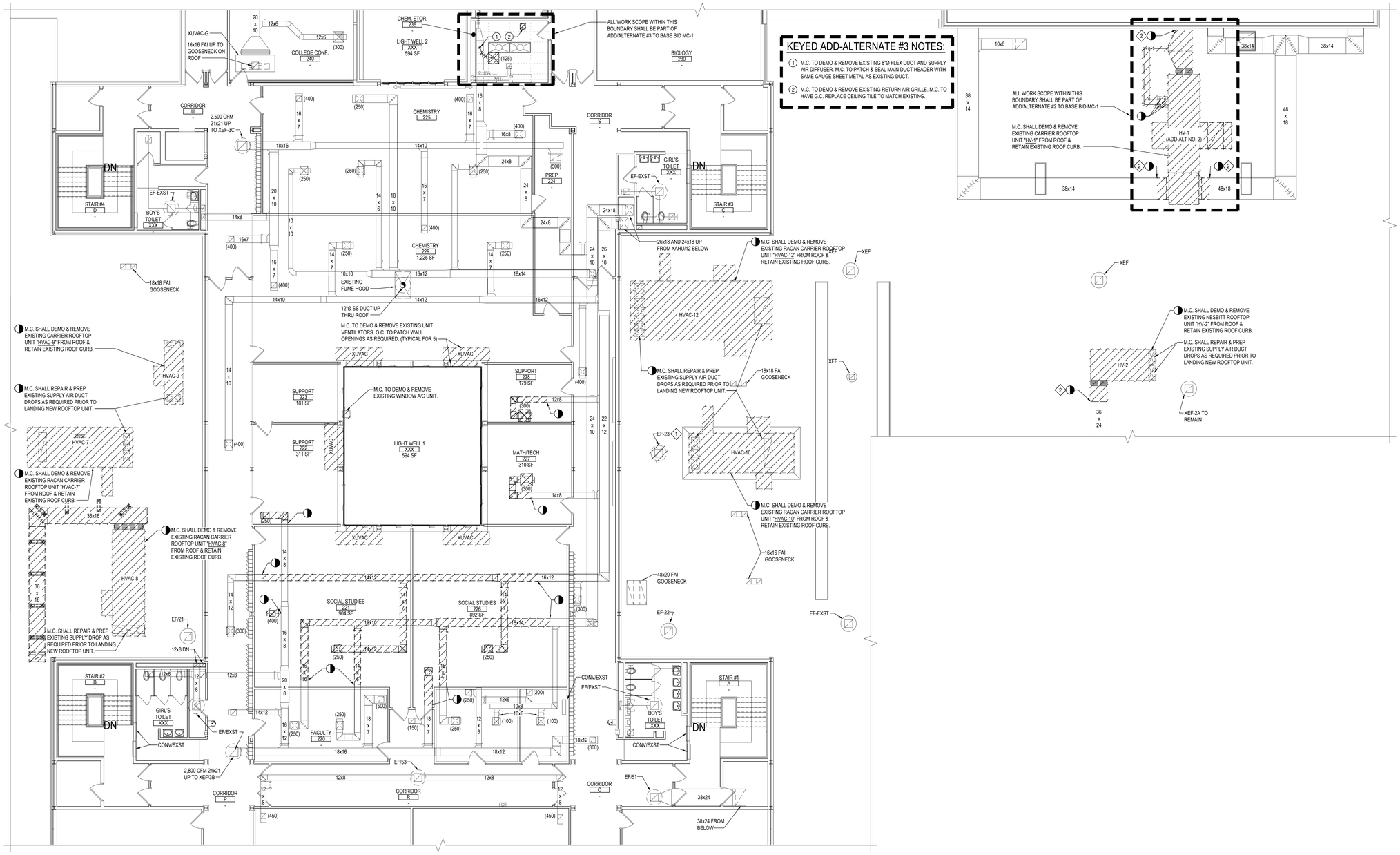
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M1.02 | HSMS



1 SECOND FLOOR AND ROOF DEMOLITION HVAC PART PLAN - AREA "D & E"

NOTE:

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

MECHANICAL KEYED DEMOLITION NOTES:

1. DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING ROOF CURB.
2. M.C. SHALL REPAIR & PREP EXISTING DUCT FOR CONNECTION TO NEW DUCTWORK.

PRE-CONSTRUCTION NOTE:

M.C. TO VERIFY EXISTING VOLTS, PHASE & HERTZ OF EXISTING FANS AND COORDINATE SUBMITTALS WITH EXISTING FIELD VERIFICATIONS. M.C. TO FIELD VERIFY EXISTING CURB DIMENSIONS PRIOR TO REMOVAL OF EXISTING CURBS.

REV.	DATE	ITEM

NOTICE

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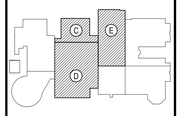

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

SECOND FLOOR AND ROOF HVAC
DEMOLITION PART PLAN - AREA C, D & E

DRAWING BY: R.D.P.

CHECK BY: F.S.

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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE 2ND FLOOR & ROOF HVAC HVAC DEMO PART PLAN - C, D & E

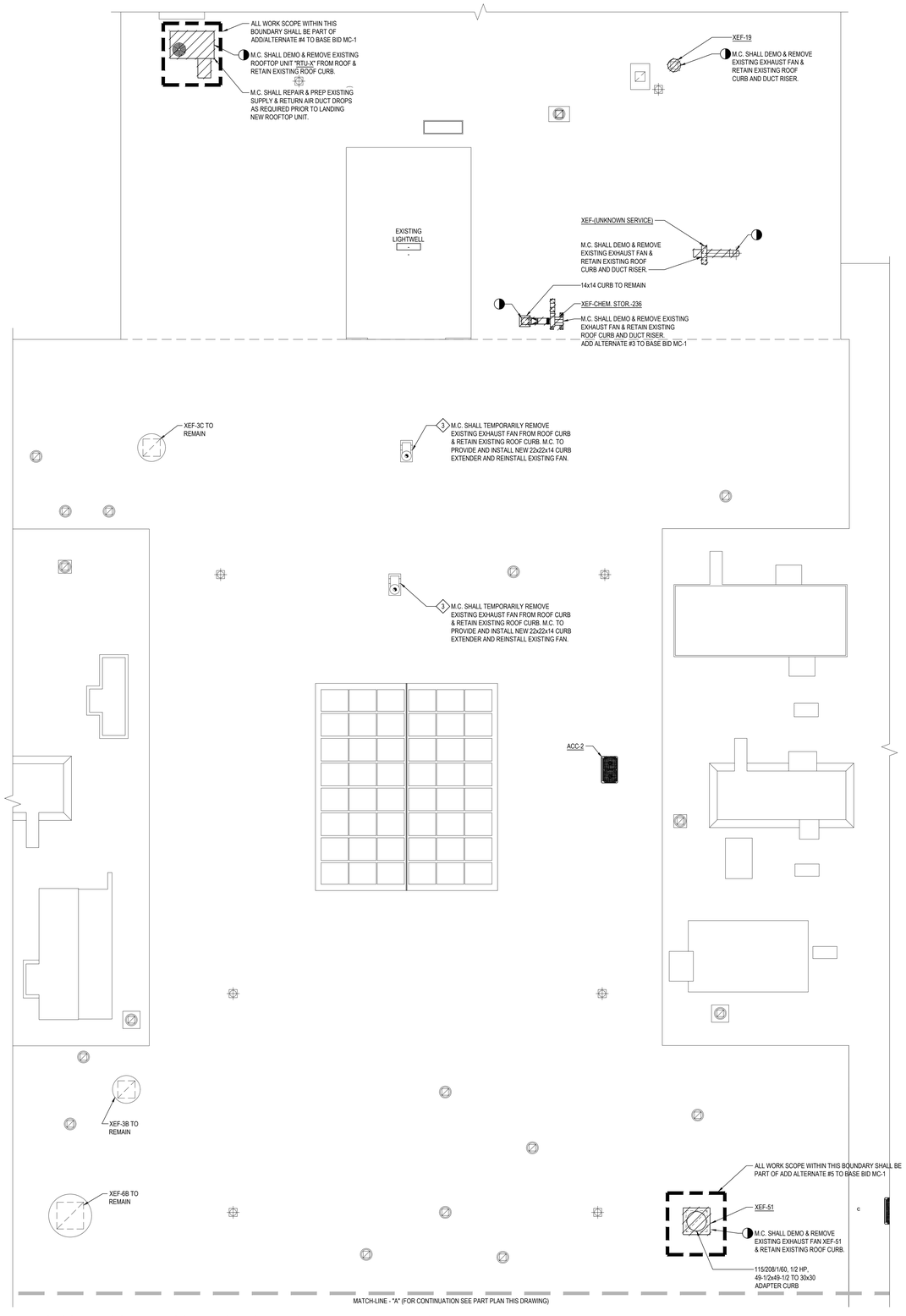
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

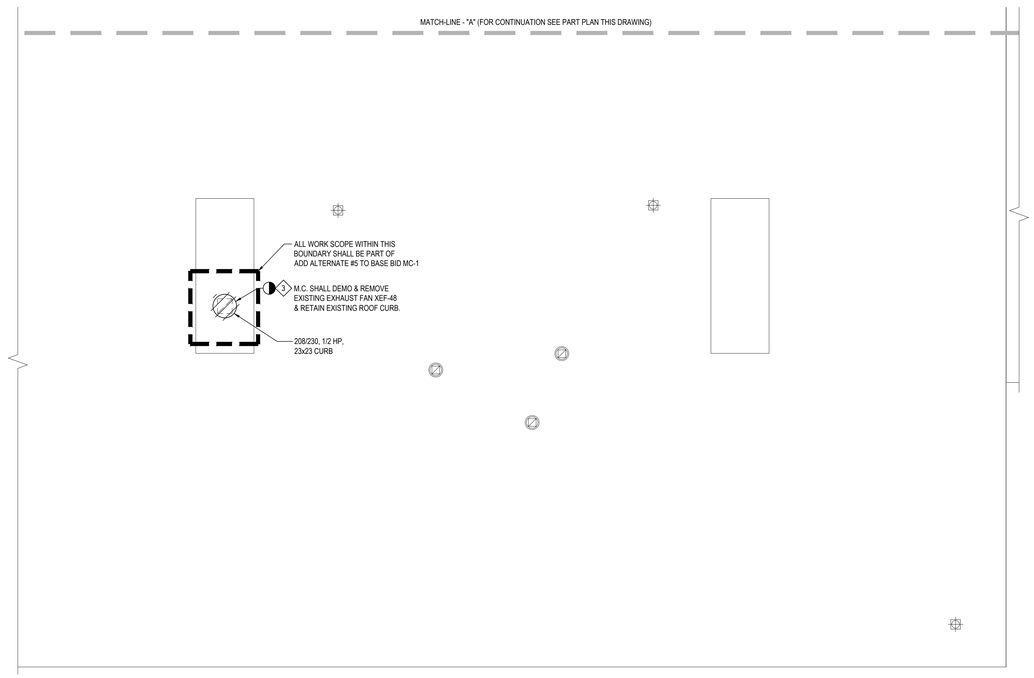
M1.03 | HSMS



1 SECOND FLOOR AND ROOF DEMOLITION HVAC PART PLAN - AREA "D & E"

NOTE:

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



2 SECOND FLOOR AND ROOF DEMOLITION HVAC PART PLAN - AREA "D"

NOTE:

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

MECHANICAL KEYED DEMOLITION NOTES:

1. DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING ROOF CURB.
2. M.C. SHALL REPAIR & PREP EXISTING DUCT FOR CONNECTION TO NEW DUCTWORK.
3. E.C. TO SAFE OFF EXHAUST FAN CIRCUIT AND EXTEND POWER WIRING AND CONDUIT AS REQUIRED. M.C. TO EXTEND CONTROL WIRING AS REQUIRED. G.C. TO BE PRESENT WHILE M.C. & E.C. ARE PERFORMING THEIR SCOPE OF WORK.

PRE-CONSTRUCTION NOTE:

M.C. TO VERIFY EXISTING VOLTS, PHASE & HERTZ OF EXISTING FANS AND COORDINATE SUBMITTALS WITH EXISTING FIELD VERIFICATIONS. M.C. TO FIELD VERIFY EXISTING CURB DIMENSIONS PRIOR TO REMOVAL OF EXISTING CURBS.

REV.	DATE	ITEM

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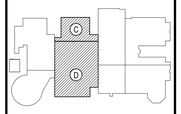

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

SECOND FLOOR AND ROOF HVAC
DEMOLITION PART PLAN - AREA C & D

DWG TITLE

DRAWING BY: R.D.P.

CHECK BY: F.S.

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE 2ND FLOOR ROOF HVAC DEMO PART PLAN - C & D

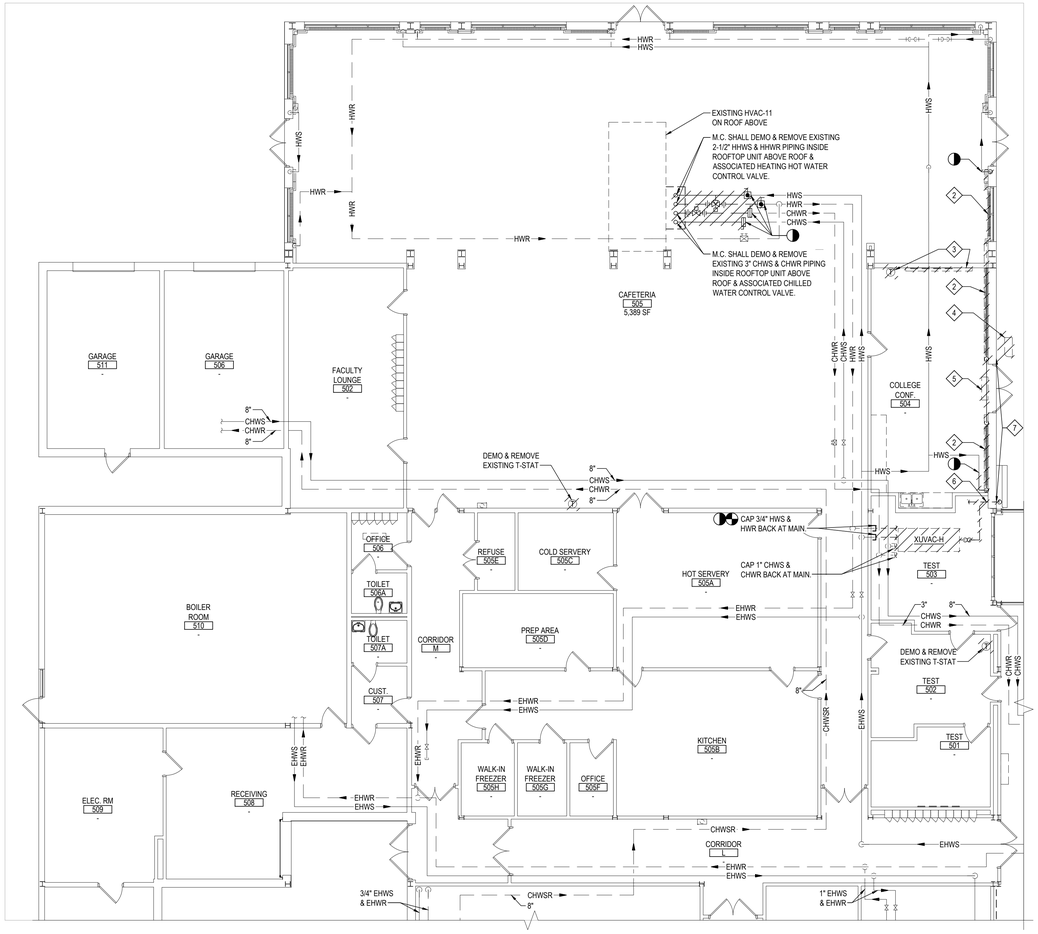
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

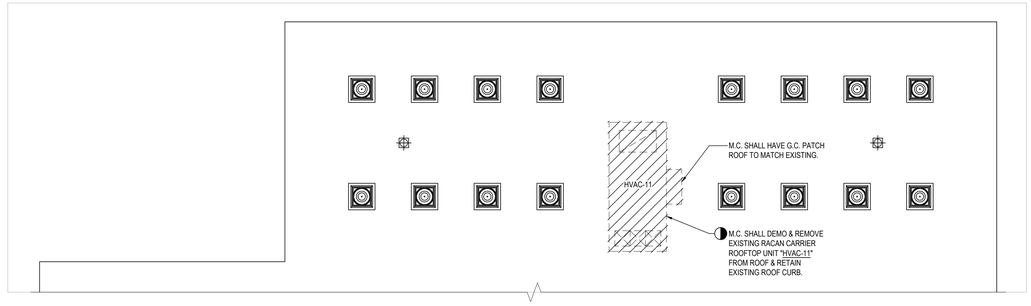
M1.04 | HSMS



1 GROUND FLOOR DEMOLITION PIPING PART PLAN - AREA "A"

NOTE:

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



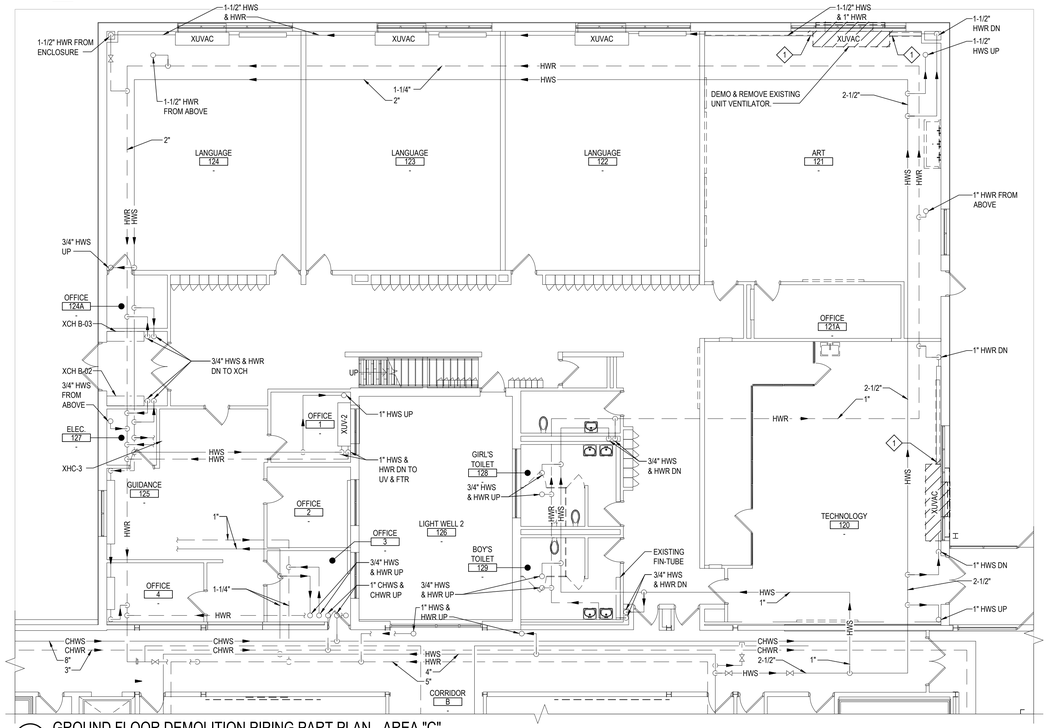
2 ROOF DEMOLITION PIPING PART PLAN - AREA "A"

NOTE:

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

MECHANICAL KEYED DEMOLITION NOTES:

1. M.C. TO CUT BACK EXISTING FIN-TUBE AND HOUSING AS REQUIRED TO ALLOW CLEARANCE FOR NEW U.V. INSTALLATION.
2. DEMO & REMOVE EXISTING FIN-TUBE RADIATION. CUT HWS & HWR BRANCH PIPING BACK AT MAIN.
3. DEMO & REMOVE EXISTING ELECTRIC FIN-TUBE RADIATION & ASSOCIATED T-STAT. M.C. TO COORDINATE REMOVAL WITH E.C.
4. DEMO & REMOVE EXISTING ACCU & ASSOCIATED REFRIGERANT PIPING.
5. DEMO & REMOVE EXISTING EXISTING SPLIT AC UNIT, ASSOCIATED REFRIGERANT AND CONDENSATE PIPING.
6. DEMO & REMOVE EXISTING 1" DR IN IT'S ENTIRETY.
7. M.C. TO PATCH WALL OPENINGS TO MATCH EXISTING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



4 GROUND FLOOR DEMOLITION PIPING PART PLAN - AREA "C"

NOTE:

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

REV.	DATE	ITEM

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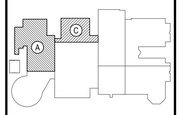

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

DEMOLITION PIPING PART PLAN - AREA A & C

DRAWING BY: R.D.P.

CHECK BY: F.S.

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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE DEMOLITION PIPING PART PLAN AREA A & C

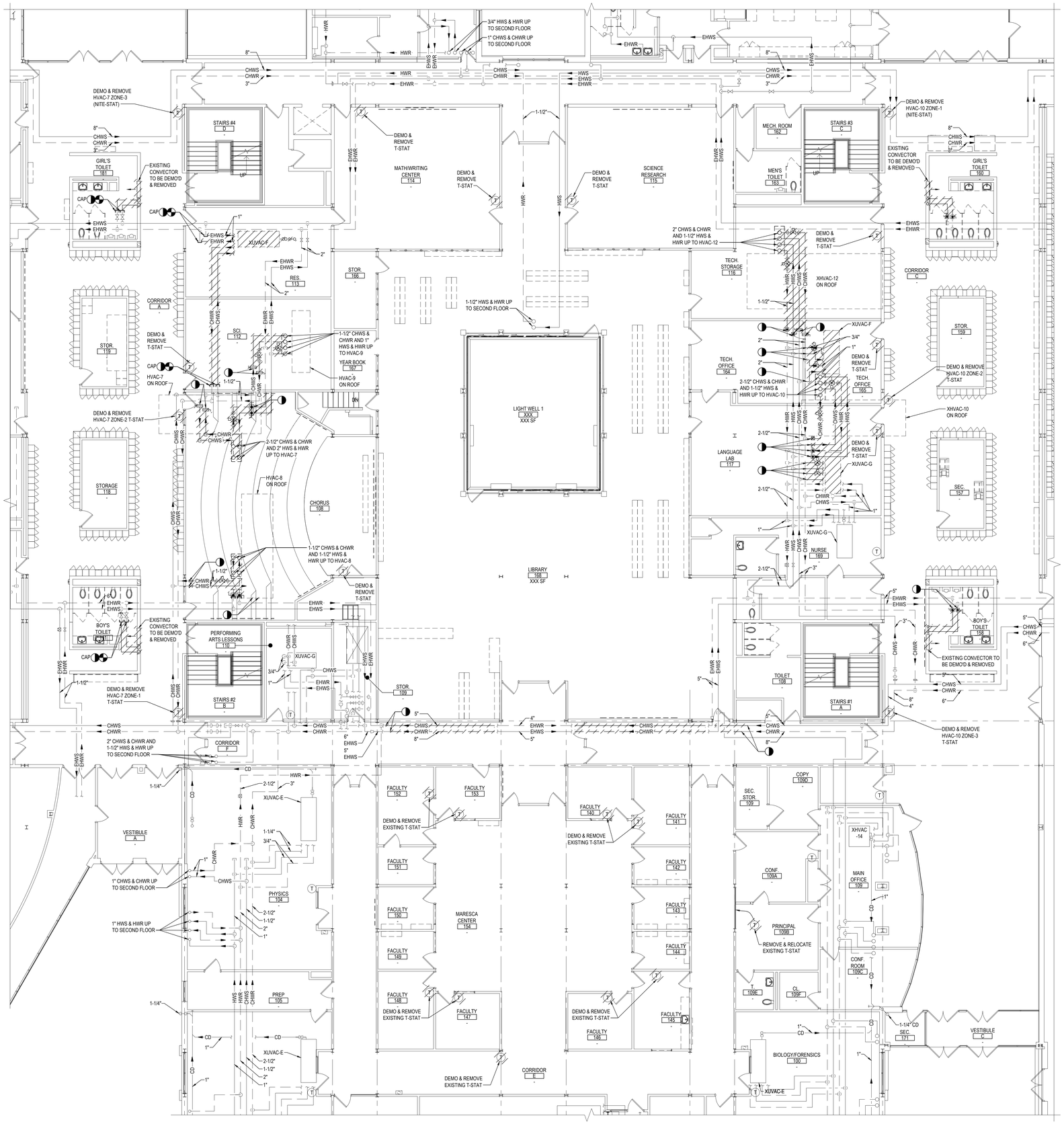
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

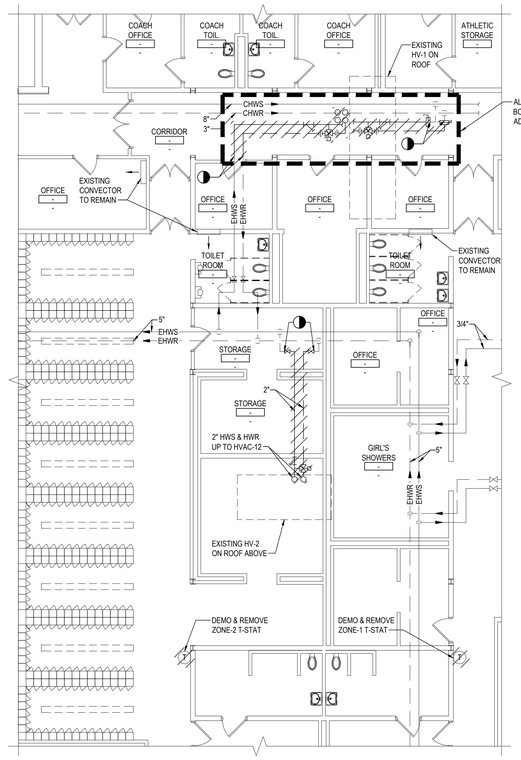
M1.05 | HSMS



1 GROUND FLOOR DEMOLITION PIPING PART PLAN - AREA "D"

NOTE:

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



1 GROUND FLOOR DEMOLITION PIPING PART PLAN - AREA "E"

NOTE:

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

REV.	DATE	ITEM

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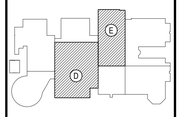

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444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

DEMOLITION PIPING PART PLANS - AREA D & E

DRAWING BY: R.D.P.

CHECK BY: F.S.

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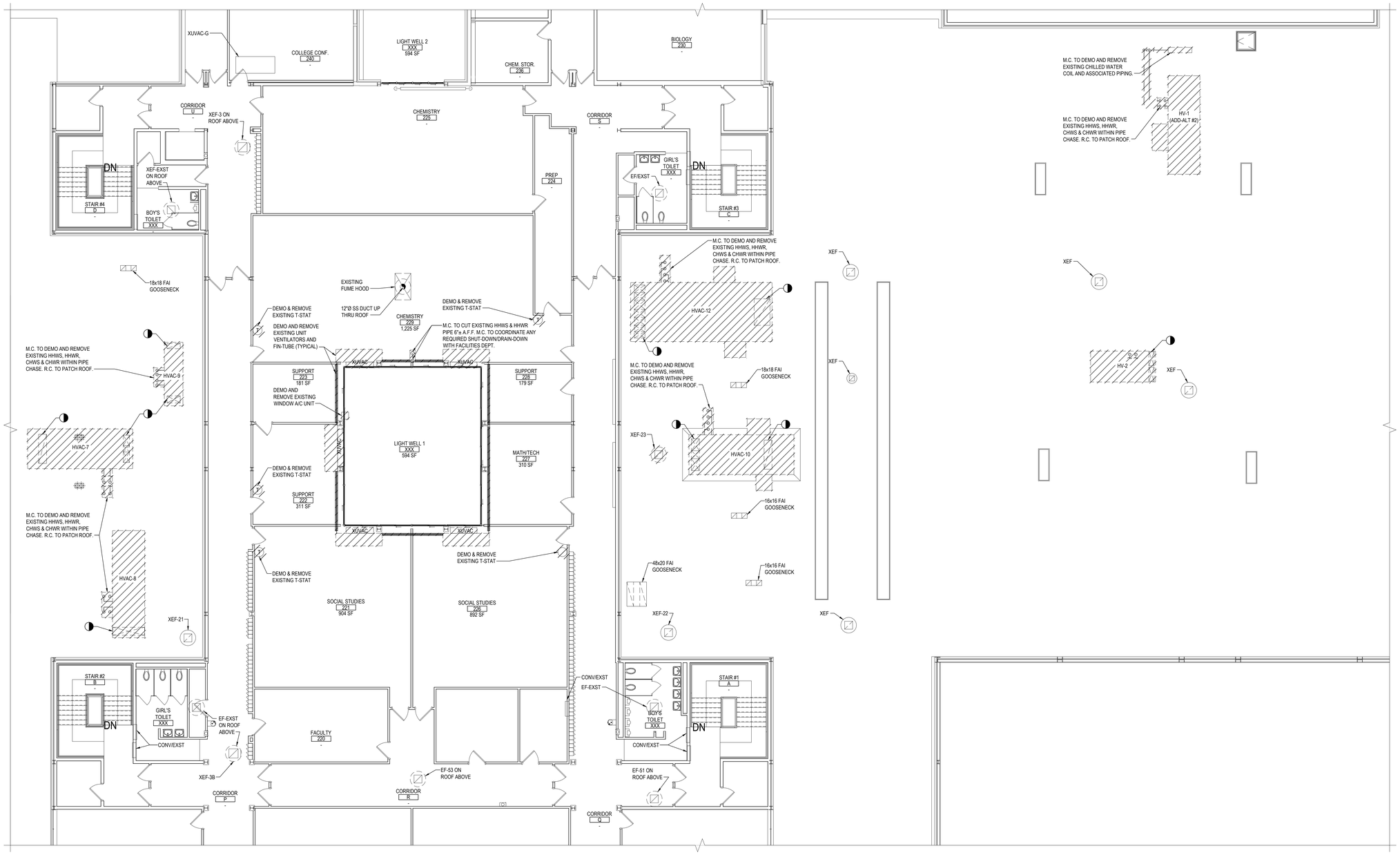

1 SECOND FLOOR AND ROOF DEMOLITION PIPING PART PLAN - AREA "D & E"

NOTE:

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

REV.	DATE	ITEM

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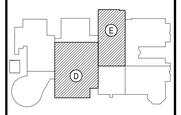

KEY PLAN

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PHASE 2 BOND IMPROVEMENTS
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444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

SECOND FLOOR AND ROOF DEMOLITION PIPING PART PLAN - AREA D & E

DRAWING BY: R.D.P.

CHECK BY: F.S.

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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE DEMOLITION ROOF PIPING PART PLAN - AREA D & E

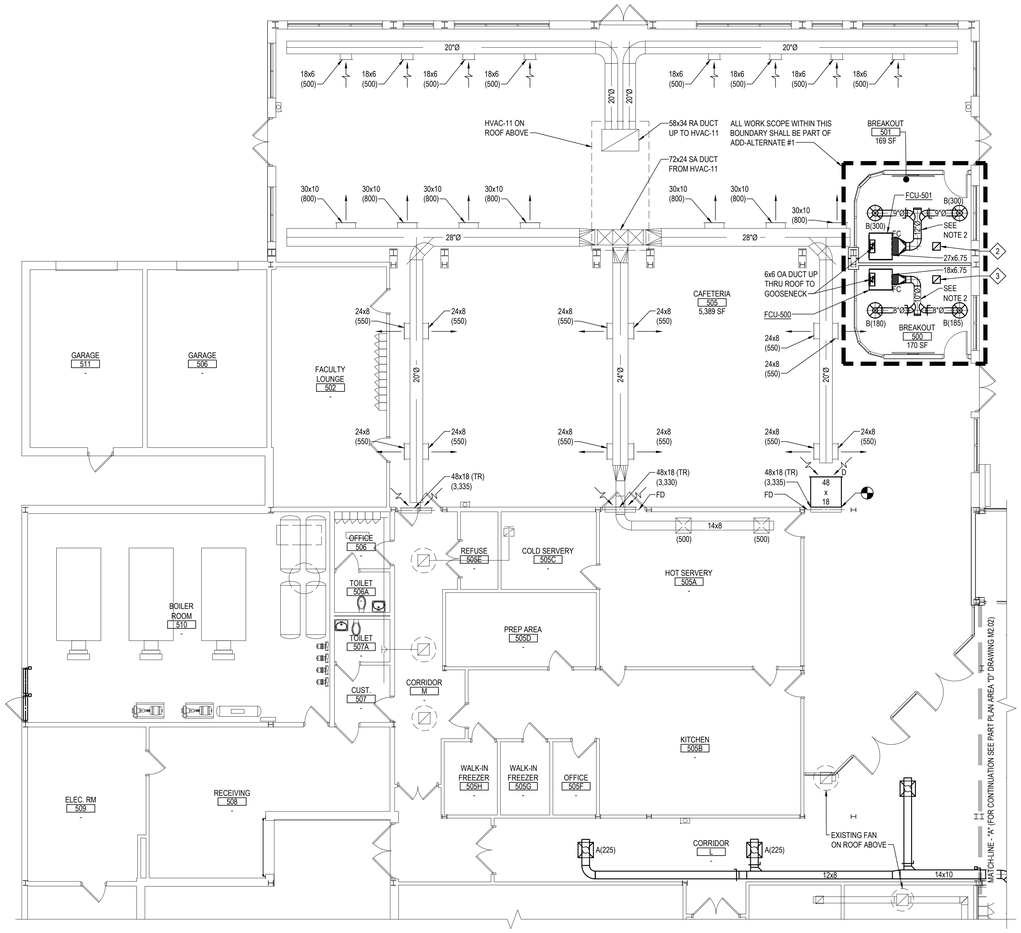
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

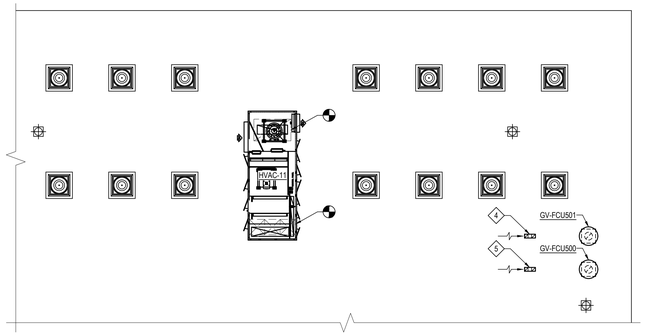
M1.07 | HSMS



1 GROUND FLOOR PROPOSED HVAC PART PLAN - AREA "A"

NOTE:

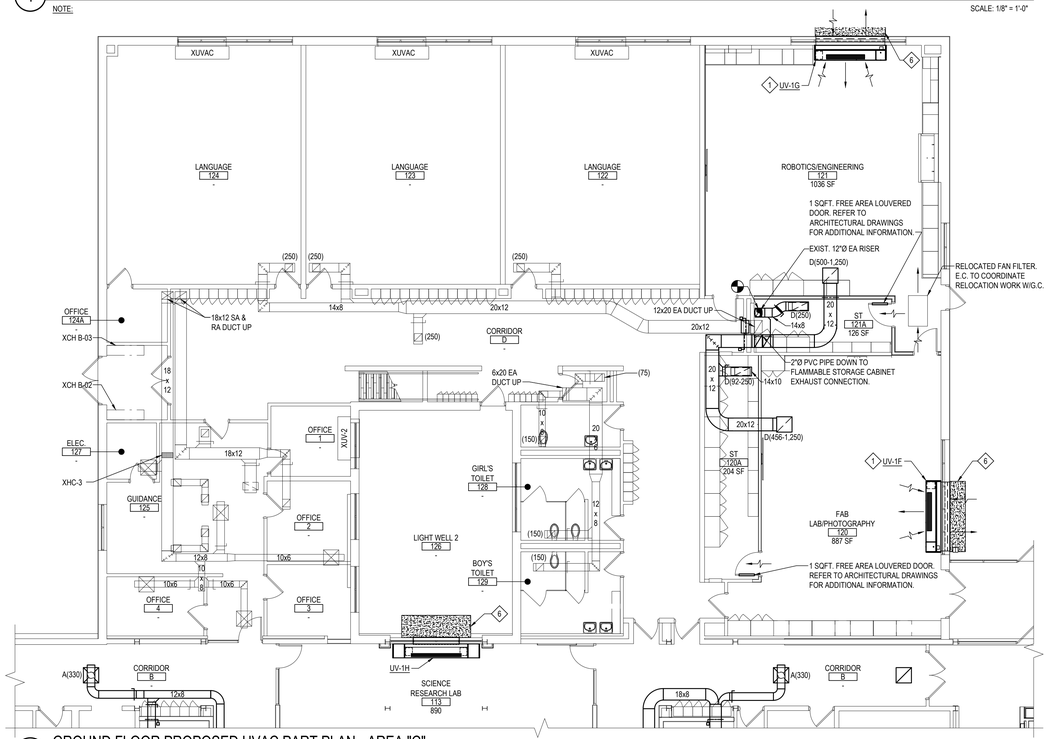
SCALE: 1/8" = 1'-0"



3 ROOF PROPOSED HVAC PART PLAN - AREA "A"

NOTE:

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



2 GROUND FLOOR PROPOSED HVAC PART PLAN - AREA "C"

NOTE:

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

NEW WORK NOTE:

ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL BE INTERNALLY LINED. ALL HIDDEN DUCTWORK SHALL SHALL EXTERNALLY WRAPPED WITH INSULATION. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NEW WORK KEYED NOTES:

1. M.C. TO HAVE G.C. EXPAND EXISTING BRICK WALL OPENING (EQUALLY FROM CENTERLINE OF EXISTING OPENING) TO 108x28. M.C. TO FURNISH & INSTALL NEW OUTDOOR AIR INTAKE NON-FLANGED LOUVER. REFER TO SCHEDULES & DETAILS ON DRAWING M6.05 FOR ADDITIONAL INFORMATION. M.C. TO INSTALL NEW UNIT VENTILATOR SHOWN & CENTER IT WITH EXISTING OUTSIDE AIR INTAKE/DISCHARGE OPENING ON EXTERIOR WALL SHOWN. NEW UNIT VENTILATOR SHALL BE A FACE-AND-BYPASS DAMPER TYPE. M.C. TO PROVIDE 10" LENGTH 18-GAUGE FIN TUBE COVERS ON EACH SIDE OF NEW UNIT VENTILATOR. M.C. TO VERIFY ALL DIMENSIONS PRIOR TO START OF ANY WORK. REFER TO SCHEDULES, DETAILS AND MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. 12x12 RELIEF AIR DUCT UP THRU ROOF TO GRAVITY VENTILATOR GV-FCU501. TERMINATE ±1'-0" BELOW UNDERSIDE OF DECK W/WMS.
3. 12x12 RELIEF AIR DUCT UP THRU ROOF TO GRAVITY VENTILATOR GV-FCU500. TERMINATE ±1'-0" BELOW UNDERSIDE OF DECK W/WMS.
4. 6x6 OA DUCT DN THRU ROOF TO FCU-501. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
5. 6x6 OA DUCT DN THRU ROOF TO FCU-500. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
6. CONCRETE PAD (REFER TO ARCH. DRAWINGS FOR ADDITIONAL INFORMATION)

MECHANICAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL BRANCH DUCTS SERVING AIR DEVICES SHALL BE 12x6
2. M.C. SHALL PAINT ALL EXPOSED AND PARTIALLY EXPOSED (DUCTS ABOVE OPEN SLAT CEILINGS) DUCT INSULATION. COORDINATE DUCT INSULATION TO BE PAINTED WITH ARCHITECT APPROVED REFLECTED CEILING PLANS. PAINT COLOR AND TYPE TO BE SPECIFIED BY ARCHITECT OF RECORD. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

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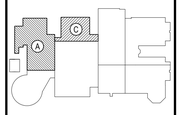

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED HVAC PLAN - AREA A & C

DRAWING BY: R.D.P.

CHECK BY: F.S.

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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PROPOSED HVAC PLAN AREA A & C

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

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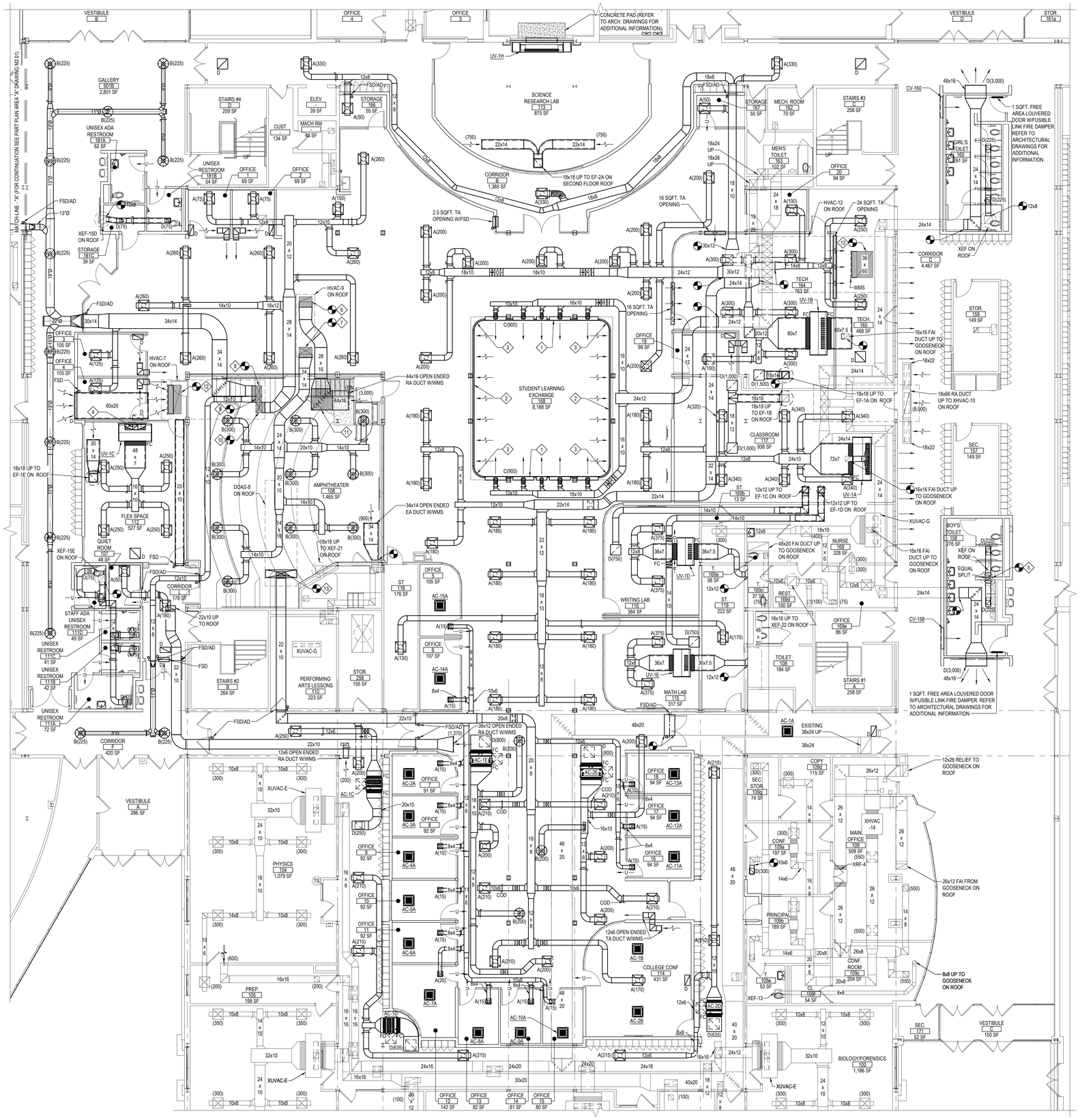


1 GROUND FLOOR PROPOSED HVAC PART PLAN - AREA "D"

NOTE:

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

KEYED MECHANICAL NOTES:

1. 21'-10-3/4" LONG CONTINUOUS SUPPLY AIR, LINEAR SLOT DIFFUSER W/18'-0" ACTIVE LENGTH @ 50 CFM/L.F. SHADED AREA INDICATES BLACK, BLANK-OFF PLATE INSTALLED BEHIND INACTIVE PORTION OF LINEAR. REFER TO LINEAR PATTERN CONTROLLER NOTE BELOW.
2. 25'-11" LONG CONTINUOUS RETURN AIR, LINEAR SLOT DIFFUSER
3. CONTINUOUS LINEAR DIFFUSERS - FACTORY CURVED MITER CORNERS TO BE FURNISHED BY ANEMOSTAT.
4. 16x16 OA DUCT UP THRU ROOF TO GOOSENECK.
5. CONNECT TO EXISTING 18x18 BELOW UNDERSIDE OF DECK. TRANSITION TO 12x12 IN DROP.
6. SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 30x12 RA DUCT UP TO HVAC-9 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 30x16 SA DUCT UP TO HVAC-9 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 14x24 (ZONE 1) SA DUCT UP TO HVAC-7 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 14x14 (ZONE 2) SA DUCT UP TO HVAC-7 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 14x24 (ZONE 3) SA DUCT UP TO HVAC-7 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. SHADED AREA REPRESENTS 44x16 RA DUCT SILENCER ELBOW. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 16x66 RA DUCT UP TO HVAC-7 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 22x10 SA DUCT UP TO DOAS-8 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MECHANICAL NOTES:

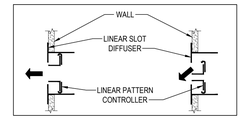
1. UNLESS NOTED OTHERWISE, ALL BRANCH DUCTS SERVING AIR DEVICES SHALL BE 12x6
2. M.C. SHALL PAINT ALL EXPOSED AND PARTIALLY EXPOSED (DUCTS ABOVE OPEN SLAT CEILINGS) DUCT INSULATION. COORDINATE DUCT INSULATION TO BE PAINTED WITH ARCHITECT APPROVED REFLECTED CEILING PLANS. PAINT COLOR AND TYPE TO BE SPECIFIED BY ARCHITECT OF RECORD. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

NEW WORK NOTE:

ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL BE INTERNALLY LINED. ALL HIDDEN DUCTWORK SHALL SHALL EXTERNALLY WRAPPED WITH INSULATION. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LINEAR PATTERN CONTROLLER NOTES:

1. M.C. TO ADJUST (SUPPLY AIR) LINEAR SLOT DIFFUSER, PATTERN CONTROLLERS AS SHOWN, (ALTERNATING EACH 2'-0" SECTION) BETWEEN HORIZONTAL THROW AND 45° DOWNWARD THROW PATTERNS.



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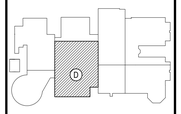

KEY PLAN

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PROPOSED HVAC PLAN - AREA D

PROJECT

DWG TITLE

DRAWING BY: R.D.P.

CHECK BY: F.S.

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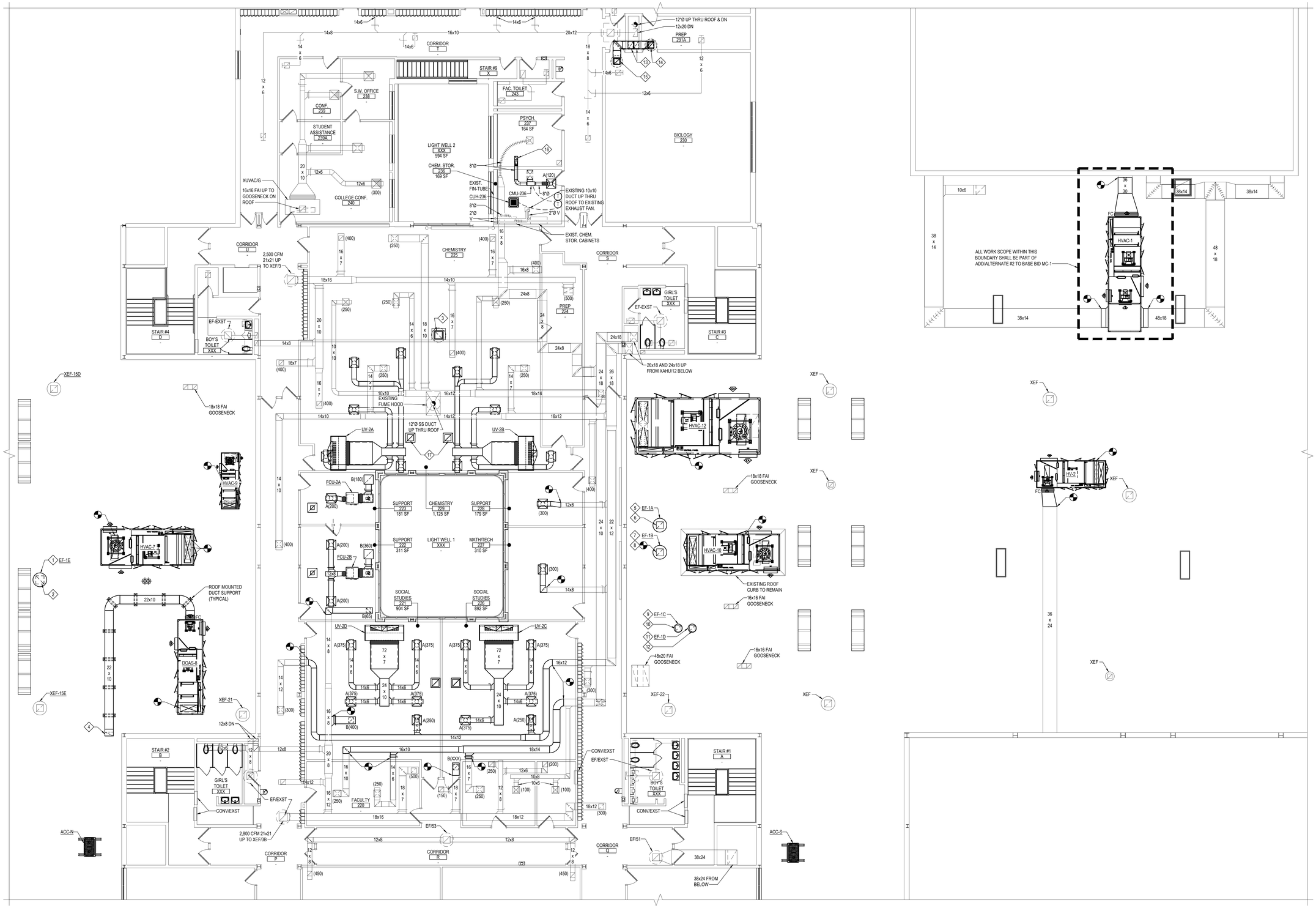
SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	PROPOSED HVAC PLAN AREA D
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

M2.02 | HSMS



1 PROPOSED HVAC SECOND FLOOR AND ROOF PART PLAN - AREA "D & E"

NOTE:

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

KEYED MECHANICAL NOTES:

1. M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1E). M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
2. 18x18 A.L. EA DUCT DN THRU ROOF, (FOR CONTINUATION, SEE DRAWING M2.02).
3. 18x18 A.L. EA DUCT UP THRU ROOF & DOWN THRU SLAB, (FOR CONTINUATION, SEE DRAWING M2.02).
4. 22x10 RA DUCT DN THRU EXISTING ROOF OPENING. M.C. TO PROVIDE R.C. WITH 18" HIGH INSULATED CURB. R.C. TO INSTALL. M.C. TO HAVE R.C. PATCH REMAINING UNUSED PORTION OF OPENING TO MATCH EXISTING ROOF AND FLASH NEW DUCTWORK.
5. M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1A). M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
6. 18x18 A.L. EA DUCT DN THRU ROOF, (FOR CONTINUATION, SEE DRAWING M2.02).
7. M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1B) ON EXISTING ROOF CURB. M.C. TO FURNISH NEW ROOF CURB ADAPTER. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
8. M.C. EXTEND EXISTING 18x18 A.L. EA DUCT AS REQUIRED, (FOR CONTINUATION, SEE DRAWING M2.02).
9. M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1C). M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
10. 12x12 A.L. EA DUCT DN THRU ROOF, (FOR CONTINUATION, SEE DRAWING M2.02).
11. M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1D). M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
12. 12x12 A.L. EA DUCT DN THRU ROOF, (FOR CONTINUATION, SEE DRAWING M2.02).
13. 12x20 ACOUSTICALLY LINED EA DUCT DN THRU EXISTING SHAFT TO GROUND FLOOR. (FOR CONTINUATION, SEE DRAWING M2.01).
14. 16x16 ACOUSTICALLY LINED EA DUCT UP THRU ROOF TO EF-2B. (FOR CONTINUATION, SEE DRAWING M2.01).
15. 16x16 ACOUSTICALLY LINED EA DUCT UP THRU ROOF TO EF-2A. (FOR CONTINUATION, SEE DRAWING M2.01).
16. 18x18 OA DUCT UP THRU ROOF TO GOOSENECK. (FOR CONTINUATION, SEE DRAWING M3.03).
17. 16x16 OA DUCT UP THRU ROOF TO GRAVITY VENTILATOR. (FOR CONTINUATION, SEE DRAWING M3.03).

NEW WORK NOTE:

ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL BE INTERNALLY LINED. ALL HIDDEN DUCTWORK SHALL SHALL EXTERNALLY WRAPPED WITH INSULATION. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REV.	DATE	ITEM

NOTICE

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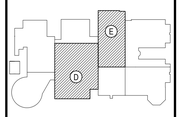

KEY PLAN

NOT TO SCALE

PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: PROPOSED HVAC SECOND FLOOR AND ROOF PART PLAN - AREA D & E

DRAWING BY:	R.D.P.
CHECK BY:	F.S.

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SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	PROPOSED HVAC ROOF PLAN AREA D & E
SCALE:	AS NOTED
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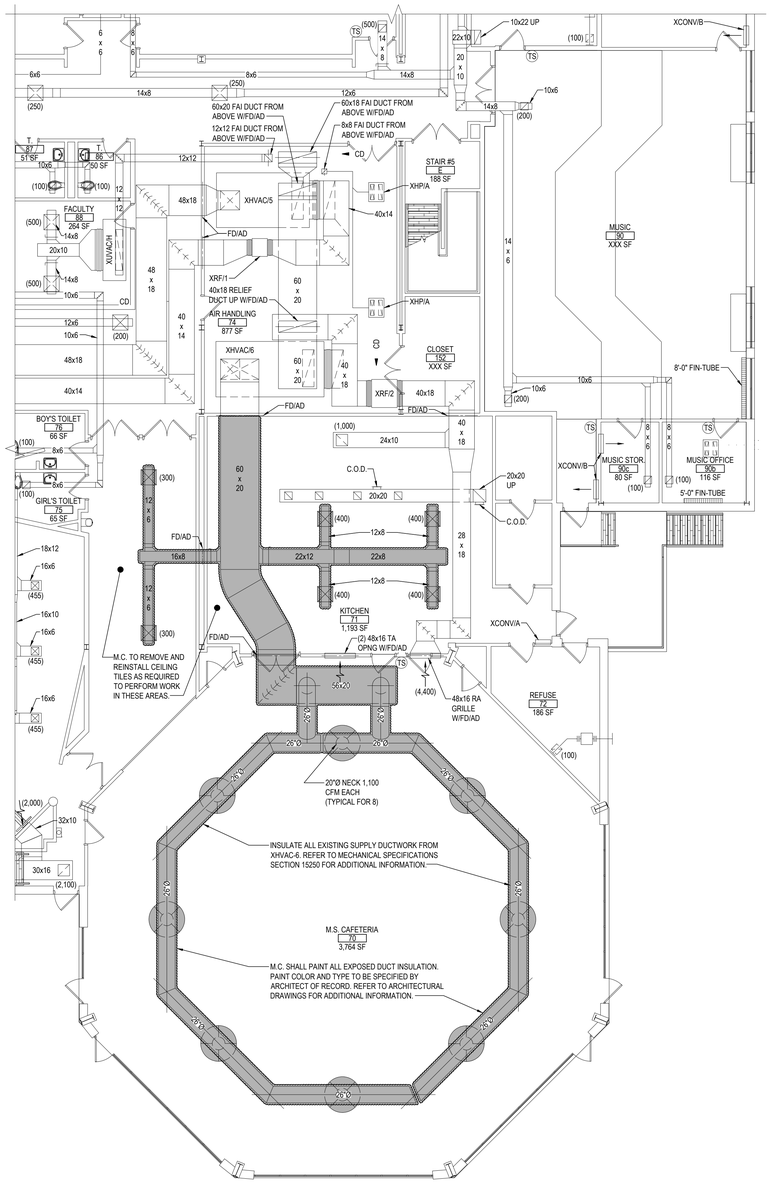
BID PICK-UP:	
FILE No:	21-274C

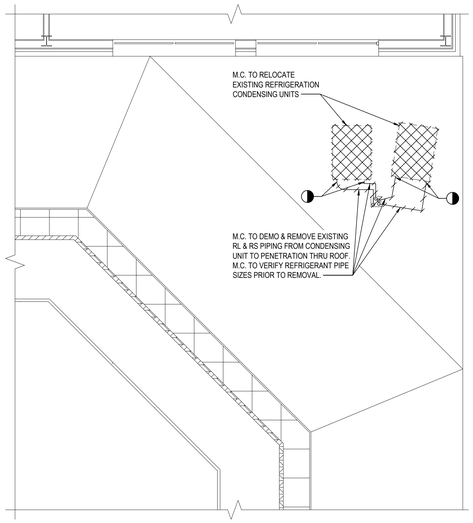
M2.03 | HSMS



PROPOSED HVAC PART PLAN - AREA "H"

NOTE:
ALL DUCTWORK SHOWN IS EXISTING.

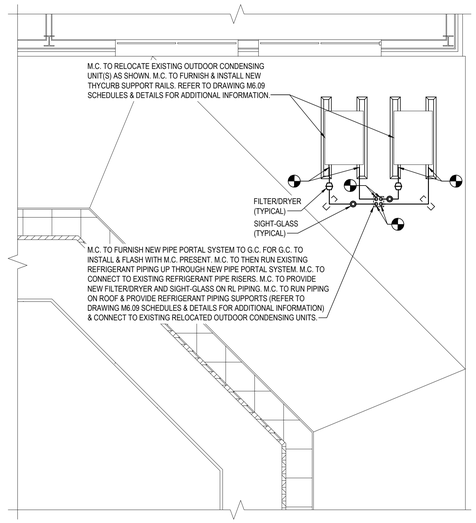
SCALE: 1/8" = 1'-0"



DEMOLITION HVAC PART PLAN - AREA "H" - ROOF

NOTE:

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



PROPOSED HVAC PART PLAN - AREA "H" - ROOF

NOTE:

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

REV.	DATE	ITEM

NOTICE

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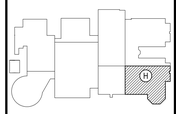

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

DEMOLITION AND PROPOSED
HVAC PLAN - AREA H

DRAWING BY: R.D.P.

CHECK BY: F.S.

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE DEMOLITION AND PROPOSED HVAC PLAN - AREA H

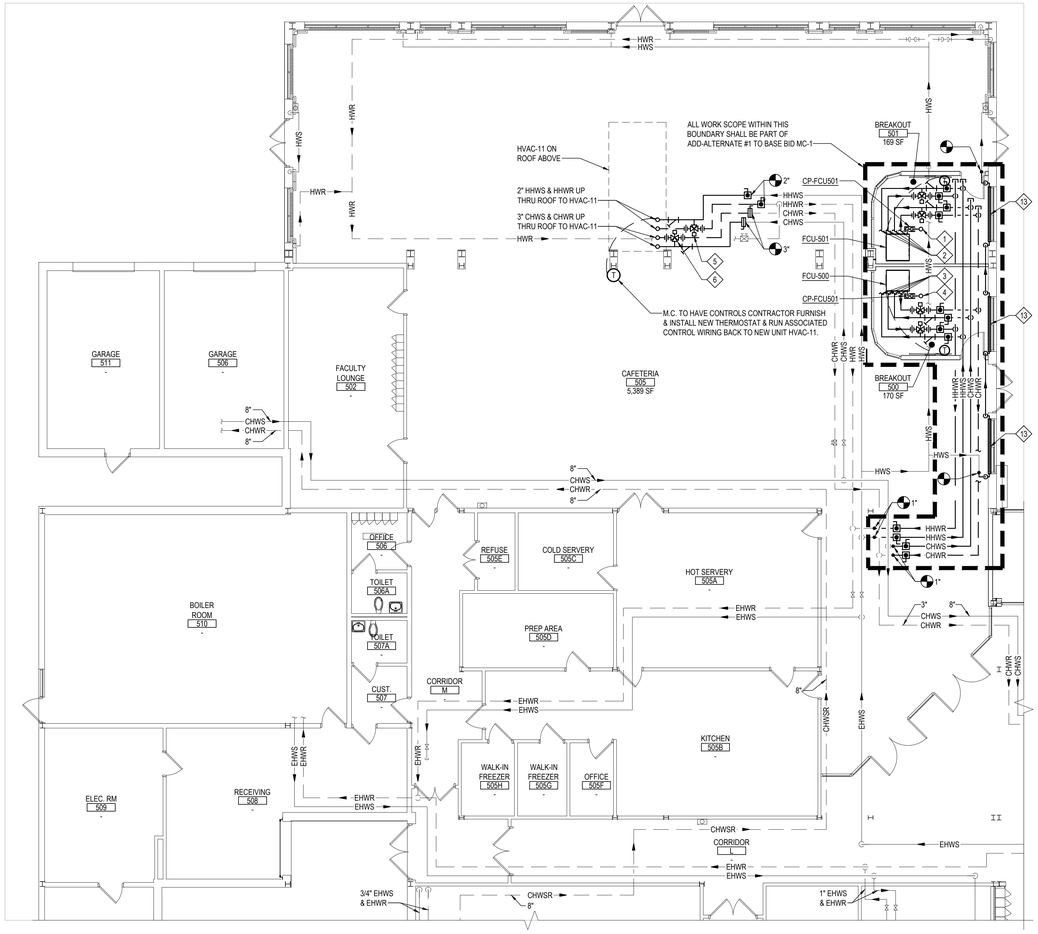
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

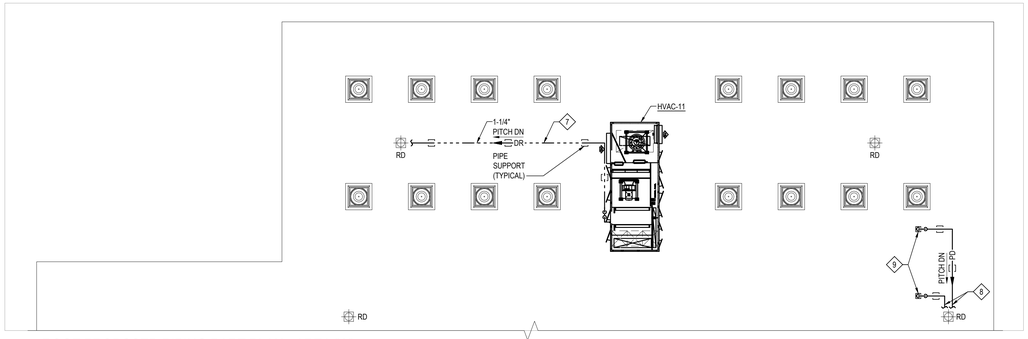
M2.04 | HSMS



1 GROUND FLOOR PROPOSED PIPING PART PLAN - AREA "A"

NOTE:

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



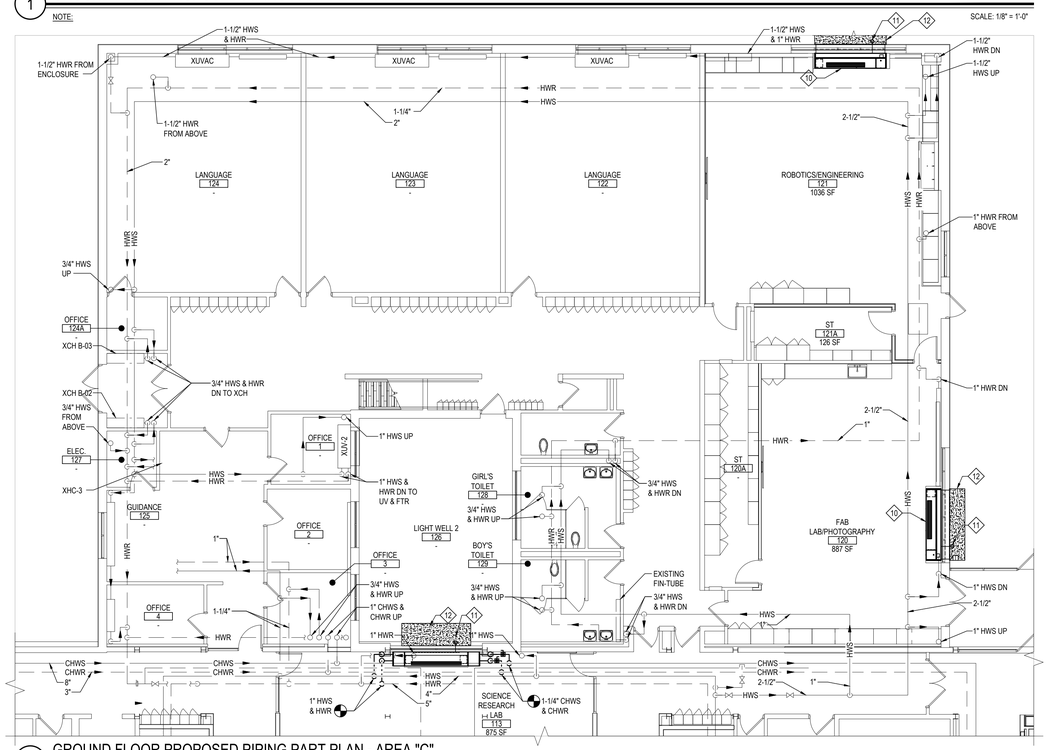
2 ROOF PROPOSED PIPING PART PLAN - AREA "A"

NOTE:

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

KEYED MECHANICAL NOTES:

1. 3/4" PD UP THRU ROOF.
2. 3/4" CHWS, CHWR, HHWS & HHWR TO FCU-501.
3. 3/4" PD UP THRU ROOF.
4. 3/4" CHWS, CHWR, HHWS & HHWR TO FCU-501.
5. M.C. TO HAVE CONTROLS CONTRACTOR FURNISH & INSTALL NEW DDC HOT WATER CONTROL VALVE FOR HVAC-11. REFER TO SCHEDULES, DETAILS AND SPECIFICATIONS FOR FURTHER DETAILS.
6. M.C. TO HAVE CONTROLS CONTRACTOR FURNISH & INSTALL NEW DDC CHILLED WATER CONTROL VALVE FOR HVAC-11. REFER TO SCHEDULES, DETAILS AND SPECIFICATIONS FOR FURTHER DETAILS.
7. M.C. TO RUN 1-1/4" CONDENSATE DRAIN (DR) TO NEAREST ROOF DRAIN. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE.
8. M.C. TO RUN 3/4" CONDENSATE PUMP DISCHARGE (PD) TO NEAREST ROOF DRAIN. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE.
9. M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW CONDENSATE DISCHARGE PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN PIPING ON ROOF & PROVIDE PIPING SUPPORTS (REFER TO DRAWING M6.09 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION).
10. M.C. TO INSTALL NEW SELF-CONTAINED UNIT VENTILATOR SHOWN & CENTER IT WITH EXISTING OUTSIDE AIR INTAKE/DISCHARGE OPENING ON EXTERIOR WALL SHOWN. G.C. TO EXPAND EXISTING WALL OPENING AS REQUIRED TO ALLOW INSTALLATION OF NEW UNIT VENTILATOR. M.C. TO ALSO INSTALL NEW 1-1/4" HWS & 1-1/2" HWR PIPING PASSING BEHIND NEW UNIT VENTILATOR WIDTH INSIDE THE FULL ADAPTOR BACK OF NEW UNIT VENTILATOR. M.C. TO INSTALL NEW 1" HWS & HWR BRANCH PIPING GOING TO NEW UNIT VENTILATOR HOT WATER COIL. NEW UNIT VENTILATOR SHALL BE A FACE-AND-BYPASS DAMPER TYPE. M.C. TO ALSO PROVIDE 10" LENGTH 18-GAUGE FIN TUBE COVERS ON EACH SIDE OF NEW UNIT VENTILATOR. M.C. TO VERIFY ALL DIMENSIONS PRIOR TO START OF ANY WORK. ALL EXISTING CABINETRY TO REMAIN IN PLACE. EXISTING RELIEF AIR SYSTEM SHALL REMAIN & BE RE-USED. REFER TO SCHEDULES & DETAILS ON DRAWING M6.02 FOR ADDITIONAL INFORMATION.
11. M.C. TO RUN NEW 3/4" TYPE K HARD COPPER PIPING FOR CONDENSATE DRAIN LINE VIA GRAVITY OUT OF EXTERIOR WALL AS SHOWN WITH TAMPER RESISTANT SCREEN ON DISCHARGE OPENING. G.C. TO CUT OPENING FOR 3/4" CONDENSATE DRAIN PIPING WITH M.C. PRESENT.
12. CONCRETE PAD (REFER TO ARCH. DRAWINGS FOR ADDITIONAL INFORMATION)
13. 7'-0" ACTIVE LENGTH FINE-TUBE RADIATION, (800 BTU/LF). PEDESTAL TYPE ENCLOSURE. REFER TO SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION



4 GROUND FLOOR PROPOSED PIPING PART PLAN - AREA "C"

NOTE:

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

REV.	DATE	ITEM

NOTICE

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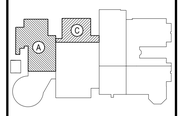

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED PIPING PLAN - AREA A & C

DRAWING BY: R.D.P.

CHECK BY: F.S.

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PROPOSED PIPING PLAN AREA A & C

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

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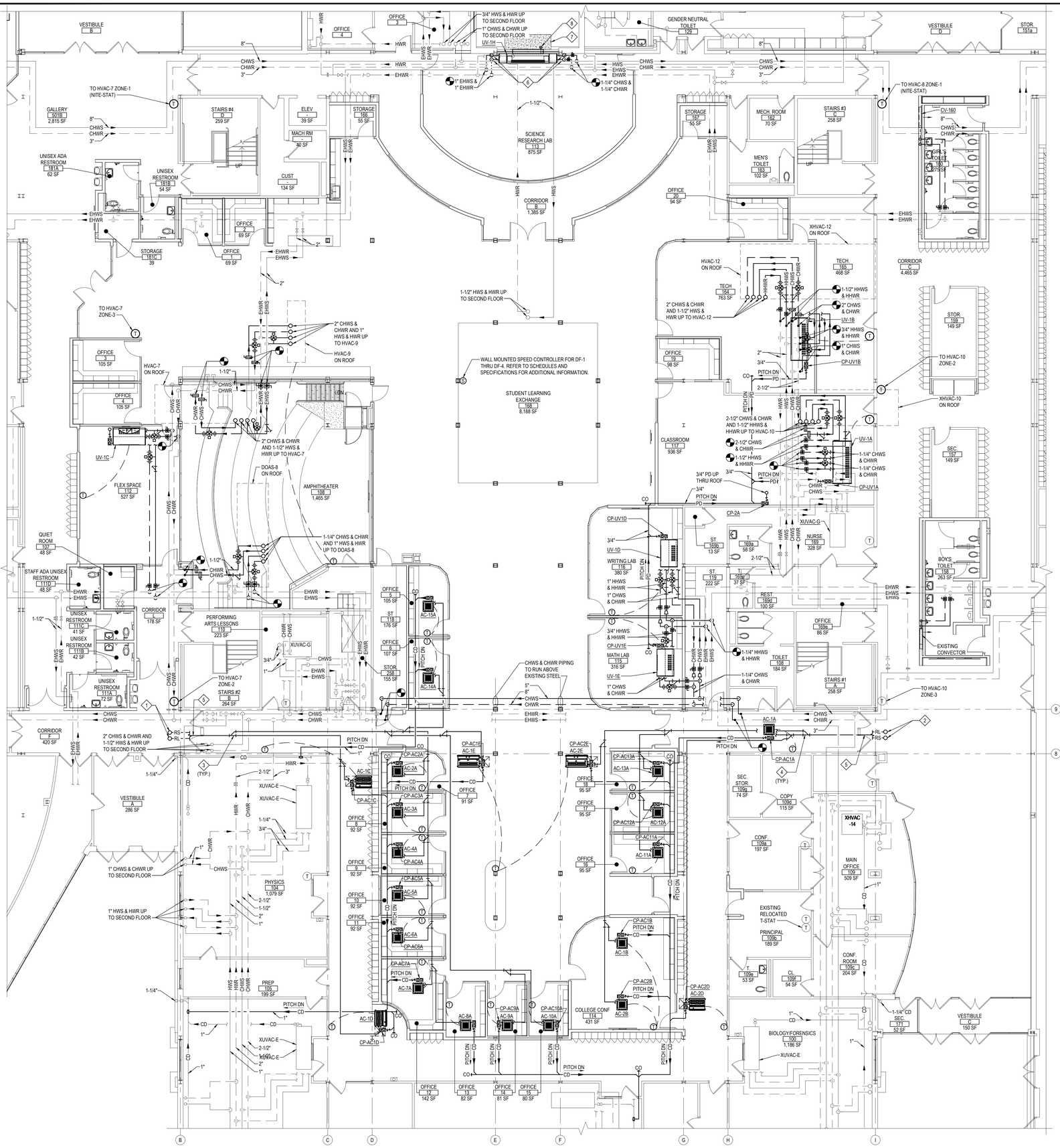

KEYED MECHANICAL NOTES:

1. 1/2" RL & 1-1/8" RS UP THRU ROOF TO ACC-N.
2. 1/2" RL & 1-1/8" RS UP THRU ROOF TO ACC-S.
3. REFRIGERANT Y-BRANCH KIT. REFER TO DWG. M6.02 AAC-N SYSTEM TREE DIAGRAM FOR MODEL, SIZE AND ADDITIONAL INFORMATION.
4. REFRIGERANT Y-BRANCH KIT. REFER TO DWG. M6.02 AAC-S SYSTEM TREE DIAGRAM FOR MODEL, SIZE AND ADDITIONAL INFORMATION.
5. FOR CLARITY, FROM THIS POINT ON, SINGLE LINE REFRIGERANT PIPE REPRESENTS REFRIGERANT LIQUID & REFRIGERANT SUCTION LINE-SETS. REFER TO SCHEDULES, NOTES & DETAILS ON DWG. M6.02 FOR PIPE SIZES.
6. M.C. TO RUN PIPING WITHIN ARCHITECT PROVIDED PIPE CHASE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. CONCRETE PAD (REFER TO ARCH. DRAWINGS FOR ADDITIONAL INFORMATION)
8. M.C. TO RUN NEW 3/8" TYPE K HARD COPPER PIPING FOR CONDENSATE DRAIN LINE VIA GRAVITY OUT OF EXTERIOR WALL AS SHOWN WITH TAMPER RESISTANT SCREEN ON DISCHARGE OPENING. G.C. TO CUT OPENING FOR 3/8"- CONDENSATE DRAIN PIPING WITH M.C. PRESENT.

1 GROUND FLOOR PROPOSED PIPING PART PLAN - AREA "D"

NOTE:

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

REV.	DATE	ITEM

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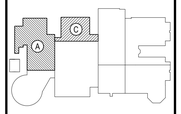

KEY PLAN

NOT TO SCALE

PROJECT

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED PIPING PLAN - AREA D

DRAWING BY: R.D.P.

CHECK BY: F.S.

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DISTRICT BRIARCLIFF MANOR UFSD

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DWG TITLE PROPOSED PIPING PLAN AREA D

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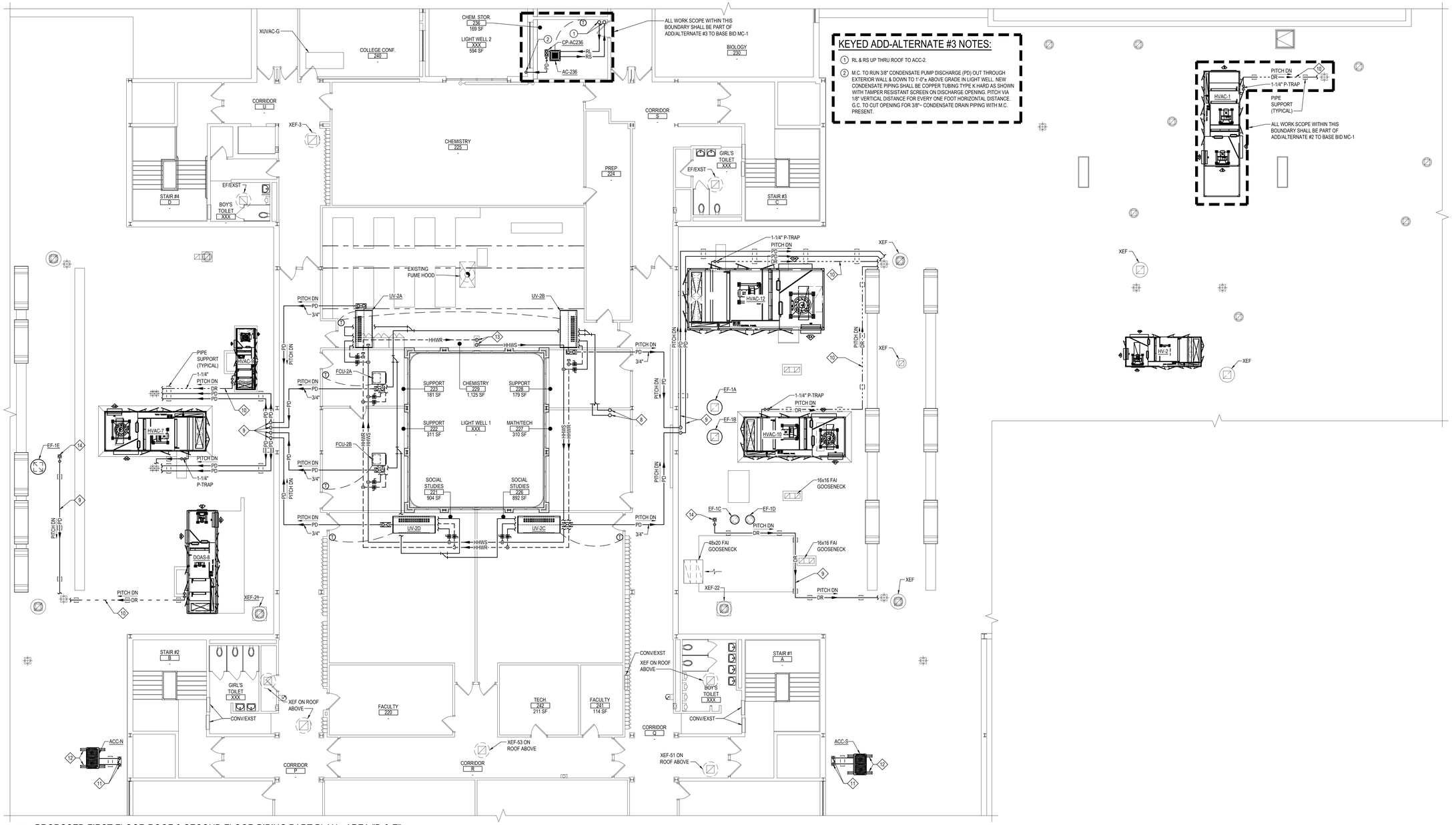

KEYED ADD-ALTERNATE #3 NOTES:

1. RL & RS UP THRU ROOF TO ACC-2.
2. M.C. TO RUN 3/8" CONDENSATE PUMP DISCHARGE (PD) OUT THROUGH EXTERIOR WALL & DOWN TO 1'-0"± ABOVE GRADE IN LIGHT WELL. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD AS SHOWN WITH TAMPER RESISTANT SCREEN ON DISCHARGE OPENING. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE. G.C. TO CUT OPENING FOR 3/8"~ CONDENSATE DRAIN PIPING WITH M.C. PRESENT.

1 PROPOSED FIRST FLOOR ROOF & SECOND FLOOR PIPING PART PLAN - AREA "D & E"

NOTE:

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

KEYED MECHANICAL NOTES:

1. NOT USED
2. NOT USED
3. NOT USED
4. NOT USED
5. NOT USED
6. NOT USED
7. NOT USED
8. M.C. TO RUN NEW RS & RL REFRIGERANT PIPING UP THROUGH NEW PIPE PORTAL SYSTEM, RUN PIPING ON ROOF & PROVIDE REFRIGERANT PIPING SUPPORTS (REFER TO DRAWING M6.02 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION) & CONNECT TO NEW OUTDOOR CONDENSING UNIT (ACC-2).
9. M.C. TO RUN 3/4" CONDENSATE PUMP DISCHARGE (PD) OUT THROUGH EXTERIOR WALL & RUN TO NEAREST ROOF DRAIN. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE.
10. M.C. TO RUN 1-1/4" CONDENSATE DRAIN (DR) TO NEAREST ROOF DRAIN. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE.
11. M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW REFRIGERANT PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN PIPING ON ROOF & PROVIDE REFRIGERANT PIPING SUPPORTS (REFER TO DRAWING M6.09 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION) & CONNECT TO NEW OUTDOOR CONDENSING UNIT.
12. M.C. TO FURNISH & INSTALL NEW OUTDOOR CONDENSING UNIT. M.C. TO FURNISH & INSTALL NEW THYCURB SUPPORT RAILS. REFER TO DRAWING M6.09 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
13. M.C. TO CONNECT 1-1/2" HHWS & HHWR ±6" A.F.F. AND RUN IN CHASE UP THE CEILING PLENUM SPACE. ALL HHWS & HHWR PIPING TO BE INSULATED AS PER MECHANICAL SPECIFICATIONS.
14. M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW CONDENSATE PUMP DISCHARGE (PD) PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN (PD) PIPING ON ROOF & PROVIDE PIPING SUPPORTS (REFER TO DRAWING M6.09 FOR ADDITIONAL INFORMATION.

REV.	DATE	ITEM

NOTICE

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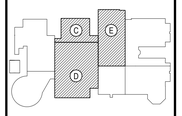

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

PROPOSED 1ST FLOOR ROOF & 2ND FLOOR
PIPING & HVAC ROOF PART PLAN - AREA C, D & E

DWG TITLE

DRAWING BY: R.D.P.

CHECK BY: F.S.

NOTICE

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LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

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SED No: 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: PROPOSED PIPING & HVAC ROOF PLAN - AREA C, D & E

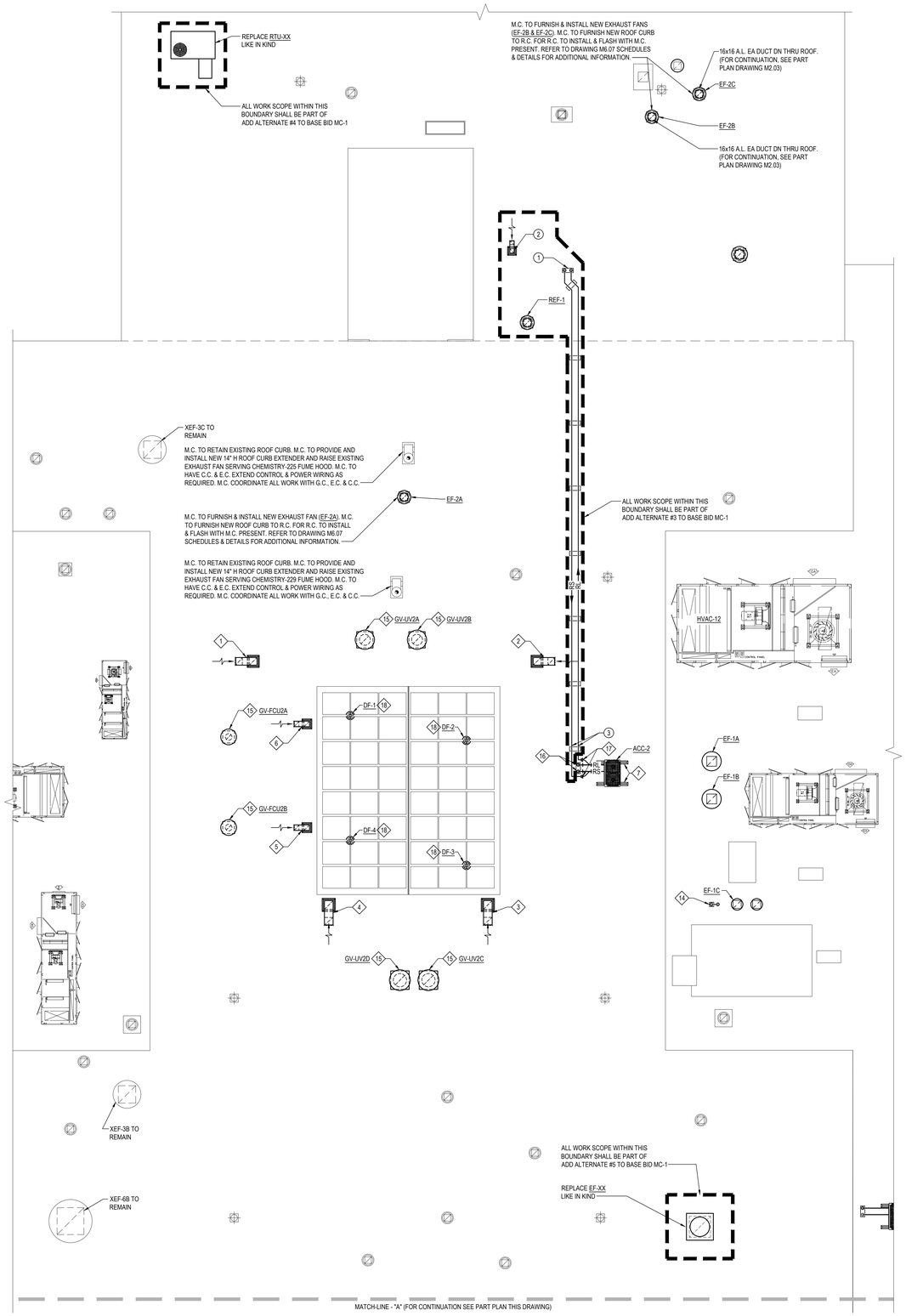
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

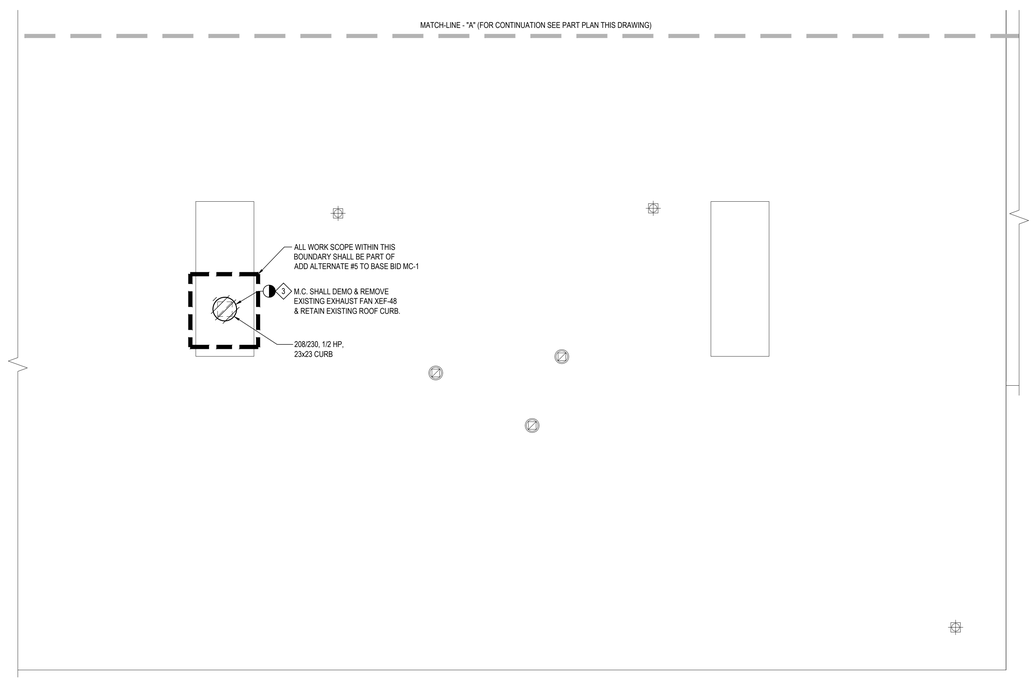
M3.03 | HSMS



1 PROPOSED SECOND FLOOR AND ROOF HVAC PART PLAN - AREA "D & E"

NOTE:

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



2 PROPOSED SECOND FLOOR AND ROOF HVAC PART PLAN - AREA "D"

NOTE:

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

KEYED MECHANICAL NOTES:

1. 14x14 OA DUCT DN THRU ROOF TO UV-2A. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
2. 14x14 OA DUCT DN THRU ROOF TO UV-2B. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
3. 16x16 OA DUCT DN THRU ROOF TO UV-2C. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
4. 16x16 OA DUCT DN THRU ROOF TO UV-2D. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
5. 10x10 OA DUCT DN THRU ROOF TO FCU-2B. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
6. 10x10 OA DUCT DN THRU ROOF TO FCU-2A. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
7. M.C. TO FURNISH & INSTALL NEW OUTDOOR CONDENSING UNIT (ACC-2). M.C. TO FURNISH & INSTALL NEW THYCURB SUPPORT RAILS. REFER TO DRAWING M6.09 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
8. NOT USED
9. NOT USED
10. NOT USED
11. NOT USED
12. NOT USED
13. NOT USED
14. M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW CONDENSATE PUMP DISCHARGE (PD) PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN (PD) PIPING ON ROOF & PROVIDE PIPING SUPPORTS (REFER TO DRAWING M6.09 FOR ADDITIONAL INFORMATION.
15. M.C. TO FURNISH & INSTALL NEW GRAVITY VENTILATOR. M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
16. M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO G.C. FOR G.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW RS & RL REFRIGERANT PIPING DOWN THROUGH NEW PIPE PORTAL SYSTEM & RUN PIPING IN SECOND FLOOR CEILING PLENUM TO INDOOR UNITS. REFER TO FIRST FLOOR ROOF & SECOND FLOOR PROPOSED PIPING PART PLAN - AREA "D & E" FOR CONTINUATION. (REFER TO DRAWING M6.02 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION) & CONNECT TO NEW OUTDOOR CONDENSING UNIT (ACC-2).
17. M.C. TO PROVIDE WYE-BRANCH HEADER WITH VALVED & CAPPED OUTLET TO AC-236.
18. DESTRATIFICATION FANS (DF-1 THRU DF-4) TO BE MOUNTED BELOW SKYLIGHT, FROM SKYLIGHT MULLIONS.

KEYED ADD-ALTERNATE #3 NOTES:

1. M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO G.C. FOR G.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW RS & RL REFRIGERANT PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN PIPING ON ROOF & PROVIDE REFRIGERANT PIPING SUPPORTS (REFER TO DRAWING M6.02 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION) & CONNECT TO NEW OUTDOOR CONDENSING UNIT (ACC-236).
2. 8x8 OA DUCT DN THRU ROOF TO CMU-236. TERMINATE WITH GOOSENECK ABOVE ROOF W/WMS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
3. M.C. TO REMOVE CAP FROM BRANCH HEADER AND RUN RL & RS PIPING TO AC-236.

REV.	DATE	ITEM

NOTICE

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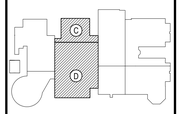

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED SECOND FLOOR AND ROOF HVAC PART PLAN - AREA C & D

DRAWING BY: R.D.P.

CHECK BY: F.S.

NOTICE

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244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

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SED No: 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: PROPOSED 2ND FLOOR ROOF HVAC PART PLAN - C & D

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M3.04 | HSMS

ROOFTOP UNIT SCHEDULE (BASIS: SEASONS-4)

PERFORMANCE SPECIFICATIONS

JOB NAME BRIARCLIFF MANOR HS/MS

LOCATION BRIARCLIFF, NY

DATE PREPARED 7/13/2022

	UNIT DESIGNATION	HV-1	HV-2	HVAC-7	DOAS-8
UNIT INFO	SEASONS-4 MODEL #	AHXXX / IMXKCI-021A-IMA1-1-00TD	AHXXX / IMXKCI-XXXX-IM07-1-10SE	AHXXX / IMXKCI-016A-IM02-2-00TD	AHXXX / IMXKCI-004A-IM03-5-01TD
	SEASONS-4 REF. #	P11868-1	P11868-2	P11868-7	P11868-8
	TOTAL AIRFLOW (CFM)	9,200	10,025	8,534	1,370
	OUTDOOR AIRFLOW (CFM)	2,600 - 9,200	10,025	1,120 - 8,534	1,370
	UNIT DIMENSIONS	110W x 101H x 244L	110W x 101H x 244L	110W x 101H x 244L	110W x 101H x 244L
	UNIT WEIGHT (LBS)				
CHILLED WATER COOLING SECTION	CW COIL FACE AREA (SQ-FT)/ROWS/FPI	20.6/4/10	NA	16.5/4/6	3.1/4/8
	TOTAL COOLING (BTUH)	259,377	NA	193,872	53,936
	SENSIBLE COOLING (BTUH)	184,077	NA	139,622	37,294
	CW COIL EAT (FDB/FWB)	79.0/67.3	NA	77.4/66.4	92.0/74.0
	CW COIL LAT (FDB/FWB)	60.5/58.3	NA	62.7/59.2	66.6/62.9
	FLUID TEMP - ENT/LEV (°F)	44/55.5	NA	44/56.9	44/55.9
	TYPE FLUID	Water	NA	Water	Water
	FLUID FLOWRATE (GPM) / PRESS DROP (FT WATER)	45/3.6	NA	30/6.6	9/4.2
	SUPPLY/RETURN CONNECTION SIZE (IN)	2.625/2.625	NA	2.625/2.625	2.625/2.625
SUPPLY AIR BLOWER SECTION	SA BLOWER TYPE QTY/SIZE	AF SWSI PLENUM (75% WHEEL WIDTH) 1/24"	AF SWSI PLENUM (100% WHEEL WIDTH) 1/22"	AF SWSI PLENUM (70% WHEEL WIDTH) 1/24"	AF SWSI PLENUM (50% WHEEL WIDTH) 1/15"
	SA BLOWER AIRFLOW (CFM)	9,200	10,025	8,534	1,370
	SA BLOWER TSP	3.45	3.44	3.55	3.41
	SA BLOWER ESP	1.50	1.50	1.50	1.50
	SA BLOWER RPM	1,785	1,921	1,768	2,357
	SA BLOWER BHP/MOTOR HP	7.5/10	8.7/10	7.1/10	1/1.5
	SA BLOWER DRIVE TYPE	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD
RETURN AIR BLOWER SECTION	RA BLOWER TYPE QTY/SIZE	AF SWSI PLENUM (100% WHEEL WIDTH) 1/24"	AF SWSI PLENUM (85% WHEEL WIDTH) 1/27"	AF SWSI PLENUM (100% WHEEL WIDTH) 1/24"	AF SWSI PLENUM (50% WHEEL WIDTH) 1/18"
	RA BLOWER	9,200	10,025	8,534	1,370
	RA BLOWER TSP	1.50	1.50	1.50	1.50
	RA BLOWER ESP	1.00	1.00	1.00	1.00
	RA BLOWER RPM	1,277	1,201	1,217	1,574
	RA BLOWER	3.5/5	3.9/5	3.1/5	55/13.2
	RA BLOWER DRIVE TYPE	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD
FILTER FROM RETURN AIR	FILTER TYPE	2" Pleated; MERV 8	2" Pleated; MERV 8	2" Pleated; MERV 8	2" Pleated; MERV 8
	FILTER QTY/SIZE	9/24x24	9/24x24	9/24x24	1/12x24, 1/24x24
	FACE VELOCITY (FPM)	256	278	237	228
FILTER FROM OUTDOOR AIR	FILTER TYPE	4" Pleated; MERV 13	4" Pleated; MERV 13	4" Pleated; MERV 13	4" Pleated; MERV 13
	FILTER QTY/SIZE	9/24x24	9/24x24	9/24x24	1/12x24, 1/24x24
	FACE VELOCITY (FPM)	256	278	237	228
HOT WATER HEATING SECTION	HW COIL FACE AREA (SQ-FT)/ROWS/FPI	16.5/1/12	17.5/2/6	11/1/6	3.1/2/10
	CAPACITY (BTUH)	409,611	707,420	217,540	66,074
	AIR TEMP - EAT/LAT (°F)	55/98.2	70/75.3	55/78.6	55/113.2
	FLUID TEMP - ENT/LEV (°F)	200/155.5	200/159.5	200/159.2	200/164.5
	TYPE FLUID	Water	Water	Water	Water
	FLUID FLOWRATE (GPM) / PRESS DROP (FT WATER)	19/4.6	36/4.4	11/1.4	5/0.6
	SUPPLY/RETURN CONNECTION SIZE (IN)	1.375/1.375	1.375/1.375	1.375/1.375	1.375/1.375
ELECTRICAL DATA	UNIT VOLTAGE	460/3/60	460/3/60	460/3/60	460/3/60
	TOTAL COOLING AMPS	24.8	24.8	24.8	9.4
	TOTAL HEATING AMPS	24.8	24.8	24.8	9.4
	UNIT MOP	45	45	45	15
	UNIT MCP	35	40	30	10
	UNIT SCCR	65,000	65,000	65,000	65,000

SEASONS-4, Inc. Page 1 of 2 Douglasville, GA

PERFORMANCE SPECIFICATIONS

JOB NAME BRIARCLIFF MANOR HS/MS

LOCATION BRIARCLIFF, NY

DATE PREPARED 7/13/2022

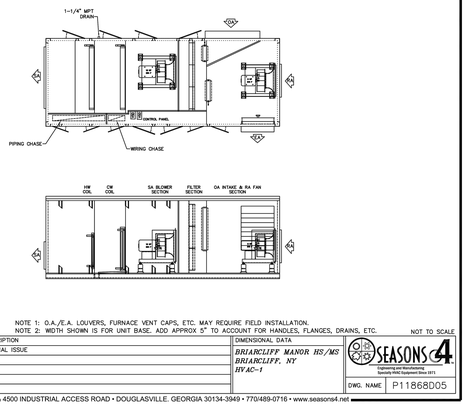
	UNIT DESIGNATION	HVAC-9	HVAC-10	HVAC-11	HVAC-12
UNIT INFO	SEASONS-4 MODEL #	AHXXX / IMXKCI-008A-IM03-8-00TD	AHXXX / IMXKCI-015A-IM02-3-00TD	AHXXX / IMXKCI-040A-IM03-9-10TD	AHXXX / IMXKCI-023A-IM07-7-10TD
	SEASONS-4 REF. #	P11868-9	P11868-10	P11868-11	P11868-12
	TOTAL AIRFLOW (CFM)	3,000	6,000	13,391	13,450
	OUTDOOR AIRFLOW (CFM)	1,050 - 3,000	990 - 6,000	3,500 - 13,391	3,500 - 13,450
	UNIT DIMENSIONS	110W x 101H x 244L	110W x 101H x 244L	110W x 101H x 244L	110W x 101H x 244L
	UNIT WEIGHT (LBS)				
CHILLED WATER COOLING SECTION	CW COIL FACE AREA (SQ-FT)/ROWS/FPI	6.3/4/8	13.8/4/10	26.1/6/10	24.5/4/6
	TOTAL COOLING (BTUH)	105,534	185,972	494,198	278,099
	SENSIBLE COOLING (BTUH)	76,189	134,037	356,283	212,270
	CW COIL EAT (FDB/FWB)	79.3/67.3	77.4/65.7	78.9/58.7	92.0/64.4
	CW COIL LAT (FDB/FWB)	61.0/59.0	57.5/55.4	54.4/52.3	63.6/56.9
	FLUID TEMP - ENT/LEV (°F)	44/55.6	44/56.3	44/56.8	44/55.8
	TYPE FLUID	Water	Water	Water	Water
	FLUID FLOWRATE (GPM) / PRESS DROP (FT WATER)	18/6.4	30/7.3	65/4.3	47/4
	SUPPLY/RETURN CONNECTION SIZE (IN)	2.625/2.625	2.625/2.625	2.625/2.625	2.625/2.625
SUPPLY AIR BLOWER SECTION	SA BLOWER TYPE QTY/SIZE	AF SWSI PLENUM (70% WHEEL WIDTH) 1/18"	AF SWSI PLENUM (70% WHEEL WIDTH) 1/22"	AF SWSI PLENUM (100% WHEEL WIDTH) 1/24"	AF SWSI PLENUM (100% WHEEL WIDTH) 1/24"
	SA BLOWER AIRFLOW (CFM)	3,000	6,000	13,391	13,450
	SA BLOWER TSP	3.41	3.56	3.68	3.60
	SA BLOWER ESP	1.50	1.50	1.50	1.50
	SA BLOWER RPM	2,419	1,773	1,909	1,906
	SA BLOWER BHP/MOTOR HP	2.4/3	5/7.5	12/15	11.8/15
	SA BLOWER DRIVE TYPE	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD
RETURN AIR BLOWER SECTION	RA BLOWER TYPE QTY/SIZE	AF SWSI PLENUM (80% WHEEL WIDTH) 1/20"	AF SWSI PLENUM (100% WHEEL WIDTH) 1/22"	AF SWSI PLENUM (100% WHEEL WIDTH) 1/27"	AF SWSI PLENUM (100% WHEEL WIDTH) 1/27"
	RA BLOWER	3,000	6,000	13,391	13,450
	RA BLOWER TSP	1.50	1.50	1.50	1.50
	RA BLOWER ESP	1.00	1.00	1.00	1.00
	RA BLOWER RPM	1,356	1,198	1,310	1,314
	RA BLOWER	1.1/1.5	2.2/3	5.6/7.5	5.7/7.5
	RA BLOWER DRIVE TYPE	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD	DIRECT DRIVE W/ VFD
FILTER FROM RETURN AIR	FILTER TYPE	2" Pleated; MERV 8	2" Pleated; MERV 8	2" Pleated; MERV 8	2" Pleated; MERV 8
	FILTER QTY/SIZE	2/24x24	9/24x24	9/24x24	3/12x24, 9/24x24
	FACE VELOCITY (FPM)	375	167	372	320
FILTER FROM OUTDOOR AIR	FILTER TYPE	4" Pleated; MERV 13	4" Pleated; MERV 13	4" Pleated; MERV 13	4" Pleated; MERV 13
	FILTER QTY/SIZE	2/24x24	9/24x24	9/24x24	3/12x24, 9/24x24
	FACE VELOCITY (FPM)	375	167	372	320
HOT WATER HEATING SECTION	HW COIL FACE AREA (SQ-FT)/ROWS/FPI	5.2/1/6	11/1/10	24.8/1/6	14/1/8
	CAPACITY (BTUH)	80,545	251,265	393,871	371,402
	AIR TEMP - EAT/LAT (°F)	55/79.9	55/93.8	55/82.2	55/80.6
	FLUID TEMP - ENT/LEV (°F)	200/166.8	200/163	200/157.2	200/159.7
	TYPE FLUID	Water	Water	Water	Water
	FLUID FLOWRATE (GPM) / PRESS DROP (FT WATER)	5/0.6	14/2.1	19/3.1	19/3.1
	SUPPLY/RETURN CONNECTION SIZE (IN)	1.375/1.375	1.375/1.375	1.375/1.375	1.375/1.375
ELECTRICAL DATA	UNIT VOLTAGE	460/3/60	460/3/60	460/3/60	460/3/60
	TOTAL COOLING AMPS	11.6	19.1	33.3	33.3
	TOTAL HEATING AMPS	11.6	19.1	33.3	33.3
	UNIT MOP	15	30	50	50
	UNIT MCP	10	20	40	40
	UNIT SCCR	65,000	65,000	65,000	65,000

SEASONS-4, Inc. Page 2 of 2 Douglasville, GA

SCHEDULE NOTES:

1. PROVIDE POWERED GFI CONVENIENCE OUTLET
2. PROVIDE STARTERS & DISCONNECTS FOR EACH EQUIPMENT
3. M.C. SHALL HAVE MANUFACTURER VISIT JOB SITE TO PERFORM DETAILED MEASUREMENTS IN ORDER TO FIT NEW/ PROPOSED UNIT ON EXISTING ROOF CURB.
4. FACTORY-AUTHORIZED MANUFACTURER'S FIELD REPRESENTATIVE SHALL BE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW UNIT TO OWNER'S PERSONNEL.
5. CUSTOM ROOFTOP UNIT SHALL COME COMPLETE WITH THE FOLLOWING OPTIONS:
   a) FULL ECONOMIZER W/ DIFFERENTIAL ENTHALPY CONTROLS
   b) FILTER STATUS INDICATOR
   c) FULL DDC CONTROLS WITH BACNET TRANSLATOR (FOR FUTURE BACNET INTEGRATION)
6. CONVENIENCE OUTLET SHALL BE FIELD INSTALLED BY E.C. ON THE LINE SIDE. REFER TO ELECTRICAL PLANS FOR ADDITIONAL DETAILS.

HVAC-1 COMPONENT DIAGRAM (BASIS: SEASONS-4) (ADD-ALTERNATE NO.1)



LEGEND
- HINGED ACCESS DOOR
- LIFT-OFF ACCESS DOOR
- BALANCING DAMPER

NOTE 1: O.A./E.A. LOUVERS, FURNACE VENT CAPS, ETC. MAY REQUIRE FIELD INSTALLATION.
NOTE 2: WIDTH SHOWN IS FOR UNIT BASE. ADD APPROX 5" TO ACCOUNT FOR HANDLES, FLANGES, DRAINS, ETC.

NOT TO SCALE

REV #	BY	DATE	DESCRIPTION
0	DB	07/13/2022	ORIGINAL ISSUE

DIMENSIONAL DATA
BRIARCLIFF MANOR HS/MS
BRIARCLIFF, NY
HVAC-1

SEASONS-4 Engineering and Manufacturing Specialty HVAC Equipment Since 1971

DWG. NAME P11868D05

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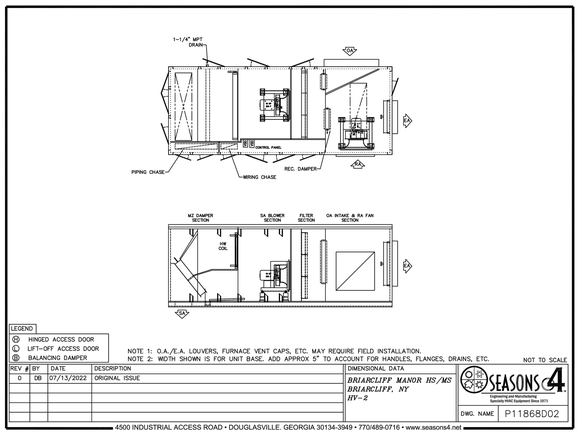
HV-2 COMPONENT DIAGRAM (BASIS: SEASONS-4)



LEGEND
- HINGED ACCESS DOOR
- LIFT-OFF ACCESS DOOR
- BALANCING DAMPER

NOTE 1: O.A./E.A. LOUVERS, FURNACE VENT CAPS, ETC. MAY REQUIRE FIELD INSTALLATION.
NOTE 2: WIDTH SHOWN IS FOR UNIT BASE. ADD APPROX 5" TO ACCOUNT FOR HANDLES, FLANGES, DRAINS, ETC.

NOT TO SCALE

REV #	BY	DATE	DESCRIPTION
0	DB	07/13/2022	ORIGINAL ISSUE

DIMENSIONAL DATA
BRIARCLIFF MANOR HS/MS
BRIARCLIFF, NY
HV-2

SEASONS-4 Engineering and Manufacturing Specialty HVAC Equipment Since 1971

DWG. NAME P11868D02

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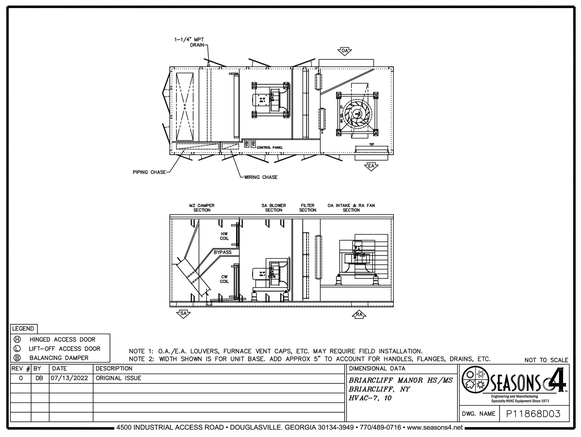
HVAC-7 & 10 COMPONENT DIAGRAM (BASIS: SEASONS-4)



LEGEND
- HINGED ACCESS DOOR
- LIFT-OFF ACCESS DOOR
- BALANCING DAMPER

NOTE 1: O.A./E.A. LOUVERS, FURNACE VENT CAPS, ETC. MAY REQUIRE FIELD INSTALLATION.
NOTE 2: WIDTH SHOWN IS FOR UNIT BASE. ADD APPROX 5" TO ACCOUNT FOR HANDLES, FLANGES, DRAINS, ETC.

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HVAC-7, 10

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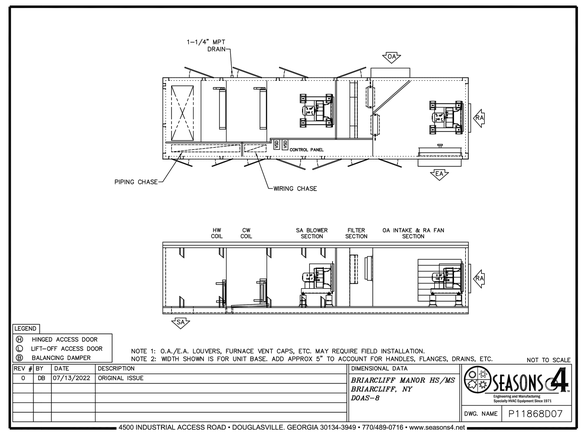
DOAS-8 COMPONENT DIAGRAM (BASIS: SEASONS-4)



LEGEND
- HINGED ACCESS DOOR
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- BALANCING DAMPER

NOTE 1: O.A./E.A. LOUVERS, FURNACE VENT CAPS, ETC. MAY REQUIRE FIELD INSTALLATION.
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NOT TO SCALE

REV #	BY	DATE	DESCRIPTION
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DIMENSIONAL DATA
BRIARCLIFF MANOR HS/MS
BRIARCLIFF, NY
DOAS-8

SEASONS-4 Engineering and Manufacturing Specialty HVAC Equipment Since 1971

DWG. NAME P11868D07

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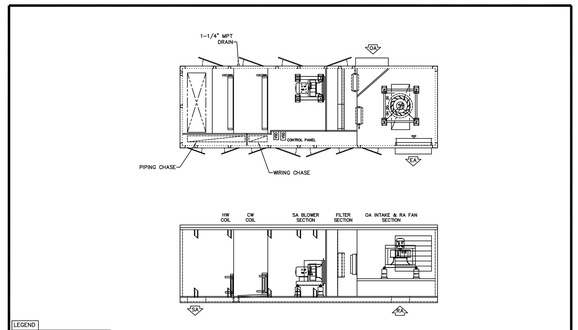
HVAC-9 COMPONENT DIAGRAM (BASIS: SEASONS-4)



LEGEND
- HINGED ACCESS DOOR
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- BALANCING DAMPER

NOTE 1: O.A./E.A. LOUVERS, FURNACE VENT CAPS, ETC. MAY REQUIRE FIELD INSTALLATION.
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REV #	BY	DATE	DESCRIPTION
0	DB	07/13/2022	ORIGINAL ISSUE

DIMENSIONAL DATA
BRIARCLIFF MANOR HS/MS
BRIARCLIFF, NY
HVAC-9

SEASONS-4 Engineering and Manufacturing Specialty HVAC Equipment Since 1971

DWG. NAME P11868D06

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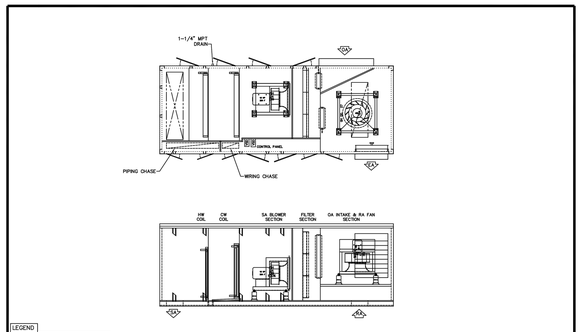
HVAC-11 COMPONENT DIAGRAM (BASIS: SEASONS-4)



LEGEND
- HINGED ACCESS DOOR
- LIFT-OFF ACCESS DOOR
- BALANCING DAMPER

NOTE 1: O.A./E.A. LOUVERS, FURNACE VENT CAPS, ETC. MAY REQUIRE FIELD INSTALLATION.
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NOT TO SCALE

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BRIARCLIFF, NY
HVAC-11

SEASONS-4 Engineering and Manufacturing Specialty HVAC Equipment Since 1971

DWG. NAME P11868D04

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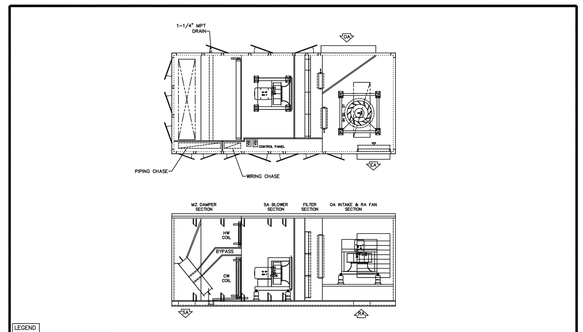
HVAC-12 COMPONENT DIAGRAM (BASIS: SEASONS-4)



LEGEND
- HINGED ACCESS DOOR
- LIFT-OFF ACCESS DOOR
- BALANCING DAMPER

NOTE 1: O.A./E.A. LOUVERS, FURNACE VENT CAPS, ETC. MAY REQUIRE FIELD INSTALLATION.
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DIMENSIONAL DATA
BRIARCLIFF MANOR HS/MS
BRIARCLIFF, NY
HVAC-12

SEASONS-4 Engineering and Manufacturing Specialty HVAC Equipment Since 1971

DWG. NAME P11868D01

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REV.	DATE	ITEM

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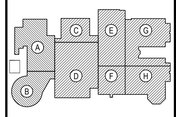

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

SCHEDULES, EQUIPMENT
NOTES AND DETAILS (1 OF 10)

DWG TITLE

DRAWING BY: R.D.P.

CHECK BY: F.S.

NOTICE

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NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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SED No: 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: SCHEDULES, EQUIPMENT NOTES AND DETAILS (1 OF 10)

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M6.01 | HSMS

VRF SYSTEM "ACC-N" OVERALL SCHEMATIC FLOW, REFRIGERANT PIPING FLOW, ELECTRICAL WIRING DIAGRAM INFORMATION (BASIS: LG)

Building Load Summary

1. Project name:Briarcliff Manor HS-MS - Rev.2
2. Date:10/07/2022
3. Location :Nation(New York, United States), Altitude(131ft)
4. Design conditions

		Cooling	Heating
OAT	DBT(°F)	91.9	10.9
	WBT(°F)	73.9	10.2
	RH(%)	43.3	86.0
IAT	DBT(°F)	80.6	68.0
	WBT(°F)	67.1	56.8
	RH(%)	50.0	50.0

Model Selection - Summary

Date: 10/07/2022

1. Outdoor Units

No.	Model Name	Quantity	Description
1	ARUM121DTE5	2	MULTI V 5/50,60Hz/R410A/Heat Pump/MULTI V 5IN,America
Total		2	

2. Indoor Units

No.	Model Name	Quantity	Description
1	ARNU053TRD4	15	CEILING CASSETTE - 4WAY
2	ARNU123TRD4	2	CEILING CASSETTE - 4WAY
3	ARNU073M1A4	1	CEILING CONCEALED DUCT - MID STATIC
4	ARNU183M1A4	2	CEILING CONCEALED DUCT - MID STATIC
5	ARNU363M2A4	2	CEILING CONCEALED DUCT - MID STATIC
Total		22	

3. Branch/Header

No.	Model Name	Quantity
1	ARBLN01621	15
2	ARBLN03321	5

4. Pipes

No.	Diameter(Liq Gas,inch)	Length(ft)
1	1/4 : 1/2	179.8
2	3/8 : 5/8	134.8
3	3/8 : 3/4	25.0
4	3/8 : 7/8	35.0
5	1/2 : 1+1/8	95.0

5. Accessories

Model Name	Quantity	Description
PREMTBVC2	22	MultiSITE CRC2 Remote Controller (Includes Humidity)
PT-QCHW0	17	2x2 Grille for TR, TQ Chassis

System Model Selection - ODU

System Name: ACC-N

Date: 10/07/2022

System No : 1/2

1. Design conditions - Outdoor

	Cooling			Heating		
	DBT(°F)	WBT(°F)	RH(%)	DBT(°F)	WBT(°F)	RH(%)
OAT	91.9	73.9	43.3	10.9	10.2	86.0
IAT	80.6	67.1	50.0	68.0	56.8	50.0

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)
ARUM121DTE5	14 / 20	97 / 130	0.0 / 0.0	23.20	17.03

Nominal/Corrected Capa. (kBtu/h)		Nominal/Corrected PI (kW)	
Cooling	Heating	Cooling	Heating
119.7/112.9	135.0/137.6	7.7/7.2	9.2/13.9

Efficiency(Btu/h/W)		Weight(lbs)	Dimension (WxHxD) (inch)	Electrical Characteristics				
Cooling	Heating			Volt	Phase	Hz	MCA (A)	MOP (A)
15.8	9.9	507x1	48-13/16x66-17/32x29-29/32	460	3	60	18.4	25

3. Pipes

Diameter(Liq Gas,inch)	Length(ft)
1/4 : 1/2	135.0
3/8 : 5/8	75.0
3/8 : 3/4	20.0
3/8 : 7/8	5.0
1/2 : 1+1/8	55.0

4. Branch/Header

Model Name	Quantity
ARBLN01621	10
ARBLN03321	3
-	-
-	-

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.
The result can be slightly different from Product Data Book due to simulation.
Pipe lengths are estimations only.
Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

System Model Section - IDU

System Name: ACC-N

Date: 10/07/2022

System No : 1/2

5. Indoor Units(1)

Room	Room Load(kBtu/h)			Room Design Temp.(Return Air Temp.)(°F)				Model Name	Rated TC/Corrected TC(kBtu/h)			Corrected Capa/Room Load(%)		
				Cooling		Heating								
	TC	SC	HC	DBT	WBT	DBT	WBT		TC	SC	HC	TC	SC	HC
	5.0	3.0	6.0	80.6	67.1	68.0	56.8	ARNU053TRD4	5.5/5.5	3.9/4.0	6.1/6.3	110.4	132.2	104.4

OUTDOOR CONDENSING UNITS SCHEDULES (ACC-N & ACC-S) (BASIS: LG)

KLIMA NEW YORK, LLC

VRF Outdoor Condensing Unit Data

ACC-N & S

Tag No.:



ARUM121DTE5
Multi V™ 5 with LGRED® 460V 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. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org

Electrical:

Frame	ARUM121DTE5
Power Supply (V/Hz/Ø)[1]	460/60/3
MOP (A)	25
MCA (A)	18.4
Rated Amps (A)	15.7
Compressor A (A)	10.7
Compressor B (B)	-
Fan (A)	5.0

Piping:[4]

Frame	ARUM121DTE5
Refrigerant Charge (lbs.)	23.2
Liquid (in., O.D.)	1/2 Braze
High Pressure Vapor (Heat Recov.only, in. O.D.)	3/4 Braze
Low Pressure Vapor (in., O.D.)	1-1/8 Braze

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 Rate Exchanger
- Subcooling and Vapor Injection Control
- Liquid Cooled Inverter Controller
- Advanced Comfort Cooling

Optional Accessories:

- ☐ Air Guide - ZAGDAS2A
- ☐ Hail Guard Kit - ZHGDAS2A
- ☐ Low Ambient Baffle Kit - ZLABAS2A (2), Control Kit - PRVC1 (1 per system)
- ☐ Base Pan Heater - ZPLTJA51A

**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.

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[5]	20
Sound Pressure* dB(A)	59.0
Weight	
Frame	ARUM121DTE5
Net (lbs.)	507
Shipping (lbs.)	534
Communication Cable (No x AWG)[6]	2 x 18
Heat Exchanger Coating	Black Coated Fin™

Compressor:

Type	HSS DC Scroll
Quantity	1
Oil / Type	PVE / FVC68D

Fan:

Type	Propeller
Quantity	3
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 50-150%.
4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745. 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 voltage range: 414 - 528V
7. For ESP (in wg) selectable range is 0.16 to 0.32.

LGRED Powerful Heat Technology | AHRI Certified | Variable Refrigerant Flow (VRF) Multi-Split AC and HP

For continual product development, LG reserves the right to change specifications without notice.
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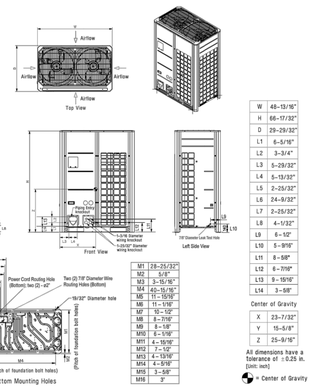
Job Name/Location: _____

ARUM121DTE5
Multi V™ 5 with LGRED® 460V ODU
10 Ton Single Frame Heat Pump and Heat Recovery

Tag No.: _____
Date: _____
PO No.: _____



W	48-13/16"
H	66-17/32"
D	29-29/32"
L1	6-5/16"
L2	3-3/4"
L3	5-29/32"
L4	5-13/32"
L5	2-25/32"
L6	24-9/32"
L7	2-25/32"
L8	4-1/32"
L9	6-1/2"
L10	5-9/16"
L11	8-5/8"
L12	6-7/16"
L13	9-15/16"
L14	3-5/8"

M1	28-25/32"
M2	5/8"
M3	3-15/16"
M4	42-15/16"
M5	11-15/16"
M6	11-1/16"
M7	10-1/2"
M8	8-7/16"
M9	8-1/8"
M10	8-1/16"
M11	6-15/16"
M12	7-1/2"
M13	4-13/16"
M14	4-9/16"
M15	3-5/8"
M16	3"

Center of Gravity

X	23-7/32"
Y	15-5/8"
Z	25-9/16"

All dimensions have a tolerance of ±0.25 in. [unit: inch]

= Center of Gravity

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Job Name/Location: _____

ARUM121DTE5
Multi V™ 5 with LGRED® 460V ODU
10 Ton Single Frame Heat Pump and Heat Recovery

Tag No.: _____
Date: _____
PO No.: _____

AHRI Data:

Reference Number	Indoor Type	Cooling Capacity (95°F)	EER (95°F)	IEER	SCHE	High Heating Capacity (47°F)	High COP (47°F)	Low Heating Capacity (17°F)	Low COP (17°F)
205381464	Ducted Indoor Units	114,000	12.50	24.60	26.40	129,000	3.46	84,000	2.53
202524543	Non-Ducted Indoor Units	114,000	13.10	29.60	31.00	129,000	3.97	84,000	2.74

ADDITIONAL SCHEDULE NOTES:
1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE PRESENT TO PERFORM START-UP, COMMISSIONING, TESTING, AND TRAINING OF NEW EQUIPMENT TO OWNER'S PERSONNEL.
2. APPROVED MANUFACTURER SHALL VISIT JOB SITE TO CONFIRM EXACT DIMENSIONS AND REFRIGERANT PIPING RUN PRIOR TO FURNISHING SUBMITTAL TO M.C. TO PROVIDE TO ARCHITECT/ENGINEER FOR REVIEW.
3. PROVIDE INTERNAL LIFT CONDENSATE PUMP WITH UNIT.
4. TIE IN VRF SYSTEM VIA BACNET CARD TO EXISTING BUILDING MANAGEMENT SYSTEM. SEE SPECIFICATIONS FOR FURTHER DETAILS.
5. COORDINATE INSTALLATION WORK WITH G.C.
6. FOR OUTDOOR CONDENSING UNIT, PROVIDE SUPPORTS FROM MANUFACTURER.

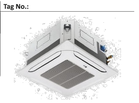
INDOOR EVAPORATOR UNITS SCHEDULES (AC-1A THROUGH AC-22A) (BASIS: LG)

KLIMA NEW YORK, LLC

VRF Indoor Unit Data

**AC-1A thru 22A, AC-236*
Qty. (22), (23)***
(* - AC-236 IS PART OF ADD-ALTERNATE #4)

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
I/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

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:

☒ Grille Kit (24-7/16" x 24-7/16") - PT-QCHW0

Optional Accessories:

- ☐ Wireless Remote Controller - PQWRHQ0FDB
- ☒ MultiSITE™ CRC2 Controller - PREMTBVC2
- ☐ MultiSITE CRC1+ Controller - PREMTBVC1
- ☐ Simple Remote Controller - PREMTCDSU
- ☐ Premium Remote Controller - PREMTA000
- ☐ 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
- ☐ Ventilation Kit - PTVK430
- ☐ Auxiliary Heater Kit - PRARH1
- ☐ Wi-Fi Module - PWFMDD200

Entering Mixed Air:

Cooling Maximum* (°F WB)	76
Heating Minimum (°F DB)	59

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure dB(A) (H/M/L)*	29 / 27 / 26
Primary Filter Type	Washable
Unit Net Weight (lbs.)	29
Unit Shipping Weight (lbs.)	34
Grille Net Weight (lbs.)	7
Grille 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

Notes:

1. See Engineering Manual for sensible and latent capacities.
2. Maximum lift is 27-1/2 inches from bottom of unit.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. Communication cable between Main outdoor units 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.
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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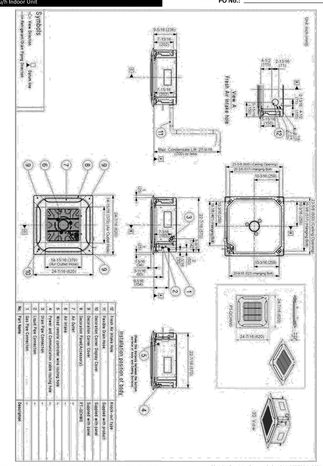
Job Name/Location: _____

ARNU053TRD4
Multi V™ Four-Way 2' x 2' Ceiling Cassette
5,500 Btu/h Indoor Unit

Tag No.: _____
Date: _____
PO No.: _____


Ceiling Opening Dimensions
Panel Dimensions
Min. Condensate Lift 27.5 in.
Ceiling Opening
Panel
Grille
Ceiling Surface
Indoor Unit
Drain Hose
Power Supply Wiring
Control Wiring
Refrigerant Piping
Condensate Drain Piping
Ceiling Opening Dimensions
Panel Dimensions
Ceiling Surface
Indoor Unit
Drain Hose
Power Supply Wiring
Control Wiring
Refrigerant Piping
Condensate Drain Piping
Ceiling Opening
Panel
Grille

HOT WATER/CHILLED WATER UNIT VENTILATOR SCHEDULES (UV-1A, 1B, 1C, 1D, 1E, 1H) (BASIS: MAGIC AIRE)

Briarcliff Manor HS-MS CHW/HW UV

Manufacturer	MagicAire	MagicAire	MagicAire	MagicAire	MagicAire	MagicAire
Performance Details	MAUHF6	MAUHF5	MAUHF3	MAUHF2	MAUHF2	MAUVF5
Arrangement	Horizontal Ceiling	Horizontal Ceiling	Horizontal Ceiling	Horizontal Ceiling	Horizontal Ceiling	Vertical Floor
Base Unit Size	MAUH-6	MAUH-5	MAUH-3	MAUH-2	MAUH-2	MAUV-5
Tag	***UV-1A***	***UV-1B***	***UV-1C***	***UV-1D***	***UV-1E***	***UV-1H***
Quantity	1	1	1	1	1	1
Altitude	0	0	0	0	0	0
Configuration	4 Pipe	4 Pipe	4 Pipe	4 Pipe	4 Pipe	4 Pipe
Nominal Airflow (CFM)	2000	1500	1000	750	750	1500
OA (CFM)	560	470	320	240	200	475
External Static Pressure ESP (IWG)	0.1	0.1	0.1	0.1	0.1	0.1
Cooling Coil	**3 Row CHW**	**3 Row CHW**	**3 Row CHW**	**3 Row CHW**	**3 Row CHW**	**3 Row CHW**
Rows	3	3	3	3	3	3
EAT Dry Bulb (F)	85.3	82.8	79.4	84.9	84.1	80
EAT Wet Bulb (F)	72	69.1	67.4	70.6	70.3	68.5
LAT Dry Bulb (F)	65.22	62.6	61.71	63.8	63.48	61.72
LAT Wet Bulb (F)	62.73	59.73	58.99	60.6	60.4	59.38
Leaving Dew Point (F)	61.39	58.02	57.34	58.74	58.6	57.96
Total Capacity (BTU/hr)	61558	43965	26044	24475	24148	42633
Sensible Capacity (BTU/hr)	41783	31563	18703	16755	16396	28708
EWT (F)	44	44	44	44	44	44
LWT (F)	59.37	56.54	56.23	56.21	56.05	56.16
GPM	8	7	4.3	4	4	7
WPD (ft w.g.)	8.268	6.544	5.973	4.31	4.31	6.544
Cooling Fluid	Water	Water	Water	Water	Water	Water
How Water Coil	**2 Row HW**	**2 Row HW**	**2 Row HW**	**2 Row HW**	**2 Row HW**	**2 Row HW**
Rows	2	2	2	3	3	2
EAT Dry Bulb (F)	50	48	47	47	51	47
LAT Dry Bulb (F)	120.02	111.52	107.86	120.83	122.21	110.87
Total Capacity (BTU/hr)	155827	106075	68449	63011	60304	106866
EWT (F)	200	200	200	200	200	200
LWT (F)	159.76	160.16	159.6	159.94	158.47	159.86
GPM	8	5.5	3.5	3.3	3	5.5
WPD (ft w.g.)	6.908	3.6	1.224	3.092	2.728	3.6
Heating Fluid	Water	Water	Water	Water	Water	Water
Electrical Data	ECM	ECM	ECM	ECM	ECM	ECM
Voltage 1 (V1)	208	208	208	208	208	208
Phase	1	1	1	1	1	1
Frequency	60	60	60	60	60	60
Motor HP	3/4	1/2	1/3	1/3	1/3	1/2
Motor FLA (at V1)	6.8	3.3	2.6	2.3	2.3	3.3
Unit MCA (at V1)	8.5	4.1	3.2	2.9	2.9	4.1
Unit MOPD (at V1)	15	15	15	15	15	15

Notes:
1. All temperature controls to be field supplied and field installed by ATC vendor (Coordinate control with MC).
2. Architect to select unit color from vendor color chart.
3. MC and vendor to coordinate right or left hand piping connections.

MagicAire — Magic Aire Horizonatal Unit Ventilator Models MAUHF 2-5 — Certified Drawing UHF-301-1 — Front Discharge Plenum, Double Deflection Grille/Duct Collar

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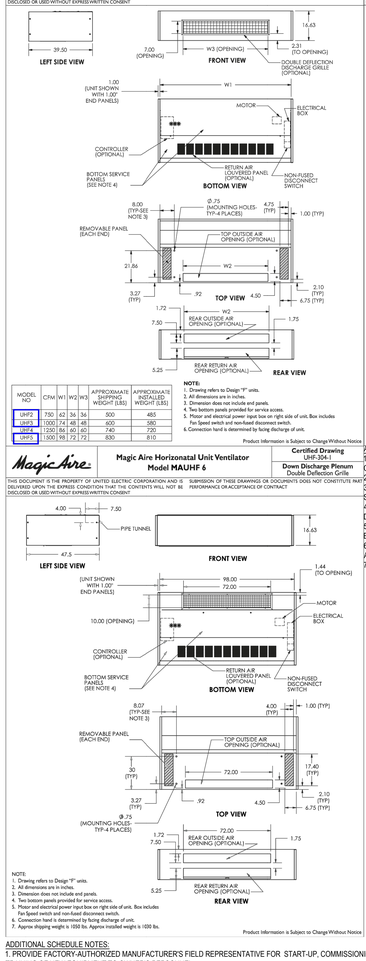

MODEL NO.	CFM	W1	W2	W3	APPROXIMATE SHIPPING WEIGHT (LBS)	APPROXIMATE INSTALLED WEIGHT (LBS)
UHF2	750	42	34	34	500	485
UHF3	1000	74	48	48	600	580
UHF4	1250	86	60	60	740	720
UHF5	1500	98	72	72	830	810

NOTE:
1. Drawing refers to Design "F" units.
2. All dimensions are in inches.
3. Dimension does not include end panels.
4. Two bottom panels provided for service access.
5. Motor and electrical power input box on right side of unit, Box includes Fan Speed switch and non-fused disconnect switch.
6. Connection hand is determined by facing discharge of unit.

Product Information is Subject to Change Without Notice

MagicAire — Magic Aire Unit Ventilator Model MAUVF — Certified Drawing 100-3B — Inlet Air Arrangements 21 7/8" Deep Unit

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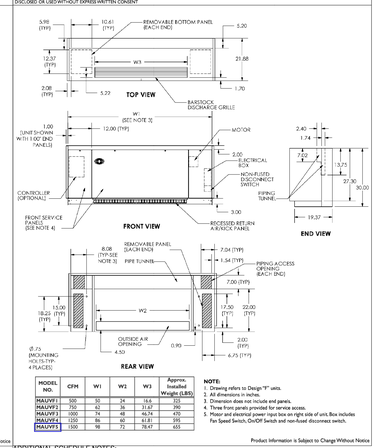

MODEL NO.	CFM	W1	W2	W3	Approx Installed Weight (LBS).
MAUVF2	500	32	24	18.6	335
MAUVF3	750	42	34	31.67	390
MAUVF4	1000	74	48	46.74	470
MAUVF4	1250	86	60	61.81	595
MAUVF5	1500	98	72	76.47	655

NOTE:
1. Drawing refers to Design "F" units.
2. All dimensions are in inches.
3. Three front panels provided for service access.
4. Motor and electrical power input box on right side of unit, Box includes Fan Speed Switch, On/Off Switch and non-fused disconnect switch.

Product Information is Subject to Change Without Notice

MagicAire — Magic Aire Horizonatal Unit Ventilator Model MAUHF 6 — Certified Drawing UHF-304-1 — Down Discharge Plenum, Double Deflection Grille

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NOTE:
1. Drawing refers to Design "F" units.
2. All dimensions are in inches.
3. Dimension does not include end panels.
4. Two bottom panels provided for service access.
5. Motor and electrical power input box on right side of unit. Box includes Fan Speed switch and non-fused disconnect switch.
6. Connection hand is determined by facing discharge of unit.
7. Approx shipping weight is 1050 lbs. Approx installed weight is 1050 lbs.

Product Information is Subject to Change Without Notice

ADDITIONAL SCHEDULE NOTES:
1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S FIELD REPRESENTATIVE FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S PERSONNEL.
2. PROVIDE INTEGRAL MOTORIZED OUTSIDE AIR INTAKE DAMPER WITH EQUIPMENT.
3. M.C. SHALL VERIFY IN THE FIELD THE CONDENSATE DRAIN LINE CONNECTION TO NEW CONDENSATE DRAIN PAN BELOW COOLING COIL.
4. MC TO CONFIRM WITH APPROVED MANUFACTURER IN THE FIELD THE PIPING SIDE CONNECTIONS FOR EACH COIL PRIOR TO FURNISHING SUBMITTAL FOR ARCHITECT/ENGINEER TO REVIEW..
5. UNIT COLOR TO BE SELECTED BY ARCHITECT OF RECORD IN SUBMITTAL PHASE PRIOR TO EQUIPMENT APPROVAL.
6. PROVIDE BACNET INTERFACE.

ADDITIONAL SCHEDULE NOTES:
1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S FIELD REPRESENTATIVE FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S PERSONNEL.
2. PROVIDE INTEGRAL MOTORIZED OUTSIDE AIR INTAKE DAMPER WITH EQUIPMENT.
3. M.C. SHALL VERIFY IN THE FIELD THE CONDENSATE DRAIN LINE CONNECTION TO NEW CONDENSATE DRAIN PAN BELOW COOLING COIL.
4. MC TO CONFIRM WITH APPROVED MANUFACTURER IN THE FIELD THE PIPING SIDE CONNECTIONS FOR EACH COIL PRIOR TO FURNISHING SUBMITTAL FOR ARCHITECT/ENGINEER TO REVIEW..
5. UNIT COLOR TO BE SELECTED BY ARCHITECT OF RECORD IN SUBMITTAL PHASE PRIOR TO EQUIPMENT APPROVAL.
6. PROVIDE BACNET INTERFACE.

HOT WATER/CHILLED FAN COIL UNIT SCHEDULES (FCU-500 & FCU-501) (BASIS: MAGIC AIRE) ADD-ALTERNATE #1

KLIMA NEW YORK, LLC

FCU (CHW/ HW)
Data

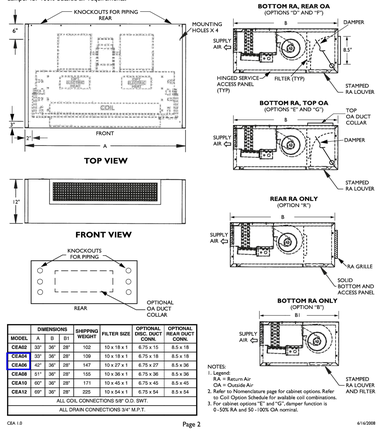
Briarcliff Manor HS-MS CHW/ HW FCU

Manufacturer	MagicAire	MagicAire
Performance Details	CEA04	CEA06
Arrangement	Horizontal Ceiling Mounted	Horizontal Ceiling Mounted
Base Unit Size	CE-4	CE-6
Tag	FCU-500	FCU-501
Quantity	1	1
Altitude	0	0
Configuration	4 Pipe	4 Pipe
Airflow (ACFM)	365	600
OA (CFM)	70	70
Cooling Coil	3 Row Chilled Water	3 Row Chilled Water
Rows	3	3
EAT Dry Bulb (F)	92	92
EAT Wet Bulb (F)	74	74
LAT Dry Bulb (F)	61.09	64.18
LAT Wet Bulb (F)	60.13	62.73
Leaving Dew Point (F)	59.56	61.96
Total Capacity (BTU/hr)	16730	25218
Sensible Capacity (BTU/hr)	11713	19068
EWT (F)	44	44
LWT (F)	57.35	58.38
GPM	2.5	3.5
WPD (ft w.g.)	7.956	3.534
Cooling Fluid	Water	Water
Heating Coil	2 Row HW	2 Row HW
Rows	2	2
EAT Dry Bulb (F)	49	49
LAT Dry Bulb (F)	127.77	114.83
Total Capacity (BTU/hr)	32374	44479
EWT (F)	200	200
LWT (F)	155.4	138.69
GPM	1.5	1.5
WPD (ft w.g.)	10.852	2.742
Heating Fluid	Water	Water
Electrical Data	PSC	PSC
Voltage 1 (V1)	208	208
Phase	1	1
Frequency	60	60
Motor HP	1	1
Motor FLA (at V1)	0.5	0.6
Unit MCA (at V1)	0.6	0.8
Unit MOPD (at V1)	15	15

Notes:
1. All temperature controls to be field supplied and installed by ATC vendor (Coordinate control with MC).
2. Architect to select unit color from vendor color chart.
3. MC and vendor to coordinate right or left hand piping connections.

MagicAire — CE Series

Decorative, slim cabinet designed for exposed ceiling applications. Unit includes double deflection discharge grille. Cabinet is galvanealed steel with baked powder Polar Ice color coating for the ultimate in durability. All panels are lined with acoustic and thermal glass fiber insulation. Filters are one inch throwaway and are accessed through the hinged bottom service panel. Optional mixed air damper for 100% outside air requirements.



	DIMENSIONS			SHIPPING WEIGHT	FILTER SIZE	OPTIONAL DISC. DUCT CONN.	OPTIONAL REAR DUCT CONN.
MODEL	A	B	B1				
CEA02	33"	36"	28"	102	10 x 18 x 1	6.75 x 15	8.5 x 18
CEA04	33"	36"	28"	109	10 x 18 x 1	6.75 x 18	8.5 x 18
CEA06	45"	36"	28"	147	10 x 27 x 1	6.75 x 27	8.5 x 36
CEA08	61"	36"	28"	155	10 x 36 x 1	8.75 x 36	8.5 x 36
CEA10	69"	36"	28"	171	10 x 45 x 1	8.75 x 45	8.5 x 45
CEA12	69"	36"	28"	225	10 x 54 x 1	8.75 x 54	8.5 x 54
ALL COIL CONNECTIONS 5/8" O.D. SWT.							
ALL DRAIN CONNECTIONS 3/4" M.P.T.							

NOTES:
1. Legend:
RA = Return Air
OA = Outside Air
2. See fan performance page for cabinet options. Refer to Coil Option Schedule for available coil combinations.
3. For cabinet options "E" and "G", damper function is 0 -50% RA and 50 -100% OA nominal.

CEA 1.0 — Page 2 — 6/14/2008

ADDITIONAL SCHEDULE NOTES:
1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S FIELD REPRESENTATIVE FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S PERSONNEL.
2. PROVIDE INTEGRAL MOTORIZED OUTSIDE AIR INTAKE DAMPER WITH EQUIPMENT.
3. MC TO CONFIRM WITH APPROVED MANUFACTURER IN THE FIELD THE PIPING SIDE CONNECTIONS FOR EACH COIL PRIOR TO FURNISHING SUBMITTAL FOR ARCHITECT/ENGINEER TO REVIEW.
4. M.C. SHALL VERIFY IN THE FIELD THE CONDENSATE DRAIN LINE CONNECTION TO NEW CONDENSATE DRAIN PAN BELOW COOLING COIL.
5. UNIT COLOR TO BE SELECTED BY ARCHITECT OF RECORD IN SUBMITTAL PHASE PRIOR TO EQUIPMENT APPROVAL.
6. PROVIDE BACNET INTERFACE.

ALL WORK SCOPE WITHIN THIS BOUNDARY SHALL BE PART OF ADD-ALTERNATE #1

VRF SYSTEM "ACC-2" OVERALL SCHEMATIC FLOW, REFRIGERANT PIPING FLOW, ELECTRICAL WIRINGS DIAGRAM INFORMATION (BASIS: LG)

LG — Air Conditioning Proposal — Briarcliff Manor HS-MS(ver 1.8.7.13)

AIR CONDITIONING PROPOSAL SHEET
Date: 06/27/2022

LG Electronics U.S.A.
4300 North Point Pkwy, Alpharetta, GA 30022

Prepared by:
BBS

Briarcliff Manor
High School-Middle School

Contents

1. Building Load Summary
2. Model Selection - Summary
3. System Model Selection - ODU
4. System Model Section - IDU
5. System Tree Diagram
6. System Schematic Diagram

LG — Air Conditioning Proposal — Briarcliff Manor HS-MS(ver 1.8.7.13)

Building Load Summary

1. Project name:Briarcliff Manor HS-MS
2. Date:06/27/2022
3. Location :Nation(New York, United States), Altitude(131ft)
4. Design conditions

		Cooling	Heating
OAT	DBT(°F)	91.9	10.9
	WBT(°F)	73.9	10.2
	RH(%)	43.3	86.0
IAT	DBT(°F)	80.6	68.0
	WBT(°F)	67.1	56.8
	RH(%)	50.0	50.0

LG — MULTI V — Briarcliff Manor HS-MS(ver 1.8.7.13)

Model Selection - Summary

Date: 06/27/2022

1. Outdoor Units

No.	Model Name	Quantity	Description
1	ARUM241DTE5	1	MULTI V 5/50,60Hz/R410A/Heat Pump/MULTI V 5/N America
Total		1	

2. Indoor Units

No.	Model Name	Quantity	Description
1	PRLK048A0	6	EEV KIT
Total		6	

3. Branch/Header

No.	Model Name	Quantity
1	ARBLN03321	1
2	ARBLN07121	4

4. Pipes

No.	Diameter(Liq./Gas,Inch)	Length(ft)
1	1/4 : 1/2	10.0
2	3/8 : 5/8	60.0
3	1/2 : 7/8	25.0
4	5/8 : 1+1/8	80.0
5	5/8 : 1+3/8	30.0

5. Accessories

Index	Model Name	Quantity	Description
IDU	PAHCMR000	6	AHU Communications Kit [Return air]

ACC-2
System Data

LG — MULTI V — Briarcliff Manor HS-MS(ver 1.8.7.13)

System Model Selection - ODU

System Name: ACC-2 — Date: 06/27/2022
System No : 1/1

1. Design conditions - Outdoor

	Cooling			Heating		
	DB(°F)	WB(°F)	RH(%)	DB(°F)	WB(°F)	RH(%)
OAT	91.9	73.9	43.3	10.9	10.2	86.0
IAT	80.0	67.0	51.2	70.0	56.8	43.8

2. Outdoor Units

Model Name	No. of ODUs (Current / Max.) (EA)	Combination Ratio (Current / Max.) (%)	Corrected Capacity / Block Load (Cooling / Heating) (%)	Pre-charged Ref. amount (lbs)	Additional Ref. Amount (lbs)
ARUM241DTE5	6 / 39	99 / 130	0.0 / 0.0	37.50	29.94

Nominal/Corrected Capa. (kBtu/h)		Nominal/Corrected Pi (kW)	
Cooling	Heating	Cooling	Heating
233.1/220.0	243.0/243.0	16.8/15.9	17.8/27.4

Efficiency(Btu/W/H)		Weight(lbs)	Dimension (WxHxD) (inch)	Electrical Characteristics				
Cooling	Heating			Volt	Phase	Hz	MCA (A)	MOP (A)
13.8	8.9	666x1	49-13/16x66-17/32x29-29/32	460	3	60	41.4	50

3. Pipes

Diameter(Liq./Gas,inch)	Length(ft)
1/4 : 1/2	10.0
3/8 : 5/8	60.0
1/2 : 7/8	25.0
5/8 : 1+1/8	80.0
5/8 : 1+3/8	30.0

4. Branch/Header

Model Name	Quantity
ARBLN03321	1
ARBLN07121	4
-	-
-	-
-	-

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.
The result can be slightly different from Product Data Book due to simulation.
Pipe lengths are estimations only.
Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

LG — MULTI V — Briarcliff Manor HS-MS(ver 1.8.7.13)

System Model Section - IDU

System Name: ACC-2 — Date: 06/27/2022
System No : 1/1

5. Indoor Units(1)

Room	Room Load(kBtu/h)			Room Design Temp.(Return Air Temp.)(F)			Model Name	Rated TC/Corrected TC(kBtu/h)			Connect Cap(Room Load%)		
	TC	SC	HC	Cooling		Heating		TC	SC	HC	TC	SC	HC
				DBT	WBT	DBT	WBT						
2nd Chemistry 229	-	-	-	80.0	67.0	70.0	56.8	PRLK048A0	45.0/45.0	-	45.0/45.0	-	-
2nd Chemistry 229	-	-	-	80.0	67.0	70.0	56.8	PRLK048A0	45.0/45.0	-	45.0/45.0	-	-
2nd Social Studies 221	-	-	-	80.0	67.0	70.0	56.8	PRLK048A0	52.0/52.0	-	52.0/52.0	-	-
2nd Social Studies 221	-	-	-	80.0	67.0	70.0	56.8	PRLK048A0	52.0/52.0	-	52.0/52.0	-	-
2nd Support 222	-	-	-	80.0	67.0	70.0	56.8	PRLK048A0	18.5/18.5	-	18.5/18.5	-	-
2nd Support 223	-	-	-	80.0	67.0	70.0	56.8	PRLK048A0	24.0/24.0	-	24.0/24.0	-	-

LG — MULTI V — Briarcliff Manor HS-MS(ver 1.8.7.13)

System Model Section - IDU

System Name: ACC-2 — Date: 06/27/2022
System No : 1/1

6. Indoor Units(2)

Tag	Model Name	Type	Ext. Discharge Temp.(°F)		Air flow rate (CFM)	Remark
			Cooling	Heating		
UV-2B	PRLK048A0	EEV KIT	-	-	-	NA
UV-2A	PRLK048A0	EEV KIT	-	-	-	NA
UV-2D	PRLK048A0	EEV KIT	-	-	-	NA
UV-2C	PRLK048A0	EEV KIT	-	-	-	NA
FCU-222 (2a)	PRLK048A0	EEV KIT	-	-	-	NA
FCU-2b	PRLK048A0	EEV KIT	-	-	-	NA

LG — MULTI V — Briarcliff Manor HS-MS(ver 1.8.7.13)

System Model Section - IDU

System Name: ACC-2 — Date: 06/27/2022
System No : 1/1

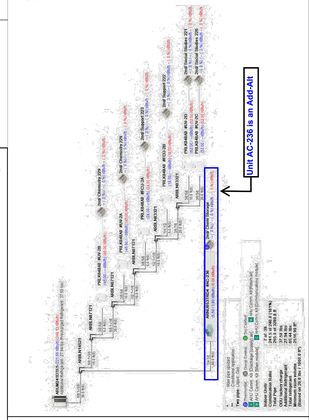
7. Indoor Units(3)

Tag	Model Name	Weight	Dimension (WxHxD)	Electrical Characteristics				
				Volt	Phase	Hz	MCA (A)	RLA (A)
UV-2B	PRLK048A0	kg	mm	DC 12V			0.10	
UV-2A	PRLK048A0	kg	mm	DC 12V			0.10	
UV-2D	PRLK048A0	kg	mm	DC 12V			0.10	
UV-2C	PRLK048A0	kg	mm	DC 12V			0.10	
FCU-222 (2a)	PRLK048A0	kg	mm	DC 12V			0.10	
FCU-2b	PRLK048A0	kg	mm	DC 12V			0.10	

LG — MULTI V — Briarcliff Manor HS-MS(ver 1.8.7.7)

System Tree Diagram

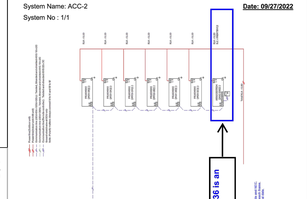
System Name: ACC-2 — Date: 09/27/2022
System No : 1/1



LG — MULTI V — Briarcliff Manor HS-MS(ver 1.8.7.7)

System Schematic Diagram

System Name: ACC-2 — Date: 09/27/2022
System No : 1/1



ADDITIONAL SCHEDULE/DIAGRAM NOTES:
1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE PRESENT TO PERFORM START-UP, COMMISSIONING, TESTING, AND TRAINING OF NEW EQUIPMENT TO OWNER'S PERSONNEL.
2. APPROVED MANUFACTURER SHALL VISIT JOB SITE TO CONFIRM EXACT DIMENSIONS AND REFRIGERANT PIPING RUN PRIOR TO FURNISHING SUBMITTAL TO M.C. TO PROVIDE TO ARCHITECT/ENGINEER FOR REVIEW.
3. PROVIDE INTERNAL LIFT CONDENSATE PUMP WITH UNIT.
4. TIE IN VRF SYSTEM VIA BACNET CARD TO EXISTING BUILDING MANAGEMENT SYSTEM. SEE SPECIFICATIONS FOR FURTHER DETAILS.
5. COORDINATE INSTALLATION WORK WITH G.C.
6. FOR OUTDOOR CONDENSING UNIT, PROVIDE SUPPORTS FROM MANUFACTURER.

REV.	DATE	ITEM

NOTICE

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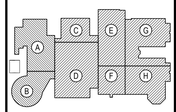

KEY PLAN
NOT TO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
SCHEDULES, EQUIPMENT NOTES AND DETAILS (4 OF 10)

DRAWING BY: R.D.P.
CHECK BY: F.S.

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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR UFSD
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE SCHEDULES, EQUIPMENT NOTES AND DETAILS (4 OF 10)
SCALE: AS NOTED
DATE: 7/15/22
BID PICK-UP:
FILE No: 21-274C

M6.04 | HSMS

OUTDOOR CONDENSING UNIT SCHEDULE (ACC-2) (BASIS: LG)

KLIMA NEW YORK, LLC

VRF Outdoor Condensing Unit Data

ACC-2

Tag No.:

ARUM241DTE5
Multi V™ S with LGRED® 460V ODU
20 Ton Single Frame Heat Pump and Heat Recovery



Performance:

Cooling Mode:	
Nominal Capacity (Btu/h)	233,100
Power Input (kW)	16.80
Heating Mode:	
Nominal Capacity (Btu/h)	243,000
Power Input (kW)	17.75

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:

Frame	ARUM241DTE5
Power Supply (V/Hz/Ø)*	460/60/3
MOP (A)	50
MCA (A)	41.4
Rated Amps (A)	37.2
Compressor A (A)	16.9
Compressor B (B)	15.3
Fan (A)	5.0

Piping:[4]

Frame	ARUM241DTE5
Refrigerant Charge (lbs.)	37.5
Liquid (in., O.D.)	5/8 Braze
High Pressure Vapor (Heat Recov only; in. O.D.)	1-1/8 Braze
Low Pressure Vapor (in., O.D.)	1-3/8 Braze

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 Rych 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 (2), Control Kit - PRVC2 (1 per system)
- ☐ Base Pan Heater - ZPLT2A51A

**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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Operating Range:

Cooling (°F DB)**	5 - 122
Heating (°F WB)	-22 - 61
Synchronous Cooling Based (°F DB)	14 - 81
Synchronous Heating Based (°F WB)	14 - 61

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max. Number of Indoor Units*	39
Sound Pressure* dB(A)	65.0
Weight	
Frame	ARUM241DTE5
Net (lbs.)	666
Shipping (lbs.)	694
Communication Cable (No x AWG)*	2 x 18
Heat Exchanger Coating	Black Coated Fin™

Compressor:

Type	HSS DC Scroll
Quantity	2
Oil / Type	PVE / FVC68D

Fan:

Type	Propeller
Quantity	2
Motor Drive	Brushless Digitally Controlled Direct
Air Flow Rate (rated/max, CFM)	10,300 / 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, stranded, shielded copper cable. Communication cable shield is properly grounded to the Main ODU chassis only. Do not ground the communications cable at any other point. Wiring must comply with all applicable local and national codes.
6. Acceptable operating voltage: 414 - 528V
7. Fan ESP (in wg) selectable range is 0.36 to 0.52.



W	48-13/16"
H	66-17/32"
D	29-29/32"
L1	8-5/16"
L2	3-3/4"
L3	5-29/32"
L4	5-13/32"
L5	2-25/32"
L6	24-9/32"
L7	2-25/32"
L8	4-1/32"
L9	6 - 1/2"
L10	5 - 9/16"
L11	8 - 5/8"
L12	6 - 7/16"
L13	9 - 15/16"
L14	3 - 5/8"

Center of Gravity

X	23-7/32"
Y	15-5/8"
Z	25-9/16"

All dimensions have a Tolerance of ±0.25 in. (Unit: inch)

M1	28-25/32"
M2	5/8"
M3	3-15/16"
M4	45-15/16"
M5	11-15/16"
M6	11 - 1/16"
M7	10 - 1/2"
M8	8 - 7/16"
M9	8 - 1/8"
M10	6 - 1/16"
M11	4 - 15/16"
M12	7 - 1/2"
M13	4 - 13/16"
M14	4 - 9/16"
M15	3 - 5/8"
M16	3"

= Center of Gravity

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SB_MultiV_S_ODU_ARUM241DTE5_2021_05_26_155641

Job Name/Location:

ARUM241DTE5
Multi V™ S with LGRED® 460V ODU
20 Ton Single Frame Heat Pump and Heat Recovery

Tag No.:
Date:
PO No.:

AHRI Data:

Reference Number	Indoor Type	Cooling Capacity (95°F)	EER (95°F)	IEER	SCHE	High Heating Capacity (47°F)	High COP (47°F)	Low Heating Capacity (17°F)	Low COP (17°F)
205281452	Ducted Indoor Units	222,000	10.40	22.70	23.00	230,000	3.20	168,000	2.26
202524553	Non-Ducted Indoor Units	222,000	10.40	22.50	26.00	230,000	3.35	168,000	2.52

ADDITIONAL SCHEDULE NOTES:
1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE PRESENT TO PERFORM START-UP, COMMISSIONING, TESTING, AND TRAINING OF NEW EQUIPMENT TO OWNER'S PERSONNEL.
2. APPROVED MANUFACTURER SHALL VISIT JOB SITE TO CONFIRM EXACT DIMENSIONS AND REFRIGERANT PIPING RUN PRIOR TO FURNISHING SUBMITTAL TO M.C. TO PROVIDE TO ARCHITECT/ENGINEER FOR REVIEW.
3. PROVIDE INTERNAL LIFT CONDENSATE PUMP WITH UNIT.
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INDOOR VRF UNIT VENTILATOR SCHEDULES (UV-2A, 2B, 2C, & 2D) AND FAN COIL SCHEDULES (FCU 2A & FCU-2B) (BASIS: MAGIC AIRE / LG)

KLIMA NEW YORK, LLC

UV & FCU Data

Briarcliff Manor HS-MS DX/ HW UV

Manufacturer	MagicAire	MagicAire	MagicAire
Performance Details	MAUH4	MAUH5	MAUH5
Arrangement	Horizontal Ceiling Mounted	Horizontal Ceiling Mounted	Horizontal Ceiling Mounted
Base Unit Size	MAUH-4	MAUH-5	MAUH-5
Tag	UV-2A & UV-2B	UV-2C	UV-2D
Quantity	2	1	1
Altitude	0	0	0
Configuration	4 Pipe	4 Pipe	4 Pipe
Nominal Airflow (CFM)	1250	1500	1500
OA (CFM)	400	520	520
External Static Pressure ESP (IWG)	0.1	0.1	0.1
Cooling Coil	4 Row DX Right Hand (R-410A)	4 Row DX Right Hand (R-410A)	4 Row DX Right Hand (R-410A)
Rows	4	4	4
EAT Dry Bulb (F)	84.5	82.9	82.9
EAT Wet Bulb (F)	70.4	69.8	69.9
LAT Dry Bulb (F)	62.77	62.49	62.48
LAT Wet Bulb (F)	59.46	59.27	59.32
Leaving Dew Point (F)	57.46	57.31	57.4
Total Capacity (BTU/hr)	45330	51810	52120
Sensible Capacity (BTU/hr)	28850	32440	32450
Saturated Condensing Temp (F)	95	95	95
Saturated EvapTemp (F)	42	45	45
	See VRF Data Performance	See VRF Data Performance	See VRF Data Performance
Heating Coil	2 Row Hot Water Coil	2 Row Hot Water Coil	2 Row Hot Water Coil
Rows	2	2	2
EAT Dry Bulb (F)	47	45	45
LAT Dry Bulb (F)	108.16	109.57	109.57
Total Capacity (BTU/hr)	85056	108451	108451
EWT (F)	200	200	200
LWT (F)	156.96	159.77	159.77

MagicAire — Magic Aire Horizontal Unit Ventilator Models MAUHF 2-5 — Certified Drawing LIHF-301-I — Front Discharge Plenum — Double Deflection Grille/Duct Collar

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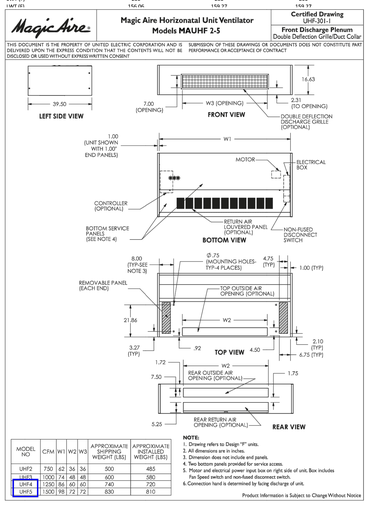


MODEL NO.	CFM	W1	W2	W3	APPROXIMATE SHIPPING WEIGHT (LBS)	APPROXIMATE INSTALLED WEIGHT (LBS)
UHF2	750	42	36	36	500	485
UHF3	1000	74	66	48	600	580
UHF4	1250	86	80	60	740	720
UHF5	1500	98	72	72	830	810

NOTE:
1. Drawing refers to Design "F" units.
2. All dimensions are in inches.
3. Dimension does not include end panels.
4. Two bottom panels provided for service access.
5. Motor and electrical power input box on right side of unit. Box includes Fan Speed switch and non-fused disconnect switch.
6. Connection hand is determined by facing discharge of unit.

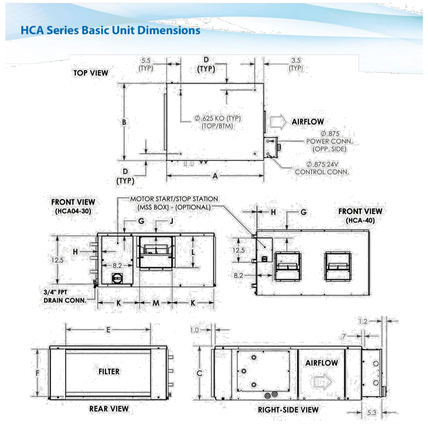
Product Information is Subject to Change Without Notice

Briarcliff Manor HS-MS FCU DX-HW

Manufacturer	MagicAire	MagicAire
Performance Details	HCA04	HCA04
Item Number	1	2
Base Unit Size	HC-4	HC-4
Tag	FCU-2a (222)	FCU-2b (223)
Quantity	1	1
Altitude	0	0
Configuration	4 Pipe	4 Pipe
AirFlow (ACFM)	400	250
OA (CFM)	40	20
External Static Pressure ESP (IWG)	0.4	0.4
Internal Static Pressure ISP (IWG)	0.31	0.125
Total Static Pressure TSP (IWG)	0.71	0.525
RPM	1156	911
BHP	0.21	0.105
Watts	157.7	76.3
Cooling Coil	Standard Capacity DX/R-410A Coil	Standard Capacity DX/R-410A Coil
Rows	3	3
EAT Dry Bulb (F)	92	92
EAT Wet Bulb (F)	74	74
LAT Dry Bulb (F)	56.81	51.24
LAT Wet Bulb (F)	55.8	50.32
Leaving Dew Point (F)	55.13	49.59
Total Capacity (BTU/hr)	24110	18570
Sensible Capacity (BTU/hr)	14860	10760
Saturated Condensing Temp (F)	95	95
Saturated EvapTemp (F)	42	42
Heating Coil	2 Row HW	2 Row HW
Rows	2	2
EAT Dry Bulb (F)	63	63
LAT Dry Bulb (F)	135.03	150.4
Total Capacity (BTU/hr)	35592	23957
EWT (F)	200	200
LWT (F)	173.92	180.23
GPM	2.5	2.5
WPD (ft w.g.)	1.752	1.752
Heating Fluid	Water	Water
Electrical Data	ECM-Premium-std static	ECM-Premium-std static
Voltage 1 (V1)	208	208
Phase	1	1
Frequency	60	60
Motor HP	1	1
Motor FLA (at V1)	3	3
Unit MCA (at V1)	3.8	3.8
Unit MOPD (at V1)	15	15

Notes:
1. All temperature controls to be field supplied and installed by ATC vendor (Coordinate control with MC).
2. Mixing box to be field supplied and installed by others.
3. MC and vendor to coordinate control and installation of VRF integration accessories.
4. MC and vendor to coordinate right or left hand piping connections.

HCA Series Basic Unit Dimensions



MODEL	DEPTH	WIDTH	HEIGHT	UNIT MTG	RETURN OPENING		MSS BOX		SUPPLY OPENING			
	A	B	C	D	E	F	G	H	J	K	L	M
HCA04/06	38.1	30.3	14.0	2.6	21.9	12.2	0.8	1.0	0.8	10.8	8.2	8.5
HCA08/12	38.1	37.8	19.0	2.1	27.5	16.2	2.8	0.7	1.2	14.6	10.5	8.3
HCA16/20	42.1	46.3	22.0	2.1	35.9	20.2	4.8	1.0	1.0	15.6	13.8	14.9
HCA30	52.6	59.3	34.0	2.1	47.9	32.2	4.2	0	12.2	22.6	13.8	12.5
HCA40							4.2	0	12.2	9.7	13.8	12.5

6

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5. COORDINATE INSTALLATION WORK WITH G.C.

UV-2A to 2D & FCU-2A & 2B (EEV Kit) Qty. (6)

Tag #:

PRLK048A0
Electronic Expansion Valve Kit
for AHU Communications Kit



Electrical:

Power Supply	Powered by AHU Comm Kit (12 VDC)

Environmental Data:

Operating Temperature	-4 -149 °F
Humidity	0-98 % (non-condensing)

Unit Data:

Dimensions (inch)	8-5/8 W x 15-15/16 H x 3-5/16 D
Net Weight (lb)	6.8
Shipping Weight (lb)	7.9

Capacity:

Maximum AHU Capacity (Btu/h)	96,000

Standard Features:
- Controls refrigerant flow between Multi V air or water source units and a 3rd party air handling unit
- Minimum coil entering temperature is 41°F
- Maximum distance between EEV and Comm kit is 10 feet
- Maximum of (1) EEV kit can be connected to Comm kit
- When brazing to LEV kit, use wet cloth to ensure main LEV body temperature does not exceed 248°F
- Designed for indoor installations (field supplied water proof enclosure must be used when installing outdoors)
- Includes (5) Pipe In and (1) Pipe Out temperature sensor

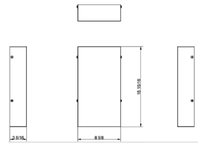
Communications Cabling Specifications:

Type	Stranded, shielded copper cable
Size	AWG 18 x 6

AWG - American Wire Gauge

Refrigerant

Refrigerant Type	R410A



Notes:
1.Must follow installation instructions in the applicable LG installation manual.

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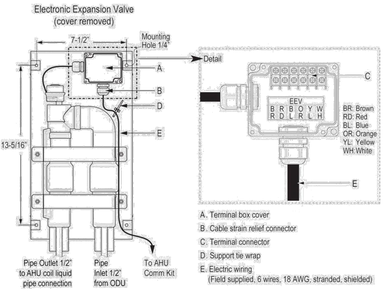
SB_EEV_PRLK048A0_2020_11_13_134603

Job Name/Location:

PRLK048A0
Electronic Expansion Valve Kit
for AHU Communications Kit

Tag #:
Date:
PO No.:



A. Terminal box cover
B. Cable strain relief connector
C. Terminal connector
D. Support tie wrap
E. Electric wiring
(Field supplied, 6 wires, 18 AWG, stranded, shielded)

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SB_EEV_PRLK048A0_2020_11_13_134603

UV-2A to 2D & FCU-2A & 2B (AHU Communication Kit) Qty. (6)

Tag No.:

PAHCMR000
AHU Communications Kit
Return Air



Electrical:

Power Supply	208-230VAC, 60Hz, 1Ph
Rated Current	0.1A

Environmental Data:

Operating Temperature	-4 to +149°F
Humidity	0-98% (Non-condensing)

Unit Data:

Dimensions (inch)	11-13/16 W x 6-3/32 D x 11-13/16 H
Net Weight (lb.)	13.7
Shipping Weight (lb.)	16.4

Standard Features:
- Allows communication between third-party air handling unit control-lers and LG air source and water source units
- AHU Coil Capacities
  - 41°F minimum entering air temperature
  - 12-384 kBtu/h for Multi V
  - 5-85 kBtu/h for Single Zone
- One Thermistor (Return air; 16.4 ft. in length.)
- EEV Control
- Analog input (0-10V) for capacity control
- Digital Inputs for On/Off and Mode control
- Digital Outputs for ODU running status (heat/cool/off), ODU defrost signal

Connectivity:

LG Communications	RS-485 (Connects to IDU A/B Communications Terminals on ODU)

Communications Cabling Specifications:

Type	Stranded, Shielded Copper Cable
Size	18 x 2

AWG - American Wire Gauge

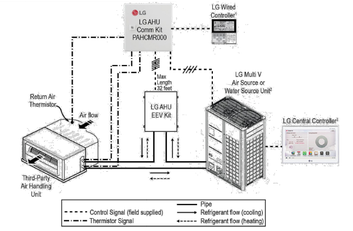


AHU Capacity Multi V (kBtu/h)	AHU Capacity Single Zone (kBtu/h)
12	18
15	24
18	36
24	42
36	48

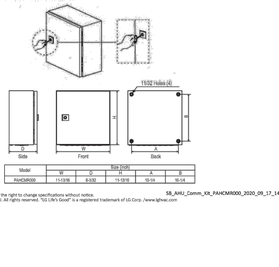
Job Name/Location:

PAHCMR000
AHU Communications Kit
Return Air

Tag No.:
Date:
PO No.:



¹LG wired controller is required.
²Compatible units are Multi V and Single Zone.
³Compatible central controllers are AC Smart V and ACP V.



Model	Size (inch)			
	W	D	H	A	B
PAHCMR000	11-13/16	6.032	11-13/16	10-1/4	10-1/4

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SB_AHU_Comm_Kit_PAHCMR000_2020_09_17_145919

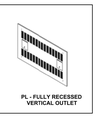
FULLY RECESSED HOT WATER CONVECTOR SCHEDULES (CV-158 & CV-160) (BASIS: ZEHNDER RITTLING)

zehnder Rittling — **Model PL-32-48-06**

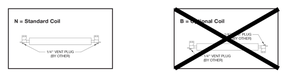
Qty	Coil Config	Inlet/Outlet	End Pocket
2	**Hot Water**		**NONE**

General Information		
Altitude:	0	Feet
Height:	**32" H**	
Length:	**48" L**	
Depth:	**6" D**	
Hot Water Heat		
Capacity:	**7.5**	MBH
Entering Air Temperature:	**68.0**	°F
Fluid Flow:	**0.6**	GPM
Entering Fluid Temperature:	**200.0**	°F
Leaving Fluid Temperature:	**175.4**	°F
Average Fluid temperature	**187.7**	°F
Fluid ΔT:	**24.6**	°F
Fluid Pressure Drop:	**0.1**	ft. H2O
Fluid Type:	**Water**	
Glycol %:	**0**	
Unit Information		
Unit Length:	**48**	inches
Unit Width:	**6**	inches
Unit Height:	**32**	inches

* Weight is base unit only, does not include any options or accessories selected.



☐ **Dimensions and data**



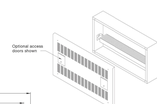
Coil

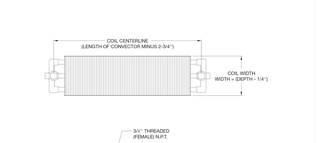
☐ **Dimensions and data**

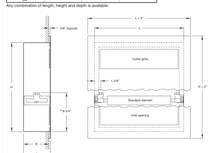
Nominal lengths ft.)	Nominal heights (in.)	Nominal depths (in.)	Maximum dimension (ft.)
24"	18"	6"	4'-0"
28"	20"		
36"	24"		
48"	30"		
60"			
62"			

Any combination of length, height and depth is available.

Model PL; fully recessed wall







PL Connector Access Door Location Availability

Unit Height	Unit Lengths	# of Doors Available	Available Locations	Door Size
Less than 18"	All Lengths	0	No access door locations available	
18" to 19"	Less than 32"	1	3, 4, 5, 6	4"H x 5"W
18" to 19"	32" and longer	2	3, 5 or 4, 6	4"H x 5"W
19" to 19"	32" and longer	4	3, 4, 5, 6	4"H x 5"W
20" to 25"	Less than 32"	1	1, 2, 3, 4, 5, 6	4"H x 5"W
20" to 25"	Less than 32"	2	1, 2 or 3, 5 or 4, 6	4"H x 5"W
20" to 25"	32" and longer	4	3, 4, 5, 6	5"H x 5"W
26" and over	Less than 32"	2	1, 2 or 3, 5 or 4, 6	5"H x 5"W
26" and over	Less than 32"	4	1, 2, 3, 5 or 1, 2, 4, 6	5"H x 5"W
26" and over	32" and longer	6	1, 2, 3, 4, 5, 6	5"H x 5"W

Standard Connector Access Door Locations

Note:
- Fins are 0.010" thick aluminum.
- Header material is cast brass.
- For Connectors with end pockets, subtract end pocket length from length of Convector.

Note:
- Access doors not available in locations 5 and 6 with arched inlet.
- "Contact factory on heights less than 20"
- For convectors less than 28" long, end pockets are not offered as standard. Consult factory for availability.
- "The coil is adjustable 1/8" up in 7/16" increments.

Enclosures
Rittling Convectors are specially constructed to satisfy the requirements of strength and safety in many different building applications. Rittling Convectors are also available in louvered, perforated and aluminum grille inlet and outlets.

Inlets and outlets
Standard units have louvered optional inlets and outlets. Units are available in 16-gauge and 14-gauge. The louvered openings are fabricated to be "pencil proof."



Finish
All convectors are thoroughly cleaned and phosphatized after fabrication and finished with a polyester-epoxy powder coating.

Units shown, back to front:
- Type SL wall-mounted with slope top louvered outlet.
- Type FL floor-mounted with optional arched inlet and vertical architectural bar grille outlet.
- Type SF free standing with slope top and optional security perforated inlet/outlet.

☐ **Standard unit features**

Heating elements
Heating elements are available in three standard nominal depths: 4" with 2-tube element; 6" with 3-tube element; and 8" with 4-tube element. The element assembly is protected by shield plates running the entire length of the element, and is supported in enclosure by a welded bracket to eliminate strain on piping or element. Fins of 0.010" aluminum have integral collars to assure uniform spacing. Tubes are mechanically expanded into collars to permit maximum heat transfer. Headers are cast brass with 3/4" NPT top or bottom tappings.

Reversed headers
One header can be reversed to be mounted "up," while the other is mounted "down," for reverse piping applications. (Specify when ordering.)

(N) Standard coil header



Warranty

Zehnder Rittling guarantees its products to be free from defects in material and workmanship for a period of one year from date of shipment from our factory.

Should there be any defects in the good(s), the purchaser should promptly notify Zehnder Rittling. Upon receipt of written consent from Zehnder Rittling, the purchaser shall return the defective goods) to the factory for inspection with freight prepaid. If inspection shows the goods to be defective, Zehnder Rittling will at its discretion repair or replace the said item(s).

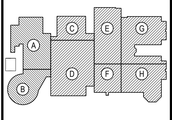
Defects arising from damage due to shipment, improper installation, negligence or misuse by others are not covered by this warranty.

This warranty is extended only to the original purchaser from Zehnder Rittling.

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

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

SCHEDULES, EQUIPMENT
NOTES AND DETAILS (5 OF 10)

BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

www.BBSARCHITECTURE.com

SED No. 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: SCHEDULES, EQUIPMENT NOTES AND DETAILS (5 OF 10)

DRAWING BY: R.D.P.

CHECK BY: F.S.

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SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M6.05 | HSMS

SELF-CONTAINED UNIT VENTILATOR SCHEDULES
(UV-1F & UV-G) (BASIS: MAGIC AIRE)

Performance and Physical Data - Three Phase Units

For conditions of coil outside of AHRI Conditions, please contact your local sales office.

Quick Selections

SCB Three Phase Units - Cooling Capacity and Efficiency

Model	Nominal Tons	SCFM	Nominal Speed		Partial Load	
			Net Cooling BTUH	Efficiency (EER)	Net Cooling BTUH	Efficiency (EER)
SCB2	2	750	23200	11.6	13359	15.7
SCB3	3	1000	38000	9.7	18768	14.3
SCB4	4	1250	44800	10.4	19268	16.5
SCB5	5	1400	52000	10.2	17160	16.3

AHRI Conditions - Nominal Speed : Indoor 80°DB / 67°WB, Outdoor 95°DB / 75°WB
AHRI Conditions - Partial Load : Indoor 80°DB / 67°WB, Outdoor 82°DB / 65°WB

Nominal Capacity		SCB2	SCB3	SCB4	SCB5
Hot Water Heating (BTUH)	1Row	23308	30085	37083	44501
	2Row	35838	47346	58489	69479
Steam Heating (BTUH)	1 Row	60200	80200	100300	120500
	2 Row	97000	129100	161500	193700

Hot Water heating capacity: 82°EAT; 160°F EWT; 6 GPM
Steam heating capacity: 0°EAT; 2 PSI steam at 218.3°F.

Physical Data				
Unit Model	SCB2	SCB3	SCB4	SCB5
Nominal Airflow, CFM	750	1000	1250	1500
Indoor Fan Data				
Quantity	3	4	5	5
Diameter (in.) x Width (in.)	8.12 X 7.75	8.12 X 7.75	8.12 X 7.75	8.12 X 7.75
Outdoor Fan Data				
Quantity	3	4	5	5
Diameter (in.) x Width (in.)	6.25 X 8.0	6.25 X 8.0	6.25 X 8.0	6.25 X 8.0
Motor Data				
Quantity	1	1	1	1
Indoor Motor HP	1/2	1/2	3/4	3/4
Outdoor Motor HP	3/4	3/4	1	1
Filters				
Quantity	1	1	1	1
Nominal Size(in.) (1 in.) and (2in.)	9.25" x 48.25"	9.25" x 60.25"	9.25" x 72.25"	9.25" x 72.25"

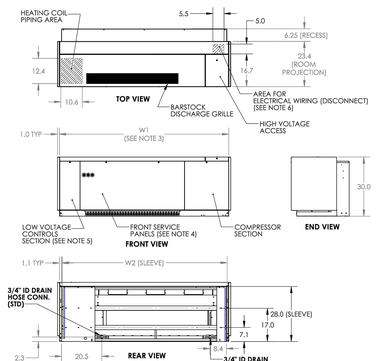
SPB Three Phase Units - Cooling and Heating Capacity and Efficiency

Model	Nominal Tons	Nominal Speed		Partial Load		Nominal Speed		Partial Load	
		Net Cooling BTUH	Efficiency (EER)	Net Cooling BTUH	Efficiency (EER)	Net Heating BTUH	Efficiency (EER)	Net Heating BTUH	Efficiency (EER)
SPB2	2	21700	10.6	13500	14.0	20400	3.1	17100	3.5
SPB3	3	36100	9.6	25300	13.5	36300	3.0	28500	3.5
SPB4	4	42900	9.9	32700	13.7	42200	3.2	35200	3.6
SPB5	5	51200	9.8	33600	13.6	50000	3.2	41500	3.6

AHRI Cooling Conditions - Full Load : Indoor 80°DB / 67°WB, Outdoor 95°DB / 75°WB
AHRI Cooling Conditions - Partial Load : Indoor 80°DB / 67°WB, Outdoor 82°DB / 65°WB
AHRI Heating Conditions - Nominal Speed : Indoor 70°DB / 60°WB, Outdoor 47°DB / 43°WB
AHRI Heating Conditions - Partial Load : Indoor 70°DB, Outdoor 82°DB / 56.5°WB

Physical Data				
Unit Model	SCB2	SCB3	SCB4	SCB5
Nominal Airflow, CFM	750	1000	1250	1500
Indoor Fan Data				
Quantity	3	4	5	5
Diameter (in.) x Width (in.)	8.12 X 7.75	8.12 X 7.75	8.12 X 7.75	8.12 X 7.75
Outdoor Fan Data				
Quantity	3	4	5	5
Diameter (in.) x Width (in.)	6.25 X 8.0	6.25 X 8.0	6.25 X 8.0	6.25 X 8.0
Motor Data				
Quantity	1	1	1	1
Indoor Motor HP	1/2	1/2	3/4	3/4
Outdoor Motor HP	3/4	3/4	1	1
Filters				
Quantity	1	1	1	1
Nominal Size(in.) (1 in.) and (2in.)	9.25" x 48.25"	9.25" x 60.25"	9.25" x 72.25"	9.25" x 72.25"

Dimensions - Partial Recess - 23 3/8" Room Projection



Model	Nom. Tons	W1 (IN.)	W2 (IN)	Approx. Shipping Weight (LBS)	Approx. Installed Weight (LBS)
SC/PB2	2	86.2	84.0	1083	1023
SC/PB3	3	98.2	96.0	1315	1252
SC/PB4	4	110.2	108.0	1539	1472
SC/PB5	5	110.2	108.0	1549	1482

PRODUCT INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE

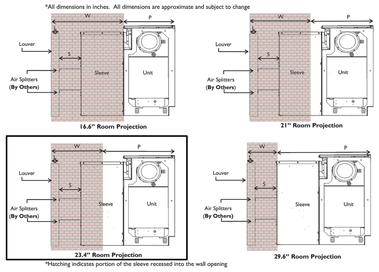
NOTE:
1. DRAWING REFERS TO DESIGN "B" UNITS.
2. ALL DIMENSIONS IN INCHES.
3. DIMENSION DOES NOT INCLUDE END PANELS.
4. THREE FRONT PANELS PROVIDED FOR SERVICE ACCESS.
5. LOW VOLTAGE CONTROLS INCLUDE FAN SWITCH & UNIT CONTROLLER.
6. NON-FUSED DISCONNECT INCLUDED WITH SLEEVE CONFIGURATION.
7. CONNECTION HAND IS DETERMINED BY FACING FRONT OF UNIT. FOR UNITS WITH EXTENDED DRAINPAN OPTION (DIGIT 25 CODES E & F).

Dimensions - Louver and Sleeve

The SCB consists of two major sections; the Self-Contained Unit and the Sleeve. The Sleeve is either recessed fully into the wall, partially into the wall, or the sleeve is not recessed at all and is fully projected into the room. The louver is mounted to the exterior of the building. The field must provide horizontal air splitters if the sleeve does not fully meet the louver. Finished End Panels and Tops will cover the depth of both the Unit and Sleeve that projects into the room.

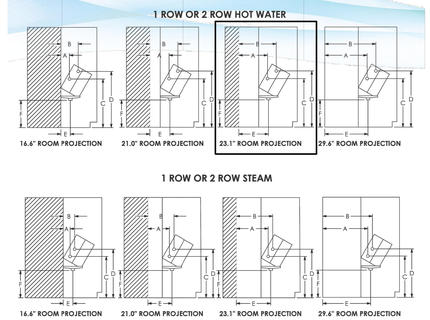
Table 3 - Projection & Recess Dimensions	Recess Type	No Recess	Partial	Partial	Full
	Room Projection, P	29.625	23.375	21.000	16.625
	Recess into Wall, R	0	6.25	8.625	13
	Total Unit Depth	29.625	29.625	29.625	29.625
Wall Thickness, W	Louver , L	Splitter Length from Wall Sleeve to Louver, S			
2.5	2.5	0			
4	2.5	1.5			
6	2.5	3.5			
8.75	2.5	6.25	0.00		
10	2.5	7.5	1.25		
10.625	2.5	8.125	1.875		
12	2.5	9.5	3.25	0.875	
13.625	2.5			2.5	
18	2.5			6.875	2.5
24	2.5			12.875	8.5

*All dimensions in inches. All dimensions are approximate and subject to change



*Hatching indicates portion of the sleeve recessed into the wall opening

Piping Detail Dimensions



ROOM PROJECTION	1 ROW OR 2 ROW HOT WATER						1 ROW STEAM OR 2 ROW STEAM					
	A	B	C	D	E	F	A	B	C	D	E	F
23.6	30.6	34.3	11.4	13.7	15.7	4.9	18.1	30.4	9.1	11.5	15.7	4.9
23.1	14.1	17.7	11.4	13.7	9.2	4.9	11.6	13.9	9.1	11.5	9.2	4.9
21	12.0	15.6	11.4	13.7	7.1	4.9	9.5	11.8	9.1	11.5	7.1	4.9
16.6	7.6	11.3	11.4	13.7	2.7	4.9	5.1	7.4	9.1	11.5	2.7	4.9

Notes:
- *All Coils have same end supply and return connections.*
- *All Hot Water and Steam Coils have left hand connections.*
- *Water connections are 7/8" O.D.*
- *Steam coil supply is 1-1/8" O.D. Condensate return line is 7/8" O.D.*
- *Hatched sections refer to portion of unit recessed into wall*

Electrical Connections

Electrical Connections
Refer to unit serial plate for required supply voltage, amperage, and required circuit ampacities. Refer to unit wiring diagram for unit and field wiring. The unit should never be controlled by any device other than the factory supplied controls unless prior factory authorization is obtained.

Whenever the electric stub-up is brought in through the floor within the confines of the wall sleeve and any portion of the wall sleeve is recessed into the wall, the conduit must be flush with the floor to permit installation of the wall sleeve. Sufficient space must be left around the conduit to permit the attachment of the continuing conduit after the wall sleeve is installed. For concrete slabs, it is recommended that this be accomplished either by sleeving the conduit or by recessing a junction box into the slab.

Access to all high voltage controls including the unit disconnect can be gained through the access panel at the top right side of the unit. Wiring can be routed through the 2" knockouts in the side or rear of sleeve as well as location in bottom of unit.

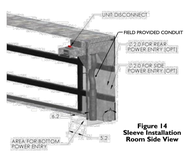


Figure 14
Sleeve Installation Room Side View

Note: Units are shipped in nominal (non-pull down) mode. Pull down mode is disabled on all units as shipped, but the mode will be available within the unit control menu (single phase only) unless specified on the order not to allow. If pull down mode is specified as not allowed on order, the control menu will not have pull down mode available for selection.

SELF-CONTAINED UNIT VENTILATOR SPECIFICATIONS
(UV-1F & UV-G) (BASIS: MAGIC AIRE)

Equipment Specifications

SPB model self-contained unit ventilators are designed for mounting through the wall. The units shall incorporate direct expansion cooling, heat pump capabilities and electric heat as specified. Modulating Hot Gas Reheat Coil shall be utilized when specified to optimize dehumidification. Direct Digital Control (DDC) packages are factory provided and installed and can operate as stand-alone or can be incorporated into a BACnet network. Indoor air quality is assured with ASHRAE II cycles.

The unit shall be a factory-assembled bolt-together unit ventilator. Contained within the unit enclosure shall be factory-installed indoor and outdoor motors, wiring, indoor and outdoor blowers, variable speed refrigeration section, condenser and evaporator coils, bearing(s), outdoor/return air damper, optional face/bypass damper and factory mounted DDC controls. Unit shall have a draw-thru design for uniform air distribution across the coil and even discharge temperatures.

UNIT CONSTRUCTION

Unit shall be constructed of heavy gauge steel components to form a ridged frame that is suitable for rigorous classroom duty. Unless painted for cosmetic reasons, the frame shall be entirely of galvanized material to prevent corrosion.

Exterior panels must be constructed of heavy gauge steel that have been cleaned and pretreated prior to painting to afford the maximum corrosion resistance possible, even after scratches that might appear during normal use. These panels shall be coated with at least 2 mil of the highest quality, polyester baked-on textured powder paint.

Unit tops shall be constructed of heavy gauge steel coated with a textured finish baked on powder paint to resist both corrosion and marring during normal use. Units shall be constructed such that normal unit operation is not affected by removal of front panels for routine maintenance or troubleshooting/ adjustments of control components. Units requiring all front panels to be in-stalled for correct unit operation shall not be accepted.

Each unit shall be completely factory assembled and shipped in one piece. Packaged units shall be shipped fully charged with R-410A refrigerant and oil.

The unit shall undergo a complete factory run test prior to shipment. The factory test shall include a refrigeration circuit run test, a unit control system operations check, a unit refrigerant leak test, and a final unit inspection. At factory test, all units shall conform to ETL standards.

Unit shall include three standard 16-gauge exposed front panels, and service access panels with tamper -resistant hex socket head threaded fasteners for ease of service. 14-gauge panels are optional.

Cabinet models shall have standard textured baked powder finished panels. Cabinet tops shall be charcoal bronze as standard with a steel bar-stock discharge grille. Optional textured baked power paint colors to match panels will be available for cabinet top. Optional slooped top shall be available. Unit top shall be easily removed for routine maintenance.

Unit shall include leveling legs to compensate for floor irregularities.

INSULATION

The standard unit shall be constructed such that there shall be no fiberglass in the airstreams. Only closed cell insulation shall be used. The use of fiberglass insulation is not acceptable.

BAR STOCK DISCHARGE GRILLE

Discharge grilles shall be welded steel continuous blade design with spacing no more than .230" such that normal pencils cannot penetrate.

To further ensure that debris cannot be placed into the fans, the grille shall be backed by screens with spaces no larger than 1/4 inch.

DRAIN PANS drain pans shall be furnished on all units. Pans shall be insulated to ensure that they do not sweat during the cooling season and be sloped in two planes to prevent standing water. Drain stubs shall be at least 7/8" OD. Left hand connections standard on all units.

Equipment Specifications

ROOM AIR FANS AND MOTOR

Fan and motor assembly shall be direct driven. One end of drive shaft shall be mounted in a sleeve-type or ball bearing, with other end of shaft supported by motor bearings. Fan wheels shall be double-width, double-inlet with forward-curved blades, and shall operate at low speed. Fan wheels shall be mounted on a hollow one piece steel shaft. Fan wheels shall be statically and dynamically balanced. Fan (blower) housings shall be constructed from heavy-gauge steel and mounted to a heavy-gauge galvanized steel fan deck. To prevent vibration transmission to the unit frame, motor and shaft bearing shall be resiliently mounted. The drive shaft shall be connected to motor with a flexible coupling. Fan motors shall be mounted outside of the airstream on a heavy-gauge steel partition and removable without removing the blower module. Unit shall be supplied with higher efficiency 3-speed electronically commutated motors (ECM). All motors shall have integral high temperature reset and shall be protected with cartridge-type fuse(s).

CONDENSER FANS AND MOTOR

Fan and motor assembly shall be direct driven. One end of drive shaft shall be mounted in a sleeve-type or ball bearing, with other end of shaft supported by motor bearings. Fan wheels shall be double-width, double-inlet with forward-curved blades, and shall operate at low speed. Fan wheels shall be mounted on a hollow one piece steel shaft. Fan wheels shall be statically and dynamically balanced. Fan (blower) housings shall be constructed from heavy-gauge steel and mounted to a heavy-gauge galvanized steel fan deck. To prevent vibration transmission to the unit frame, motor and shaft bearing shall be resiliently mounted. The drive shaft shall be connected to motor with a flexible coupling. Unit shall be supplied with higher efficiency 3-speed electronically commutated motors (ECM). All motors shall have integral high temperature reset and shall be protected with cartridge-type fuse(s).

ROOM AIR/OUTDOOR AIR DAMPERS

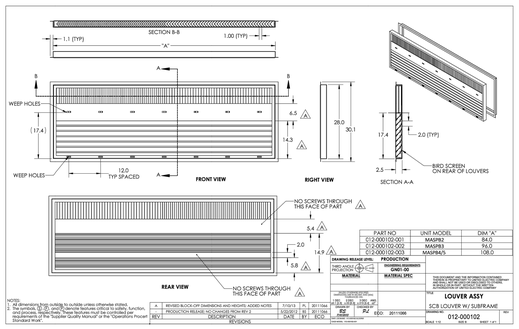
Unit shall contain a single outdoor-air/return-air damper with a continuous seal the length of the damper. The damper shall be constructed of extruded aluminum that has an integral curved web to afford maximum rigidity. Damper shall be constructed of one piece heavy gauge extruded aluminum material that has been stiffened by use of multiple components to afford maximum rigidity, strength and corrosion resistance. Seals shall be deep pile polyester material on all side edges; damper blades shall use dual durometer PVC seals with memory suit-able for use from -30°F to 160°F. The damper shafts shall pass through trouble-free nylon bearings and be connected to the damper blade using multiple fasteners that utilize vibration resistant components for maximum trouble-free life. The damper must be insulated with closed cell foam insulation. Optional cold weather damper must be avail-able for maximum cold weather protection.

FACE AND BYPASS DAMPER

A single face and bypass damper with a continuous seal the length of the damper constructed of extruded aluminum shall be available. Face and bypass dampers must be constructed of heavy gauge aluminum material that has been stiffened by use of multiple components to form a cross section that forms a rectangle to afford maximum rigidity. Damper shafts shall pass through trouble free nylon bearings and be connected to the damper blade using multiple fasteners that utilize vibration resistant components for maximum trouble-free life.

AGENCY LISTINGS

All units shall be listed by NRTI (Nationally Recognized Testing laboratory) such as ETL. All units shall have certified performance under applicable ARI 840 program for unit ventilators. The manufacturer shall furnish proof of such certification prior to final approval of the product. Unit insulation and adhesive shall meet the require-ments for flame spread rating of lower than 25 per ASTM E84 and smoke generation rating of lower than 50 per ASTM E84.



PART NO.	UNIT MODEL	DIM "A"
C12-000102-001	MAGPB2	84.0
C12-000102-002	MAGPB3	96.0
C12-000102-003	MAGPB4/5	108.0

DRAWING RELEASE (DFR) — PRODUCTION

THIRD ANGLE PROJECTION

ENGINEERING RESPONSIBILITY: **GHD1-00**

MATERIAL SPEC

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TITLE: **LOUVER ASSY**

SCB LOUVER W/ SUBFRAME

DRAWING NO: 012-000102

SHEET 1 of 1

REV	DESCRIPTION	DATE	BY	ECO
A	REVISED BLOCK-OFF DIAMENSIONS AND HEIGHTS ADDED NOTES	7/10/13	R	2011064
	PRODUCTION RELEASE - NO CHANGES FROM REV A	5/20/13	BJ	2011064

NOTES:
1. All dimensions from outside to outside unless otherwise stated.
2. Finish: Mill finish, 6063-T5 aluminum extrusion, 10 micron AAMA 611 anodized minimum. Nickel finish. These features must be controlled per requirements of the "Supplier Quality Manual" of the "Operations Process Standard Work".

Equipment Specifications

TEMPERATURE CONTROLS

The manufacturer shall furnish, install, wire and factory test a complete DDC Control Package suitable for the unit type(s) selected. The control pack-age can be ordered Network Ready to be integrated into a Building Management System network or ordered for stand-alone operation and shall have all of the necessary sensors and accessories to monitor, control and ensure com-plete and safe operation of the unit. The Network Ready control packages shall be capable of BACnet MSTP network protocol ASHRAE Cycles II shall be utilized. Control Components and features shall be included as needed according to unit selection.

DDC Controller and interfacing with Variable Speed Control Compressor and DC inverter

Temperature Sensors

Face and Bypass Control with damper actuator

Outside Air Control with damper actuator

Tenant override Switch

Override Scheduling

Holiday Scheduling

CO2 Sensor option

Humidity Sensor options

Drain Pan Overflow Switch

Remote mounted sensor with capability to sense room temperature and have tenant override built in.

All control components shall be factory provided and installed. Field provided and/or installed controls shall not be acceptable.

COILS

DX coils shall be furnished with a thermal expansion valve sized to accommodate the condensing unit selected to meet the load. Coils shall be pressure tested at no less than 500psig at the factory to ensure they are leak tight.

(Optional) Modulating Hot Gas Reheat Coil shall be utilized to optimize dehumidification without using additional energy to reheat.

(Optional) Electric heat elements shall be the open wire type. They shall be mounted in individual heavy gauge galvanized steel frames and suspended in ceramic insulators.

Dual capillary type thermal sensing elements, one automatic reset and one manual reset, shall be employed to protect the unit from overheating in the event of abnormal operation.

REFRIGERATION SYSTEM

The refrigeration section shall be constructed of galvanized steel and shall be factory sealed, factory piped assembly consisting of a condenser coil, condenser fan and motor, evaporator coil, and a variable speed compressor with integral VFD. The variable speed compressor with integral VFD shall be used to maintain high efficiency at part load. The unit controller shall control the speed of the compressor to maintain the discharge air temperature. Two compressor operating modes shall be available. The standard mode shall contain a Pull Down mode to allow for quicker pull down and a broader range of capacity. The equipment manufacturer is to be fully responsible for the integrity of the refrigerant piping and the entire refrigeration circuit, including compressor.

Condenser and evaporator coils shall be fully assembled and tested prior to shipment. The motor compressor unit shall be vibration isolated internally and externally and-shall be connected in such a manner as to prevent transmission of vibration to other components within the section. The condenser coil shall be constructed of copper tubes mechanically expanded to embossed aluminum plate fins. The evaporator coil shall be constructed of copper tubing having embossed aluminum plate fins mechanically bonded thereto and shall be positioned above an insulated galvanized steel drain pan. Refrigerant shall be metered by a electronic expansion valve to achieve evaporator performance and to protect the compressor from floodback of liquid refrigerant. The refrigerant section shall be adequately insulated to prevent "sweating." The unit shall be furnished and wired with compressor thermal/current overload, low-pressure cutout and high-pressure cutout. Gauge ports shall be provided to allow reading of refrigerant pressures at the suction and discharge of the compressor. Compressor shall be equipped with internal pressure relief valve to protect against excessive pressure buildup.

FILTERS

The units shall be furnished with throwaway, permanent, renewable filters. This filter shall be placed in the air stream such that all outdoor and/or return air passes through a single filter. Separate filtration of the outdoor air and return air is not acceptable. Permanent filters shall be constructed utilizing a heavy gauge aluminum frame with spun aluminum media suitable for repeated washing and reuse. Renewable filters shall be constructed of heavy gauge galvanized, painted frames fitted with fiberglass media. The frame shall be easily disassembled for media renewal. Units shall be constructed to accept 2" filters without cabinet modification.

Equipment Specifications

WALL INTAKE LOUVER

The louver shall be supplied by the unit manufacturer and shall be of heavy-gauge (unpainted, painted, or clear anodized) aluminum construction. The louver shall be of the [vertical blade] [horizontal blade] type and shall be divided in half horizontally across the louver to prevent condenser air recirculation. All louvers shall be suitable for both masonry and panel wall construction. The frame of the louver shall have weep holes along the bottom. Lintels shall be provided by the contractor above the louver opening.

(Optional) A decorative lattice grille shall be furnished on the exterior face of the louver.

WALL SLEEVE

The galvanized steel wall sleeve shall be set in a wall opening and completely touching directly against the intake louver. Where it is not possible for the wall sleeve to touch the wall intake louver, the contractor shall fabricate and install a horizontal sheet metal baffle between louver and wall sleeve to provide an airtight separation between condenser discharge and return air. The wall sleeve is to be permanently fastened in place and shall be suitably sealed, caulked or grouted by the contractor around the entire perimeter to prevent air leakage. The wall sleeve shall be fitted with an electrical junction box containing a service disconnect ("on-off") switch. All field-wiring connections shall be made in this wall sleeve junction box. It shall be the installing contractor's responsibility to make the final load side power wiring connections between the wall sleeve junction box and the unit terminal block. Contractor shall provide all necessary balancing valves, shutoff valves and union connections in both the supply and return piping connections to permit removal of the unit from the wall sleeve for servicing.

REV.	DATE	ITEM

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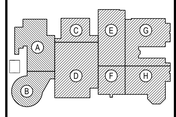

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

SCHEDULES, EQUIPMENT NOTES AND DETAILS (6 OF 10)

PROJECT

DWG TITLE

DRAWING BY: R.D.P.

CHECK BY: F.S.

NOTICE

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

www.BBSARCHITECTURE.com

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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE SCHEDULES, EQUIPMENT NOTES AND DETAILS (6 OF 10)

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M6.06 | HSMS

AIR DEVICE SCHEDULE

(ANEMOSTAT AS STANDARD)

MANUFACTURER MODEL NO.	TAG	NECK SIZE	MODULE SIZE	CFM RANGE	SYMBOL & FLOW PATTERN
ANEMOSTAT PG SUPPLY	A	8"Ø	12x12	UP TO 200	ALL PATTERNS
		8"Ø	24x24	UP TO 200	ALL PATTERNS
		10"Ø	24x24	205-350	ALL PATTERNS
		12"Ø	24x24	335-500	ALL PATTERNS
		15"Ø	24x24	505-675	ALL PATTERNS
ANEMOSTAT CM-1P SUPPLY	B	8"Ø	18"	UP TO 200	ALL PATTERNS
		10"Ø	24"	205-350	ALL PATTERNS
		12"Ø	24"	335-500	ALL PATTERNS
		15"Ø	34"	505-675	ALL PATTERNS
ANEMOSTAT PJBF-150 (SUPPLY & RETURN)	C	8" OVAL	SINGLE, 1-1/2" SLOT DIFFUSER	50/LF	ALL PATTERNS
ANEMOSTAT AC30-45 (LAY-IN) OR 30-45 (SURFACE MTD.) RETURN	D	-	24x24	UP TO 1000	RETURN
		-	24x12	UP TO 400	RETURN
		-	12x12	UP TO 200	RETURN
		-	60x20	UP TO 2,500	RETURN
ANEMOSTAT 20L SUPPLY	E	-	48x16	UP TO 3,000	SUPPLY

NOTES:

1) MECHANICAL CONTRACTOR TO COORDINATE BORDER TYPES WITH CLG. CONSTRUCTION.

2) FURNISH PLASTIC FRAMES FOR SHEETROCK AREAS, ANEMOSTAT MODEL TBF.

3) DIFFUSERS LOCATED IN GYP. BOARD SHALL BE FURNISHED WITH CABLE OPERATED DAMPERS (COD) AS MANUFACTURED BY YOUNG REGULATOR CO. MODEL NUMBER: 800AW.

4) ALL BALANCING TO BE PERFORMED THRU BRANCH DAMPERS.

5) DIRECTIONAL BLANK OFFS TO BE FIELD INSTALLED BY HVAC CONTRACTOR AS INDICATED DWGS.

6) RETURN GRILLES BASED ON ANEMOSTAT MODEL 30 OR AC. NON DUCTED RETURN GRILLES TO HAVE LIGHT SHIELDS.

7) MAXIMUM NC LEVELS ARE <25 FOR ALL DIFFUSERS AND RETURNS

8) RETURN AIR LINEAR DIFFUSERS (PJBF-150) SHALL BE INSTALLED WITHOUT PATTERN CONTROLLERS TO MAXIMIZE AIRFLOW.

9) LINEAR SLOT DIFFUSER PLENUMS SHALL BE 8" HIGH.

10) WHERE INDICATED ON PLANS, SUPPLY & RETURN LINEAR DIFFUSER BLANK-OFF PLATES SHALL BE INSTALLED.

11) M.C. TO ADJUST LINEAR DIFFUSER PATTERN CONTROLLERS AS INDICATED ON PLAN.

MODEL PG:

INSTALL WHERE SHOWN ON THE PLANS AND OUTLET SCHEDULE ANEMOSTAT MODEL PG PARAGON PLAQUE CEILING DIFFUSERS. THE DIFFUSER SIZES SHALL BE NOMINAL 24" x 24" OR 12" x 12", AS SCHEDULED, WITH MINIMUM 18" OR 9" SQUARE APPEARANCE PANELS. THE DIFFUSERS SHALL BE CONSTRUCTED OF STEEL, AND SHALL BE DESIGNED TO INTEGRATE WITH THE SPECIFIED CEILING SYSTEM TYPE. THE DIFFUSER SHALL CONSIST OF A BACK PAN AND A REMOVABLE, HEAVY GAUGE APPEARANCE PANEL ATTACHED TO THE BACK PAN VIA (4) POSITIVE LOCKING POSTS. THE APPEARANCE PANEL SHALL HAVE AERODYNAMIC, RIGID, HEMMED EDGES AROUND THE PERIMETER AND SHALL BE A SINGLE PIECE CONSTRUCTION. THE PANEL SHALL BE FLAT, SMOOTH, AND SHALL BE FREE OF ANY WELDING OR FORMING BLEMISHES. THE HORIZONTAL AIR DISCHARGE PATTERN SHALL BE 360° TYPE BLANK-OFF BAFFLES SHALL BE PROVIDED TO OBTAIN 1,2,OR 3 WAY BLOW PATTERNS AS SCHEDULED. THE SIZE AND ELEVATION OF THE APPEARANCE PANEL SHALL BE AS SCHEDULED FOR ANEMOSTAT'S TYPE A OR C MODELS. PROVIDE VOLUME CONTROL, MODEL VD BUTTERFLY TYPE DAMPERS AS SCHEDULED. DAMPERS SHALL BE ADJUSTABLE FROM THE FACE. DIFFUSER FINISH SHALL BE (ARCTIC WHITE)(SATIN POLISH FINISH-STAINLESS ONLY)(COLOR AS SELECTED BY THE ARCHITECT). PROVIDE PUBLISHED PERFORMANCE DATA DETERMINED IN ACCORDANCE WITH THE LATEST ANSI/ASHRAE STANDARDS FOR THROW, PRESSURE, AND SOUND.

MODEL CM-1P:

CONTRACTOR SHALL FURNISH AND INSTALL ANEMOSTAT CM1-P AIR DIFFUSERS AS MANUFACTURED BY ANEMOSTAT PRODUCTS AT EACH POINT INDICATED ON THE PLANS. THESE AIR DIFFUSERS ARE TO CONSIST OF A ROUND OUTER CONE WITH A ROUND HEAVY GAUGE PLAQUE FACE. THE PLAQUE FACE SHALL BE FLAT, SMOOTH, AND FREE OF ANY WELDING OR FORMING BLEMISHES. THE PLAQUE ASSEMBLY SHALL BE REMOVED FROM THE OUTER CONE BY A TWIST OF THE ASSEMBLY WITHOUT THE USE OF ANY TOOLS. A SPRING LOCK SHALL PREVENT UNINTENTIONAL REMOVAL OF THE PLAQUE ASSEMBLY. THE AIR DIFFUSER SHALL BE STEEL, PAINTED ARCTIC WHITE. PROVIDE PUBLISHED PERFORMANCE DATA DETERMINED IN ACCORDANCE WITH THE LATEST ANSI/ASHRAE STANDARDS FOR THROW, PRESSURE AND SOUND.

MODEL PJBF-150:

ANEMOSTAT FREE FLO™ AND PRO JET™ LINEAR/CURVED SLOT DIFFUSERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO ARCHITECTURAL/MECHANICAL DRAWINGS. THE MANUFACTURER SHALL PROVIDE SUBMITTAL DRAWINGS UTILIZING EXACT DIMENSIONS SPECIFIED BY ARCHITECTURAL DRAWINGS. THE LINEAR SLOT DIFFUSERS SHALL CONSIST OF HEAVY WALL EXTRUDED ALUMINUM OUTER FRAMES, ADJUSTABLE AND REMOVABLE AIR PATTERN CONTROLLERS, AND INVERTED T-MEMBERS. STEEL OUTER FRAMES, INVERTED T-MEMBERS, AND PATTERN CONTROLLERS WILL NOT BE ACCEPTED. NON-REMOVABLE INNER AIR PATTERN CONTROLLERS ALSO WILL NOT BE ACCEPTED. THE DIFFUSERS SHALL BE SPECIFICALLY DESIGNED TO INTEGRATE INTO THE WALL SYSTEM IN WHICH THEY ARE INSTALLED. WHERE CONTINUOUS RUNS ARE REQUIRED, THE SLOT DIFFUSERS SHALL INCLUDE KEYWAYS TO ACCEPT CONCEALED COATED STEEL ALIGNMENT STRIPS BETWEEN SECTIONS TO CORRECT FOR MISALIGNMENT. ALIGNMENT STRIPS ARE TO BE FURNISHED BY THE DIFFUSER MANUFACTURER. WHERE APPLICABLE, CONCEALED MOUNTING BRACKETS SHALL BE PROVIDED FOR ATTACHING THE DIFFUSERS TO THE AIR PLENUMS. THE ATTACHING SCREWS AND MOUNTING BRACKETS SHALL NOT BE VISIBLE AFTER INSTALLATION OF THE PATTERN/VOLUME CONTROLLERS. MOUNTING BRACKETS SHALL BE MINIMUM 18 GA.COATED STEEL WITH STIFFENERS AND SHALL CONSIST OF A SINGLE PIECE SPANNING ACROSS THE ENTIRE WIDTH OF THE DIFFUSER. FOR EXPOSED FLANGE APPLICATIONS, THE FACE SHALL BE PAINTED FACTORY WHITE. FOR CONCEALED FLANGE APPLICATIONS, THE FACE SHALL BE PAINTED BLACK. ARCHITECT SPECIFIED COLORS WILL ALSO BE AVAILABLE. INTERNAL PATTERN CONTROLLERS SHALL BE BLACK. DIFFUSERS DESIGNATED AS FREE FLO™ SHALL UTILIZE AIR PATTERN CONTROLLERS THAT ARE FULLY ADJUSTABLE. ADJUSTMENT SHALL ALLOW FOR AIR VOLUME BALANCING AND DIRECTIONAL CONTROL FROM HORIZONTAL TO VERTICAL. THE DIFFUSERS SHALL BE MOUNTED IN THE CEILING OR SIDEWALL, AND SHALL BE ADJUSTED FOR BOTH THE PATTERN AND AIRFLOW VOLUME AS SHOWN ON THE PLANS. DIFFUSERS DESIGNATED AS PRO JET™ SHALL UTILIZE A VARIABLE NOZZLE THAT IS FULLY ADJUSTABLE. ADJUSTMENT SHALL CHANGE FLOW AREA FOR AIR VOLUME BALANCING AND RESULTANT THROW DISTANCE. THE NOZZLE SHALL BE CAPABLE OF SHUTOFF, IF REQUIRED. THE DIFFUSERS SHALL BE MOUNTED IN THE CEILING OR SIDEWALL, AND SHALL BE ADJUSTED FOR AIRFLOW VOLUME AS SHOWN ON THE PLANS. ALL DIFFUSERS SHALL BE CERTIFIED AS TO PERFORMANCE DATA AS TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-91. DIFFUSER MANUFACTURER SHALL PROVIDE BLANK-OFF PLATES, AIR PLENUMS, LIGHT SHIELDS, MITERED CORNERS, AND ANY OTHER ACCESSORIES AS INDICATED IN THE SCHEDULE, AS SHOWN ON THE PLANS.

MODEL AC30:

LAY-IN TYPE CEILING RETURN / EXHAUST GRILLES & REGISTERS SHALL BE ANEMOSTAT MODEL AC30 (3/4" BLADE SPACING) FIXED BLADE, NON-ADJUSTABLE GRILLES, MANUFACTURED FROM (STEEL) AS SCHEDULED. PROVIDE SIZES AND MOUNTING TYPES AS SCHEDULED TO INTERFACE WITH THE SUSPENSION GRID SYSTEM AS SHOWN. GRILLES SHALL HAVE A NARROW BORDER DESIGN TO ENHANCE APPEARANCE AND MAXIMIZE CORE AREA. FULL-BORDERED SURFACE MOUNTED GRILLES SIZED FOR LAY-IN APPLICATIONS ARE NOT APPROVED. BLADES SHALL BE ON 3/4" SPACING, AND SHALL RUN PARALLEL TO THE LONG DIMENSION. BLADES SHALL BE POSITIONED AT 45° DEFLECTION ANGLES, AND HELD RIGIDLY FIXED IN PLACE BY REAR MULLIONS WELDED TO THE GRILLE FRAME. CORNERS SHALL BE WELDED OR STAKED FOR NEAT, UNIFORM MITERED CORNERS. WHERE SCHEDULED, INCLUDE STEEL, OPPOSED BLADE VOLUME CONTROL DAMPERS. PROVIDE BLACK, STEEL LIGHT SHIELDS FOR CEILING PLENUM RETURN USE AS SHOWN. PROVIDE A BAKED-ON, ARCTIC WHITE FINISH, OR CUSTOM COLOR AS SELECTED BY THE ARCHITECT. (OPTIONAL) PROVIDE A SATIN POLISH FINISH ON EXPOSED SURFACES FOR ALL STAINLESS STEEL UNITS.

MODEL 30-45:

RETURN / EXHAUST GRILLES & REGISTERS SHALL BE ANEMOSTAT MODEL 30 (3/4" BLADE SPACING) OR MODEL 35 (1/2" BLADE SPACING) FIXED BLADE, NON-ADJUSTABLE GRILLES, MANUFACTURED FROM (STEEL) AS SCHEDULED. PROVIDE SIZES AND MOUNTING TYPES AS SCHEDULED. FOR SURFACE MOUNTING APPLICATIONS, COUNTERSUNK MOUNTING HOLES SHALL BE PROVIDED IN THE BORDER, WITH OVAL HEAD SCREWS ALSO PROVIDED BY THE GRILLE MANUFACTURER. BLADES SHALL BE ON 3/4" SPACING, AND SHALL RUN HORIZONTAL OR VERTICAL (SHORT OR LONG DIMENSION) AS SHOWN. BLADES SHALL BE POSITIONED AT 45° DEFLECTION ANGLES, AND HELD RIGIDLY FIXED IN PLACE BY REAR MULLIONS WELDED TO THE GRILLE FRAME. CORNERS SHALL BE WELDED OR STAKED FOR NEAT, UNIFORM MITERED CORNERS. WHERE SCHEDULED, INCLUDE STEEL, OPPOSED BLADE VOLUME CONTROL DAMPERS. PROVIDE A BAKED-ON, ARCTIC WHITE FINISH, OR CUSTOM COLOR AS SELECTED BY THE ARCHITECT. (OPTIONAL) PROVIDE A SATIN POLISH FINISH ON EXPOSED SURFACES FOR ALL STAINLESS STEEL UNITS.

MODEL 20L:

3/4" BLADE SPACING, DOUBLE DEFLECTION SUPPLY GRILLES AND REGISTERS SHALL BE ANEMOSTAT MODEL 20 (DOUBLE DEFLECTION), MANUFACTURED FROM (STEEL) WITH 3/4" BLADE SPACING AND AS SCHEDULED. THE GRILLES/REGISTERS SHALL CONSIST OF AN OUTER BORDER OR FRAME, WITH FACE DIRECTIONAL BLADES PARALLEL TO THE (LONG, SHORT) DIMENSION AS DETAILED. BLADES SHALL BE INDIVIDUALLY ADJUSTABLE AND DESIGNED TO MINIMIZE NOISE AND PRESSURE LOSS, AND SHALL CONSIST OF EITHER AN EXTRUDED ALUMINUM OR ROLL FORMED, CLOSED PROFILE. BLADES SHALL ROTATE SMOOTHLY WITHOUT BENDING AND INCLUDE A FRICTION DESIGN CONSISTING OF TENSION WIRE TO HOLD BLADE POSITION, AND PREVENT RATTLING. FRAME MOUNTING HOLES SHALL BE COUNTERSUNK FOR OVAL HEAD SCREWS, PROVIDED BY THE GRILLE MANUFACTURER. WHERE SCHEDULED AND AS SHOWN, PROVIDE OPTIONAL (STEEL) FACE OPERATED OPPOSED BLADE VOLUME CONTROL DAMPERS. INCLUDE OPTIONAL GRILLE FRAME GASKETING OR MODEL RC REMOVABLE CORE AUXILIARY FRAMES IF SCHEDULED. FINISH SHALL BE BAKED-ON ANEMOSTAT ARCTIC WHITE OR CUSTOM COLOR AS SPECIFIED BY THE ARCHITECT.

EXHAUST FAN SCHEDULES (EF-2A - EF-2C & EF-1A - EF-1E) (BASIS: GREENHECK)

EXHAUST FAN SCHEDULE — GREENHECK AS STD.

TAG	SERVICE	MODEL	CFM	ESP	FAN RPM	MOTOR (HP)	INLET SONES	VOLT/PH	*WEIGHT (LBS)	OPTIONS AND ACCESSORIES	NOTES
EF-2A	SCIENCE RESEARCH LAB - 113	G-120-VG	1500	0.75	1566	1/2	13.8	115/1	103.0	1,3,4,5,6,7,8	MINIMUM AIRFLOW 475CFM
EF-2B	FAB LAB/PHOTOGRAPHY - 120	G-120-VG	1500	0.75	1566	1/2	13.8	115/1	103.0	1,3,4,5,6,7,8	MINIMUM AIRFLOW 520CFM
EF-2C	ROBOTICS/ENGINEERING - 121	G-120-VG	1500	0.75	1566	1/2	13.8	115/1	103.0	1,3,4,5,6,7,8	MINIMUM AIRFLOW 582CFM
EF-1A	TECH - 164	G-120-VG	1500	0.75	1566	1/2	13.8	115/1	103.0	1,3,4,5,6,7,8	MINIMUM AIRFLOW 453CFM
EF-1B	CLASSROOM - 117	G-130-VG	2000	0.75	1673	3/4	15.0	115/1	126.0	2,3,4,5,6,7,8	MINIMUM AIRFLOW 554CFM
EF-1C	WRITING LAB - 116	G-099-VG	750	0.75	1537	1/4	10.0	115/1	95.0	1,3,4,5,6,7,8	MINIMUM AIRFLOW 234CFM
EF-1D	MATH LAB - 115	G-099-VG	750	0.75	1537	1/4	10.0	115/1	95.0	1,3,4,5,6,7,8	MINIMUM AIRFLOW 199CFM
EF-1E	FLEX SPACE - 112	G-100-VG	1000	0.75	1619	1/4	8.9	115/1	95.0	1,3,4,5,6,7,8	MINIMUM AIRFLOW 318CFM

Options / Accessories:
1. 12" High roof curb
2. Aluminum roof curb adapter, contractor to field verify existing curb dimensions prior to fabrication
3. UL-705 Listing
4. Disconnect Switch
5. Varigreen motor w/soft start and thermal overload protection
6. HOA (Hand/Off/Auto) controller w/LCD display, multiple inputs for 2-speed control and damper relay contacts
7. Roof curb extension (aluminum construction) w/damper tray and access panel
8. Motorized leakage class 1 damper w/115v actuator and end switches

General Notes:
*Weights include all accessories and curb/adapter
All fans shall be capable of running at the minimum airflow shown without entering the fan's surge region or below the manufacturer's minimum reccomended RPM

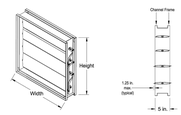
COMBUSTION AIR DAMPER SCHEDULES (BASIS: GREENHECK)

VCD-42 Low Leakage Extruded Airfoil Blade Volume Control Damper

APPLICATION & DESIGN
The VCD-42 is a low leakage damper designed to meet the highest standards established for commercial control dampers. Model VCD-42 is intended for applications in medium to high pressure and velocity systems. Smooth profile extruded aluminum airfoil blades insure the lowest resistance to airflow in HVAC systems.

DAMPER RATINGS
Pressure: Up to 6 in. wg - pressure differential
Velocity: Up to 6,000 ft/min
Leakage: 8 CFM @ 4 in. wg or
3 CFM @ 1 in. wg
Temperature: Up to 250 F

PRODUCT DETAILS
Frame Type: Channel
Frame Thickness: 16 ga
Material: Galvanized
Blade Type: Airfoil
Blade Action: Opposed
Blade Seal Material: TPE
Axle/Linkage Material: Steel
Axle Bearings: Synthetic
Jamb Seal Material: Stainless Steel
Damper Temp. Rating: 180 F
Jackshafting: No Preference
Actuator Sizing: Default SqFt
Multi-Section Fastening: Standard
Sizing: Nominal



• This drawing shows a general damper configuration and is not intended to depict the exact configuration of any specific damper.
• Width and height furnished approximately ±.250 in. undersize.
• Factory supplied actuators are sized for 1,500 fpm and a fully-closed differential pressure of 2 in. wc. Contact factory for actuator sizing on applications exceeding those levels.
• Installation instructions available at www.greenheck.com.

ACTUATOR INFORMATION
Actuator Type: 24 VAC
Actuator Mounting: Internal
Actuator Location: Left Side
Operating Mode: TwoPosition
Fail Position: Spring Return
Actuator Action: Closed
NEMA Enclosure: Lead Cost
Auxiliary Switches: Yes
Spring Return Time: Standard

CODES APPROVED
IECC (International Energy Conservation Code) compliant

OPTIONS & ACCESSORIES
Required
Union Label:

SUMMARY

ID #	TAG	QTY	Width	Height	CONFIGURATION		
1-1		1	51.000 in.	69.000 in.	Drive Arrangement: Drive-CC-11-1FS_-C	Actuator Mfr: Honeywell	Actuator Model: MS8120F1200	Actuator Qty: 1
					Act. Orientation: Perp Down			
1-2		2	38.000 in.	28.000 in.	Drive Arrangement: Drive-CC-11-1FS_-C	Actuator Mfr: Honeywell	Actuator Model: MS8110A1206	Actuator Qty: 1
					Act. Orientation: Perp Down			

MS4120F, MS4620FS; MS8120FS; S2024-F; S20230-F

Timing (At Rated Torque and Voltage):
Drive Open: 15 seconds typical.
Spring Close: 15 seconds typical.

Auxiliary Switches:
Ratings (maximum load): 250 Vac, 5A resistive,
Dry Contact
Settings (fixed): 7° nominal stroke, 85° nominal stroke.

Torque Rating (at rated voltage):
Typical Holding (minimum at 350°F): 175 lb-in. (20 N•m).
Spring Return (minimum at 350°F): 175 lb-in. (20 N•m).
Stall Maximum (fully open at 75°F): 425 lb-in. (48.0 N•m).
350°F Minimum Driving: 175 lb-in. (20 N•m).

Design Life (at Rated Voltage):
30,000 full stroke cycles.

Minimum Damper Shaft Length:
1 in. (25 mm); 3-1/4 (83 mm) recommended.

Cycling Requirements:
Prolonged holding-period (1 year) testing of these actuators has been performed with no spring return failures. The actuator and the internal spring are designed to require no special cycling during long-term holding. Honeywell recommends following all local, state and national codes for periodic testing of the entire smoke control system. Refer to National Fire Protection Association (NFPA) National Fire Codes®: NFPA90A, NFPA92A and NFPA92B for your application.
NFPA recommends periodic examination of each fire/smoke damper (semi-annually or annually) to ensure proper performance.

Mounting:
Self-centering shaft adapter,
Round Damper Shafts: 0.5 to 1.06 in.
Square Damper Shafts: 1/2 to 3/4 in.
Actuator can be mounted with shaft in any position.

IMPORTANT
Honeywell does not recommend using linkages with these actuators because side-loading of the output hub reduces actuator life.

Noise Rating (Typical):
Driving or Spring Return: 70 dBA.
Holding: 20 dBA (no audible noise).

Vibration:
Not suitable for high vibration applications (Example installation environment: Truck Trailers or Railroad Cars)
Acceptable Vibration Levels 0.6g at 30 to 300

Temperature Ratings:

IMPORTANT
The actuators are designed to meet UL555S standards at 350°F (176°C), if applicable. These actuators must be tested with the damper to achieve this rating.

Ambient: -40°F to 130°F (-40°C to 55°C).
Shipping and Storage: -40°F to 140°F (-40°C to 60°C).

Humidity Ratings:
5% to 95% RH noncondensing.

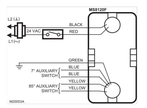


Fig. 2. Typical 24 Vac wiring (MS Series).

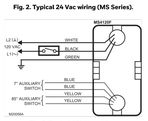


Fig. 3. Typical 120 Vac wiring.

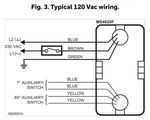


Fig. 4. Typical 230 Vac wiring (MS Series).

Environmental Protection Ratings:
NEMA2 and IP54 when mounted on a horizontal shaft and the base of the actuator below the shaft.

Accessories:
205649 Mounting Bracket (not supplied with actuator).

Approvals:

	MS4120F	MS4620F, MS8120F	S20230-F, S2024-F, MS4620S, MS8120S	S2024-F, MS8120S
UL/cUL (optional)	X	X		
UL60730 Plenum Rating, File No. E4436; Guide No. XAPX (optional)*	X	X		
CE		X	X	
C-TICK		X	X	X

* Plenum applications require that conductors be enclosed in conduit (see Wiring section for conduit details).

Controller Type:
MS4120F: Line voltage (120 Vac), 2-position, spst (Series 40).
MS4620F,S; S20230-F: Line voltage (230 Vac), 2-position, spst (Series 40).
MS8120F,S; S2024-F: Low voltage (24 Vac), 2-position, spst (Series 80).

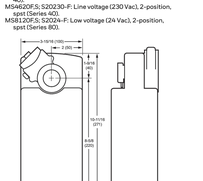


Fig. 1. Dimensions in in. (mm).

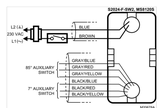


Fig. 5. Typical 24 Vac wiring (S20 Series).

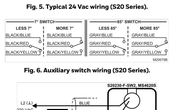


Fig. 6. Auxiliary switch wiring (S20 Series).

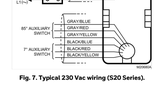


Fig. 7. Typical 230 Vac wiring (S20 Series).

Honeywell

MS4120F, MS4620F,S; MS8120F,S; S2024-F; S20230-F

FAST-ACTING, TWO-POSITION ACTUATORS FOR FIRE/SMOKE CONTROL APPLICATIONS

SPECIFICATION DATA



The MS4120F; MS4620F,S; MS8120F,S; S2024-F; and S20230-F Fast-Acting, Two-Position Actuators are spring return direct coupled actuators (DCA) for on/off damper control. The actuator accepts an on/off (2-position) signal from a line voltage (spst) controller. Reversible mounting allows actuator to be used for either clockwise (cw) or counterclockwise (ccw) spring rotation.

Designed to operate reliably in smoke control systems meeting Underwriter's Laboratories Inc. UL555S ratings up to 350°F, if applicable.

FEATURES

- **Reversible mounting facilitates use in either clockwise (cw) or counterclockwise (ccw) spring rotation.**
- **No special cycling required during long-term holding.**
- **Integral spring return ensures level of return torque.**
- **Stainless steel internal spring.**
- **Fifteen-second spring return timing.**
- **Direct coupled to damper shaft.**
- **Patent pending design eliminates need for limit switches to reduce power consumption.**
- **Models available for 24, 120, and 230 Vac.**
- **Ninety-five degree angle of rotation.**
- **Actuator holds rated torque at reduced power level.**
- **Die-cast aluminum housing.**
- **Universal clamp simplifies mounting to damper.**
- **Self-centering shaft adapter (SCSA), patent pending.**
- **Designed to operate reliably in smoke control systems requiring Underwriter's Laboratories Inc. UL555S ratings up to 350°F.**
- **Non-UL marked versions available.**

MS4120F, MS4620F, MS8120F

- **High temperature Teflon® lead wires.**
- **Models available with integral high temperature (350°F) SPST position-indicating switches (7", 85°).**

S2024-F, S20230-F, MS4620S, MS8120S

- **Double-insulation rating.**
- **High-temperature, halogen-free, silicone-free lead wires.**
- **Models available with integral SPDT position-indicating switches (7", 85°).**

SPECIFICATIONS

Table 1. Models

Model	Voltage In Vac	Internal Auxiliary Switches
MS4120F1006	120	None
MS4120F1204	120	2 SPST*
MS4620F1005	230	None
MS4620F1203	230	2 SPST*
MS8120F1002	24	None
MS8120F1200	24	2 SPST*
S2024-F (MS8120S1006)	24	None
S20230-F (MS4620S1009)	230	
S2024-F-SW2 (MS8120S1204)	24	2 SPDT*
S20230-F-SW2 (MS4620S1207)	230	

* Internal switches are designed to pass UL555S requirements (at 350°F) on APPI.

Dimensions:
See Fig. 1.

Device Weight:
7 lb (3.2 kg).

Stroke:
90° ± 3°, mechanically limited.

Electrical Ratings:
Power Input:
MS4120F: 120 Vac ±10%, 60 Hz.
MS4620F,S; S20230-F: 230 Vac ±10%, 50/60 Hz.
MS8120F,S; S2024-F: 24 Vac +20%, -10%, 50/60 Hz (Class 2).
Power Consumption:
MS4120F: Driving: 0.35A, 35W. Holding: 0.15A, 10W.
MS4620F,S; S20230-F: Driving: 0.20A, 35W. Holding: 0.14A, 10W.
MS8120F,S; S2024-F: Driving: 45 VA. Holding: 10 VA.

Electrical Connections:
Lead Wires:
MS4120F, MS4620F, MS8120F: 1m Teflon wire.
MS4620S, MS8120S, S2024-F, S20230-F: 1m halogen-free wire.
Two integral 3/8 in. flexible conduit connections.

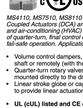
63-2592-06

Honeywell

MSXX10 Series

88 LB-IN (10 NM) SPRING RETURN DIRECT COUPLED ACTUATORS

SPECIFICATION DATA



MS4110, MS7510, MS8110 S10 Series Spring Return Direct Coupled Actuators (DCA) are used within heating, ventilating, and air-conditioning (HVAC) systems. They can drive a variety of quarter-turn, final control elements requiring spring return fail-safe operation. Applications include:

- Volume control dampers, mounted directly to the drive shaft or remotely (with the use of accessory hardware).
- Quarter-turn ball valves, such as ball or butterfly valves mounted directly to the drive shaft.
- Linear stroke globe or cage valves mounted with linkages to provide linear actuation.

- **UL, cUL listed CE compliant.**
- **All Models are plenum-rated per UL873.**

SPECIFICATIONS

Torque Ratings:
❑ Typical Holding, Driving, Spring Return: 88 lb-in. (10 Nm).
❑ Stall Maximum (fully open at 75°F): 200 lb-in. (22.6 Nm).
Electrical Ratings:
❑ See Table 3.
Electrical Connections:
❑ Field wiring 14 to 22 AWG (2.0 to 0.344 mm sq) to screw terminals, located under the removable access cover.
Stroke:
❑ 95° ±3°, mechanically limited.
❑ Controller Type:
❑ See Models.
❑ Modulating (Series 70) or Floating (Series 60); controlled by selector switch.
❑ Input Impedance: 85K ohms minimum.
❑ Feedback Signal: 0 or 2-10 Vdc;
Driving current is 3 mA minimum.
Timing (At Rated Torque and Voltage):
❑ Drive Open (typical):
❑ Floating, Modulating Models: 90 seconds.
❑ Two-position models: 45 seconds ±5 seconds.
❑ Spring Close: 20 seconds typical.
Temperature Ratings:
❑ Ambient: -40°F to 140°F (-40°C to 60°C).
❑ Shipping and Storage: -40°F to 158°F (-40°C to 70°C).
Humidity Ratings:
❑ 5% to 95% RH noncondensing.
Design Life (at Rated Voltage):
❑ Two-position models: 50,000 full stroke cycles; 50,000 full stroke spring returns.
❑ Floating and Modulating models: 60,000 full stroke cycles; 1,500,000 repositions; 60,000 full stroke spring returns.
End Switches (Two SPDT):
❑ Dry Contact
❑ Settings (fixed): 7° nominal stroke, 85° nominal stroke.
❑ Ratings (maximum load): 250 Vac, 5A resistive.
Dimensions:
❑ See Fig. 1.
Device Weight:
❑ 6 lb (2.7 kg)
Mounting:
❑ Self-centering shaft adapter (shaft coupling).
❑ Round Damper Shafts: 0.375 to 1.06 in. (10 to 27 mm).
❑ Square Damper Shafts: 1/2 to 3/4 in. (13 to 19 mm).

FEATURES

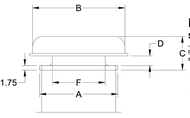
- **Brushless DC submotor with electronic stall protection for floating/modulating models.**
- **Brush DC submotor with electronic stall protection for 2-position models.**
- **Self-centering shaft adapter (shaft coupling) for wide range of shaft sizes.**
- **Models available for use with two-position, single pole single throw (spst), line- (Series 40) or low- (Series 80) voltage controls.**
- **Models available for use with floating or switched single-pole, double-throw (spdt) (Series 60) controls.**
- **Models available for use with proportional current or voltage (Series 70) controls.**
- **Models available with combined floating/modulating control in a single device.**
- **Models available with adjustable zero and span.**
- **Models available with line-voltage internal end switches.**
- **Models available with 3-foot, 18 AWG color-coded cable.**
- **Access cover to facilitate connectivity.**
- **Metal housing with built-in mechanical end limits.**
- **Spring return direction field-selectable.**
- **Shaft position indicator and scale.**
- **Manual winding capability with locking function.**

❑ Actuator can be mounted with shaft in any position.
Minimum Damper Shaft Length:
❑ 1 in. (25 mm); 3 in. (76 mm) recommended.
Noise Rating at 1m (Maximum):
❑ Holding: 20 dBA (no audible noise).
❑ Two-position models:
❑ Driving: 50 dBA.
❑ Spring Return: 55 dBA.
❑ Floating and Modulating models:
❑ Driving: 40 dBA.
❑ Spring Return: 55 dBA.
Vibration:
❑ Not suitable for high vibration applications (Example installation environment: Truck Trailers or Railroad Cars)
❑ Acceptable Vibration Levels 0.6g at 30 to 300 Hz.
Environmental Protection Ratings:
❑ NEMA2 (US Models) or IP54 (European Models) when mounted on horizontal shaft with access cover below the shaft.
Approvals:
❑ UL/cUL.
❑ UL873 Plenum Rating. File No. E4436; Guide No. XAPX.
❑ CE.
❑ C-TICK.



63-1296-03

GRAVITY VENT SCHEDULES GV-UV2A - GV-UV2D & GV-FCU2A & GV-FCU-2B (BASIS: GREENHECK)



Model: GRSR

Standard Construction Features:
- Aluminum housing. - Aluminum curb cap with prepunched mounting holes. - Recommended roof opening dimension is at least 2.5 in. larger than the damper size.

ADD-ALTERNATE #1 NOTE:

1. TWO (2) OF FOUR (4) GRSR-12 GRAVITY VENTILATORS (AND ASSOCIATED ACCESSORIES) LISTED BELOW ARE PART OF ADD-ALTERNATE #1.

Dimensions

| ID# | Tag | Qty | Model | Model Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) |

NEW COMPACT MAKE-UP AIR UNIT SCHEDULE (BASIS OF DESIGN: NEPTRONIC)

400 Boulevard Lebeau
Montreal, QC, Canada, H4N 1R6
Tel 1-800-361-2308 or 1-514-333-1433, Fax 1-514-333-3163
Visit us at http://www.Neptronic.com

Compact Make-up Air Unit(s) Schedule

Unit(s) selected:1/1

Date	21 Sep, 2022	Rev.1
Project Number	CMU22264003	Canada
Project Name	Briarcliff Manor HS/MS - BBS-RP	
Reference Number		
Customer		
Engineer		
Submitted By	Andy Siegelson	
Company	Air Distribution Enterprises, Inc. NY	

Compact Make-up Air Unit(s)				Air Flow Parameters		Electrical Data									
							Heater		Motor						
Item	Qty	Model	Collar Dia. (in)	Max. CFM	S.P. (w.c.)	VAC/Ph	KW	I(A)	I(A)	HP	MCA	MOP	Fan Type	Power Switch	Accessories and Sensors
1	Tag(s): CMU-236														
	1	CMU06G030DD	6	185	0.5	208/3	3	8.33	0.46	0.08	10.99	15	Centrifugal ECM	Disconnect	STC8-11, TDF00-100

Product Description

FRAME MATERIAL: The frame of the compact make up air unit is made of galvanized steel of suitable gauge according to the voltage and kW of the unit.

CONTROL:
- Monitor alarms for faulty or disconnected temperature sensors, tripped thermal cutouts or other fault conditions
- Recommended control with a duct temperature sensor to capitalize on the full range of ECM modulation
- Set fan speed and temperature setpoints on the main board or from the optional thermostat
- Real time display of temperature (from room or duct) and setpoint
- IAQ control based on CO_2 level and optional synchronization to start exhaust fans
- Static pressure PID algorithms, control of fresh air and return air
- Multi-exhaust fan synchronizer control
- Optional dry mode control to maintain relative humidity in the zone
- Optional control of modulating or on/off dampers
- Optional outside air and supply air duct sensor algorithms
- Optional board and SSRI temperature sensors for added protection
- Optional room temperature, relative humidity, CO_2 and occupancy sensor
- Optional BMS integration via BACnet MS/TP or Modbus
- 7-day programmable scheduler accessible using BACnet communication, with interlock based on occupancy status

CENTRIFUGAL FAN: The ECM centrifugal fan is suitable for applications with higher restriction on the filter, duct or zoning requirements, which result in a higher pressure drop.

HEATING ELEMENTS: The heating elements of the unit are made of high-grade nickel chromium wire supported by ceramic bushings.

THERMAL PROTECTION: The thermal cutouts stops the CMU if a high-temperature condition is detected. Neptronic patented EAS algorithm control is incorporated in the design.

ELEMENT MODULATION CONTROL: Uses Thyristors to control the heater output to maintain the desired temperature setpoint. Vernier control may also be used based on the kW and voltage of the unit.

Briarcliff Manor HS/MS - BBS-RP

Dimensions:

Tag	Model	Dimensions			Collar Size	Door Length
		A	B	C	D	E
CMU-236	CMU06G030DD	34.20	9.90	15.30	6.00	25.90

Controls & Accessories

Item	Model	Description
	TDF	Wall mounted universal digital room sensor. Built-in temperature sensor with optional humidity, CO_2 and occupancy sensors. Selectable Fahrenheit or Celsius scale. BACnet service port via on-board mini USB connector.
	STC8-11	Duct mounted temperature sensor, 10kΩ, with high accuracy and fast thermal response.
BACnet MS/TP	BACnet MS/TP	This product provides a BACnet network interface between BACnet client devices and Neptronic devices. This product uses the BACnet Master Slave/Token Passing (MS/TP) protocol at the BACnet MAC layer.
Modbus	Modbus RTU	This product uses Modbus communication protocol over serial line in the RTU mode and provides a Modbus network interface between client devices and Neptronic devices. This product supports Baud Rates of 9600, 19200, 38400, 57600; and supports RTU Slave, 8 bits with configurable parity and stop bits via menu.

MAKEUP AIR UNITS SCHEDULE

UNIT TAG	MANUFACTURER	MODEL	DESIGN AIRFLOW		MAXIMUM AIRFLOW		ESP (in wg)	FAN TYPE	ELECTRICAL DATA					CONTROL	REMARKS
			Airflow (CFM)	ΔT (°F)	Airflow (CFM)	ΔT (°F)			VOLT/PH	KW	FLA (A)	MCA (A)	MOP (A)		
CMU-236	NEPTRONIC	CMU06G030DD	150	63.2	185	51.2	0.50	CENTRIFUGAL - ECM	208/3	3.0	8.79	10.99	15	PCB, TDF, STC-8	SEE NOTES BELOW

NOTES:
1. MODULATING SCR HEATER OUTPUT W/CONSTANT DISCHARGE TEMPERATURE CONTROL
2. BUILT-IN BACnet COMMUNICATION INTERFACE
3. AUTOMATIC AND MANUAL THERMAL CUTOUTS
4. DISCONNECT SWITCH

NEW DESTRATIFICATION FAN SCHEDULE (DF-1 THRU DF-4) (BASIS OF DESIGN: AIRIUS)









DISTRIBUTED COMFORT

Use the Q Series in high bay, sound-sensitive installations to equalize temperature and humidity in buildings that suffer from stratification. Reducing stratification increases thermal comfort during summer and winter, reduces ceiling temperature to extend the life of lighting and ceiling mounted equipment, and saves energy.

WHERE WE HELP

- Atrium, vestibules and lobbies with overhead air supply
- Spaces 15 ft+ or higher
- Sound sensitive areas
- Areas where other fans will not physically fit

Features

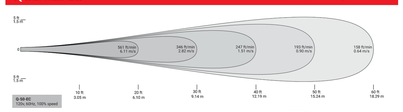
- Basic permanent split capacitor or premium EC motors
- Easy installation in new construction or retrofits
- Unique motor mount to reduce noise and increase flow
- 3-year parts and workmanship warranty
- 6 ft. steel leash and anchor point for safety
- ETL Listed in U.S. and Canada
- 5VA Flame resistance rating
- Made in the U.S.A.

Optional

- Manual wall mounted control
- Wi-Fi App based Pearlink control
- BACnet/IP controls package for integration with existing front end control systems

TECHNICAL SPECIFICATIONS — MAX COVERAGE: UP TO 50 FT CEILING. 2000 FT²

Q SERIES EC — AIRIUSFANS.COM | 888-247-7327



Housing: PC/ABS, UL 94 5VA flame resistance.

Motor: 300mm, electrically commutated, thermally-protected axial motor by ebm-papst®. Operating temperature: 40° F (-40° C) to 176 ° F (80° C). No lubrication required, bearings are sealed.

Power Cord: 6 foot cord and plug provided for 100-130V fans, no plug for 200-240V.

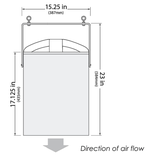
Control Input: 0-10VDC.

Stator: Patented multi-vane stator significantly increases air throw for maximizing performance.

Certification: Conforms to UL-507, CAN/CSA-C22.2 No. 1113. ETL listed in USA and Canada.

Safety Cable: 6' length steel cable (fastened to body)

Warranty: 3 years parts and workmanship.



Technical Specifications

Model	Input Power, 1 Ø	Amps	Watts	RPM	dB(A)[1]	Weight	Colors
Q-50-EC-STD-100-130-X	100-130VAC, 60Hz	1.04	87	1670	41, 40, 39	22 lbs.	X = Off white (W) , gray (G) or black (B)
Q-50-EC-STD-200-240-X	200-240VAC, 60Hz	0.8	98	1660	41, 40, 39	22 lbs.	X = Off white (W) , gray (G) or black (B)

(1) Calculated sound pressure at 40, 45 and 50 foot distances based on non-reflective area. 73.8 dB(A) Sound Power Level, designed to meet ISO 3744 - engineering grade precision for determining sound power. Data independently verified by third party. Tests performed in-unit.

Controls & Factory Installed Options

Item	Description
Pearlink-F	Pearlink Fan Sensor- One Per Fan, Wi-Fi IOS/Android App based controller
Pearlink-T	Pearlink wired (120v) Floor Thermostat- One Per Room
POT-1	Wall-mounted speed control. Low-voltage control wiring daisy-chained between fans to be controlled as a group.
BACnet	BACnet/IP package for integration with an existing BACnet system. Individually control speed, on/off and monitor fan status.

NEW PLENUM MOUNTED CONDENSATE DRAIN PUMP UNIT SCHEDULE (BASIS OF DESIGN: LITTLE GIANT)

LittleGIANT

VCCA-20-P SERIES

APPLICATIONS



- Designed for automatic collection and removal of condensate from air conditioning, refrigeration, and dehumidification equipment when gravity drainage is not possible or practical. The VCCA Series' low tank height allows these condensate pumps to be used where other condensate pumps will not fit.
- Suitable for plenum applications as it is constructed with materials that have been tested by and meet Underwriter's Laboratories' Standard 2043 "Fire Test for Heat and Visible Smoke Release for Discrete Products and their Accessories Installed in Air-handling Spaces".

FEATURES

- The pump is labeled "suitable for use in air handling spaces"
- 1/30 hp motor
- Low profile for limited space applications
- 72" 3-conductor lead wires with adjustable conduit fitting for 1/2" diameter flexible metal conduit
- 1/4-turn, twist-off locking check valve discharge adapter for 1/8" ID tubing
- Additional check valve included for 5/8" copper tubing
- Pump switch test lever (for manual test operation)
- Rubber feet on bottom of tank to isolate pump when placed on hard surface
- Three 1-1/8" diameter inlets
- Easy-to-knock-out plugs in two of the inlet openings
- Includes overflow detection switch with 72" leads
- Intermittent liquid temperature up to 140 °F
- Designed for hard-wire installation only
- Thermal overload protection
- Stainless steel motor shaft
- cULus

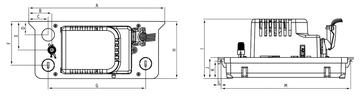
SERIES SPECIFICATIONS

Item No.	Model No.	HP	Rated Voltage	Hz	Amps	Watts	Discharge Size	Performance GPH (LPH) @ Head*			Shut-Off Ft	PSI	Cord Ft	Weight Lbs
								0	10	15				
554220	VCCA-20-P	1/30	115	60	1.5	93	3/8" (9.5mm) OD Barbed	80 (303)	70 (265)	45 (171)	10 (3)	20 (8.9)	8.6	4.5 (2.1 kg)
554220	VCCA-20-P	1/30	230	50/60	0.6/0.5	75	3/8" (9.5mm) OD Barbed	80 (303)	70 (265)	45 (171)	10 (3)	17.5 (7)	7.4	4.5 (2.1 kg)

Note: Flow rating is through check valve

VCCA-20-P SERIES

ENGINEERING DATA



A	B	C	D	E	F	G	H	I	J	K	L
9.97" (254.5 mm)	2.97" (75.4 mm)	1.70" (43.2 mm)	1.18" (30 mm)	2.32" (64 mm)	1.85" (98 mm)	5.15" (273.9 mm)	5.33" (127 mm)	5.34" (135.2 mm)	1.85" (47 mm)	1.92" (36.2 mm)	2.37" (8.9 mm)	290.0" (73.44 mm)

PERFORMANCE DATA



CONSTRUCTION

Motor	1/30 hp
Discharge	1/8" (3) barbed
Housing/Tank Cover	Polypropylene
Motor Cover	Polypropylene
Volute	Polypropylene
Tank	Polypropylene
Impeller	Polypropylene
Check Valve	Acetal

REV. | DATE | ITEM

NOTICE

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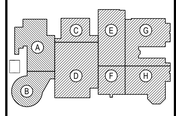

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

SCHEDULES, EQUIPMENT NOTES AND DETAILS (8 OF 10)

DWG TITLE

DRAWING BY: R.D.P.
CHECK BY: F.S.

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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE SCHEDULES, EQUIPMENT NOTES AND DETAILS (8 OF 10)

SCALE: AS NOTED
DATE: 7/15/22
BID PICK-UP:
FILE No: 21-274C

M6.08 | HSMS

NEW PEDESTAL MOUNTED FIN-TUBE SCHEDULE (BASIS OF DESIGN: ZEHNDER RITTLING)

Element and Enclosure — **Project: Briarcliff Manor HS/MS - BBS-RP**

zehnder Rittling

Model

Copper-Aluminum

Tag:

Qty	Coil Config	Rows of Element	Min. Installed Height
1	**Hot Water**	**1**	**10 inches**

General Information

Altitude:	**0**	Feet
Tube Diameter:	**3/4" TUBE**	
Fin Size:	**4-1/4" X 4-1/4" FIN**	
Fin Spacing:	**48 FINS PER FOOT**	
Length of Active Element:	**7**	Feet

Enclosure General Information

Model:	**PIBG5**	
Depth:	**5 1/2" D**	
Height:	**6" H**	
Damper:	**-**	
Return:	**-**	
Minimum Installed Height:	**10**	inches
Floor to Top of Enclosure:	**10**	inches
Length of Inactive Enclosure:	**0**	Feet
Total Length of Enclosure:	**7**	Feet

Hot Water Heat

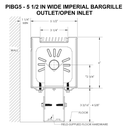
Capacity:	**9.0**	MBH
Element Output:	**1287**	Btu/hFt
Entering Air Temperature:	**65.0**	°F
Fluid Flow:	**0.9**	GPM
Entering Fluid Temperature:	**200.0**	°F
Leaving Fluid Temperature:	**180.0**	°F
Fluid ΔT:	**20.0**	°F
Fluid Pressure Drop:	**0.3**	ft. H2O
Fluid Type:	**Water**	
Glycol %:	**0**	



COPPER TUBE-ALUMINUM FIN



PIBGS - 5 1/2 IN WIDE IMPERIAL BARGRILLE OUTLET/OPEN INLET



PIBG06		
Pipe size		
Steel	**Copper**	**Fin size**
N/A	3/4", 1", 1-1/4"	2-3/4" x 4"
1", 1-1/4"	3/4", 1", 1-1/4"	3-1/4" x 3-1/4"
1", 1-1/4"	3/4", 1", 1-1/4"	4-1/4" x 4-1/4"



Notes
- Slight color variation may exist between actual finish and color chips. All colors are supplied in semi-gloss.
- Variation in color and gloss may occur in the manufacturing process.
- Custom color matching is available at additional cost. Metallic colors are not available.
- All products with a prime finish must have a field-applied topcoat for a consistent color.

Pricing for standard colors varies by product and color, refer to price lists for detailed information.

Electronic file is for reference only, subject to the calibration of each individual monitor it is viewed on. Contact the factory for a printed color chart to obtain an accurate representation of standard colors.

Features, Pedestal

PBG5/PIBGS, PBG10/PIBG10

Zehnder Rittling's Pedestal Bargrille Enclosure offers a slimline appearance in a strong floor mounted enclosure.

Enclosure
- 14, 16, 18-gauge cold rolled steel with painted finish
- 1-8" lengths in 6" increments
- PBGS-PIBGS:
  - 1 row: 6" high
  - 1 row and return: 8" high
  - 2 row: 12" high
- PBG10-PIBG10:
  - 2 column: 6" high
- Powder coated finish in decorator colors available
- Available in 18-gauge or 18-gauge stainless steel
- 1-row or 2-row high (PBG5/PIBG5), 2-column wide (PBG10/PIBG10) or many other custom configurations available

Copper/Aluminum Element
- Tube: 3/4", 1" or 1-1/4"
- Fin: 2-3/4" x 4", 3-1/4" x 3-1/4" or 4-1/4" x 4-1/4"
- 1' to 12' lengths in 6" increments

Steel Element
- Tube: 1", 1-1/4" or 2"
- Fin: 3-1/4" x 3-1/4" or 4-1/4" x 4-1/4"
- 1-1/2' to 10' length in 6" increments

Mounting
- Pedestal brackets - 2 available style bases:
  - Adjustable U (standard) 4" – 5.5" / -13/16"
  - Aluminum floor flange (optional), not available on 2 column
- Enclosure mounts to a cradle-type expansion bracket with positive locking bottom mounting clip to provide easy installation and security

Joints
- Internal joggle joiners provide hairline joints without any external fasteners

Damper (optional)
- Aluminum slide (PIBG only)

Grille
- PBG: standard aluminum extrusion, etched finishes, pencilproof
- PIBG: heavy-duty aluminum extrusion, R-204 clear anodized finish, 15° grille deflection, pencilproof

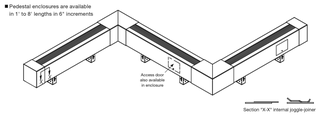


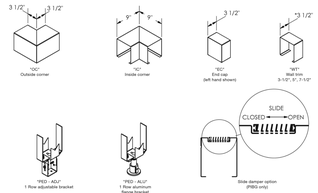
Cutaway view of PBG showing aluminum 4-1/4" x 4-1/4" fin configuration.

PBGS/PIBGS

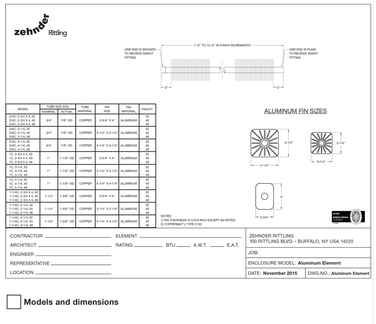
Accessories

- Pedestal enclosures are available in 1' to 8' lengths in 6" increments





Notes:
- All accessories are overlap type, butt type optional (except as noted)



MODEL	TUBE END CONNECTIONS: INLET/OUTLET	TUBE MATERIAL	FIN MATERIAL	OAL (APPROX.)	WEIGHT (APPROX.)
SNC 2.0/3.4 S 48	3/4"	1/8" OD	COPPER	3-3/4" X 4"	ALUMINUM
SNC 2.0/3.4 C 48					
SNC 3.1/4.3 S 48	3/4"	1/8" OD	COPPER	3-1/4" X 3-1/4"	ALUMINUM
SNC 3.1/4.3 C 48					
SNC 4.1/5.1 S 48	3/4"	1/8" OD	COPPER	4-1/4" X 4-1/4"	ALUMINUM
SNC 4.1/5.1 C 48					
TC 2.0/3.4 S 48	1"	1-1/4" OD	COPPER	3-3/4" X 4"	ALUMINUM
TC 2.0/3.4 C 48					
TC 3.1/4.3 S 48	1"	1-1/4" OD	COPPER	4-1/4" X 3-1/4"	ALUMINUM
TC 3.1/4.3 C 48					
TC 4.1/5.1 S 48	1"	1-1/4" OD	COPPER	4-1/4" X 4-1/4"	ALUMINUM
TC 4.1/5.1 C 48					
1.1/4S 2.0/3.4 S 48	1-1/4"	1-5/8" OD	COPPER	3-3/4" X 4"	ALUMINUM
1.1/4S 2.0/3.4 C 48					
1.1/4S 3.1/4.3 S 48	1-1/4"	1-5/8" OD	COPPER	4-1/4" X 3-1/4"	ALUMINUM
1.1/4S 3.1/4.3 C 48					
1.1/4S 4.1/5.1 S 48	1-1/4"	1-5/8" OD	COPPER	4-1/4" X 4-1/4"	ALUMINUM
1.1/4S 4.1/5.1 C 48					

CONTRACTOR		ELEMENT	
ARCHITECT		RATING	BTU A.W.T. E.A.T.
ENGINEER			
REPRESENTATIVE			
LOCATION			

ZEHNDER RITTLING
100 RITTLING BLVD. - BUFFALO, NY USA 14220

JOB:

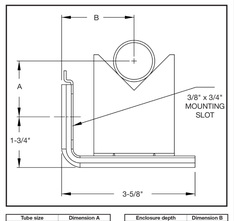
ENCLOSURE MODEL: **Aluminum Element**

DATE: **November 2015** DWG.NO.: **Aluminum Element**

Models and dimensions

Galvannealed-steel, cradle-type expansion bracket for bare tube installation

Zehnder Rittling finned tube can be installed bare or with any Zehnder Rittling enclosure using Zehnder Rittling's cradle-type expansion brackets. Made of sturdy, ribbed, galvannealed steel, these economical brackets permit 1-1/4 inches of finned-tube expansion. The L-Shaped enclosure brackets support both the enclosure and element. Second row brackets are used for bare tube applications as well as 2 row and 3 row installations. Enclosures 20 inches high accommodate one or two rows of finned-tube; those 24 inches high accommodate one, two or three rows of finned tube.



Tube size	Dimension A
1" Steel	1-3/4"
1-1/4" Steel	1-7/8"
2" Steel	2-1/4"
3/4" Copper	1-3/8"
1" Copper	1-1/2"
1-1/4" Copper	1-5/8"

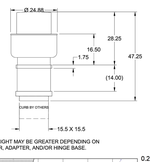
Enclosure depth	Dimension B
3-1/2", 3-15/16", 5-3/8"	1-31/32"
4-1/2", 5-3/8"	2-17/32"

NEW EXHAUST FAN "EF-19" SCHEDULE (BASIS OF DESIGN: GREENHECK)

Model: CUE-099-B

Direct Drive Upblast Centrifugal Roof Exhaust Fan

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	45
Weight w/ Acc's (lb)	76
Max T Motor Frame Size	56
Standard Curb Cap Size (in.)	19 x 19
Roof Opening (in.)	15.5 x 15.5

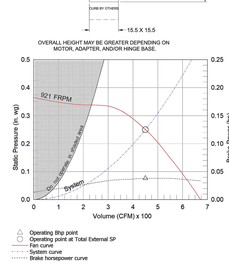


Performance	
Requested Volume (CFM)	450
Actual Volume (CFM)	450
Total External SP (in. wg)	0.25
Fan RPM	921
Operating Power (hp)	0.04
Elevation (ft)	30
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.075
Tip Speed (ft/min)	2,896
Static Eff. (%)	47

Misc Fan Data	
Fan Eff. Index (FEI)	-
Outlet Velocity (ft/min)	352

Motor	
Motor Mounted	Yes
Size (hp)	1/6
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1140
Efficiency Rating	Standard
Windings	1
Short Circuit Current Rtg (SCCR)	5 kA

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	73	66	62	53	50	50	40	34	59	47	4.7

Notes:
All dimensions shown are in units of in.
*Please consult factory for actual motor amp draw
Lwk - A weighted sound power level, based on ANSI S1.4 All performance ratings tested to AMCA Standard 210. Ratings include the effects of any factory-furnished accessories and adjustments per AMCA Standard 203. Certified ratings are shown in bold italics. Values are not listed for operating points that exceed the maximum motor nameplate rating. Sones - calculated using ANSI/AMCA 301 at 0.25 in. wg.

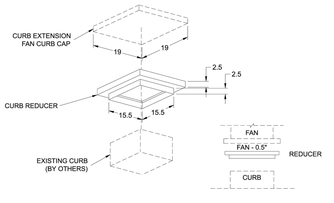


Curb Cap Adapter

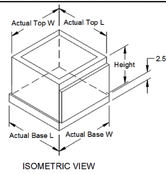
Type: Reducer

Standard Construction Features:

Curb adapters are designed to adapt standard curb cap dimensions to non-standard curb sizes. Adapters may be constructed of either aluminum or galvanized steel. Curb reducers may reduce by a maximum of 10 in. and curb adapters may extend up to 20 in. beyond the standard curb cap size.



NEW CURB EXTENSION W/ACCESS DOOR FOR EXISTING FANS "XEF-2 & XEF-3" SCHEDULE (BASIS OF DESIGN: GREENHECK)



Model: GPE

Curb Extension With Access Door

Standard Construction Features:

Curb Extension mounts between the fan and the roof curb. - Constructed of either 18 ga galvanized or optional 0.064 in. aluminum - Bolted access door provide easy access to damper and damper actuator - Also can fulfill additional height requirements. NOTES: - Available in heights from 12 in. to 24 in. as specified. - Damper Tray is standard and sized same as damper size.

Damper Tray

ID#	Tray Use	Damper Tray Width (in.)	Damper Tray Length (in.)
3-1	GFC Fans	12	12
3-2	GFC Fans	12	12

Accessories

ID#	Material
3-1	Aluminum
3-2	Aluminum

General

ID#	Tag	Qty	Model	Sizing Method	Undersizing (in.)	Weight (lb)	Shipped Assembled	Union Made
3-1	EF-2	1	GPE-22-A14	Nominal	1.25	18		
3-2	EF-3	1	GPE-22-A14	Nominal	1.25	18		

Dimensions

ID#	Curb Height (in.)	Nominal Width (in.)	Nominal Length (in.)	Actual Top Width (in.)	Actual Top Length (in.)	Actual Base Width (in.)	Actual Base Length (in.)
3-1	14	22	22	20.75	20.75	22.25	22.25
3-2	14	22	22	20.75	20.75	22.25	22.25

NEW EXHAUST FAN "EF-48" SCHEDULE (BASIS OF DESIGN: GREENHECK)

GREENHECK — Building Value In Air.

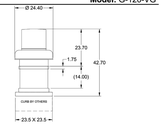
Cut Sheet - Not for Submittal
Printed Date: 10/19/2022
Mark: EF-48
Model: G-120-VG

Model: G-120-VG

Direct Drive Centrifugal Roof Exhaust Fan

Previously: G-123-VG

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	44
Weight w/ Acc's (lb)	122
Standard Curb Cap Size (in.)	19 x 19
Optional Damper (in.)	12 x 12
Roof Opening (in.)	15.5 x 15.5

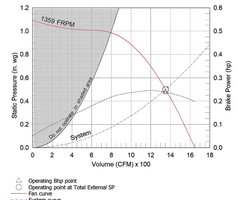


Performance	
Requested Volume (CFM)	1,350
Actual Volume (CFM)	1,350
Total External SP (in. wg)	0.5
Fan RPM	1359
Operating Power (hp)	0.24
Elevation (ft)	30
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.075
Tip Speed (ft/min)	4,648
Static Eff. (%)	45

Misc Fan Data	
Fan Eff. Index (FEI)	-
Outlet Velocity (ft/min)	1,452

Motor	
Motor Mounted	Yes
Size (hp)	1/2
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1725
Efficiency Rating	High
Windings	1
FLA (Amps)	6.4
Min. Circuit Ampacity (MCA)	8
Max. Overcurrent Protection (MOP)	15
Short Circuit Current Rtg (SCCR)	5 kA

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



Notes:
All dimensions shown are in units of in.
*Please consult factory for actual motor amp draw - based on tables 430.248 or 430.250 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory. MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc). Lwk - A weighted sound power level, based on 115 dB reference per Octave band at 0 ft - dBA levels are not licensed by AMCA International. Sones - calculated using ANSI/AMCA 301 at 0.25 in. wg.

Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	71	76	78	72	64	63	58	56	74	62	11.5

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Model: G-120-VG

Direct Drive Centrifugal Roof Exhaust Fan

Standard Construction Features:

- Aluminum housing - Backward inclined composite (sizes 60-95) or aluminum (sizes 97-300) wheel - Aluminum curb cap with prepunched mounting holes - Birdscreen - Ball bearing motors (sizes 85-300 and all Vari Green), sleeve bearing motors (sizes 60-80) - Motor isolated on shock mounts - Corrosion resistant fasteners

Selected Options & Accessories:

Motor - Vari-Green EC motor
Control - Dial for balancing
Standard Curb Cap Size - 19 Square
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle, Shipped with Unit
Junction Box Mounted & Wired
Curb Extension-Alum., GPE-19-A14, Tray, Coated
Adapter-Alum., Curb Cap Adapted to 23.5 x 23.5 (Attached)
Birdscreen: Galvanized, nom. 84% Free Area
Unit Warranty: 1 Yr (Standard)
Damper Shipped Loose, VCD-23-PB-12K12, Not Coated
Damper Actuator (MS4103F1025), 115 VAC Actuated

The Vari-Green Motor included in this order has a 'Multi-Voltage' ability. The red wire on the motor is called a "Voltage Doubler", and when it is connected the motor can be powered by 115V.
If the Red wire is disconnected, then the motor can be powered with 208-230/277V. The motor will leave the factory with the voltage doubler wired per the order.

Vari-Green Motor & Control Options

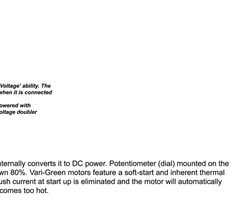
An EC motor that uses AC input power and internally converts it to DC power. Potentiometer (dial) mounted on the motor enclosure adjusts the speed (RPM) down 80%. Vari-Green motors feature a soft-start and inherent thermal and current protection built into each unit. Inrush current at start up is eliminated and the motor will automatically reduce speed or turn off if overloaded or it becomes too hot.

Motor Configuration

Input Voltage: 115
Speed Reference: Dial on Motor
Permanent Dial: Yes

Control Configuration

Control Type: N/A
Transformer: None



Curb Cap Adapter

Type: Adapter

Standard Construction Features:

Curb adapters are designed to adapt standard curb cap dimensions to non-standard curb sizes. Adapters may be constructed of either aluminum or galvanized steel. Curb reducers may reduce by a maximum of 10 in. and curb adapters may extend up to 20 in. beyond the standard curb cap size.

NEW EXHAUST FAN "EF-51" SCHEDULE (BASIS OF DESIGN: GREENHECK)

GREENHECK — Building Value In Air.

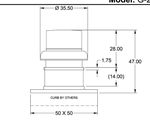
Cut Sheet - Not for Submittal
Printed Date: 10/19/2022
Mark: EF-51
Model: G-200HP-VG

Model: G-200HP-VG

Direct Drive Centrifugal Roof Exhaust Fan

Previously: G-203HP-VG

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	158
Weight w/ Acc's (lb)	282
Standard Curb Cap Size (in.)	30 x 30
Optional Damper (in.)	24 x 24
Roof Opening (in.)	26.5 x 26.5

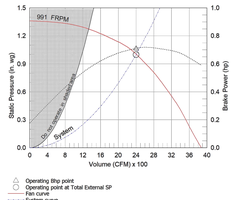


Performance	
Requested Volume (CFM)	2,400
Actual Volume (CFM)	2,400
Total External SP (in. wg)	1
Fan RPM	991
Operating Power (hp)	0.71
Elevation (ft)	30
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.075
Tip Speed (ft/min)	5,545
Static Eff. (%)	53

Misc Fan Data	
Fan Eff. Index (FEI)	-
Outlet Velocity (ft/min)	1,004

Motor	
Motor Mounted	Yes
Size (hp)	2
Voltage/Cycle/Phase	208/60/3
Enclosure	TEFC
Motor RPM	1350
Efficiency Rating	High
Windings	1
FLA (Amps)	7.4
Min. Circuit Ampacity (MCA)	9
Max. Overcurrent Protection (MOP)	15
Short Circuit Current Rtg (SCCR)	5 kA

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



Notes:
All dimensions shown are in units of in.
*Please consult factory for actual motor amp draw - based on tables 430.248 or 430.250 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory. MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc). Lwk - A weighted sound power level, based on 115 dB reference per Octave band at 0 ft - dBA levels are not licensed by AMCA International. Sones - calculated using ANSI/AMCA 301 at 0.25 in. wg.



Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	80	76	75	74	68	64	61	58	75	63	12.4

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Model: G-200HP-VG

Direct Drive Centrifugal Roof Exhaust Fan

Standard Construction Features:

- Aluminum housing - Backward inclined composite (sizes 60-95) or aluminum (sizes 97-300) wheel - Aluminum curb cap with prepunched mounting holes - Birdscreen - Ball bearing motors (sizes 85-300 and all Vari Green), sleeve bearing motors (sizes 60-80) - Motor isolated on shock mounts - Corrosion resistant fasteners

Selected Options & Accessories:

Motor - Vari-Green EC motor
Control - Dial for balancing
Standard Curb Cap Size - 30 Square
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle, Shipped with Unit
Junction Box Mounted & Wired
Curb Extension-Alum., GPE-30-A14, Tray
Adapter-Alum., Curb Cap Adapted to 50 x 50 (Attached)
Birdscreen: Galvanized, nom. 84% Free Area
Unit Warranty: 1 Yr (Standard)
Damper Shipped Loose, VCD-23-PB-24X24, Not Coated
Damper Actuator (MS4103F1025), 208 VAC Actuated w/ 115 VAC Transformer

The Vari-Green Motor included in this order can operate on any three phase voltage between 208V and 240V.

Vari-Green Motor & Control Options

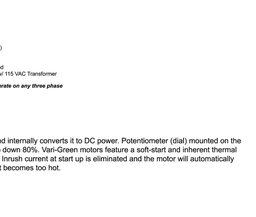
An EC motor that uses AC input power and internally converts it to DC power. Potentiometer (dial) mounted on the motor enclosure adjusts the speed (RPM) down 80%. Vari-Green motors feature a soft-start and inherent thermal and current protection built into each unit. Inrush current at start up is eliminated and the motor will automatically reduce speed or turn off if overloaded or it becomes too hot.

Motor Configuration

Input Voltage: 208
Speed Reference: Dial on Motor
Permanent Dial: Yes

Control Configuration

Control Type: N/A
Transformer: None

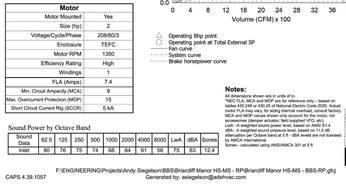


Curb Cap Adapter

Type: Adapter

Standard Construction Features:

Curb adapters are designed to adapt standard curb cap dimensions to non-standard curb sizes. Adapters may be constructed of either aluminum or galvanized steel. Curb reducers may reduce by a maximum of 10 in. and curb adapters may extend up to 20 in. beyond the standard curb cap size.



ALL WORK SCOPE WITHIN THIS BOUNDARY SHALL BE PART OF
ADD-ALTERNATE #5

NEW EXHAUST FAN "REF-1" SCHEDULE (BASIS OF DESIGN: GREENHECK)

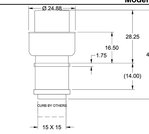
GREENHECK — Building Value In Air.

Cut Sheet - Not for Submittal
Printed Date: 10/19/2022
Mark: REF-1
Model: CUE-099-A

Model: CUE-099-A

Direct Drive Upblast Centrifugal Roof Exhaust Fan

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	45
Weight w/ Acc's (lb)	76
Max T Motor Frame Size	56
Standard Curb Cap Size (in.)	19 x 19
Roof Opening (in.)	15.5 x 15.5

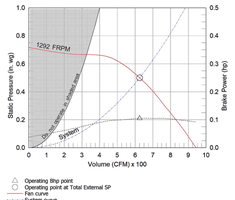


Performance	
Requested Volume (CFM)	625
Actual Volume (CFM)	625
Total External SP (in. wg)	0.5
Fan RPM	1292
Operating Power (hp)	0.1
Elevation (ft)	30
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.075
Tip Speed (ft/min)	3,783
Static Eff. (%)	47

Misc Fan Data	
Fan Eff. Index (FEI)	-
Outlet Velocity (ft/min)	488

Motor	
Motor Mounted	Yes
Size (hp)	1/4
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1725
Efficiency Rating	Standard
Windings	1
NEC FLA* (Amps)	5.8
Min. Circuit Ampacity (MCA)	7.25
Max. Overcurrent Protection (MOP)	15
Short Circuit Current Rtg (SCCR)	5 kA

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



Notes:
All dimensions shown are in units of in.
*Please consult factory for actual motor amp draw - based on tables 430.248 or 430.250 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory. MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc). Lwk - A weighted sound power level, based on 115 dB reference per Octave band at 0 ft - dBA levels are not licensed by AMCA International. Sones - calculated using ANSI/AMCA 301 at 0.25 in. wg.



Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	70	70	67	62	59	57	52	43	65	54	6.8

CAPS 4.39.1057 — Generated by: asiegelson@adelhvac.com — Page 16 of 21

Model: CUE-099-A

Direct Drive Upblast Centrifugal Roof Exhaust Fan

Standard Construction Features:

- Aluminum housing - Backward inclined aluminum wheel - Aluminum curb cap with prepunched mounting holes - Drain trough - Ball bearing motors (sizes 85-300 and all Vari Green), sleeve bearing motors (sizes 60-80) - Motor isolated on shock mounts - Corrosion resistant fasteners

Spark B construction was selected.
Greenheck has included options and accessories for this product that meet the intent of AMCA 99 - spark resistant construction guidelines. Greenheck recommends, but does not require, an EXP motor for this product line. If an EXP motor is not selected, the engineer of record must determine if this is acceptable for the application. The resulting fan construction in no way implies a guarantee of safety for any level of spark resistance. Spark resistant construction does not prevent ignition of explosive gasses or vapors due to catastrophic failure or from any airstream material that may exist within in a system.

Selected Options & Accessories:

PSC Motor
Standard Curb Cap Size - 19 Square
Spark B Construction
UL/cUL 705 Listed - "Power Ventilators"
Switch, NEMA-1, Toggle, Shipped with Unit
Junction Box Mounted & Wired
Curb Extension-Alum., GPE-19-A14, Tray, Coated
Reducer-Alum., Curb Cap Reduced to 15 x 15 (Attached), Coated
Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc
Solid State Speed Control, 6 Amp, Shipped With Unit
Aluminum Rub Ring
Unit Warranty: 1 Yr (Standard)

Curb Cap Adapter

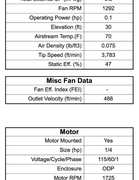
Type: Reducer

Standard Construction Features:

Curb adapters are designed to adapt standard curb cap dimensions to non-standard curb sizes. Adapters may be constructed of either aluminum or galvanized steel. Curb reducers may reduce by a maximum of 10 in. and curb adapters may extend up to 20 in. beyond the standard curb cap size.

Control Damper

Model: VCD-23



Standard Construction Features:

- Model VCD-23 is a well built low leakage control damper for automatic control or manual balancing applications - Galvanized 16 ga channel frame - Galvanized blades with reinforcements - Side mounted steel linkage is concealed in the frame to prevent additional pressure drop - Axles are steel and 0.5 in. dia - Synthetic axle bearings - Width and height furnished approximately 0.25 in. undersized - Field wiring is required to individual components

Damper Configuration:

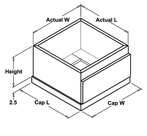
ID #	Tag	Quantity	W (in.)	H (in.)	Act Qty.	Actuator Model:
7	EF-48	1	12	12	1	MS4103F1025
8	EF-51	1	24	24	1	MS4103F1029

Notes: All dimensions shown are in units of in.
Width And height furnished approximately 0.25 in. undersize

GPE Curb Extension with Access Door

STANDARD CONSTRUCTION FEATURES

• Welded Aluminum (0.064 in.) or galvanized (18 ga) construction • Bolted access door provides easy access to damper and damper actuator • Fulfills additional height requirements.
NOTES:
* Height - Available from 12 in. to 24 in. as specified in 0.5 in. increments.
* Tray - Damper Tray is standard. Tray size is same as damper size.



NOTES: All dimensions shown are in units of inches

Mark	Qty.	Cap W x L	Actual W x L	Height	Damper Tray W x L

REV.	DATE	ITEM

NOTICE

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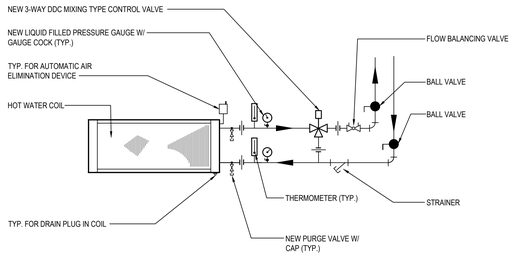
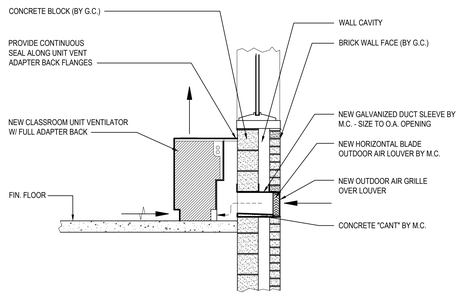


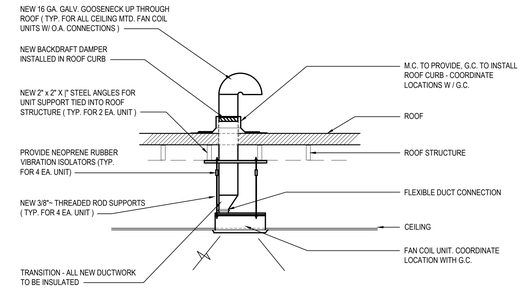
1 3 WAY HOT WATER COIL DETAIL

SCALE: N.T.S.



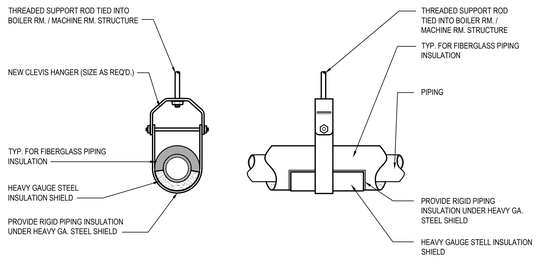
2 UNIT VENTILATOR / FAN COIL UNIT FRESH AIR INTAKE - MASONRY WALL INSTALLATION

SCALE: N.T.S.



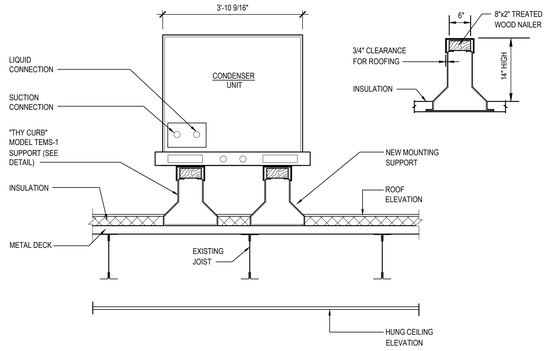
3 FAN COIL UNIT WITH FRESH AIR INTAKE

SCALE: N.T.S.



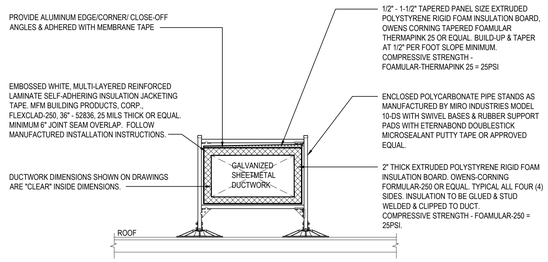
4 CLEVIS HANGER PIPING SUPPORT DETAIL

SCALE: N.T.S.



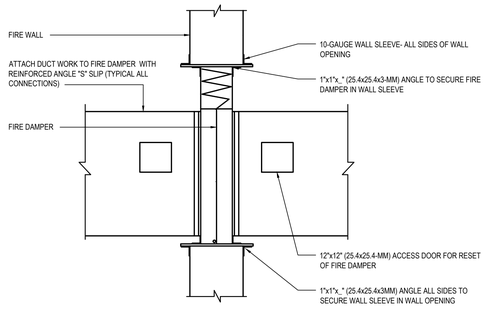
5 CONDENSER UNIT AND SUPPORT

SCALE: N.T.S.



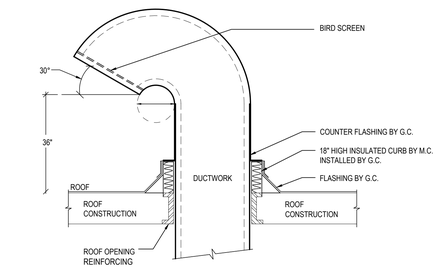
6 EXTERIOR DUCTWORK INSULATION WITH SUPPORTS

SCALE: N.T.S.



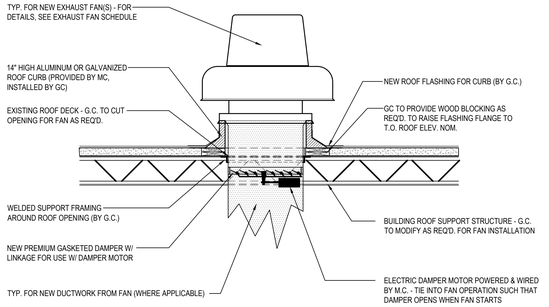
7 FIRE DAMPER IN WALL AREA FOR DUCT PENETRATION

SCALE: N.T.S.



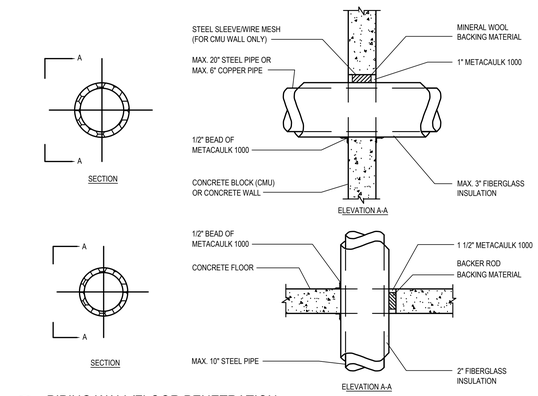
8 FRESH AIR INTAKE GOOSENECK DETAIL

SCALE: N.T.S.



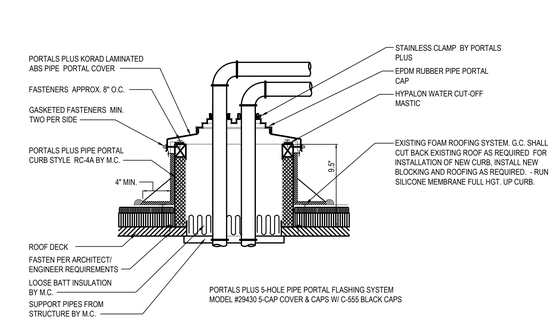
9 NEW ROOF MOUNTED EXHAUST FAN INSTALLATION

SCALE: N.T.S.



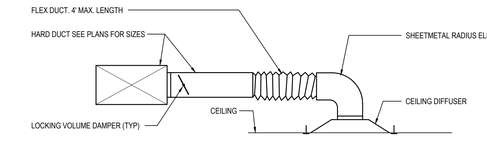
10 PIPING WALL/FLOOR PENETRATION

SCALE: N.T.S.



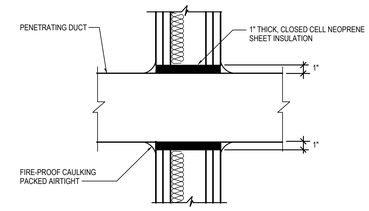
11 ROOF PIPING PENETRATION DETAIL

SCALE: N.T.S.



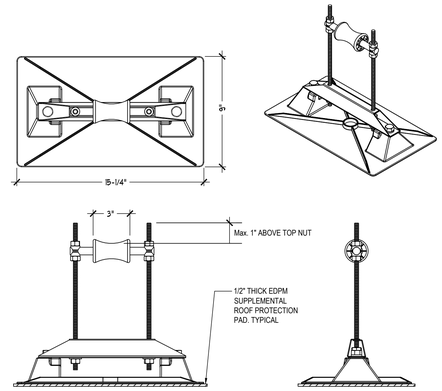
12 TYPICAL CEILING DIFFUSER INSTALLATION

SCALE: N.T.S.



13 TYPICAL DUCT PENETRATION

SCALE: N.T.S.



PROVIDE & INSTALL A "ROLLER-BEARING" PIPE SUPPORT FOR ROOF MOUNTED GAS PIPING. SUPPORTS ARE TO BE MADE OF POLYCARBONATE AS MANUFACTURED BY MIRO INDUSTRIES' MODEL 3-RAH-12 PILLOW BLOCK PIPE STAND. SPACING NOT TO EXCEED 10'-0" ON CENTER. MOUNT EACH PIPE STAND ON 15-3/4" x 19-3/4" SUPPORT PAD BY MIRO INDUSTRIES. SEE DETAIL IN THIS DRAWING.

14 ROOF MOUNTED PIPING SUPPORT DETAIL

SCALE: N.T.S.

REV.	DATE	ITEM

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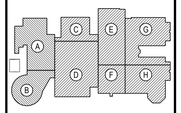

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

SCHEDULES, EQUIPMENT
NOTES AND DETAILS (10 OF 10)

DRAWING BY: R.D.P.

CHECK BY: F.S.

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T: 631.475.0349
F: 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
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F: 518.621.7655

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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE SCHEDULES, EQUIPMENT NOTES AND DETAILS (10 OF 10)

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M6.10 | HSMS

PLUMBING FIXTURE SCHEDULE

LABEL	FIXTURE	SPECIFICATION	TRAP	VENT	COLD	HOT	TEMPERED
P-1	WATER COOLER WITH BOTTLE FILL STATION	ELKAY MODEL LZS8S COOLER WALL MOUNT ADA FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50 F DRINKING WATER, BASED ON 80 F INLET WATER AND 90 F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED. FURNISHED WITH FLEXI-GUARD ® SAFETY BUBBLER, ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120. UNIT SHALL BE LEAD-FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 & 372 (LEAD FREE) AND MEETS FEDERAL AND STATE LOW-LEAD REQUIREMENTS. INSTALL ADA COOLER PER GUIDELINES 32" FROM FLOOR TO ORIFICE HEIGHT. FURNISH WITH MLP100 IN WALL CARRIER.	2"	1-1/2"	1/2"	--	--
P-2	WALL MOUNTED LAVATORY - ADA	AMERICAN STANDARD LUCERNE WHITE VITREOUS CHINA WALL HUNG LAVATORY MODEL 0355.012 WITH FRONT OVERFLOW, FAUCET LEDGE, "D" SHAPED BOWL, SELF-DRAINAGE DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS AND BRACKET SUPPORT. INSTALL WITH AMERICAN STANDARD INNSBROOK SELECTRONIC ELECTRONIC PROXIMITY LAVATORY FAUCET MODEL 6053.205 BATTERY POWERED FAUCET (0.5 GPM) WITH AMERICAN STANDARD MODEL 605XTMV1070 THERMOSTATIC MIXING VALVE, GRID STRAINER AND TRUEBRO MODEL 2018-AS-L LAV SHIELD ENCLOSURE AND ALL NECESSARY SUPPORTS AND CONNECTIONS. REFER TO ARCHITECTURAL DWGS. FOR FIXTURE MOUNTING HEIGHTS. P.C. TO FURNISH AND INSTALL McGuire MODEL # 8902C CAST BODY P-TRAP WITH CLEANOUT WITH 18 GAUGE SEAMLESS TUBULAR WALL BEND, CAST BRASS SLIP NUT. REDUCING WASHERS SHALL BE USED WITH REDUCING CAST BRASS NUT. WITH(SHALLOW,DEEP BELL) (STEEL,BRASS), OR (FORGED BRASS WITH SET SCREW) FLANGE. FED SPEC W.W.P 541. CAT BRASS P-TRAP. MINIMUM SEAL 2". A.S.M.E A112.18.2/CSA B-125-2. P.C. TO FURNISH AND INSTALL McGuire MODELS# LFST07 ANGLE SUPPLY STOP COPPER SWEAT X O.D. CHROME PLATED BRASS, SUPPLY STOP VALVE WITH FULL TURN BRASS STEM. INLET SHALL (3/8,1/2) INCH (IPS,SWEAT,COMPRESSION). OUTLET SHALL BE(3/8,1/2)INCH(IPS,COMPRESSION). ASME A112.18.2 UPC LOW-LEAD. P.C. TO FURNISH AND INSTALL LAVATORY CARRIER(CONCEALED ARMS). REFER TO THE ARCHITECTURAL DRAWINGS FOR WALL THICKNESS. WALL CARRIER FOOTPRINT SHLL FIT WITHIN THE WALL. REGULARLY FURNISHED: SINGLE LAVATORY FIXTURE SUPPORT WITH PAINTED CAST IRON HEADER COUPLINGS, ROUND TUBULAR STEEL UPRIGHTS, CAST IRON CONCEALED ARMS, ZINC PLATED SUPPORT HARDWARE AND WELDED BASE FEET. ASME TYPE 2 CARRIER LOAD RATING=250LB P.C. TO FURNISH AND INSTALL AMERICAN STANDARD MODEL#7723.018 OFF DRAIN WITH OVERFLOW. FOR WHEELCHAIR LAVATORY. POLISHED CHROME FINISH.	1-1/2"	1-1/2"	1/2"	1/2"	--
P-3	WALL MOUNTED WATER CLOSET - ADA	AMERICAN STANDARD AFWALL MILLENNIUM 3351.660, 1.28 GPF EXPOSED TOP SPUD BOWL W/ SELECTRONIC FLUSH VALVE, WALL MOUNTED ELONGATED FLUSHOMETER VALVE TOILET, VITREOUS CHINA, HIGH EFFICENCY, PERMANENT EVERCLEAN SURFACE INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA, MOLD, AND MILDEW ON THE SURFACE. CONDENSATION CHANNEL, POWERFUL DIRECT-FED SIPHON JET ACTION, 1-1/2" INLET SPUD, FULLY GLAZED 2-1/8" TRAPWAY, MODEL 6065.161 ELECTRONIC FLUSH VALVE WITH SELECTRONIC PROXIMITY SYSTEM FOR "HANDS FREE" OPERATION, SELF CLEANING PISTON OPERATION HELPS PREVENT CLOGGING AND REDUCES MAINTENANCE, MECHANICAL OVERRIDE FLUSH BUTTON, LOW BATTERY INDICATOR. AMERICAN STANDARD SEAT MODEL 5905.100 EXTRA HEAVY DUTY OPEN FRONT LESS COVER. PROVIDE AND INSTALL ALL NECESSARY CONNECTIONS TO COLD WATER, SANITARY WASTE LINES, CHROME ESCUTCHEONS AND SUPPORTS. ZURN ADJUSTABLE COMMERCIAL WALL TOILET CARRIER. COLOR TO BE WHITE. REFER TO THE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.	4"	2"	1-1/2"	--	--
P-4	DECK PLATE CLEAN OUT	ZURN ZN1400-BZ1-VP CLEANOUT, 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)	--	--	--	--	--
P-5	WALL CLEANOUT	ZURN Z1441 WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.	--	--	--	--	--
P-6	FLOOR DRAIN	ZURN MODEL# ZN415E BODY W/ "TYPE E" 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 E" POLISHED, NICKEL BRONZE STRAINER WITH 4" DIAMETER FUNNEL. P.C. TO FURNISH AND INSTALL WITH J.R. SMITH #2692-04 QUAD CLOSE TRAP SEAL.	4"	2"	1/2"	--	--
P-7	WALL MOUNTED URINAL - ADA	AMERICAN STANDARD WASHBROOK FLO-WISE WHITE VITREOUS CHINA URINAL MODEL 6590.525 TOP SPUD, WALL MOUNTED. PROVIDE AND INSTALL AMERICAN STANDARD BATTERY POWERED AND SENSOR OPERATED SELECTRONIC FLO-WISE FLUSHOMETER MODEL 6063.013.002 LOW CONSUMPTION (1.25G.P.F.) AND ALL NECESSARY SUPPORTS AND CONNECTIONS. REFER TO ARCHITECTURAL DWGS. FOR FIXTURE MOUNTING HEIGHTS. P.C. TO FURNISH AND INSTALL WADE MODEL#400-AM11 URINAL CARRIER. UNIVERSAL HANGER PLATE CARRIER WITH PIPE UPRIGHTS, WELDED BASE FEET, UPPER PLATE WITH HANGER SUPPORT HARDWARE AND LOWER PLATE BEARING SUPPORTS STUDS.	2"	1-1/2"	1"	--	--
P-8	HAMMER ARRESTOR	OATEY QUIET PIPE'S HAMMER ARRESTORS SIZE A.F. ARRESTOR CHAMBERS SHAL BE SPECIFICALLY SIZED TO ACCOMMODATE AND DISSIPATE ENERGY GENERATED BY SUCH VALVES AND FAUCETS. ARRESTORS SHALL BE EFFECTIVE WHEN INSTALLED ANY ANGLE. ARRESTOR SHALL BE LEAD-FREE, MADE OF COPPER AND INCLUDE POLYPROPYLENE PISTON WITH TWO NBR O-RINGS. ARRESTORS SHALL BE ANSI/ASSE1010-200 CERTIFIED AND APPROVED FOR INSTALLATION WITH NO ACCESS PANEL REQUIRED. ARRESTOR BODY:COPPER(TYPE K). PISTION:POLYPROPYLENE WITH TWO NBR O-RINGS.PISTON LUBRICATION: DOW CORNING MOLYKOTE 111. FITTINGS AVAILABLE: MALES SWEAT/PRESS,FEMALE CPVC,MIP,F1807 PEX & F1960 PEX(NO LEAD BRASS C46400). TEMPERATURE RANGE:33ºF-180ºF MAX WORKING PRESSURE: 0-400 Psi. ANSI/ASSE1010-2004cUPC,PDI WH-201-2017.	--	--	1"	--	--
P-9	BOTTLE FILLING STATION	FURNISH AND INSTALL ELKAY MODEL LZ8WSSSMC EZH2O® REFRIGERATED SURFACE MOUNT BOTTLE FILLING STATION, FILTERED 8GPH STAINLESS STEEL. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50 F DRINKING WATER, BASED ON 80 F INLET WATER AND 90 F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL, FILTERED, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR. ELECTRONIC BOTTLE FILLER SENSOR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120. UNIT SHALL BE LEAD-FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 & 372 (LEAD FREE) AND MEETS FEDERAL AND STATE LOW-LEAD REQUIREMENTS. INSTALL ADA COOLER PER GUIDELINES 32" FROM FLOOR TO ORIFICE HEIGHT. FURNISH WITH MLP100 IN WALL CARRIER.	2"	1-1/2"	1/2"	--	--
P-9	FLOOR MOUNTED WATER CLOSET - ADA	AMERICAN STANDARD MADERA FLO-WISE 16-1/2" HEIGHT WHITE VITREOUS CHINA WITH EVERCLEAN TOILET NO. 3461.660 FLOOR MOUNTED WITH TOP SPUD. THE TOP OF WATER CLOSET SEAT SHALL BE 17-1/2" ABOVE FINISHED FLOOR. PROVIDE AND INSTALL AMERICAN STANDARD BATTERY POWERED AND SENSOR OPERATED SELECTRONIC FLO-WISE FLUSHOMETER MODEL 6065.121.002 LOW CONSUMPTION (1.28 G.P.F.) AND ALL NECESSARY SUPPORTS AND CONNECTIONS. FURNISH WITH AMERICAN STANDARD ELONGATED HEAVY DUTY WHITE PLASTIC SEAT MODEL 5901 , OPEN FRONT WITH EVERCLEAN SURFACE	4"	2"	1-1/2"	--	--
P-10	LAY-IN SINK - ADA	ELKAY LUSTERTONE™ CLASSIC STAINLESS STEEL 19" X 18" X 6", SINGLE BOWL DROP-IN ADA SINK. SINK IS MANUFACTURED FROM 18 GAUGE 304 STAINLESS STEEL WITH A LUSTROUS SATIN FINISH, REAR CENTER DRAIN PLACEMENT, AND BOTTOM ONLY PADS. P.C. TO FURNISH AND INSTALL ELKAY MODEL#LKAD28,3-1/2" DRAINING FITTING TYPE 304 STAINLESS STEEL BODY, STAINER BASKET AND OFFSET TAILPIECE. 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 LK406LGN0874 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: 9-1/2" .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	2"	1-1/2"	1/2"	1/2"	--

LEGEND

———	COLD WATER SUPPLY LINE
— — —	HOT WATER SUPPLY LINE
— - — - —	HOT WATER RETURN LINE
——— T ———	TEMPERED WATER LINE
——— V ———	VENT LINE
— — SW — —	SANITARY WASTE LINE
	BALANCING VALVE
	BALL VALVE
	UNION
CODP	CLEAN OUT DECK PLATE
WPCO	CLEANOUT IN WALL -
CO	CLEAN OUT
UP	PIPE RUNNING UP
DN	PIPE RUNNING DOWN
FD	FLOOR DRAIN
RD	ROOF DRAIN
	STRAINER
	SOLENOID CONTROLLED VALVE
	POINT OF DISCONNECTION/CONNECTION
	INTERIOR WALL HYDRANT SEE PLUMBING FIXTURE SCHEDULE
	CHECK VALVE
U.O.N.	UNLESS OTHERWISE NOTED
A.F.G.	ABOVE FINISHED GRADE

GENERAL PLUMBING NOTES:

1. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE AND OF ALL AUTHORITIES HAVING JURISDICTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING RELATED FEES.
2. PROVIDE ALL REQUIRED OFFSETS, FITTINGS, VALVES, TRAPS, DRAINS ETC. EVEN THOUGH NOT INDICATED DUE TO SMALL SCALE OF DRAWINGS.
3. CHECK DRAWINGS OF OTHER TRADES AND ARRANGE WORK TO AVOID ANY CONFLICTS.
4. RUN PIPING IN WALL CHASE, RECESSES, PIPE SHAFTS AND HUNG CEILING WHERE PROVIDED. COORDINATE LOCATION WITH OTHER TRADES.
5. PROVIDE ACCESSIBLE CONTROL TO VALVES WHERE NOTED OR REQUIRED FOR COMPLETE WORK FOR STEMS, PLUMBING FIXTURES ACCESSIBLE.
6. USE INCREASER FITTINGS FOR CHANGES IN PIPE SIZE. USE NO BUSHINGS EXCEPT WITH SPECIAL PERMISSION BY ENGINEER.
7. PLUMBING CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT AND APPLIANCES REQUIRED FOR A COMPLETE PLUMBING AND DRAINAGE INSTALLATION AS SHOWN ON THE DRAWING, INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS:
   - 7.1. INSTALL ALL NEW PIPING CONNECTIONS TO PLUMBING FIXTURES AND FITTINGS ETC.
   - 7.2. PROVIDE AND INSTALL NEW HOT & COLD WATER CONNECTIONS TO ALL NEW PLUMBING FIXTURES AS SHOWN.
   - 7.3. ROUGH-IN AND FINAL CONNECTIONS TO ALL NEW PLUMBING FIXTURES.
   - 7.4. ALL NECESSARY HANGERS AND INCIDENTALS AS REQUIRED TO MAKE EACH SYSTEM COMPLETE.
   - 7.5. CONTRACTOR SHALL PROVIDE AND INSTALL 1" THICK FACED FIBERGLASS PIPE INSULATION ON ALL NEW HOT & COLD WATER PIPING.
   - 7.6. PERFORM ALL TEST AND ADJUSTMENT TO ALL SYSTEMS UNDER THIS CONTRACT AND DOCUMENT SAME TO PROVE PROPER OPERATION TO OWNER AND THE ENGINEER.
8. RUN VENT PIPING WITH LONG TURN ELBOWS AT CHANGES IN DIRECTION, GRADE TO DRAIN OUT OF CONDENSATION AND CONNECT AT BASE TO PREVENT ACCUMULATION OF RUST.
9. PROVIDE CLEAN OUTS (FULL SIZE UP TO 4" AND AT LEAST 4"~ HALF-SIZE FOR LARGER PIPE) WHERE INDICATED.
10. 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. VENT PIPING SHALL BE NO HUB CAST IRON.
11. PIPE INSULATION SHALL BE AS FOLLOWS:

FOR PIPING	1-1/2" and BELOW	1-1/2" and ABOVE
HOT & TEMPERED WATER	1"	1-1/2"
COLD WATER	1/2"	1"

12. ALL WORK SHALL BE PROPERLY TESTED AND CLEANED. PROVIDE ONE YEAR WARRANTY FROM DATE OF ENGINEER'S ACCEPTANCE ON ALL PARTS AND LABOR.
13. RUN ALL WATER AND WASTE LINES IN GENERAL LOCATIONS SHOWN BUT CONFORM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATIONS.
14. ALL WATER LINES IN EXTERIOR WALL SHOULD BE BETWEEN INSULATION AND INTERIOR OF WALL.
15. ALL CONCRETE FLOOR OR WALL CUTTING AND PATCHING BY PLUMBING CONTRACTOR.
16. WHERE DISSIMILAR METALS ARE CONNECTED, PROVIDE AN APPROVED MAKE OF NON-GALVANIC ISOLATOR, DIELECTRIC UNION OR FLANGES.
17. ALL VERTICAL ENCLOSURES AND CHASES FOR PIPING BY G.C. UNLESS OTHERWISE NOTED.
18. ALL PLUMBING PIPING PENETRATIONS THROUGH FIRE RATED WALL OR FLOOR ASSEMBLIES SHALL BE FIRE-STOPPED WITH "METACAULK 1000" FIRE RESISTANT CAULKING (3.4" DEPTH SIDES OF PENETRATION). SEE SPEC. SECTION 15050A, 2.15 & 3.12.

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 15A 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 "LEADFREE" 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, AND NYSED GUIDELINES OF LESS THAN 15PPB.
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.

CONTRACTOR ABBREVIATION LEGEND

G.C	GENERAL CONSTRUCTION CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
A.C.	ASBESTOS ABATEMENT CONTRACTOR

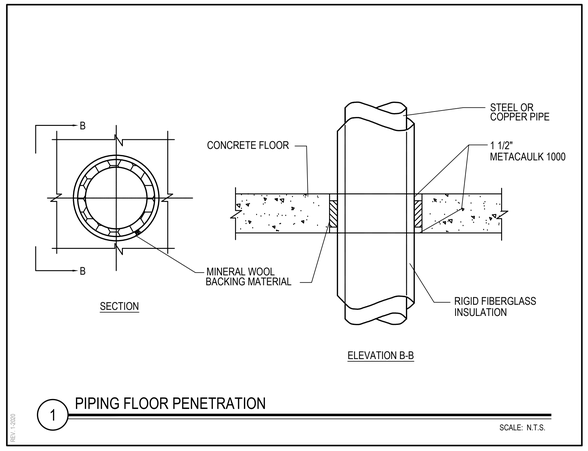
EXISTING PLUMBING PIPING FIELD VERFITICATION NOTES:

1. PLUMBING CONTRACTOR (P.C.) 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 RECIRCULATION LINES
   4. SANITARY WASTE LINES
   5. VENT LINES

PLUMBING DEMOLITION NOTES:

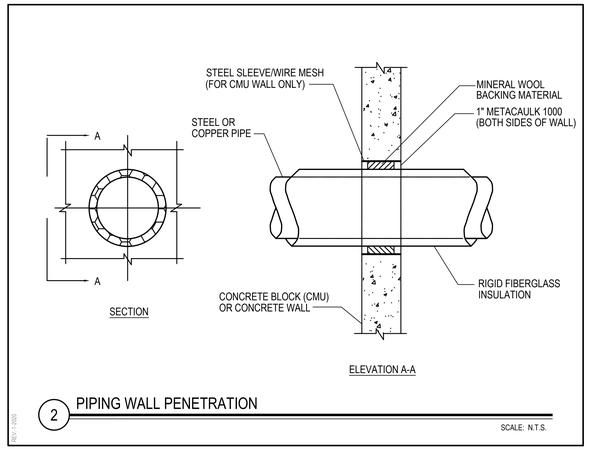
FOR PLUMBING FIXTURES TO BE REMOVED AND NOT REPLACED IN ORIGINAL LOCATION - P.C. TO REMOVE EXISTING PLUMBING ROUGH-INS, PIPING ETC. BACK TO POINT OF CONCEALMENT WITHIN OR BEHIND WALLS, BELOW FLOORS OR ABOVE CEILING TO MAIN BRANCHES, STACKS OR RISER AS REQUIRED TO ELIMINATE DEAD-END PIPING RUNS LONGER THAN 1'-0".

FOR PUMBING FIXTURES TO BE REMOVED AND REPLACED WITH NEW OF SIMILAR TYPE, THE P.C. SHALL DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE AND MAINTAIN OR MODIFY EXISTING PLUMBINGS ROUGH-INS, PIPING ETC. AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW PUMBING FIXTURE.



1 PIPING FLOOR PENETRATION

SCALE: N.T.S.



2 PIPING WALL PENETRATION

SCALE: N.T.S.

REV.	DATE	ITEM

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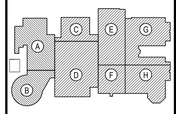

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

PLUMBING
GENERAL NOTES, LEGENDS, AND SCHEDULES

DRAWING BY: Z.M.Z.

CHECK BY:

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LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

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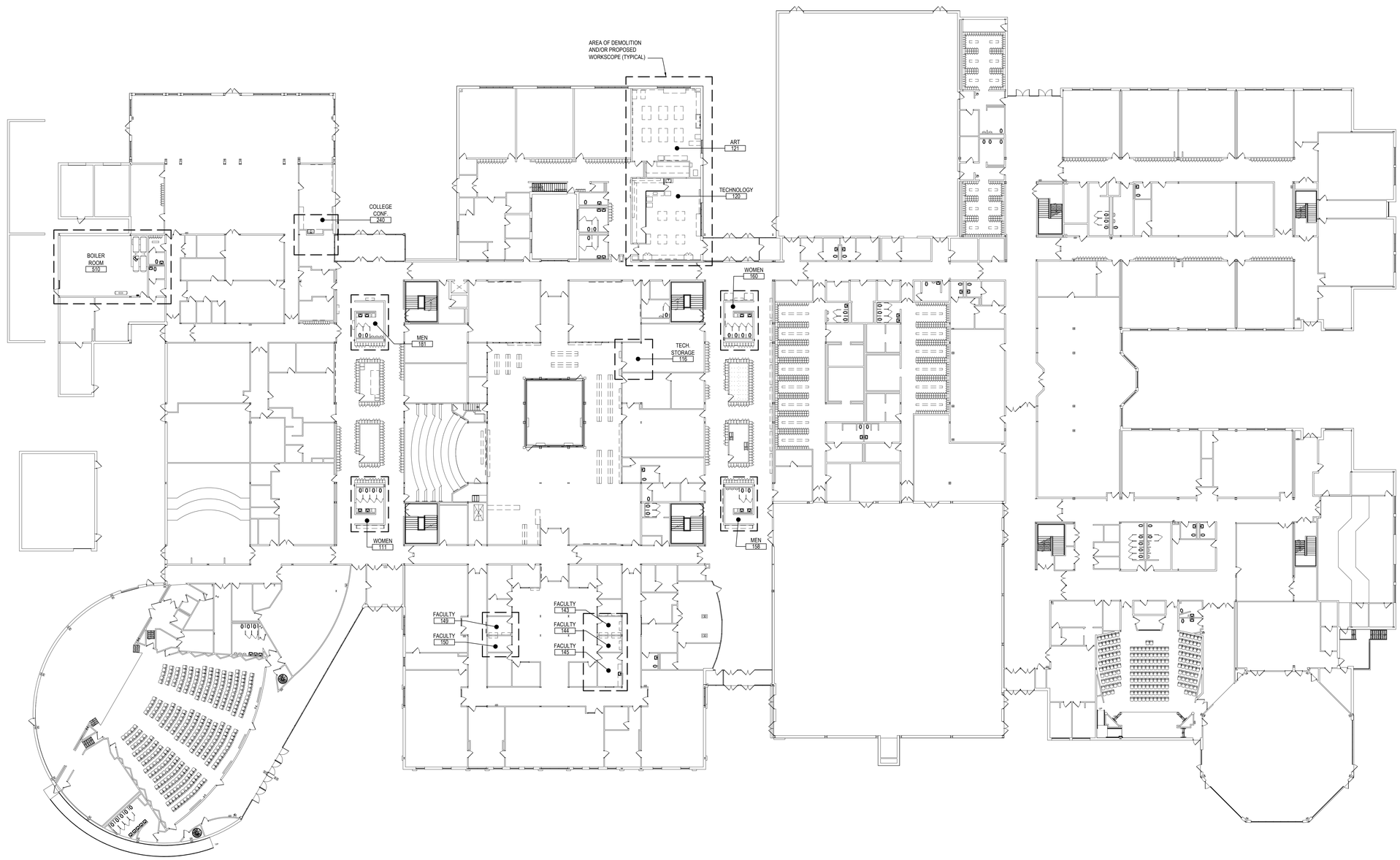
SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	GENERAL NOTES, LEGENDS AND SCHEDULES
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

P0.01 | HSMS



BUILDING DEMOLITION/PROPOSED WORK KEY PLAN

NOTE: AT BRIARCLIFF MANOR HIGH SCHOOL AND MIDDLE SCHOOL

SCALE: NOT TO SCALE

REV.	DATE	ITEM

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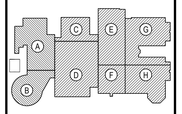

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

PLUMBING
BUILDING KEY PLAN

DWG TITLE

DRAWING BY: ZMZ

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NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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ALBANY
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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE BUILDING KEY PLAN

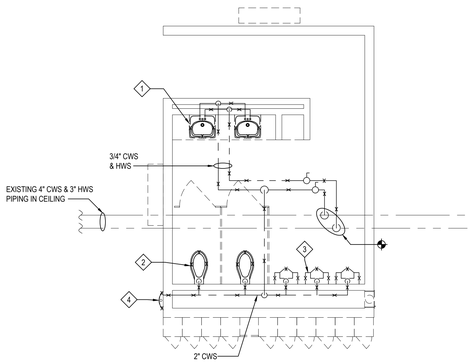
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

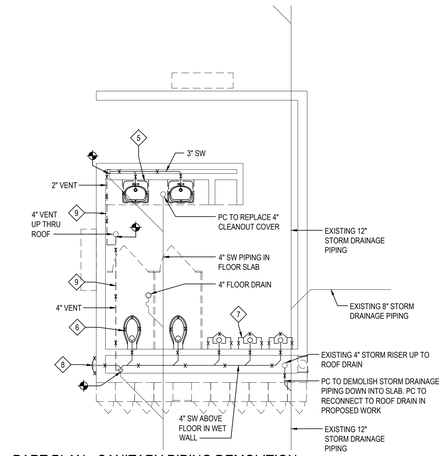
FILE No: 21-274C

P0.02 | HSMS



PART PLAN - DOMESTIC PIPING DEMOLITION

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

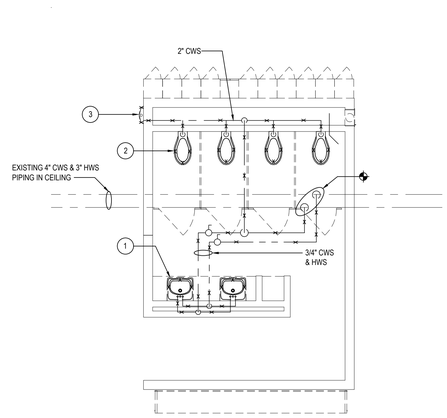


PART PLAN - SANITARY PIPING DEMOLITION

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

PLUMBING DEMOLITION KEY NOTES

1. PC TO DEMOLISH AND REMOVE EXISTING LAVATORY (TYPICAL OF TWO IN TOILET ROOM) AND DISCONNECT ASSOCIATED 3/4" CWS AND HWS PIPING FROM FIXTURE BACK TO MAIN AS SHOWN.
2. PC TO DEMOLISH AND REMOVE WALL MOUNTED WATER CLOSET (TYP. OF TWO IN ROOM) AND DISCONNECT ASSOCIATED CWS PIPING BACK TO MAIN AS SHOWN.
3. PC TO DEMOLISH AND REMOVE WALL MOUNTED URINAL (TYP. OF THREE IN ROOM) AND DISCONNECT ASSOCIATED CWS PIPING BACK TO MAIN AS SHOWN.
4. PC TO DEMOLISH AND REMOVE RECESSED WATER FOUNTAIN AND DISCONNECT ASSOCIATED CWS PIPING BACK TO MAIN AS SHOWN.
5. PC TO DEMOLISH AND REMOVE EXISTING LAVATORY (TYPICAL OF TWO IN TOILET ROOM) AND DISCONNECT ASSOCIATED 3" SW PIPING BACK TO FLOOR.
6. PC TO DEMOLISH AND REMOVE WALL MOUNTED WATER CLOSET (TYP. OF TWO IN ROOM) AND DISCONNECT ASSOCIATED SW PIPING BACK TO MAIN AS SHOWN.
7. PC TO DEMOLISH AND REMOVE WALL MOUNTED URINAL (TYP. OF THREE IN ROOM) AND DISCONNECT ASSOCIATED SW PIPING BACK TO MAIN AS SHOWN.
8. PC TO DEMOLISH AND REMOVE RECESSED WATER FOUNTAIN AND DISCONNECT ASSOCIATED SW PIPING BACK TO MAIN AS SHOWN.
9. PC TO DEMOLISH AND REMOVE EXISTING VENT PIPING HEADER IN CEILING AS SHOWN UP TO POINT OF RISER. EXISTING RISER TO ROOF TO REMAIN IN PLACE



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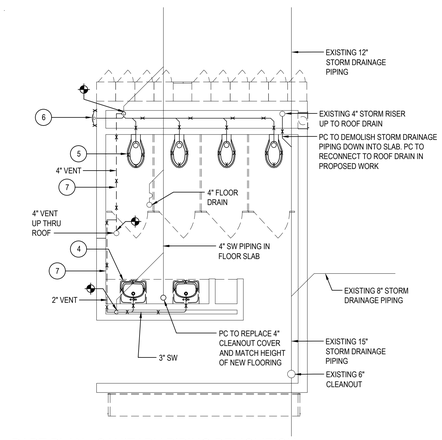

PART PLAN - SANITARY PIPING DEMOLITION

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4. PC TO DEMOLISH AND REMOVE EXISTING LAVATORY (TYPICAL OF TWO IN TOILET ROOM) AND DISCONNECT ASSOCIATED SW PIPING FROM FIXTURE BACK TO FLOOR AS SHOWN.
5. PC TO DEMOLISH AND REMOVE WALL MOUNTED WATER CLOSET (TYP. OF FOUR IN ROOM) AND DISCONNECT ASSOCIATED SW PIPING BACK TO FLOOR AS SHOWN.
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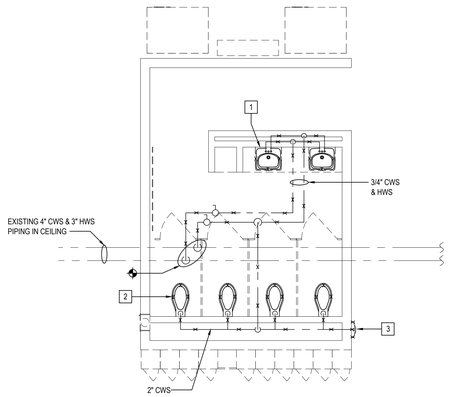
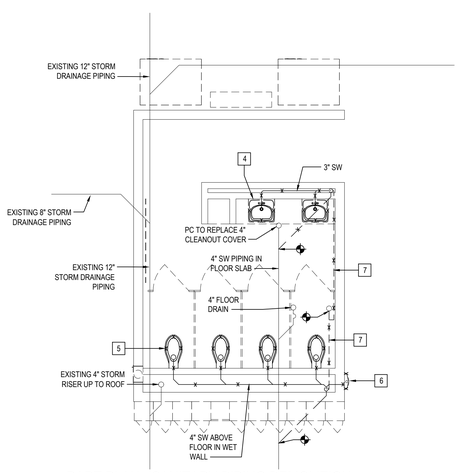
7. PC TO DEMOLISH AND REMOVE EXISTING VENT PIPING HEADER IN CEILING AS SHOWN UP TO POINT OF RISER. EXISTING RISER TO ROOF TO REMAIN IN PLACE



PART PLAN - DOMESTIC PIPING DEMOLITION

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

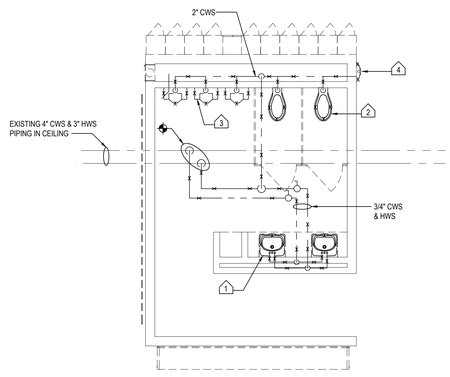


PART PLAN - SANITARY PIPING DEMOLITION

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

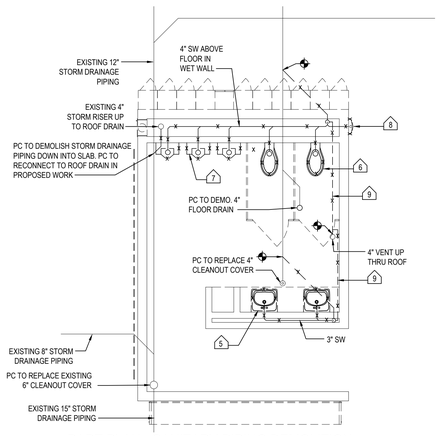
PLUMBING DEMOLITION KEY NOTES

1. PC TO DEMOLISH AND REMOVE EXISTING LAVATORY (TYPICAL OF TWO IN TOILET ROOM) AND DISCONNECT ASSOCIATED CWS AND HWS PIPING FROM FIXTURE BACK TO MAIN AS SHOWN.
2. PC TO DEMOLISH AND REMOVE WALL MOUNTED WATER CLOSET (TYP. OF FOUR IN ROOM) AND DISCONNECT ASSOCIATED CWS PIPING BACK TO MAIN AS SHOWN.
3. PC TO DEMOLISH AND REMOVE RECESSED WATER FOUNTAIN AND DISCONNECT ASSOCIATED CWS PIPING BACK TO MAIN AS SHOWN.
4. PC TO DEMOLISH AND REMOVE EXISTING LAVATORY (TYPICAL OF TWO IN TOILET ROOM) AND DISCONNECT ASSOCIATED SW PIPING BACK TO FLOOR LEVEL.
5. PC TO DEMOLISH AND REMOVE WALL MOUNTED WATER CLOSET (TYP. OF FOUR IN ROOM) AND DISCONNECT ASSOCIATED SW PIPING BACK TO MAIN AS SHOWN.
6. PC TO DEMOLISH AND REMOVE RECESSED WATER FOUNTAIN AND DISCONNECT ASSOCIATED SW PIPING BACK TO MAIN AS SHOWN.
7. PC TO DEMOLISH AND REMOVE EXISTING VENT PIPING HEADER IN CEILING AS SHOWN UP TO POINT OF RISER. EXISTING RISER TO ROOF TO REMAIN IN PLACE



PART PLAN - DOMESTIC PIPING DEMOLITION

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



PART PLAN - SANITARY PIPING DEMOLITION

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

PLUMBING DEMOLITION KEY NOTES

1. PC TO DEMOLISH AND REMOVE EXISTING LAVATORY (TYPICAL OF TWO IN TOILET ROOM) AND DISCONNECT ASSOCIATED CWS AND HWS PIPING FROM FIXTURE BACK TO MAIN AS SHOWN.
2. PC TO DEMOLISH AND REMOVE WALL MOUNTED WATER CLOSET (TYP. OF TWO IN ROOM) AND DISCONNECT ASSOCIATED CWS PIPING BACK TO MAIN AS SHOWN.
3. PC TO DEMOLISH AND REMOVE WALL MOUNTED URINAL (TYP. OF THREE IN ROOM) AND DISCONNECT ASSOCIATED CWS PIPING BACK TO MAIN AS SHOWN.
4. PC TO DEMOLISH AND REMOVE RECESSED WATER FOUNTAIN AND DISCONNECT ASSOCIATED CWS PIPING BACK TO MAIN AS SHOWN.
5. PC TO DEMOLISH AND REMOVE EXISTING LAVATORY (TYPICAL OF TWO IN TOILET ROOM) AND DISCONNECT ASSOCIATED SW PIPING BACK TO FLOOR LEVEL.
6. PC TO DEMOLISH AND REMOVE WALL MOUNTED WATER CLOSET (TYP. OF TWO IN ROOM) AND DISCONNECT ASSOCIATED SW PIPING BACK TO MAIN AS SHOWN.
7. PC TO DEMOLISH AND REMOVE WALL MOUNTED URINAL (TYP. OF THREE IN ROOM) AND DISCONNECT ASSOCIATED SW PIPING BACK TO MAIN AS SHOWN.
8. PC TO DEMOLISH AND REMOVE RECESSED WATER FOUNTAIN AND DISCONNECT ASSOCIATED SW PIPING BACK TO MAIN AS SHOWN.
9. PC TO DEMOLISH AND REMOVE EXISTING VENT PIPING HEADER IN CEILING AS SHOWN UP TO POINT OF RISER. EXISTING RISER TO ROOF TO REMAIN IN PLACE

REV.	DATE	ITEM

NOTICE

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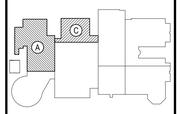

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

PLUMBING
FIRST FLOOR DEMOLITION

DWG TITLE

DRAWING BY: Z.M.Z.

CHECK BY: F.S.

NOTICE

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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PLUMBING
FIRST FLOOR DEMOLITION

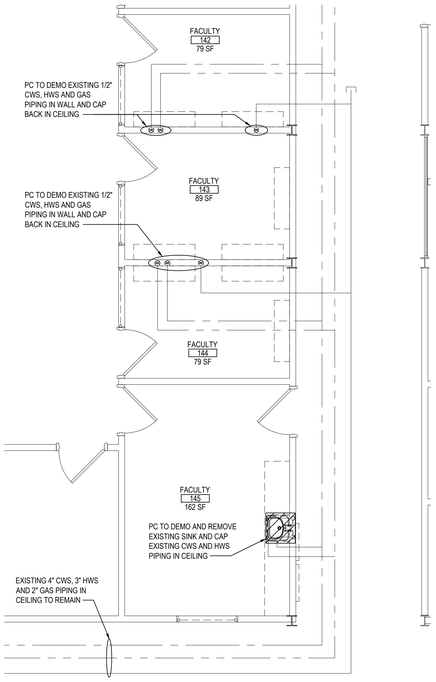
SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

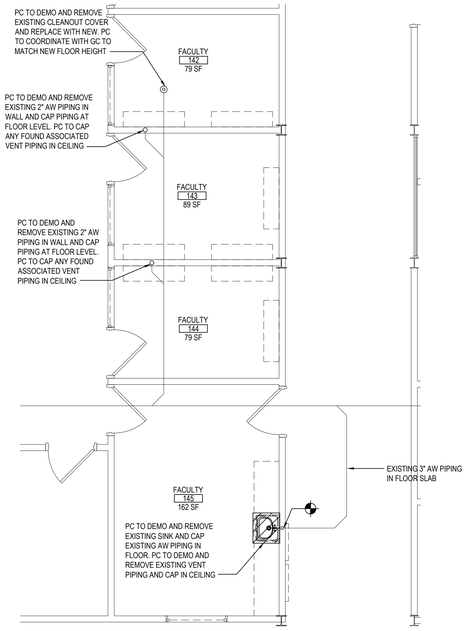
FILE No: 21-274C

P1.01 | HSMS



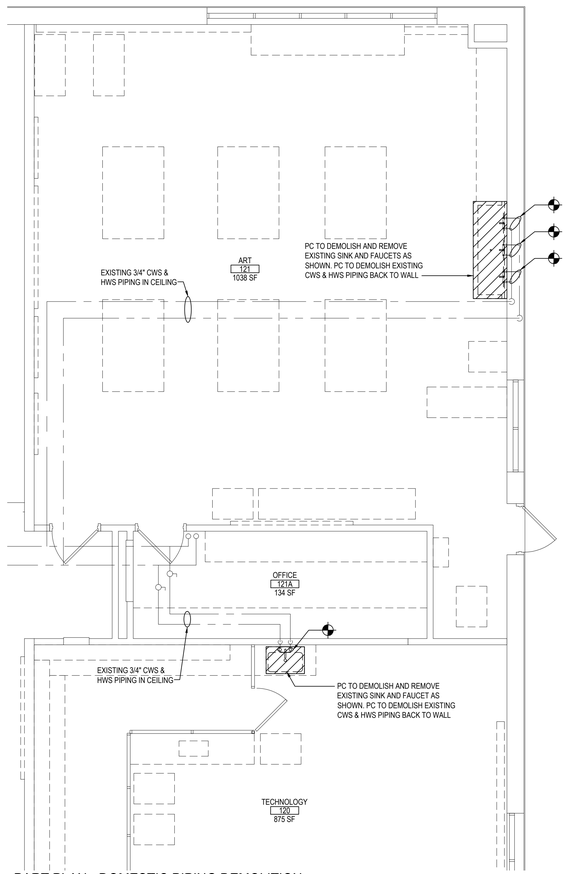
PART PLAN - DOMESTIC & GAS PIPING DEMOLITION

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



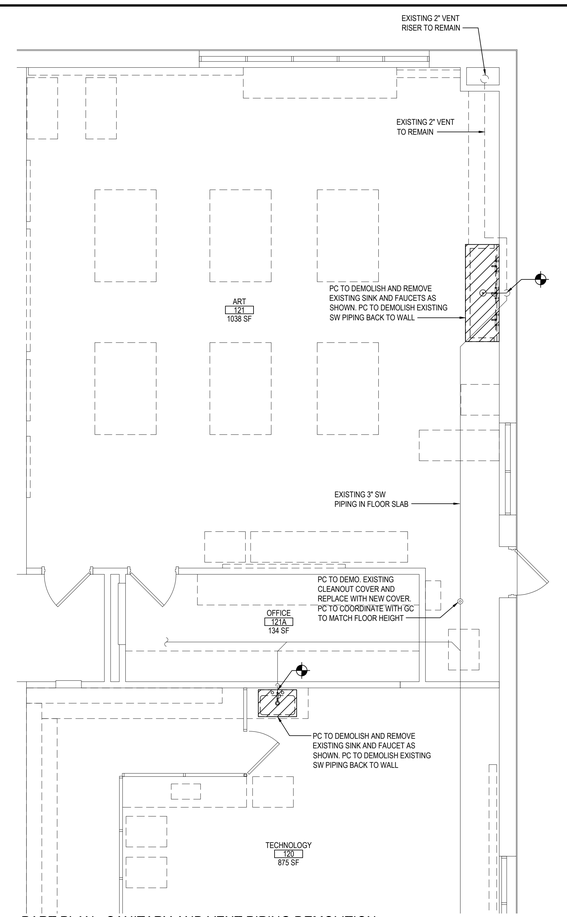
PART PLAN - SANITARY PIPING DEMOLITION

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



PART PLAN - DOMESTIC PIPING DEMOLITION

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



PART PLAN - SANITARY AND VENT PIPING DEMOLITION

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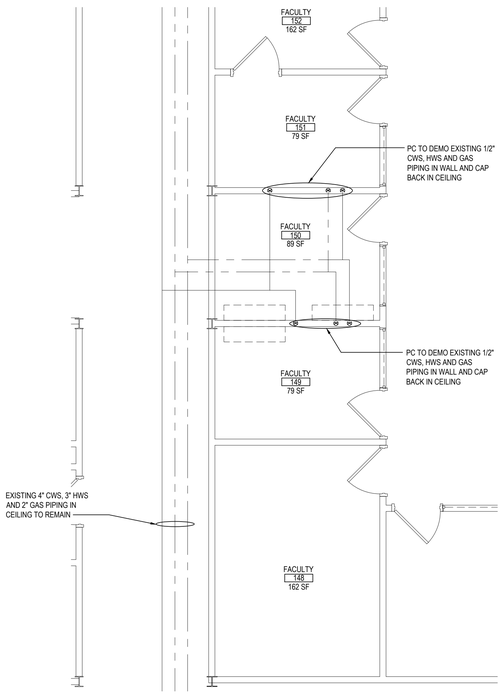
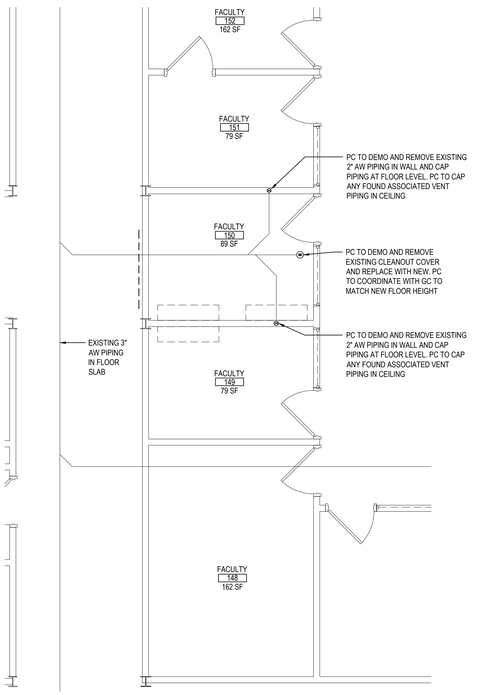


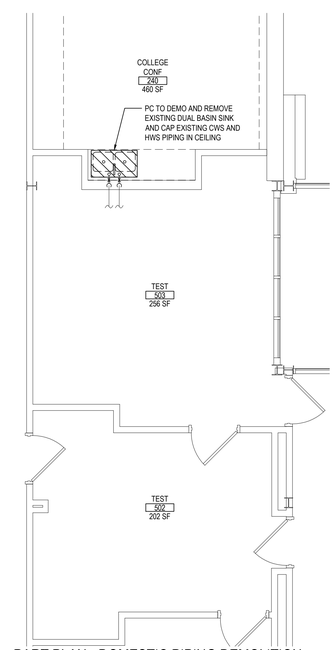
PART PLAN - DOMESTIC & GAS PIPING DEMOLITION

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



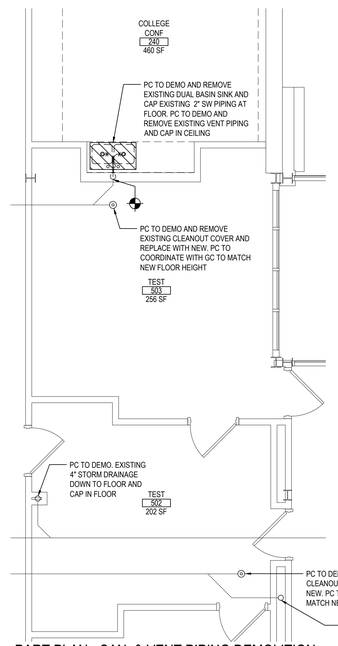
PART PLAN - SANITARY AND VENT PIPING DEMOLITION

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



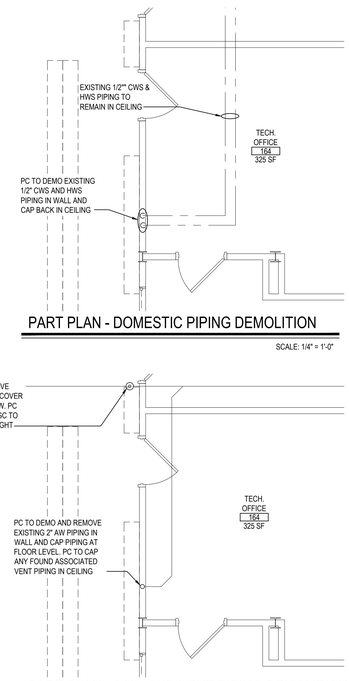
PART PLAN - DOMESTIC PIPING DEMOLITION

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



PART PLAN - SAN. & VENT PIPING DEMOLITION

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



PART PLAN - DOMESTIC PIPING DEMOLITION

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

PART PLAN - SAN. AND VENT PIPING DEMOLITION

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

REV.	DATE	ITEM

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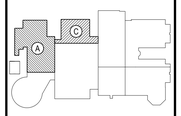

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

PLUMBING
FIRST FLOOR DEMOLITION CONTINUED

DWG TITLE

DRAWING BY: Z.M.Z.

CHECK BY: F.S.

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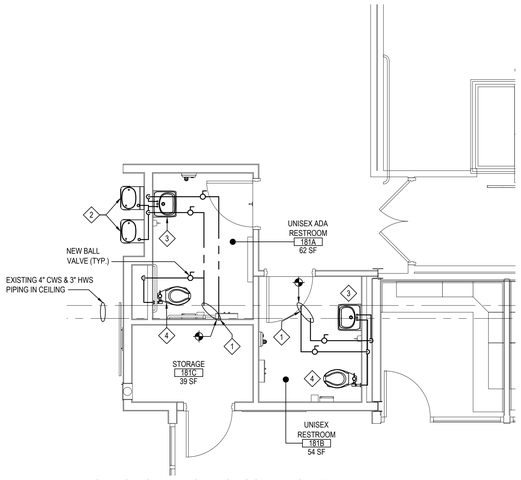
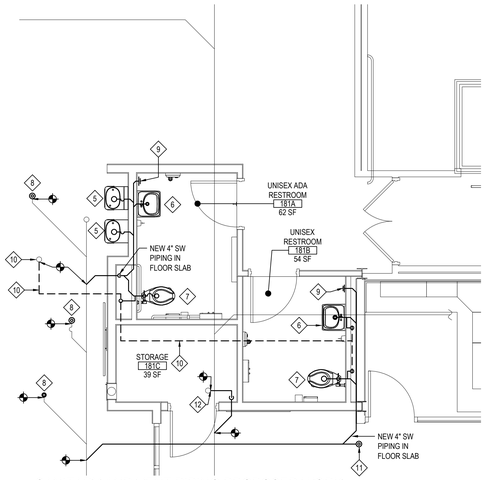
SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	PLUMBING FIRST FLOOR DEMO. CONT.
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

P1.02 | HSMS



DOMESTIC PIPING PROPOSED WORK

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

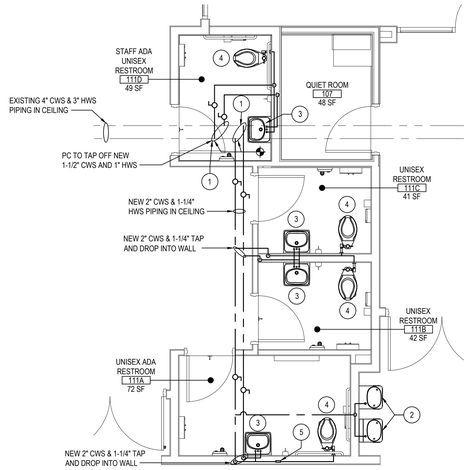


SANITARY AND VENT PIPING PROPOSED WORK

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

PLUMBING PROPOSED WORK KEY NOTES

1. PC TO TAP OFF OF EXISTING 4" CWS AND 3" HWS AND INSTALL NEW 1-1/2" CWS AND 1" HWS PIPING AND RUN INTO WET WALL AND DOWN AS SHOWN.
2. PC TO FURNISH AND INSTALL NEW ADA DRINKING FOUNTAIN (P-1) AND NEW BOTTLE FILLING STATION (P-9) ON WALL AS SHOWN. PC TO SUPPLY FOUNTAIN AND BOTTLE FILLING STATION WITH 3/4" CWS PIPING.
3. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 3/4" CWS AND HWS PIPING FROM WET WALL AND CONNECT TO FIXTURE.
4. PC TO FURNISH AND INSTALL NEW WALL MOUNTED WATER CLOSET (P-3) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 1-1/2" CWS PIPING TO FIXURE AND ASSOCIATED FLUSHOMETER.
5. PC TO FURNISH AND INSTALL NEW ADA DRINKING FOUNTAIN (P-1) AND NEW BOTTLE FILLING STATION (P-9) ON WALL AS SHOWN. PC TO RUN NEW 4" SW PIPING IN WET WALL AND CONNECT FIXTURES TO PIPING WITH A 2-1/2" SW PIPING. PC TO ALSO RUN NEW 2" VENT PIPING AND CONNECT TO NEW 2" HEADER IN WET WALL AS SHOWN.
6. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 2-1/2" SW PIPING AND CONNECT TO NEW 4" SW PIPING IN WET WALL. PC TO RUN NEW 2" VENT FROM FIXTURE AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
7. PC TO FURNISH AND INSTALL NEW WALL MOUNTED WATER CLOSET (P-3) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 4" SW PIPING AND CONNECT TO NEW 4" SW PIPING IN WET WALL. PC TO RUN NEW 2" VENT FROM FIXTURE AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
8. PC TO FURNISH AND INSTALL NEW DECK PLATE CLEAN OUT (P-4) IN PLACE OF EXISTING OPENING IN 4" SW PIPING IN SLAB.
9. PC TO FURNISH AND INSTALL NEW WALL PLATE CLEAN OUT (P-5) IN TOILET ROOM AS SHOWN.
10. PC TO RUN NEW 2" VENT PIPING IN CEILING AND CONNECT TO EXISTING 3" VENT RISER TO ROOF.
11. PC TO FURNISH AND INSTALL NEW DECK PLATE CLEAN OUT (P-4) IN NEW 4" SW PIPING IN SLAB.
12. PC TO CONNECT NEW 4" STORM DRAINAGE PIPING TO EXISTING ROOF DRAIN AND RUN INTO ROOM CORNER AND DOWN INTO SLAB AND CONNECT TO EXISTING 12" STORM DRAINAGE PIPING.



DOMESTIC PIPING PROPOSED WORK

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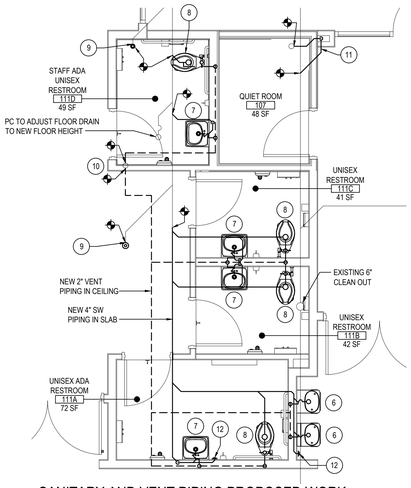
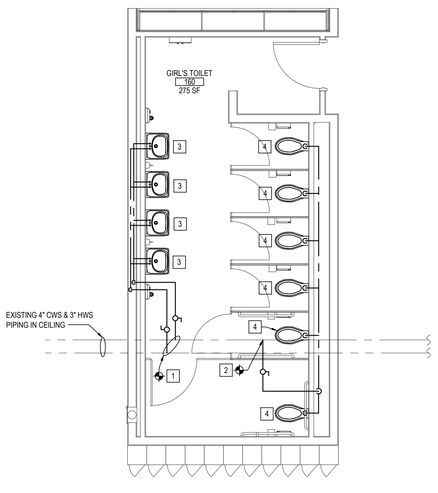


SANITARY AND VENT PIPING PROPOSED WORK

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

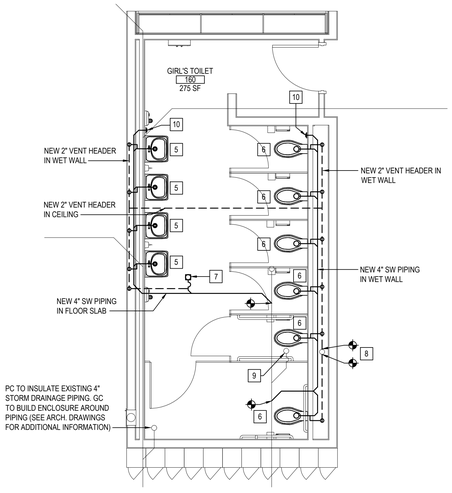
PLUMBING PROPOSED WORK KEY NOTES

1. PC TO TAP OFF OF EXISTING 4" CWS AND 3" HWS AND INSTALL NEW 2" CWS AND 1-1/4 HWS PIPING AND RUN INTO WET WALL AND DOWN AS SHOWN.
2. PC TO FURNISH AND INSTALL NEW ADA DRINKING FOUNTAIN (P-1) AND NEW BOTTLE FILLING STATION (P-9) ON WALL AS SHOWN. PC TO SUPPLY FOUNTAIN AND BOTTLE FILLING STATION WITH 3/4" CWS PIPING.
3. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 3/4" CWS AND HWS PIPING FROM WET WALL AND CONNECT TO FIXTURE.
4. PC TO FURNISH AND INSTALL NEW FLOOR MOUNTED WATER CLOSET (P-9) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 1-1/2" CWS PIPING TO FIXURE AND ASSOCIATED FLUSHOMETER.
5. PC TO FURNISH AND INSTALL NEW WATER HAMMER ARRESTOR (P-8) ON NEW 2" CWS PIPING BETWEEN LAVATORY AND WATER CLOSET.
6. PC TO FURNISH AND INSTALL NEW ADA DRINKING FOUNTAIN (P-1) AND NEW BOTTLE FILLING STATION (P-9) ON WALL AS SHOWN. PC TO RUN NEW 4" SW PIPING IN WET WALL AND CONNECT FIXTURES TO PIPING WITH A 2-1/2" SW PIPING. PC TO ALSO RUN NEW 2" VENT PIPING AND CONNECT TO NEW 2" HEADER IN WET WALL AS SHOWN.
7. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 2-1/2" SW PIPING AND CONNECT TO NEW 4" SW PIPING IN WET WALL. PC TO RUN NEW 2" VENT FROM FIXTURE AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
8. PC TO FURNISH AND INSTALL NEW WALL MOUNTED WATER CLOSET (P-9) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 4" SW PIPING IN FLOOR. PC TO RUN NEW 2" VENT FROM FIXTURE IN SLAB AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
9. PC TO FURNISH AND INSTALL NEW DECK PLATE CLEAN OUT (P-4) IN PLACE OF EXISTING OPENING IN 4" SW PIPING IN SLAB.
10. PC TO RUN NEW 2" VENT PIPING AND CONNECT TO EXISTING 3" VENT RISER TO ROOF.
11. PC TO CONNECT NEW 4" STORM DRAINAGE PIPING TO EXISTING ROOF DRAIN AND RUN INTO NEW CHASE AND DOWN INTO SLAB AND CONNECT TO EXISTING 12" STORM DRAINAGE PIPING (PC TO COORDINATE WITH GC FOR TRENCHING OF FLOOR SLAB).
12. PC TO FURNISH AND INSTALL NEW WALL PLATE CLEAN OUT (P-5) IN TOILET ROOM AS SHOWN.



DOMESTIC PIPING PROPOSED WORK

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

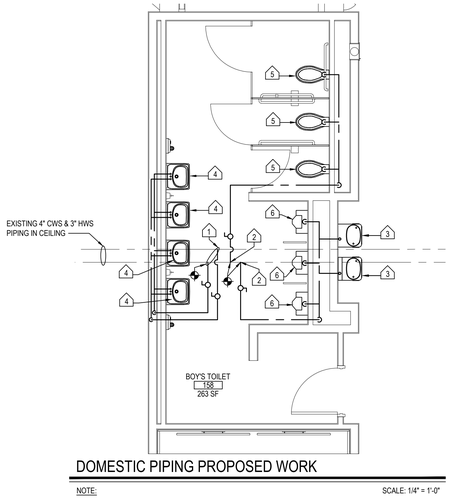


SANITARY AND VENT PIPING PROPOSED WORK

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

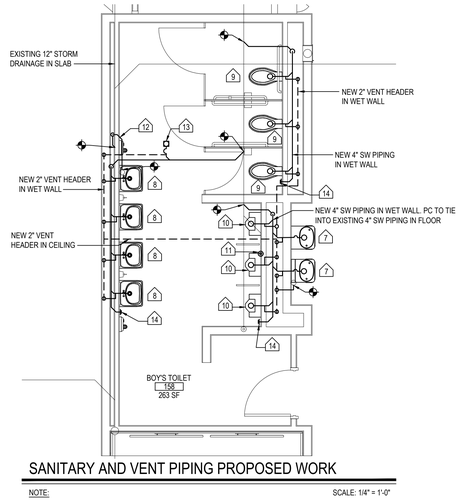
PLUMBING PROPOSED WORK KEY NOTES

1. PC TO TAP OFF OF EXISTING 4" CWS AND 3" HWS AND INSTALL NEW 1-1/2" CWS AND 1-1/4 HWS PIPING AND RUN INTO WET WALL AND DOWN AS SHOWN.
2. PC TO TAP OFF OF EXISTING 4" CWS AND INSTALL NEW 2-1/2" CWS PIPING AND RUN INTO WET WALL AND DOWN AS SHOWN.
3. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 3/4" CWS AND HWS PIPING FROM WET WALL AND CONNECT TO FIXTURE.
4. PC TO FURNISH AND INSTALL NEW WALL MOUNTED WATER CLOSET (P-3) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 1-1/2" CWS PIPING TO FIXURE AND ASSOCIATED FLUSHOMETER.
5. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 2-1/2" SW PIPING AND CONNECT TO NEW 4" SW PIPING IN WET WALL. PC TO RUN NEW 2" VENT FROM FIXTURE AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
6. PC TO FURNISH AND INSTALL NEW WALL MOUNTED WATER CLOSET (P-3) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 4" SW PIPING AND CONNECT TO NEW 4" SW PIPING IN WET WALL. PC TO RUN NEW 2" VENT FROM FIXTURE AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
7. PC TO FURNISH AND INSTALL NEW 4" FLOOR DRAIN (P-6) IN FLOOR AND RUN NEW 4" SW PIPING IN SLAB AND CONNECT TO EXISTING 4" SW. PC TO RUN NEW 2" VENT FROM FLOOR DRAIN AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
8. PC TO RUN NEW 2" VENT PIPING AND CONNECT TO EXISTING 3" VENT RISER TO ROOF.
9. EXISTING FLOOR DRAIN TO REMAIN IN PLACE. PC TO ADJUST BASED ON NEW FLOOR HEIGHT.
10. PC TO FURNISH AND INSTALL NEW WALL PLATE CLEAN OUT (P-5) IN TOILET ROOM AS SHOWN.



DOMESTIC PIPING PROPOSED WORK

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



SANITARY AND VENT PIPING PROPOSED WORK

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

PLUMBING PROPOSED WORK KEY NOTES

1. PC TO TAP OFF OF EXISTING 4" CWS AND 3" HWS AND INSTALL NEW 1-1/2" CWS AND 1-1/4 HWS PIPING AND RUN INTO WET WALL AND DOWN AND SHOWN.
2. PC TO TAP OFF OF EXISTING 4" CWS AND INSTALL NEW 2" CWS PIPING AND RUN INTO WET WALL AND DOWN AS SHOWN.
3. PC TO FURNISH AND INSTALL NEW ADA DRINKING FOUNTAIN (P-1) AND NEW BOTTLE FILLING STATION (P-9) ON WALL AS SHOWN. PC TO SUPPLY FOUNTAIN AND BOTTLE FILLING STATION WITH 3/4" CWS PIPING.
4. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 3/4" CWS AND HWS PIPING FROM WET WALL AND CONNECT TO FIXTURE.
5. PC TO FURNISH AND INSTALL NEW WALL MOUNTED WATER CLOSET (P-3) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 1-1/2" CWS PIPING TO FIXURE AND ASSOCIATED FLUSHOMETER.
6. PC TO FURNISH AND INSTALL NEW WALL MOUNTED URINAL (P-7) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 1-1/4" CWS PIPING TO FIXURE AND ASSOCIATED FLUSHOMETER.
7. PC TO FURNISH AND INSTALL NEW ADA DRINKING FOUNTAIN (P-1) AND NEW BOTTLE FILLING STATION (P-9) ON WALL AS SHOWN. PC TO RUN NEW 4" SW PIPING IN WET WALL AND CONNECT FIXTURES TO PIPING WITH A 2-1/2" SW PIPING. PC TO ALSO RUN NEW 2" VENT PIPING AND CONNECT TO NEW 2" HEADER IN WET WALL AS SHOWN.
8. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 2-1/2" SW PIPING AND CONNECT TO NEW 4" SW PIPING IN WET WALL. PC TO RUN NEW 2" VENT FROM FIXTURE AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
9. PC TO FURNISH AND INSTALL NEW WALL MOUNTED WATER CLOSET (P-3) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 4" SW PIPING AND CONNECT TO NEW 4" SW PIPING IN WET WALL. PC TO RUN NEW 2" VENT FROM FIXTURE AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
10. PC TO FURNISH AND INSTALL NEW WALL MOUNTED URINAL (P-7) AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 4" SW PIPING IN WET WALL AND CONNECT FIXTURE TO PIPING WITH A 2" SW PIPING. PC TO ALSO RUN NEW 2" VENT PIPING AND CONNECT TO NEW 2" HEADER IN WET WALL AS SHOWN.
11. PC TO COVER EXISTING FLOOR DRAIN WITH DECK PLATE CLEANOUT (P-4)
12. PC TO CONNECT NEW 4" STORM DRAINAGE PIPING TO EXISTING ROOF DRAIN AND RUN INTO WET WALL AND DOWN INTO SLAB AND CONNECT TO EXISTING 12" STORM DRAINAGE PIPING.
13. PC TO FURNISH AND INSTALL NEW 4" FLOOR DRAIN (P-6) IN FLOOR AND RUN NEW 4" SW PIPING IN SLAB AND CONNECT TO EXISTING 4" SW. PC TO RUN NEW 2" VENT FROM FLOOR DRAIN AND CONNECT TO NEW 2" VENT HEADER IN WET WALL.
14. PC TO FURNISH AND INSTALL NEW WALL PLATE CLEAN OUT (P-5) IN TOILET ROOM AS SHOWN.

REV.	DATE	ITEM

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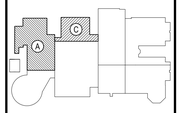

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

PLUMBING
FIRST FLOOR PROPOSED WORK

DRAWING BY: Z.M.Z.

CHECK BY: F.S.

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LANDSCAPE ARCHITECTS
ENGINEERS

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PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

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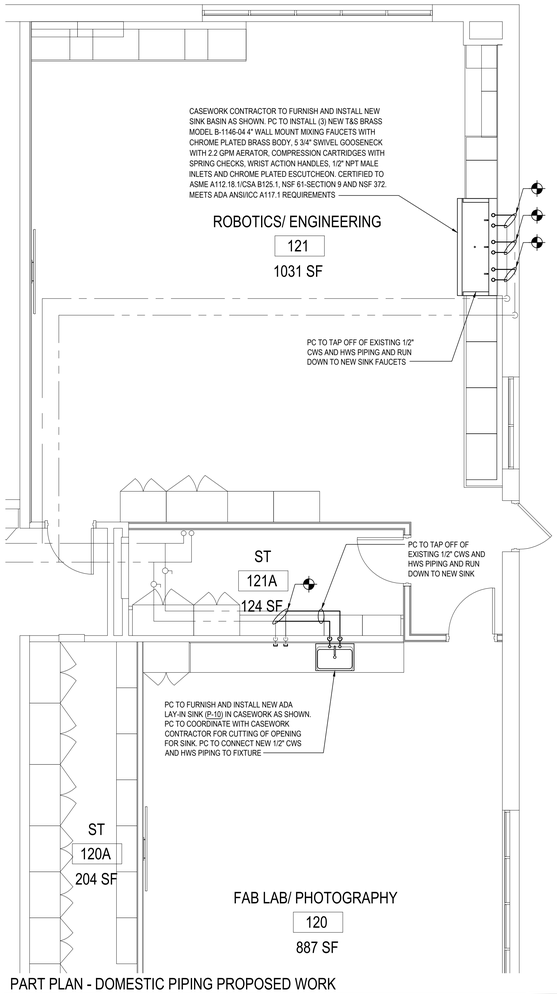
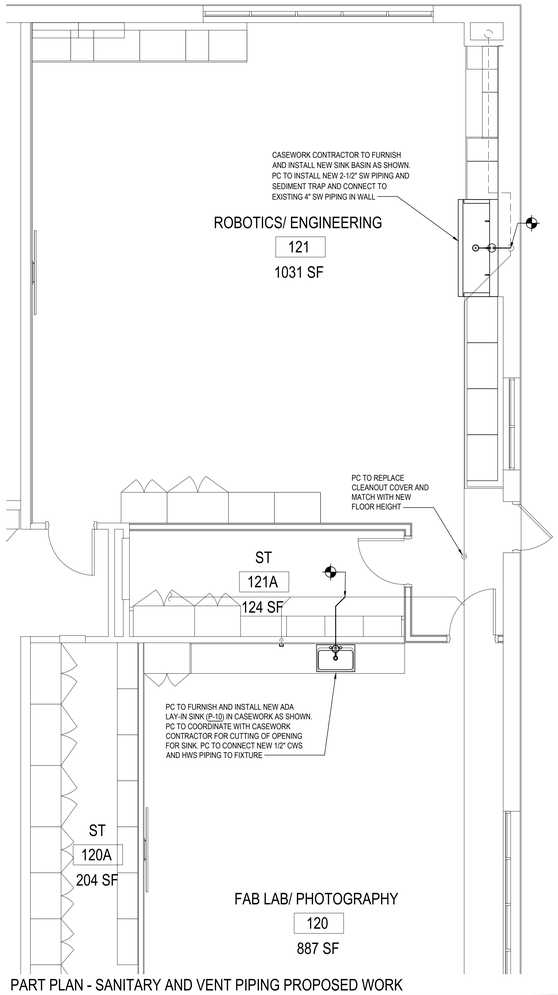
SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	PLUMBING FIRST FLOOR PROPOSED WORK
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

P2.01 HSMS



PART PLAN - DOMESTIC PIPING PROPOSED WORK

NOTE: AT BRIARCLIFF MANOR HIGH SCHOOL — SCALE: 1/4" = 1'-0"

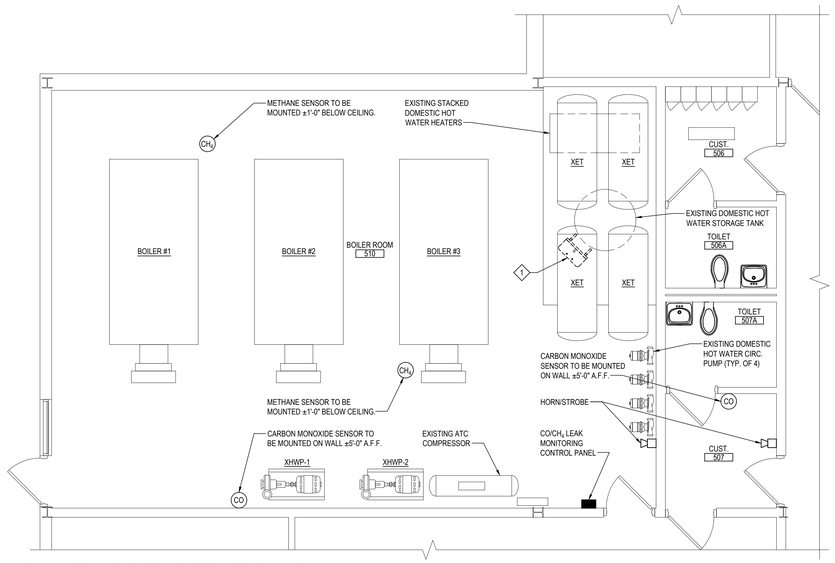


PART PLAN - SANITARY AND VENT PIPING PROPOSED WORK

NOTE: AT BRIARCLIFF MANOR HIGH SCHOOL — SCALE: 1/4" = 1'-0"

PLUMBING NEW WORK KEYED NOTES:

1. P.C. TO INSTALL A NEW STAND ALONE EMERGENCY EYEWASH STATION MOUNTED TO FREESTANDING KINDORF FRAME ANCHORED TO EXISTING HOUSEKEEPING PAD. NEW EYEWASH STATION SHALL BE MOUNTED 33" FROM FINISH FLOOR TO THE TOP OF EYEWASH FAUCETS FROM WHICH TEPID WATER COMES OUT. REFER TO INSTALLATION MANUAL. NEW EMERGENCY EYEWASH STATION SHALL BE A BRADLEY MODEL S19-921 ON-SITE GRAVITY FED EYEWASH STATION.
SPECIFICATION: SELF-CONTAINED EYEWASH UNIT SHALL HAVE THE ABILITY TO FLUSH EYES FOR 15 MINUTES AT A MINIMUM OF 0.4 GALLONS PER MINUTE BY USING 7 GALLONS OF WATER. TRANSPARENT TANK ASSEMBLY SHALL BE INCLUDED WHICH ALLOWS USER TO SEE AT A GLANCE WHEN IT IS TIME TO CLEAN OR RE-FILL THE TANK. THE STATION SHALL HAVE A STURDY PEDESTAL WITH HINGED EYEWASH TRAY THAT SHALL PULL DOWN IN ONE QUICK MOTION. THE TANK SHALL BE REMOVABLE AND SHALL BE INVERTED ONTO PEDESTAL, PIERCING A LINER. STAINLESS CLAMPS SHALL BE INCLUDED TO HOLD TANK TO PEDESTAL. THE STATION SHALL HAVE AN ARM, WHICH IS PULLED DOWN TO ACTIVATE WATER FLOW. TANK IS TO BE FILLED IN ACCORDANCE TO INSTALLATION MANUAL WITH TEPID WATER.
DIMENSIONS: TANK SHALL BE 12" HEIGHT x 22" WIDTH x 9" DEPTH. PEDESTAL SHALL BE 13-1/2" HEIGHT x 22" WIDTH x 18-1/2" DEPTH. WALL BRACKET SHALL BE STAINLESS STEEL MOUNTING BRACKET THAT IS INCLUDED WITH STATION. WASTE NIPPLE SHALL BE 1/2" I.D. TUBE.



PART PLAN - DOMESTIC PIPING PROPOSED WORK

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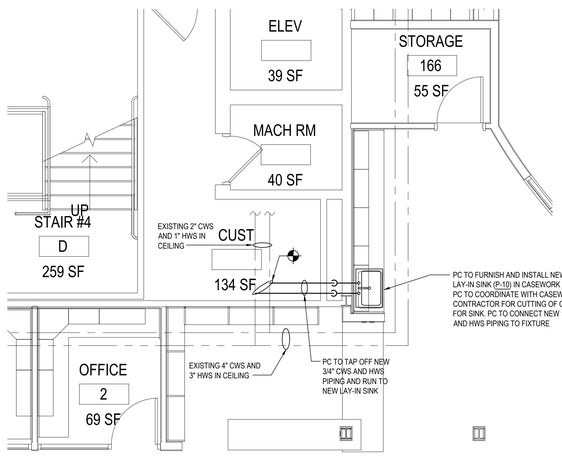

PART PLAN - DOMESTIC PIPING PROPOSED WORK

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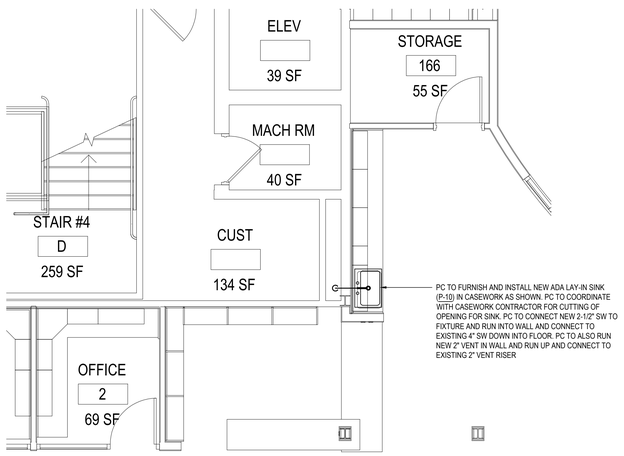

PART PLAN - SANITARY & VENT PIPING PROPOSED WORK

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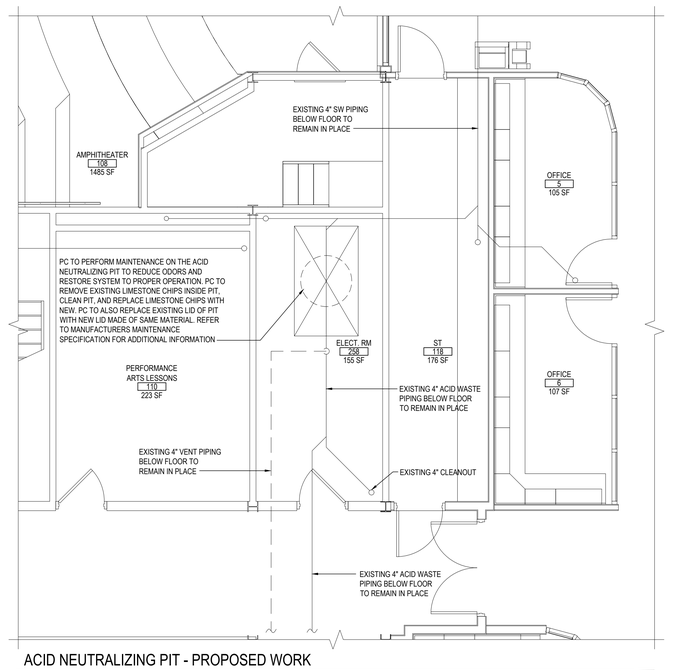

ACID NEUTRALIZING PIT - PROPOSED WORK

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REV.	DATE	ITEM

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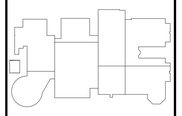

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

PLUMBING
FIRST FLOOR PROPOSED WORK CONTINUED

DWG TITLE

DRAWING BY: Z.M.Z.
CHECK BY: F.S.

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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR UFSD
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE PLUMBING FIRST FLOOR PROPOSED WORK CONT.
SCALE: AS NOTED
DATE: 7/15/22
BID PICK-UP:
FILE No: 21-274C

P2.02 | HSMS

ELECTRICAL CONSTRUCTION NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
2. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/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.
3. DIVISION 16 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/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.
4. DIVISION 16 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.
5. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.
6. DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES.
7. THE DIVISION 16 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.
8. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
9. 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.
10. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
11. A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES.
12. 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.
13. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
14. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
15. 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.
16. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
17. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION.
18. DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED WITH NEW FIXTURES.
19. 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.
20. ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL, JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. 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. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
21. ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
22. ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS WILL NOT BE ACCEPTED.
23. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL.
24. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
25. 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.
26. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION.
27. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR UNDERGROUND.
28. 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.
29. WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE DIVISION 16 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.
30. 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.
31. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD BALANCING.
32. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC.
33. 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 SCHOOL.
34. WHERE THE DIVISION 16 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 DIVISION 16 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A,3~,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.
35. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT.
36. ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
37. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
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. EC 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.
40. 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 DIVISION 16 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 DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.
41. DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE DIVISION 16 CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

DEMOLITION NOTES:

1. THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION.
2. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, 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-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
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 THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN SEPARATE 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 DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR 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. DIVISION 16 CONTRACTOR 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 OWNER.
11. ALL SYSTEM 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 DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
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 15 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. PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION.
6. 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 SIZE EVERY 100 FEET LE #10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
7. THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE.
8. 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 DIVISION 16 CONTRACTOR FOR THE PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
9. ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION.
10. 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.
11. THE DIVISION 16 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. DIVISION 16 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE DISPOSAL.
12. REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 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.
13. PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT.
14. ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

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-600 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.

ABBREVIATIONS

E, EX	EXISTING
ETR	EXISTING TO REMAIN
PSEGLI	PSE&G LONG ISLAND (UTILITY CO.)
SM, S.M.	SURFACE MOUNTED
U.O.N.	UNLESS OTHERWISE NOTED
EC, E.C.	ELECTRICAL CONTRACTOR
GC, G.C.	GENERAL CONTRACTOR
MC, M.C.	MECHANICAL CONTRACTOR
PC, P.C.	PLUMBING CONTRACTOR
TYP.	TYPICAL
REQ'D	REQUIRED
O.C.	ON CENTER
CKT	CIRCUIT
AFF	AWAY FROM FLOOR
CB	CIRCUIT BREAKER
REC.	RECEPTACLE
ACT	ABOVE COUNTERTOP

LINE DESIGNATIONS

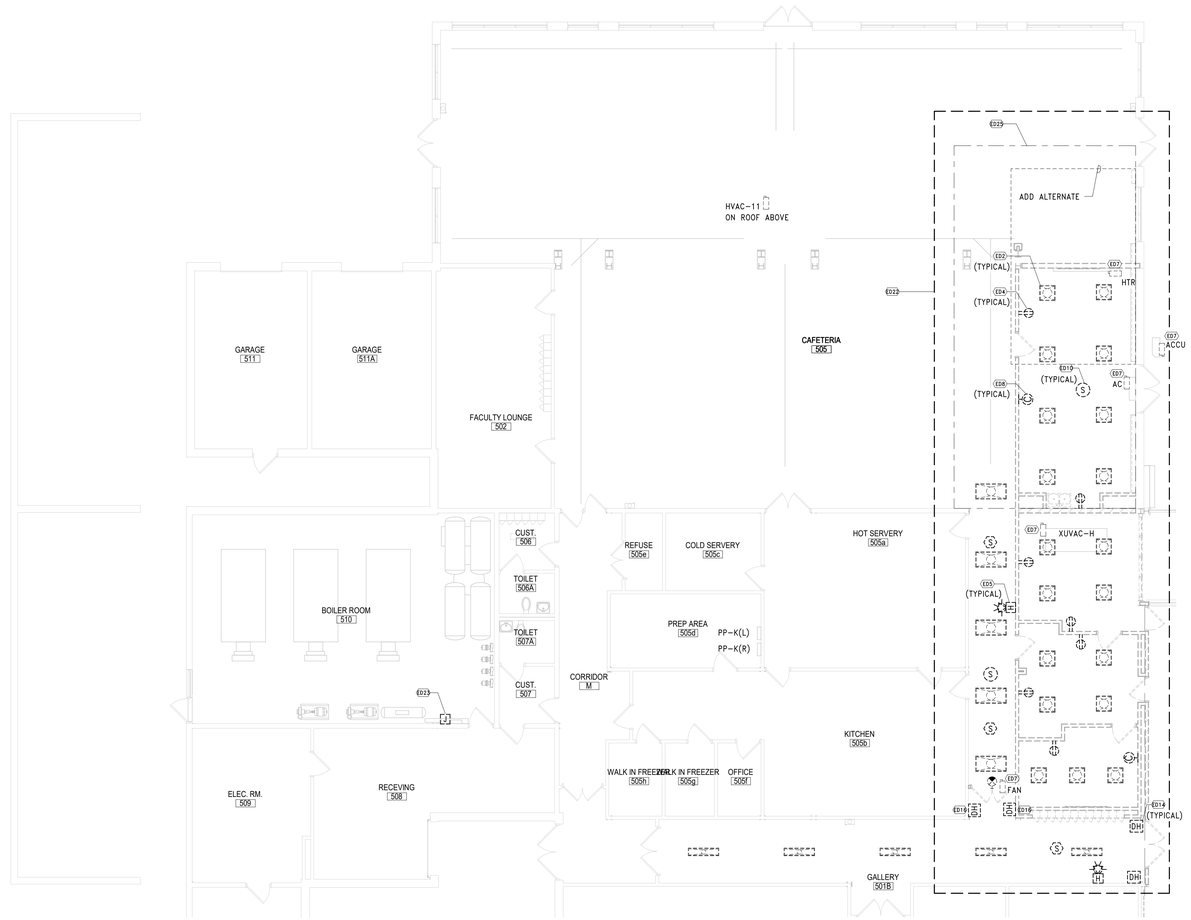
- EXISTING TO REMAIN DEVICES
- DEVICES TO BE REMOVED. PULL BACK ALL ASSOCIATED CONDUIT AND WIRING AND REMOVE UNLESS OTHERWISE NOTED ON THE PLANS.
- NEW DEVICES
- CONDUIT DOWN
- CONDUIT UP

FIRE ALARM SYSTEM LEGEND

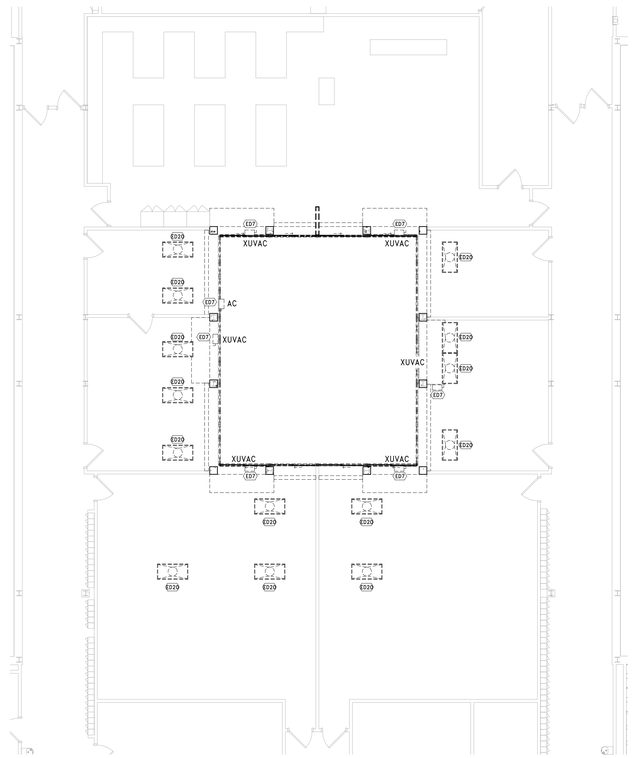
SYMBOL	DEVICE DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
RAP	REMOTE ANNUNCIATOR PANEL OR EQUAL. E.C. TO PROVIDE FRAMED BLDG GRAPHIC MAP WITHIN SIGHT
FSD	FIRE ALARM SHUT DOWN
S E	SMOKE DETECTOR W/ BASE. "E" DESIGNATES ELEVATOR RECALL
C OR CO	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE. CONNECT TO ASSOCIATED UNIT WITH SOUNDER BASE FOR SIMULTANEOUS LOCAL ALARM. (SUPERVISORY SIGNAL)
C	CARBON MONOXIDE SYSTEM AMBER COLOR VISUAL NOTIFICATION DEVICE. (SUPERVISORY SIGNAL)
P	MANUAL PULL STATION. PROVIDE WITH NON-ALARMED STI STOPPER II LIFT COVER (OR SIMILAR)
	DUCT TYPE SMOKE DETECTOR W/ HOUSING AND REMOTE LED INDICATOR. (SUPERVISORY SIGNAL)
	SPEAKER NOTIFICATION DEVICE - WALL MOUNT.
H	SPEAKER/STROBE NOTIFICATION DEVICE - WALL MOUNT.
	SPEAKER NOTIFICATION DEVICE - CEILING MOUNT.
	SPEAKER/STROBE NOTIFICATION DEVICE - CEILING MOUNT.
	STROBE NOTIFICATION DEVICE. WALL MOUNTED.
	STROBE NOTIFICATION DEVICE. CEILING MOUNTED.
	HORNSTROBE NOTIFICATION DEVICE
M	24V ELECTROMAGNETIC DOOR HOLDER - GC FURNISH & MOUNT. EC TO WIRE. REFER TO FIRE ALARM DEVICE NOTES ON E5.01 FOR ADDITIONAL INFORMATION
	EXISTING FIRE ALARM BELL TO BE REMOVED. INSTALL BLANK COVER PLATE.
	EXISTING BATTERY OPERATED CO DETECTOR TO REMAIN UNLESS OTHERWISE NOTED
AHU R	AIR HANDLING UNIT. REFER TO MECHANICAL DWG. FOR ADDITIONAL INFORMATION ANNOTATION 'R' - UNIT TO HAVE RELAY SHUTDOWN. REQUIRED ON ALL FANS OVER 1000 CFM
WF	WATERFLOW SWITCH FOR NEW SPRINKLER SYSTEM (BY FIRE SPRINKLER CONTRACTOR)
TS	TAMPER SWITCH FOR NEW SPRINKLER SYSTEM (BY FIRE SPRINKLER CONTRACTOR)
ANSUL	ANSUL SYSTEM
RC	FIRE ALARM - BEAM DETECTOR RECEIVER
SP	FIRE ALARM - BEAM DETECTOR TRANSMITTER
S.W.G.	STEEL WIRE GUARD.
W.P.	WEATHER PROOF.
W.M.	WALL MOUNT.
(E)	EXISTING TO REMAIN
AOR	AREA OF RESCUE
AOR-PS	AREA OF RESCUE POWER SUPPLY
AOR-MCP	AREA OF RESCUE MAIN CONTROL PANEL
R	FIRE ALARM RELAY

MISCELLANEOUS

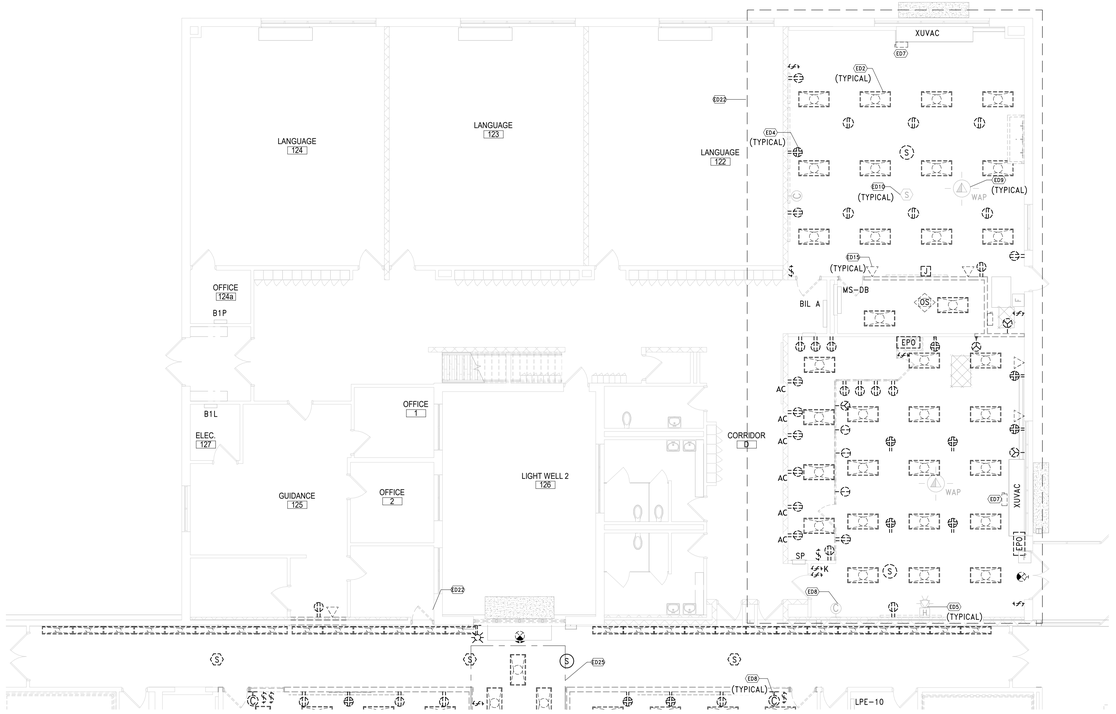
SYMBOL	DESCRIPTION
S	CEILING MOUNTED PUBLIC ADDRESS SPEAKER.
S	WALL MOUNTED PUBLIC ADDRESS SPEAKER
	HORN LOUDSPEAKER SUBSCRIPT 'WP' INDICATES OUTDOOR WEATHERPROOF HORN SPEAKER
VC	WALL MOUNTED VOLUME CONTROL FOR LOCAL PUBLIC ADDRESS SPEAKER
C	WIRELESS CLOCK



1 DEMO PLAN - AREA A
SCALE: 1/8" = 1'-0"



3 DEMO PLAN - SECOND FLOOR AREA D
SCALE: 1/8" = 1'-0"



2 DEMO PLAN - AREA C
SCALE: 1/8" = 1'-0"

SHEET NOTES

A. CONTRACTOR SHALL FIELD VERIFY TYPE, QUANTITY AND LOCATION OF ALL EXISTING DEVICES TO BE REMOVED PRIOR TO SUBMITTING BID. EXISTING CONDITIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD OBSERVATIONS. EC IS RESPONSIBLE FOR THE REMOVAL OF ALL ELECTRICALL DEVICES ON WALLS SCHEDULED TO BE REMOVED. PULL BACK AND REMOVE ALL ASSOCIATED CIRCUITS.

B. ELECTRICAL CONTRACTOR SHALL SECTION OFF FIRE ALARM FROM REST OF BUILDING DURING CONSTRUCTION.

C. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

D. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE.

E. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.

F. FIELD COORDINATE ALL REMOVALS WITH GC PRIOR TO INITIATION OF WORK. VERFIY THE ABSENCE OF ASBESTOS IN CEILINGS WHERE LIGHTING/ELECTRICAL DEVICES SHALL BE REMOVED.

G. ALL DEVICES WITH 'ER' DESIGNATION SHALL BE EXISTING TO BE RELOCATED OR RE-INSTALLED. UNINSTALL AND MAINTAIN DEVICES TO ALLOW FOR CEILING WORK. REFER TO NEW WOK PLAN FOR RE-INSTALLATION.

KEY NOTES

ED2	DISCONNECT AND REMOVE LIGHTING FIXTURES AND ALL ASSOCIATED CONTROLS AS INDICATED. MAINTAIN ASSOCIATED BRANCH CIRCUIT FOR RE-USE WITH NEW LIGHTING FIXTURES IN THIS SPACE. REFER TO NEW WORK PLAN.
ED4	DISCONNECT AND REMOVE ELECTRICAL DEVICES, WIREMOLD AND SURFACE RACEWAY TO ALLOW FOR ARCHITECTURAL WORK. PULL BACK AND REMOVE ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO NEAREST ACTIVE SOURCE. CIRCUIT CONTINUITY SHALL BE MAINTAINED FOR EXISTING TO REMAIN DEVICES IN SAME CIRCUIT.
ED5	DISCONNECT AND REMOVE FIRE ALARM DEVICE AND ALL ASSOCIATED CABLING BACK TO FACP.
ED7	DE-ENERGIZE AND DISCONNECT MECHANICAL EQUIPMENT TO BE REMOVED (BY OTHERS). REMOVE DISCONNECTING MEANS AND ALL ASSOCIATED FIRE ALARM DUCT SMOKES AND FA SHUTDOWN CONNECTIONS. PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.
ED8	REMOVE AND MAINTAIN WIRELESS CLOCKS. CLOCKS TO BE RE-USED IN PROPOSED LOCATION. REFER TO NEW WORK PLAN. FINAL CLOCKS LOCATION TO BE FIELD COORDINATED WITH OWNER.
ED9	DISCONNECT, REMOVE AND MAINTAIN WIRELESS ACCESS POINT. MAINTAIN ASSOCIATED DATA CABLING FOR RECONNECTION. DEVICE SHALL BE REINSTALLED AFTER RENOVATION WORK HAS BEEN COMPLETED.
ED10	DISCONNECT AND REMOVE CEILING DEVICES (PA SPEAKER, SMOKE DETECTOR, RECEPTACLE). PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO NEAREST ACTIVE SOURCE.
ED14	DISCONNECT AND REMOVE DOOR HOLDERS. PULL BACK ALL ASSOCIATED WIRING TO NEAREST ACTIVE SOURCE AND REMOVE.
ED15	REMOVE DATA BOX AND ALL ASSOCIATED CABLES. PULL CABLES BACK TO SOURCE PANEL LOCATION.
ED16	DISCONNECT, REMOVE AND MAINTAIN DEVICE INSTALLED IN PREVIOUS PHASE. TURN HARDWARE OVER TO OWNER AT COMPLETION OF DEMOLITION WORK.
ED20	DISCONNECT AND TEMPORARILY REMOVE LIGHTING FIXTURES TO ALLOW FOR ARCHITECTURAL AND MECHANICAL RENOVATION WORK. MAINTAIN ALL ASSOCIATED POWER AND CONTROL CABLES FOR RE-INSTALLATION. REFER TO NEW WORK PLAN.
ED22	PULL BACK AND REMOVE ALL INACTIVE/ABANDONED CABLING IN RENOVATION AREA. FIELD COORDINATE WITH DISTRICT IT TEAM PRIOR TO CUTTING AND REMOVING OF CABLING.
ED23	DISCONNECT POWER TO ABANDONED CONTROL PANEL TO BE REMOVED BY OTHERS.
ED25	PROVIDE SUPPORTS AND CABLE MANAGEMENT SYSTEM FOR ALL CABLES AND CONDUIT WITHIN INDICATED AREA WHERE CEILING TYPE IS CHANGING FROM DROP TO EXPOSED. COORDINATE WITH ENGINEER AND ARCHITECT FOR THE CLEANIG OF ABOVE CEILING SPACES.

REV.	DATE	ITEM

NOTICE

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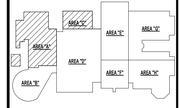

KEY PLAN NO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
PARTIAL DEMOLITION FIRST AND SECOND FL PLAN - AREA A & C

DRWG. BY: EEA
CHK. BY: AG

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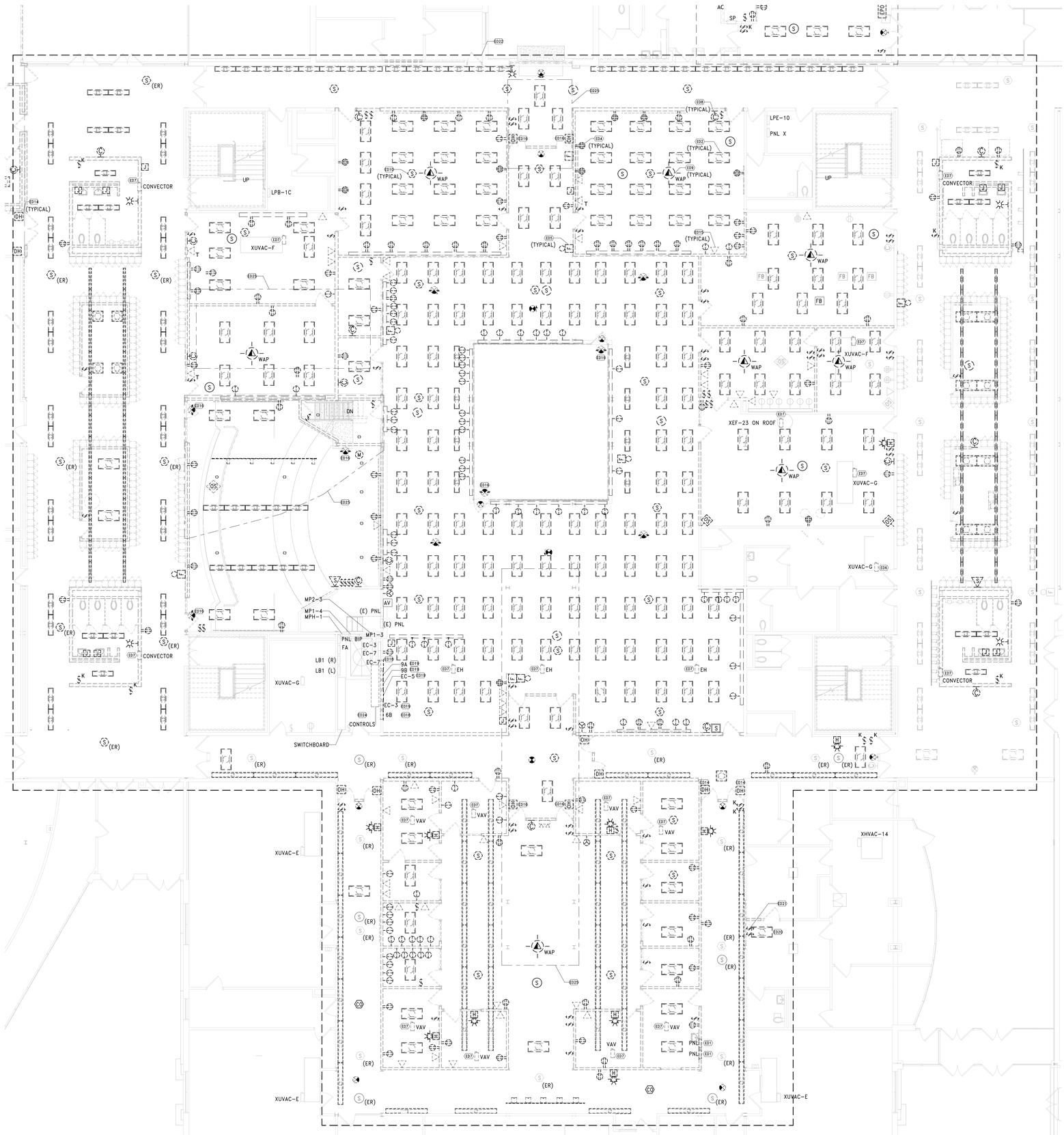
BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
www.BBSARCHITECTURE.COM

SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE PARTIAL DEMOLITION FIRST AND SECOND FL PLAN - AREA A & C
SCALE: AS NOTED
DATE: 07.07.22
BID P/U DATE:
FILE NO. 21-274C

E1.01 HSMS



1 DEMO PLAN - AREA D

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

SHEET NOTES

A. CONTRACTOR SHALL FIELD VERIFY TYPE, QUANTITY AND LOCATION OF ALL EXISTING DEVICES TO BE REMOVED PRIOR TO SUBMITTING BID. EXISTING CONDITIONS SHOWN ARE BASED ON EXISTING PLANS AND FIELD OBSERVATIONS. EC IS RESPONSIBLE FOR THE REMOVAL OF ALL ELECTRICAL DEVICES ON WALLS SCHEDULED TO BE REMOVED. PULL BACK AND REMOVE ALL ASSOCIATED CIRCUITS.

B. ELECTRICAL CONTRACTOR SHALL SECTION OFF FIRE ALARM FROM REST OF BUILDING DURING CONSTRUCTION.

C. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

D. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE.

E. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.

F. FIELD COORDINATE ALL REMOVALS WITH GC PRIOR TO INITIATION OF WORK. VERFIY THE ABSENCE OF ASBESTOS IN CEILINGS WHERE LIGHTING/ELECTRICAL DEVICES SHALL BE REMOVED.

G. ALL DEVICES WITH 'ER' DESIGNATION SHALL BE EXISTING TO BE RELOCATED OR RE-INSTALLED. UNINSTALL AND MAINTAIN DEVICES TO ALLOW FOR CEILING WORK. REFER TO NEW WOK PLAN FOR RE-INSTALLATION.

KEY NOTES

ED1	DE-ENERGIZE, DISCONNECT AND REMOVE POWER PANEL. PULL BACK AND REMOVE MAIN PANEL FEEDERS BACK TO SOURCE PANEL LOCATION. MAINTAIN BRANCH CIRCUIT WIRING FOR EXISTING TO REMAIN DEVICES CONNECTED TO PANEL. CONTRACTOR SHALL FIELD VERIFY WHICH CIRCUITS ARE TO REMAIN OPERATIONAL.
ED2	DISCONNECT AND REMOVE LIGHTING FIXTURES AND ALL ASSOCIATED CONTROLS AS INDICATED. MAINTAIN ASSOCIATED BRANCH CIRCUIT FOR RE-USE WITH NEW LIGHTING FIXTURES IN THIS SPACE. REFER TO NEW WORK PLAN.
ED4	DISCONNECT AND REMOVE ELECTRICAL DEVICES, WIREMOLD AND SURFACE RACEWAY TO ALLOW FOR ARCHITECTURAL WORK. PULL BACK AND REMOVE ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO NEAREST ACTIVE SOURCE. CIRCUIT CONTINUITY SHALL BE MAINTAINED FOR EXISTING TO REMAIN DEVICES IN SAME CIRCUIT.
ED5	DISCONNECT AND REMOVE FIRE ALARM DEVICE AND ALL ASSOCIATED CABLING BACK TO FACP.
ED6	DE-ENERGIZE AND DISCONNECT MECHANICAL EQUIPMENT TO BE RELOCATED (BY OTHERS). MAINTAIN ASSOCIATED POWER BRANCH CIRCUIT AND DISCONNECTING MEANS FOR EXTENSION AND RECONNECTION TO UNIT IN PROPOSED NEW LOCATION.
ED7	DE-ENERGIZE AND DISCONNECT MECHANICAL EQUIPMENT TO BE REMOVED (BY OTHERS). REMOVE DISCONNECTING MEANS AND ALL ASSOCIATED FIRE ALARM DUCT SMOKES AND FA SHUTDOWN CONNECTIONS. PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.
ED8	REMOVE AND MAINTAIN WIRELESS CLOCKS. CLOCKS TO BE RE-USED IN PROPOSED LOCATION. REFER TO NEW WORK PLAN. FINAL CLOCKS LOCATION TO BE FIELD COORDINATED WITH OWNER.
ED9	DISCONNECT, REMOVE AND MAINTAIN WIRELESS ACCESS POINT. MAINTAIN ASSOCIATED DATA CABLING FOR RECONNECTION. DEVICE SHALL BE REINSTALLED AFTER RENOVATION WORK HAS BEEN COMPLETED.
ED10	DISCONNECT AND REMOVE CEILING DEVICES (PA SPEAKER, SMOKE DETECTOR, RECEPTACLE). PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO NEAREST ACTIVE SOURCE.
ED14	DISCONNECT AND REMOVE DOOR HOLDERS. PULL BACK ALL ASSOCIATED WIRING TO NEAREST ACTIVE SOURCE AND REMOVE.
ED15	REMOVE DATA BOX AND ALL ASSOCIATED CABLES. PULL CABLES BACK TO SOURCE PANEL LOCATION.
ED16	DISCONNECT, REMOVE AND MAINTAIN DEVICE INSTALLED IN PREVIOUS PHASE. TURN HARDWARE OVER TO OWNER AT COMPLETION OF DEMOLITION WORK.
ED18	DE-ENERGIZE, DISCONNECT AND REMOVE POWER PANEL TO BE REPLACED. MAINTAIN EXISTING MAIN POWER FEEDERS AND BRANCH CIRCUIT WIRING FOR CONNECTION TO NEW PANEL. FIELD VERIFY CIRCUITS FOR DEVICES THAT SHALL REMAIN ACTIVE AND MAINTAIN CIRCUIT CONTINUITY.
ED19	ADD ALTERNATE: DE-ENERGIZE, DISCONNECT AND REMOVE POWER PANEL TO BE REPLACED. MAINTAIN EXISTING MAIN POWER FEEDERS AND BRANCH CIRCUIT WIRING FOR CONNECTION TO NEW PANEL. FIELD VERIFY CIRCUITS FOR DEVICES THAT SHALL REMAIN ACTIVE AND MAINTAIN CIRCUIT CONTINUITY.
ED20	DISCONNECT AND TEMPORARILY REMOVE LIGHTING FIXTURES TO ALLOW FOR ARCHITECTURAL AND MECHANICAL RENOVATION WORK. MAINTAIN ALL ASSOCIATED POWER AND CONTROL CABLES FOR RE-INSTALLATION. REFER TO NEW WORK PLAN.
ED21	DISCONNECT, REMOVE AND MAINTAIN LIGHTING SWITCH. MAINTAIN ASSOCIATED CABLING FOR RECONNECTION. SWITCHES SHALL BE REINSTALLED AFTER RENOVATION WORK HAS BEEN COMPLETED.
ED22	PULL BACK AND REMOVE ALL INACTIVE/ABANDONED CABLING IN RENOVATION AREA. FIELD COORDINATE WITH DISTRICT IT TEAM PRIOR TO CUTTING AND REMOVING OF CABLING.
ED24	REMOVE CONTROL BOX AND ALL ASSOCIATED INACTIVE CABLING AND CONDUIT. PROVIDE SPLICE BOX FOR ANY WIRING THAT SHALL REMAIN.
ED25	PROVIDE SUPPORTS AND CABLE MANAGEMENT SYSTEM FOR ALL CABLES AND CONDUIT WITHIN INDICATED AREA WHERE CEILING TYPE IS CHANGING FROM DROP TO EXPOSED. COORDINATE WITH ENGINEER AND ARCHITECT FOR THE CLEANIG OF ABOVE CEILING SPACES.

REV.	DATE	ITEM

NOTICE

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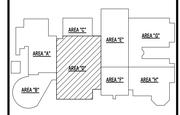

KEY PLAN NO SCALE

PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: PARTIAL DEMOLITION FIRST FL PLAN - AREA D

DRWG. BY: EEA
CHK. BY: AG

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187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
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SED No. 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR U.F.S.D.
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: PARTIAL DEMOLITION FIRST FL PLAN - AREA D
SCALE: AS NOTED
DATE: 07/07/22
BID P/U DATE:
FILE NO. 21-274C

E1.02 HSMS

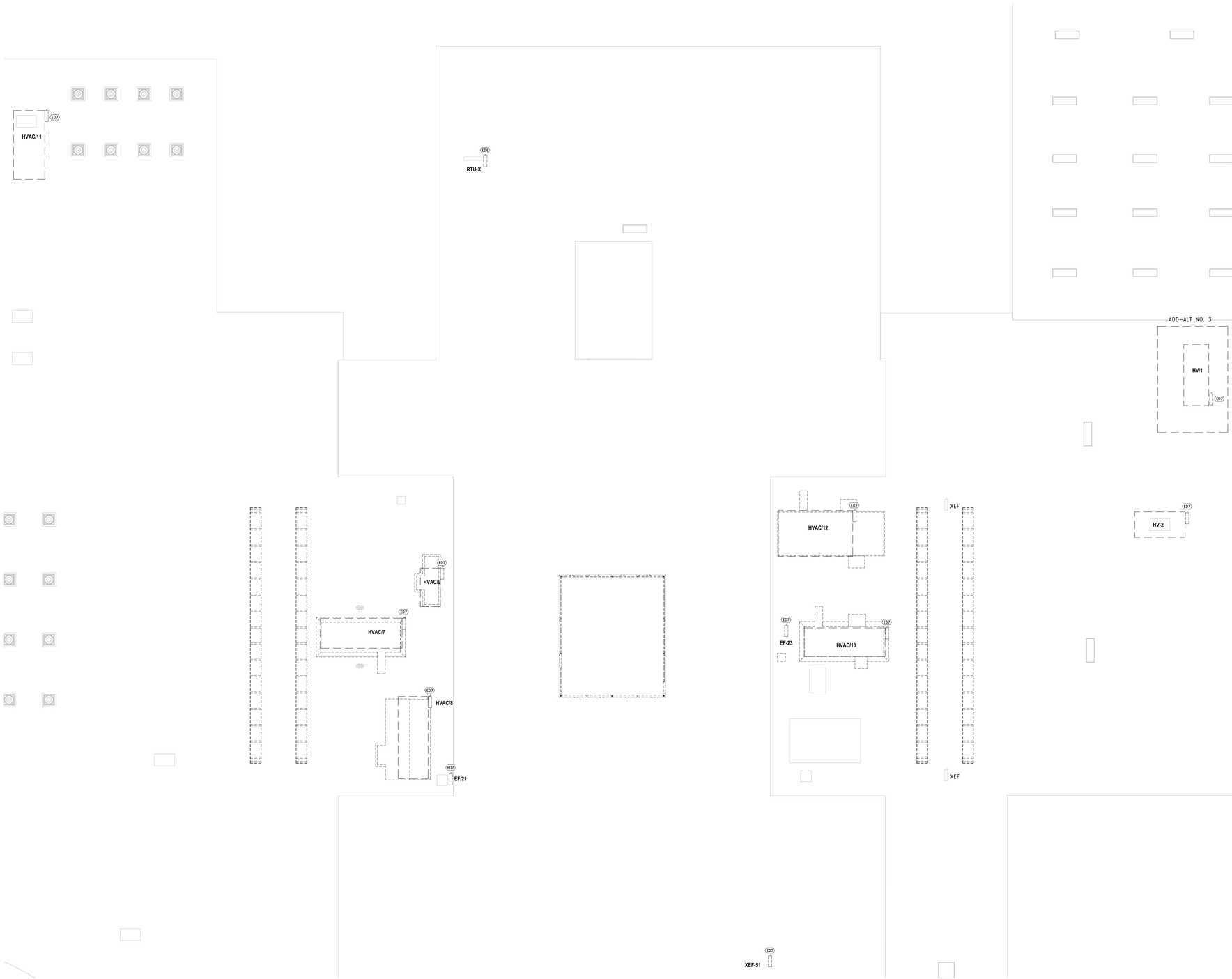
SHEET NOTES

A. CONTRACTOR SHALL FIELD VERIFY TYPE, QUANTITY AND LOCATION OF ALL EXISTING DEVICES TO BE REMOVED PRIOR TO SUBMITTING BID.

B. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

KEY NOTES

ED6	DE-ENERGIZE AND DISCONNECT MECHANICAL EQUIPMENT TO BE RELOCATED (BY OTHERS). MAINTAIN ASSOCIATED POWER BRANCH CIRCUIT AND DISCONNECTING MEANS FOR EXTENSION AND RECONNECTION TO UNIT IN PROPOSED NEW LOCATION.
ED7	DE-ENERGIZE AND DISCONNECT MECHANICAL EQUIPMENT TO BE REMOVED (BY OTHERS). REMOVE DISCONNECTING MEANS AND ALL ASSOCIATED FIRE ALARM DUCT SMOKES AND FA SHUTDOWN CONNECTIONS. PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.



2 ROOF PLAN - REMOVALS
SCALE: 3/32" = 1'-0"

1 DEMO WORK PLAN - SECOND FLOOR AREA H
SCALE: 3/32" = 1'-0"

REV.	DATE	ITEM

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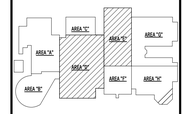

KEY PLAN
NO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
DEMOLITION PLAN - ROOF

DRWG. BY: EEA
CHK. BY: AG

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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE DEMOLITION PLAN - ROOF
SCALE: AS NOTED
DATE: 07/07/22
BID P/U DATE:
FILE NO. 21-274C

E1.03 HSMS

LIGHTING SEQUENCE OF OPERATION

SEQUENCE A
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. NO DAYLIGHT SENSOR(S) IN SPACE
3. NO FIXTURES LABELED AS 'EM'.
4. 3 BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES
   - BUTTON 2: DIM UP OF GENERAL ILLUMINATION FIXTURES**
   - BUTTON 3: DIM DOWN OF GENERAL ILLUMINATION FIXTURES**

SEQUENCE B
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. NO DAYLIGHT SENSOR(S) IN SPACE
3. WHERE APPLICABLE, U.O.N, UNSWITCHED CONTROL FOR ALL FIXTURES LABELED AS 'EM'. FIXTURES SHALL REMAIN ON AT ALL TIMES.
4. 3 BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES
   - BUTTON 2: DIM UP OF GENERAL ILLUMINATION FIXTURES**
   - BUTTON 3: DIM DOWN OF GENERAL ILLUMINATION FIXTURES**

SEQUENCE C
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. NO DAYKUGHT SENSOR(S) IN SPACE
3. WHERE APPLICABLE, U.O.N, UNSWITCHED CONTROL FOR ALL FIXTURES LABELED AS 'EM'. FIXTURES SHALL REMAIN ON AT ALL TIMES.
4. 9 BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF TYPE ALL FIXTURES
   - BUTTON 2: DIM UP OF TYPE "a" SWITCH LEG
   - BUTTON 3: DIM DOWN OF TYPE "a" SWITCH LEG
   - BUTTON 4: DIM UP OF TYPE "b" SWITCH LEG
   - BUTTON 5: DIM DOWN OF TYPE "b" SWITCH LEG
   - BUTTON 6: DIM UP OF TYPE "c" SWITCH LEG
   - BUTTON 7: DIM DOWN OF TYPE "c" SWITCH LEG
   - BUTTON 8: DIM UP OF TYPE "d" SWITCH LEG
   - BUTTON 9: DIM DOWN OF TYPE "d" SWITCH LEG

SEQUENCE D
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. WHERE APPLICABLE, U.O.N, UNSWITCHED CONTROL FOR ALL FIXTURES LABELED AS 'EM'. FIXTURES SHALL REMAIN ON AT ALL TMES.
3. 7 BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF TYPE ALL FIXTURES
   - BUTTON 2: DIM UP OF TYPE "a" SWITCH LEG
   - BUTTON 3: DIM DOWN OF TYPE "a" SWITCH LEG
   - BUTTON 4: DIM UP OF TYPE "b" SWITCH LEG
   - BUTTON 5: DIM DOWN OF TYPE "b" SWITCH LEG
   - BUTTON 6: DIM UP OF TYPE "c" SWITCH LEG
   - BUTTON 7: DIM DOWN OF TYPE "c" SWITCH LEG

SEQUENCE E
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. NO DAYLIGHT SENSOR(S) IN SPACE
3. WHERE APPLICABLE, U.O.N, UNSWITCHED CONTROL FOR ALL FIXTURES LABELED AS 'EM'. FIXTURES SHALL REMAIN ON AT ALL TIMES.
4. SINGLE SWITCH FOR ON/OFF CONTROL OF ALL FIXTURES
5. BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES
   - BUTTON 2: DIM UP OF GENERAL ILLUMINATION FIXTURES**
   - BUTTON 3: DIM DOWN OF GENERAL ILLUMINATION FIXTURES**

NOTES:

** = DIMMING UP AND DOWN BUTTONS MAY BE SUBSTITUTED WITH DIMMING SLIDE TYPE SWITCH.



2 FIRST FLOOR REFLECTED CEILING PLAN - AREA A BASE BID
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR REFLECTED CEILING PLAN - AREA C
SCALE: 1/8" = 1'-0"

LIGHTING SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO LIGHTING FIXTURE SCHEDULE ON DWG E601.

D. ALL PROPOSED EMERGENCY EXIT LIGHTING SHALL BE CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING DEVICES. UTILIZE (2)#12, #12G. IN 3/4" EMT CONDUIT. EMERGENCY LIGHTING SHALL REMAIN ON AS NIGHT LIGHTS.

KEY NOTES

E1	LIGHT FIXTURE SHALL BE SWITCHED. PROVIDE FIXTURE WITH UL 924 COMPLAINT EMERGENCY DRIVER AND RELAY TO ALLOW FOR AUTOMATIC ACTIVATION OF LIGHTING IN THE EVENT OF POWER LOSS.
E4	UTILIZE EXISTING CIRCUIT PREVIOUSLY CONNECTED TO REMOVED LIGHTING FIXTURES, AND CONNECT PROPOSED FIXTURES. EXTEND CIRCUIT AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).

REV.	DATE	ITEM

NOTICE

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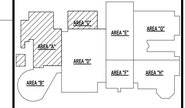

KEY PLAN
NO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
PARTIAL FIRST FL LIGHTING PLAN - AREA A & C

DRWG. BY: EEA
CHK. BY: AG

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ALBANY
NEW YORK 12205
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PATCHOGUE
NEW YORK 11772
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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE PARTIAL FIRST FL LIGHTING PLAN - AREA A & C
SCALE: AS NOTED
DATE: 07/07/22
BID P/U DATE:
FILE NO. 21-274C

E3.01 HSMS

LIGHTING SEQUENCE OF OPERATION

SEQUENCE A
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. NO DAYLIGHT SENSOR(S) IN SPACE
3. NO FIXTURES LABELED AS 'EM'.
4. 3 BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES
   - BUTTON 2: DIM UP OF GENERAL ILLUMINATION FIXTURES**
   - BUTTON 3: DIM DOWN OF GENERAL ILLUMINATION FIXTURES**

SEQUENCE B
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. NO DAYLIGHT SENSOR(S) IN SPACE
3. WHERE APPLICABLE, U.O.N, UNSWITCHED CONTROL FOR ALL FIXTURES LABELED AS 'EM'. FIXTURES SHALL REMAIN ON AT ALL TIMES.
4. 3 BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES
   - BUTTON 2: DIM UP OF GENERAL ILLUMINATION FIXTURES**
   - BUTTON 3: DIM DOWN OF GENERAL ILLUMINATION FIXTURES**

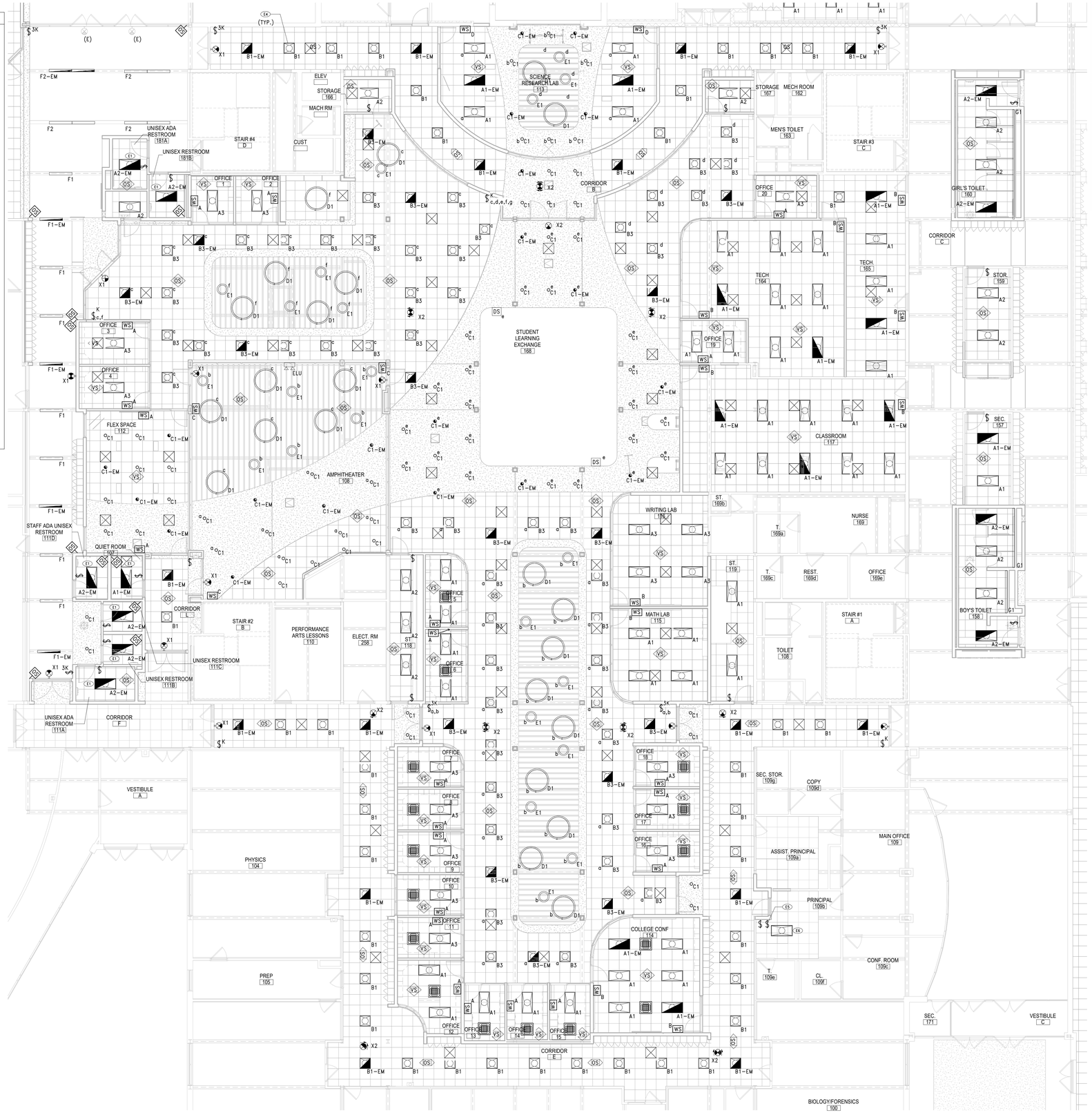
SEQUENCE C
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. NO DAYKUGHT SENSOR(S) IN SPACE
3. WHERE APPLICABLE, U.O.N, UNSWITCHED CONTROL FOR ALL FIXTURES LABELED AS 'EM'. FIXTURES SHALL REMAIN ON AT ALL TIMES.
4. 9 BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF TYPE ALL FIXTURES
   - BUTTON 2: DIM UP OF TYPE "a" SWITCH LEG
   - BUTTON 3: DIM DOWN OF TYPE "a" SWITCH LEG
   - BUTTON 4: DIM UP OF TYPE "b" SWITCH LEG
   - BUTTON 5: DIM DOWN OF TYPE "b" SWITCH LEG
   - BUTTON 6: DIM UP OF TYPE "c" SWITCH LEG
   - BUTTON 7: DIM DOWN OF TYPE "c" SWITCH LEG
   - BUTTON 8: DIM UP OF TYPE "d" SWITCH LEG
   - BUTTON 9: DIM DOWN OF TYPE "d" SWITCH LEG

SEQUENCE D
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. WHERE APPLICABLE, U.O.N, UNSWITCHED CONTROL FOR ALL FIXTURES LABELED AS 'EM'. FIXTURES SHALL REMAIN ON AT ALL TIMES.
3. 7 BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF TYPE ALL FIXTURES
   - BUTTON 2: DIM UP OF TYPE "a" SWITCH LEG
   - BUTTON 3: DIM DOWN OF TYPE "a" SWITCH LEG
   - BUTTON 4: DIM UP OF TYPE "b" SWITCH LEG
   - BUTTON 5: DIM DOWN OF TYPE "b" SWITCH LEG
   - BUTTON 6: DIM UP OF TYPE "c" SWITCH LEG
   - BUTTON 7: DIM DOWN OF TYPE "c" SWITCH LEG

SEQUENCE E
1. OCCUPANCY OR VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 20 MIN. TIME DELAY
2. NO DAYLIGHT SENSOR(S) IN SPACE
3. WHERE APPLICABLE, U.O.N, UNSWITCHED CONTROL FOR ALL FIXTURES LABELED AS 'EM'. FIXTURES SHALL REMAIN ON AT ALL TIMES.
4. SINGLE SWITCH FOR ON/OFF CONTROL OF ALL FIXTURES
5. BUTTON WALL STATION:
   - BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES
   - BUTTON 2: DIM UP OF GENERAL ILLUMINATION FIXTURES**
   - BUTTON 3: DIM DOWN OF GENERAL ILLUMINATION FIXTURES**

NOTES:

** = DIMMING UP AND DOWN BUTTONS MAY BE SUBSTITUTED WITH DIMMING SLIDE TYPE SWITCH.



1 FIRST FLOOR REFLECTED CEILING PLAN - AREA D

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

LIGHTING SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO LIGHTING FIXTURE SCHEDULE ON DWG E601.

D. ALL PROPOSED EMERGENCY EXIT LIGHTING SHALL BE CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING DEVICES. UTILIZE (2)#12, #12G. IN 3/4" EMT CONDUIT. EMERGENCY LIGHTING SHALL REMAIN ON AS NIGHT LIGHTS.

KEY NOTES

E1	LIGHT FIXTURE SHALL BE SWITCHED. PROVIDE FIXTURE WITH UL 924 COMPLAINT EMERGENCY DRIVER AND RELAY TO ALLOW FOR AUTOMATIC ACTIVATION OF LIGHTING IN THE EVENT OF POWER LOSS.
E4	UTILIZE EXISTING CIRCUIT PREVIOUSLY CONNECTED TO REMOVED LIGHTING FIXTURES, AND CONNECT PROPOSED FIXTURES. EXTEND CIRCUIT AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).
E5	RE-INSTALL PREVIOUSLY REMOVED LIGHTING SWITCH IN LOCATION AS INDICATED. FIELD COORDINATE WITH GC FOR EXACT LOCATION.
E6	RE-INSTALL PREVIOUSLY REMOVED LIGHTING FIXTURE IN LOCATION AS INDICATED. FIELD COORDINATE WITH GC FOR EXACT LOCATION.

REV.	DATE	ITEM

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KEY PLAN NO SCALE

PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE: PARTIAL FIRST FL LIGHTING PLAN - AREA D

DRWG. BY: EEA
CHK. BY: AG

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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE PARTIAL FIRST FL LIGHTING PLAN - AREA D

SCALE: AS NOTED
DATE: 07/07/22
BID P/U DATE:
FILE NO. 21-274C

E3.02 | HSMS

LIGHTING SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

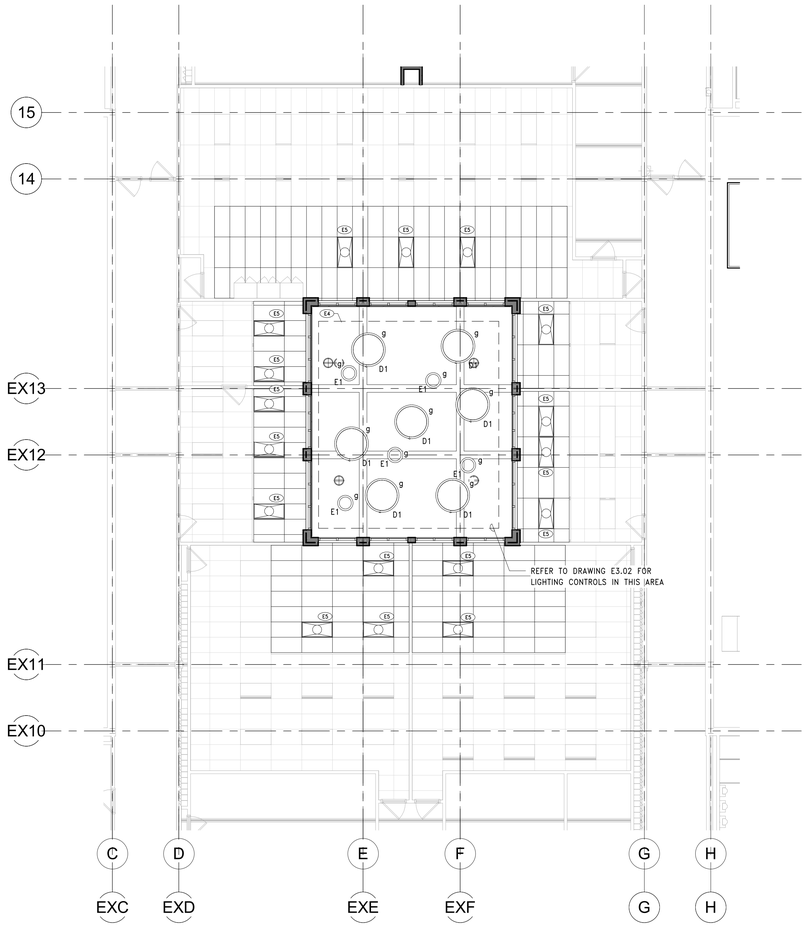
B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO LIGHTING FIXTURE SCHEDULE ON DWG E601.

D. ALL PROPOSED EMERGENCY EXIT LIGHTING SHALL BE CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING DEVICES. UTILIZE (2)#12, #12G. IN 3/4" EMT CONDUIT. EMERGENCY LIGHTING SHALL REMAIN ON AS NIGHT LIGHTS.

KEY NOTES

E3	ADD ALTERNATE: PROVIDE REPLACEMENT PANEL IN SAME LOCATION AS REMOVED PANEL. CONNECT EXISTING MAIN POWER FEEDERS AND BRANCH CIRCUITS TO PROPOSED PANEL. FIELD VERIFY EXACT CIRCUIT BREAKER AMP RATING OF EACH BREAKER IN PANEL PRIOR TO PURCHASE. BREAKERS POLE SIZES WERE VERIFIED WITH FIELD OBSERVATION HOWEVER BREAKERS AMP RATING WAS NOT LEGIBLE IN ALL.
E4	UTILIZE EXISTING CIRCUIT PREVIOUSLY CONNECTED TO REMOVED LIGHTING FIXTURES, AND CONNECT PROPOSED FIXTURES. EXTEND CIRCUIT AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).
E5	RE-INSTALL PREVIOUSLY REMOVED LIGHTING SWITCH IN LOCATION AS INDICATED. FIELD COORDINATE WITH GC FOR EXACT LOCATION.



1 PARTIAL SECOND FL LIGHTING PLAN - AREA D
SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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ORIGINAL DOCUMENTS:

KEY PLAN
NO SCALE

PROJECT
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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE
PARTIAL SECOND FL LIGHTING PLAN - AREA D

DRWG. BY: EEA
CHK. BY: AG

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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 CAPITAL BOND IMPROVEMENTS
DWG TITLE PARTIAL SECOND FL LIGHTING PLAN - AREA D

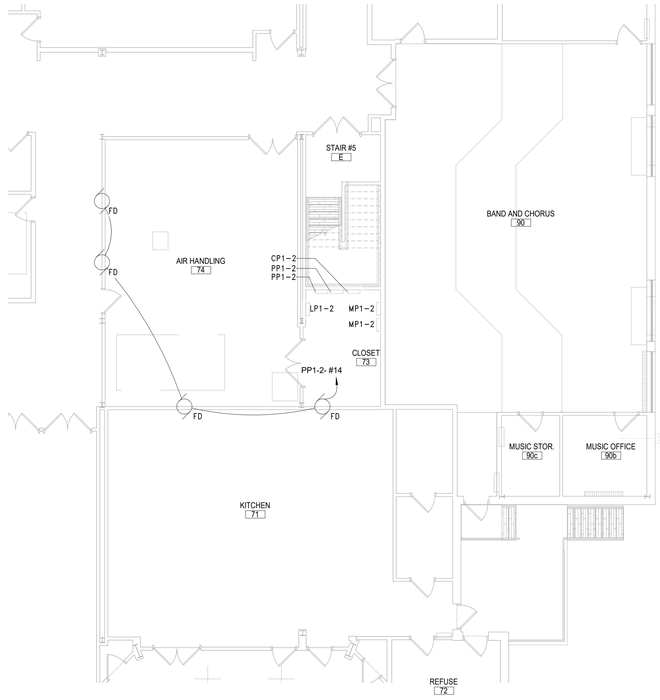
SCALE: As indicated
DATE: 07/07/22
BID P/U DATE: 07/15/22
FILE NO. 21-274C

E3.03 HSMS



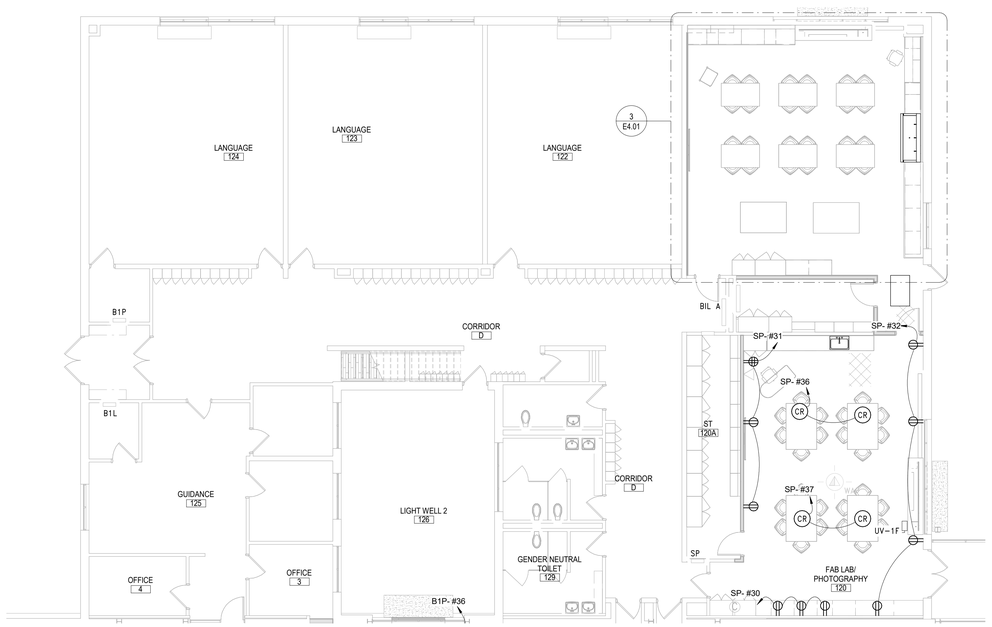
2 FIRST FLOOR PROPOSED PLAN - AREA A BASE BID

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



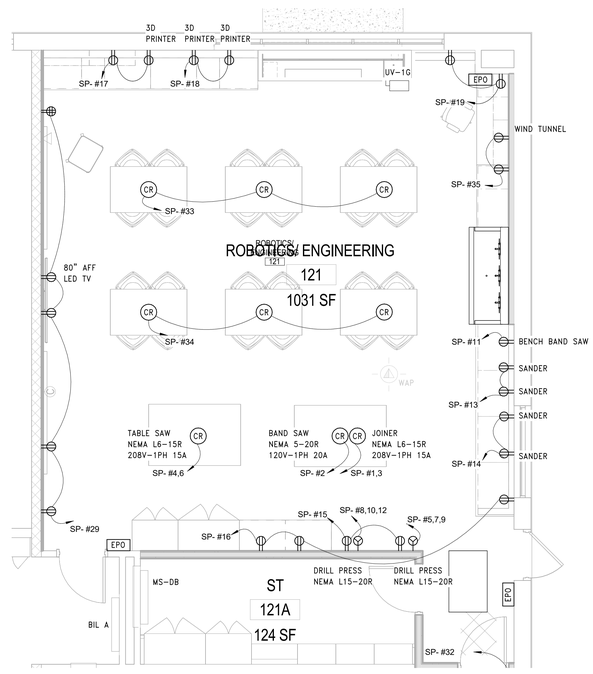
4 FIRST FLOOR PROPOSED PLAN - AREA H

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



1 FIRST FLOOR PROPOSED PLAN - AREA C BASE BID

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



3 FIRST FLOOR PROPOSED PLAN - AREA C ENLARGED PLAN

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

POWER SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO EQUIPMENT SCHEDULE ON DRAWING E10.01 FOR MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS.

D. ALL DEVICES SHALL BE RECESSED IN WALL. CONTACT ENGINEER AND ARCHITECT TO COORDINATE ANY AREAS WHERE EXISTING WALLS ARE SHOWN WITH NEW DEVICES.

KEY NOTES

E9	UTILIZE SPARE BREAKER SPACES PREVIOUSLY FEEDING REMOVED UNIT FOR PROPOSED UNITS TO BE PROVIDED IN THIS PHASE. REFER TO PANEL BOARD DIRECTORY AND ELECRICAL EQUIPMENT SCHEDULE FOR BREAKER AND CIRCUIT INFORMATION.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

PARTIAL FIRST FL POWER PLAN - AREA A & C

DRWG. BY: EEA

CHK. BY: AG

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650

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PATCHOGUE
NEW YORK 11772
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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PARTIAL FIRST FL POWER PLAN - AREA A & C

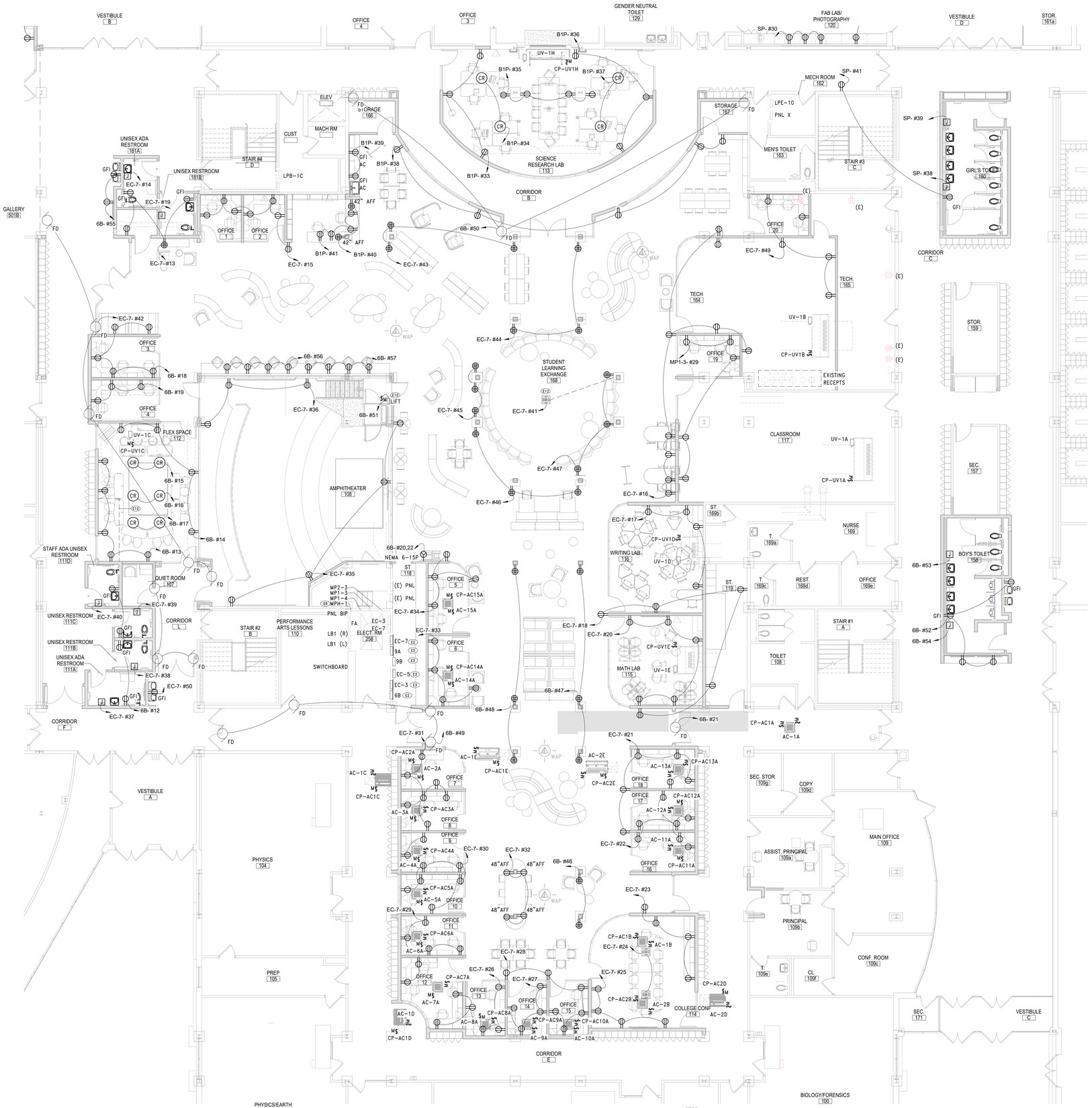
SCALE: AS NOTED

DATE: 07/07/22

BID P/U DATE:

FILE NO. 21-274C

E4.01 HSMS



1 FIRST FLOOR PROPOSED PLAN - AREA D

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

POWER SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO EQUIPMENT SCHEDULE ON DRAWING E10.01 FOR MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS.

D. ALL DEVICES SHALL BE RECESSED IN WALL. CONTACT ENGINEER AND ARCHITECT TO COORDINATE ANY AREAS WHERE EXISTING WALLS ARE SHOWN WITH NEW DEVICES.

KEY NOTES

E2	PROVIDE REPLACEMENT PANEL IN SAME LOCATION AS REMOVED PANEL. CONNECT EXISTING MAIN POWER FEEDERS AND BRANCH CIRCUITS TO PROPOSED PANEL. REFER TO PANELBOARD DIRECTORY FOR PANEL'S CHARACTERISTICS.
E3	ADD ALTERNATE: PROVIDE REPLACEMENT PANEL IN SAME LOCATION AS REMOVED PANEL. CONNECT EXISTING MAIN POWER FEEDERS AND BRANCH CIRCUITS TO PROPOSED PANEL. FIELD VERIFY EXACT CIRCUIT BREAKER AMP RATING OF EACH BREAKER IN PANEL PRIOR TO PURCHASE. BREAKERS POLE SIZES WERE VERIFIED WITH FIELD OBSERVATION HOWEVER BREAKERS AMP RATING WAS NOT LEGIBLE IN ALL.
E9	UTILIZE SPARE BREAKER SPACES PREVIOUSLY FEEDING REMOVED UNIT FOR PROPOSED UNITS TO BE PROVIDED IN THIS PHASE. REFER TO PANEL BOARD DIRECTORY AND ELECRICAL EQUIPMENT SCHEDULE FOR BREAKER AND CIRCUIT INFORMATION.
E10	PROVIDE 20A, 120V-1PH CIRCUIT THROUGH FUSED DISCONNECT WITH AN AUXILIARY CONTACT ON THE MAIN POWER SUPPLY OF THE LIFT. FIELD COORDINATE EXACT DISCONNECT MOUNTING LOCATION PRIOR TO INSTALLATION.
E12	COORDINATE WITH GC FOR ROUTING OF POWER BELOW SLAB FOR FLOOR RECEPTACLE.

REV.	DATE	ITEM

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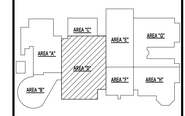

KEY PLAN

NO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWGTITLE

PARTIAL FIRST FL POWER PLAN - AREA D

DRWG. BY: EEA

CHK. BY: AG

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ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
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SED No. 66-14-02-02-0-004-023

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PARTIAL FIRST FL POWER PLAN - AREA D

SCALE: AS NOTED

DATE: 07/07/22

BID P/U DATE:

FILE NO. 21-274C

E4.02 HSMS

POWER SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO EQUIPMENT SCHEDULE ON DRAWING E10.01 FOR MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS.

D. ALL DEVICES SHALL BE RECESSED IN WALL. CONTACT ENGINEER AND ARCHITECT TO COORDINATE ANY AREAS WHERE EXISTING WALLS ARE SHOWN WITH NEW DEVICES.

KEY NOTES

E8	RECONNECT EXISTING DISCONNECT FOR RELOCATED OUTDOOR CONDENSING UNITS. EXTEND CABLES AS NECESSARY MATCHING EXISTING SIZE AND TYPE. COORDINATE WITH MC FOR EXACT UNIT LOCATION.

REV.	DATE	ITEM

NOTICE

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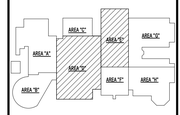
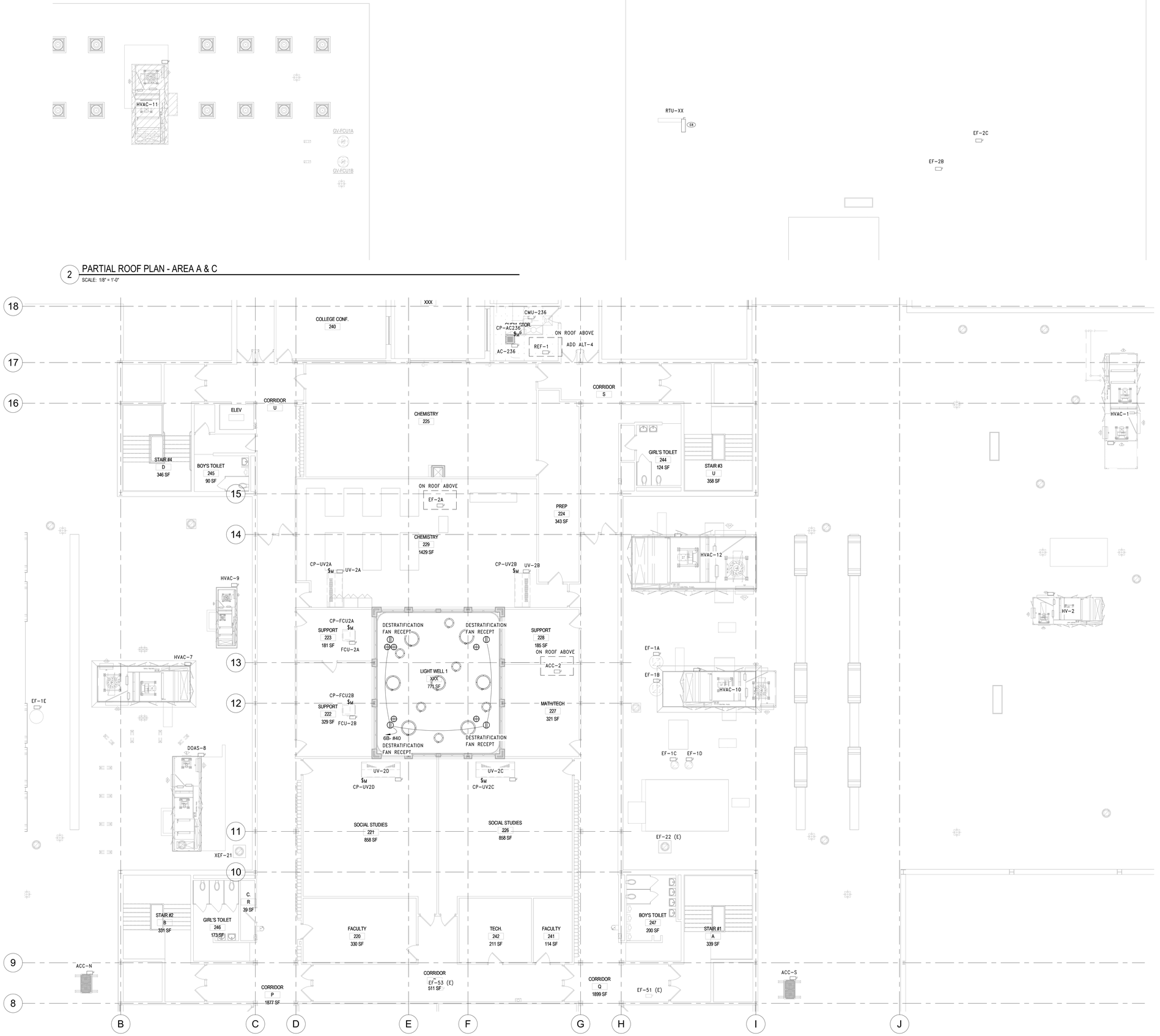
ORIGINAL DOCUMENTS:



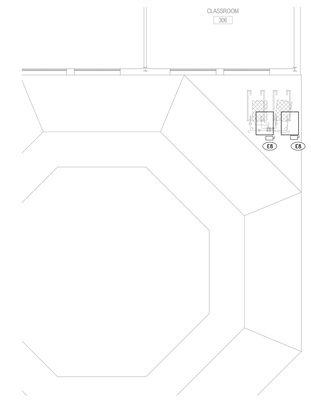
KEY PLAN

NO SCALE



2 PARTIAL ROOF PLAN - AREA A & C
SCALE: 1/8" = 1'-0"

1 NEW WORK PLAN - SECOND FLOOR AREA D
SCALE: 1/8" = 1'-0"



3 NEW WORK PLAN - SECOND FLOOR AREA H
SCALE: 3/32" = 1'-0"

PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: PARTIAL SECOND FLOOR & ROOF PLAN - AREA D & E

DRWG. BY: EEA
CHK. BY: AG

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SED No. 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR U.F.S.D.
PROJECT: PHASE 2 CAPITAL BOND IMPROVEMENTS
DWG TITLE: PARTIAL SECOND FLOOR & ROOF PLAN - AREA D & E
SCALE: As indicated
DATE: 07/07/22
BID P/U DATE:
FILE NO. 21-274C

E4.03 HSMS

SYSTEMS SHEET NOTES

A. CONNECT ALL PROPOSED FIRE ALARM DEVICES TO EXISTING FIRE ALARM CONTROL PANEL. PANEL IS AN EDWARDS IO ADDRESSABLE PANEL LOCATED OUTSIDE OF BOILER ROOM 510.

B. REFER TO DRAWING E10.03 FOR TECHNOLOGY DETAILS.

C. PROVIDE FIRE ALARM RELAY AND CONNECTION FROM FIRE DAMPERS TO FIRE ALARM CONTROL PANEL.

D. ALL DEVICES WITH 'ER' DESIGNATION SHALL BE EXISTING TO BE RELOCATED OR RE-INSTALLED AFTER CEILING INSTALLATION HAS BEEN COMPLETED. RE-INSTALL DEVICES IN PROPOSED LOCATION AND RECONNECT TO ASSOCIATED WIRING.

E. ALL DEVICES SHALL BE RECESSED IN WALL. CONTACT ENGINEER AND ARCHITECT TO COORDINATE ANY AREAS WHERE EXISTING WALLS ARE SHOWN WITH NEW DEVICES.

F. ALL IT AND SECURITY CABLES SHALL BE COLOR CODED AS FOLLOWS:
   A. DATA – BLUE
   B. WIRELESS ACCESS POINTS – GREEN
   C. CAMERAS – PURPLE
   D. DOORS – YELLOW
   E. SECURITY – RED

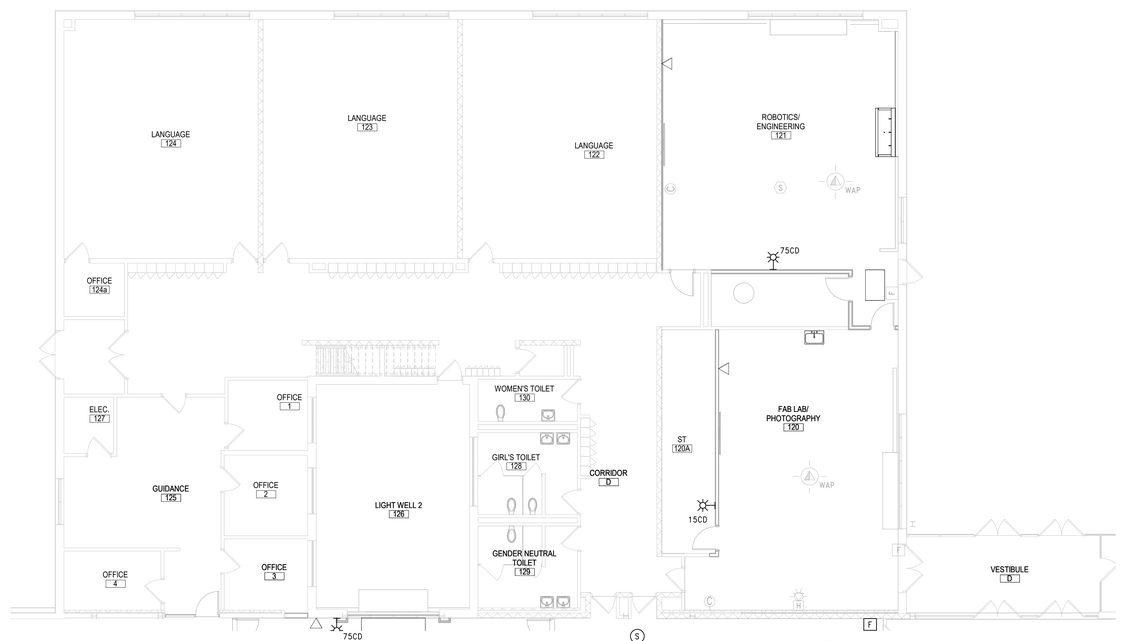
KEY NOTES

E7	PROVIDE FIRE ALARM CONNECTION TO FIRE SMOKE DAMPERS.
E11	PROVIDE EDWARDS FIRE ALARM AUDIO NOTIFICATION SYSTEM PANEL AND CONNECT TO EXISTING FACP. NOTIFICATION PANEL SHALL PROVIDE EXISTING SYSTEM WITH SPEAKER/SPEAKER-STROBE CONNECTIONS FOR DEVICES IN RENOVATED AREA D.



2 PARTIAL FIRST FLOOR PROPOSED SYSTEMS PLANS - AREA A

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



1 PARTIAL FIRST FLOOR PROPOSED SYSTEMS PLANS - AREA C

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

REV.	DATE	ITEM

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KEY PLAN

NO SCALE

PROJECT

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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE

PARTIAL FIRST FL SYSTEMS PLAN - AREA A & C

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ALBANY
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DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PARTIAL FIRST FL SYSTEMS PLAN - AREA A & C

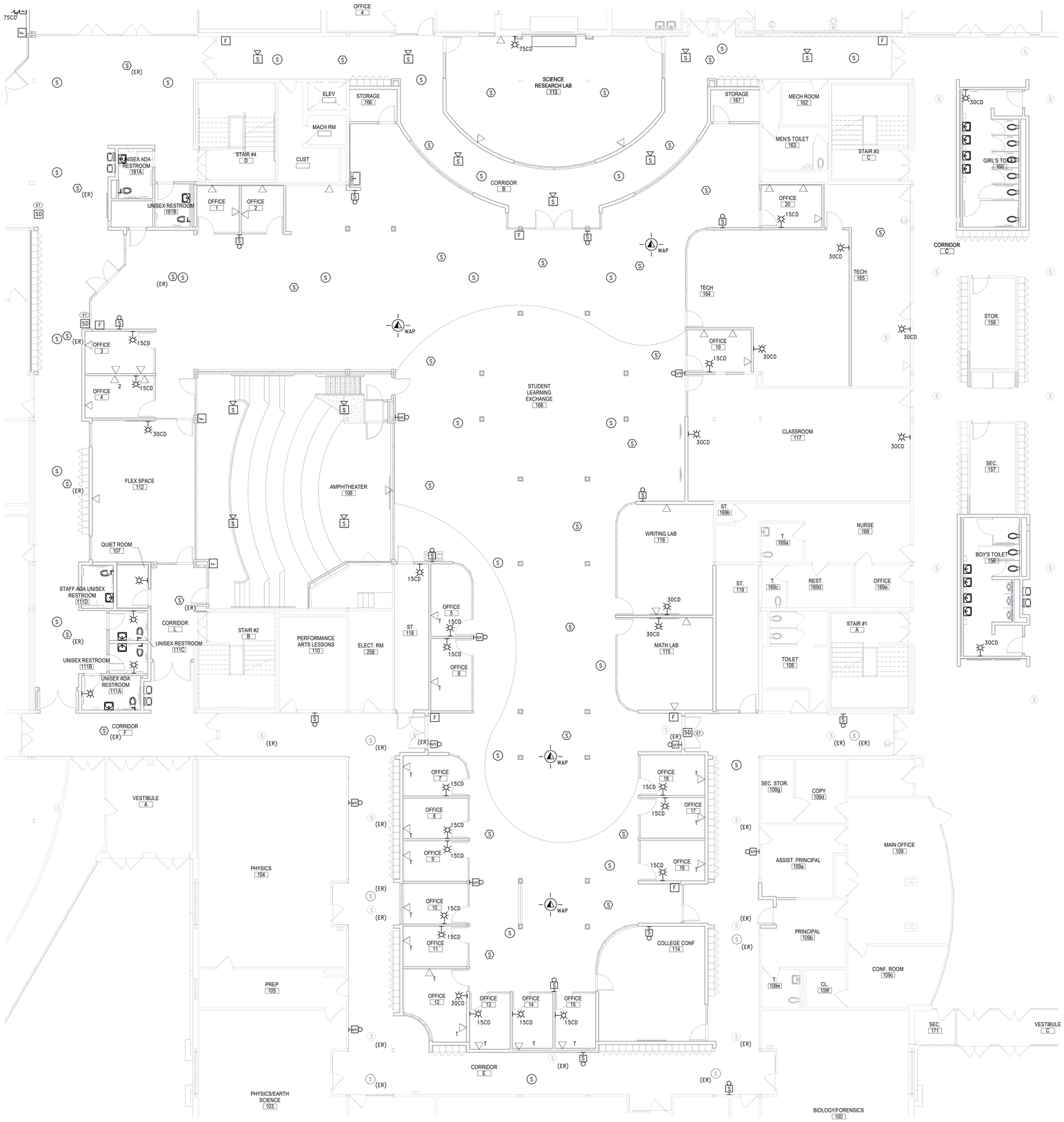
SCALE: AS NOTED

DATE: 07/07/22

BID P/U DATE:

FILE NO. 21-274C

E5.01 HSMS



1 PARTIAL FIRST FLOOR PROPOSED SYSTEMS PLANS - AREA D

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

SYSTEMS SHEET NOTES

A. CONNECT ALL PROPOSED FIRE ALARM DEVICES TO EXISTING FIRE ALARM CONTROL PANEL. PANEL IS AN EDWARDS IO ADDRESSABLE PANEL LOCATED OUTSIDE OF BOILER ROOM 510.

B. REFER TO DRAWING E10.03 FOR TECHNOLOGY DETAILS.

C. PROVIDE FIRE ALARM RELAY AND CONNECTION FROM FIRE DAMPERS TO FIRE ALARM CONTROL PANEL.

D. ALL DEVICES WITH 'ER' DESIGNATION SHALL BE EXISTING TO BE RELOCATED OR RE-INSTALLED AFTER CEILING INSTALLATION HAS BEEN COMPLETED. RE-INSTALL DEVICES IN PROPOSED LOCATION AND RECONNECT TO ASSOCIATED WIRING.

E. ALL DEVICES SHALL BE RECESSED IN WALL. CONTACT ENGINEER AND ARCHITECT TO COORDINATE ANY AREAS WHERE EXISTING WALLS ARE SHOWN WITH NEW DEVICES.

F. ALL IT AND SECURITY CABLES SHALL BE COLOR CODED AS FOLLOWS:
- A. DATA – BLUE
- B. WIRELESS ACCESS POINTS – GREEN
- C. CAMERAS – PURPLE
- D. DOORS – YELLOW
- E. SECURITY – RED

KEY NOTES

E7	PROVIDE FIRE ALARM CONNECTION TO FIRE SMOKE DAMPERS.

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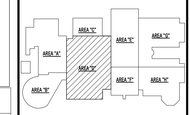

KEY PLAN NO SCALE

PROJECT

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DWG TITLE

PARTIAL FIRST FL SYSTEMS PLAN - AREA D

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DWG TITLE PARTIAL FIRST FL SYSTEMS PLAN - AREA D
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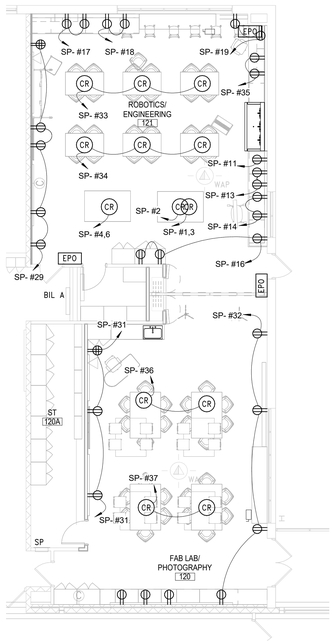
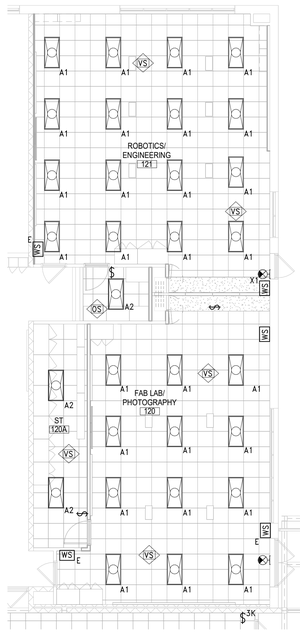
E5.02 HSMS



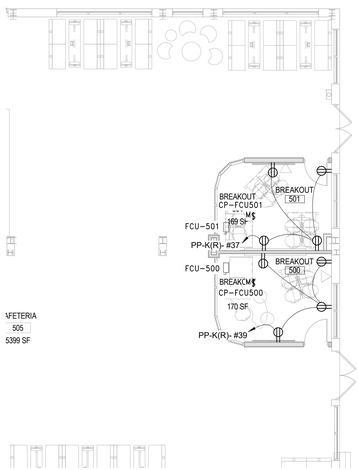
4 FIRST FLOOR PROPOSED PLAN - AREA C ADD ALT

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



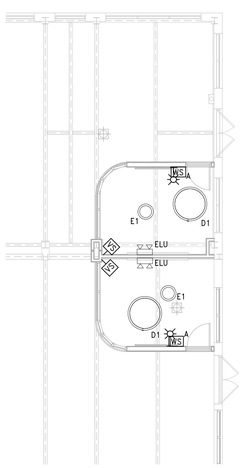
5 FIRST FLOOR REFLECTED CEILING PLAN - AREA C ADD ALT

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



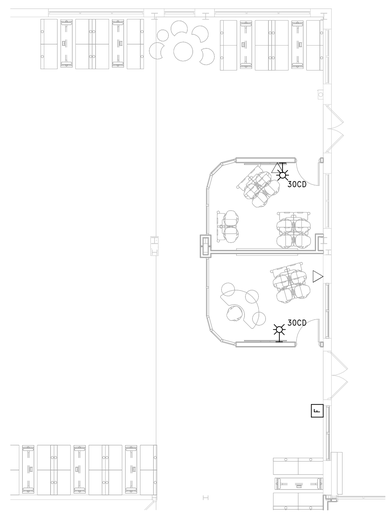
3 FIRST FLOOR PROPOSED PLAN - AREA A ADD ALT

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



2 FIRST FLOOR REFLECTED CEILING PLAN AREA A ADD ALT

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



1 PARTIAL FIRST FLOOR PROPOSED SYSTEMS PLANS - AREA A ADD ALT

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

POWER SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO EQUIPMENT SCHEDULE ON DRAWING E10.01 FOR MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS.

D. ALL DEVICES SHALL BE RECESSED IN WALL. CONTACT ENGINEER AND ARCHITECT TO COORDINATE ANY AREAS WHERE EXISTING WALLS ARE SHOWN WITH NEW DEVICES.

LIGHTING SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO LIGHTING FIXTURE SCHEDULE ON DWG E601.

D. ALL PROPOSED EMERGENCY EXIT LIGHTING SHALL BE CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING DEVICES. UTILIZE (2)#12, #12G. IN 3/4" EMT CONDUIT. EMERGENCY LIGHTING SHALL REMAIN ON AS NIGHT LIGHTS.

SYSTEMS SHEET NOTES

A. CONNECT ALL PROPOSED FIRE ALARM DEVICES TO EXISTING FIRE ALARM CONTROL PANEL. PANEL IS AN EDWARDS IO ADDRESSABLE PANEL LOCATED OUTSIDE OF BOILER ROOM 510.

B. REFER TO DRAWING E10.03 FOR TECHNOLOGY DETAILS.

C. PROVIDE FIRE ALARM RELAY AND CONNECTION FROM FIRE DAMPERS TO FIRE ALARM CONTROL PANEL.

D. ALL DEVICES WITH 'ER' DESIGNATION SHALL BE EXISTING TO BE RELOCATED OR RE-INSTALLED AFTER CEILING INSTALLATION HAS BEEN COMPLETED. RE-INSTALL DEVICES IN PROPOSED LOCATION AND RECONNECT TO ASSOCIATED WIRING.

E. ALL DEVICES SHALL BE RECESSED IN WALL. CONTACT ENGINEER AND ARCHITECT TO COORDINATE ANY AREAS WHERE EXISTING WALLS ARE SHOWN WITH NEW DEVICES.

F. ALL IT AND SECURITY CABLES SHALL BE COLOR CODED AS FOLLOWS:
   A. DATA - BLUE
   B. WIRELESS ACCESS POINTS - GREEN
   C. CAMERAS - PURPLE
   D. DOORS - YELLOW
   E. SECURITY - RED

REV.	DATE	ITEM

NOTICE

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ORIGINAL DOCUMENTS:

KEY PLAN

NO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE

ELECTRICAL ADD-ALTERNATE PLANS

DRWG. BY: EEA

CHK. BY: AG

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

www.BBSARCHITECTURE.COM

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DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 2 CAPITAL BOND IMPROVEMENTS

DWG TITLE ELECTRICAL ADD-ALTERNATE PLANS

SCALE: As indicated

DATE: 07/07/22

BID P/U DATE: 06/16/22

FILE NO. 21-274C

E5.03

HSMS

Branch Panel: MP1-3

Location: ELECT. RM 258 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CKT.	20 A	2	0 VA	0 VA					3	20 A	EXISTING CKT.	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	EXISTING CKT.	20 A	1					0 VA	0 VA	--	--	--	6
7	EXISTING CKT.	20 A	3	0 VA	0 VA					3	20 A	EXISTING CKT.	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	EXISTING CKT.	20 A	3	0 VA	0 VA					3	20 A	EXISTING CKT.	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	EXISTING CKT.	20 A	3	0 VA	0 VA					1	20 A	EXISTING CKT.	20
21	--	--	--			0 VA	0 VA			1	20 A	EXISTING CKT.	22
23	--	--	--					0 VA	0 VA	1	20 A	EXISTING CKT.	24
25	EXISTING CKT.	20 A	1	0 VA						2	20 A	EXISTING CKT.	26
27						0 VA				2	20 A	EXISTING CKT.	28
29	OFFICE 19 & 20	20 A	1					900 VA	0 VA	--	--	--	30
31				0 VA						2	20 A	EXISTING CKT.	32
33	EXISTING CKT.	20 A	1			0 VA	0 VA			--	--	--	34
35													36
37	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	38
39	EXISTING CKT.	20 A	2			0 VA	0 VA			2	20 A	EXISTING CKT.	40
41	--	--	--					0 VA	0 VA	--	--	--	42
		Total Load:		0 VA		0 VA		900 VA					
		Total Amps:		0 A		0 A		8 A					

Notes:
(EXISTING PANEL): ALL NEW BREAKERS SHALL MATCH PANEL'S TYPE AND AIC RATING.

Branch Panel: B1L

Location: ELEC. 127 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EF-2B	20 A	1	1176 VA	0 VA					1	20 A	EXISTING CKT.	2
3	EXISTING CKT.	15 A	2			0 VA	0 VA			1	20 A	EXISTING CKT.	4
5	--	--	--					0 VA	0 VA	1	20 A	EXISTING CKT.	6
7	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	8
9	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	10
11	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	12
13	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	14
15	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	16
17	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	18
19	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	20
21	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	22
23	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	24
25	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	26
27	EXISTING CKT.	20 A	1			0 VA	686.4 VA			2	20 A	UV-1F; UV-1G	28
29	EXISTING CKT.	20 A	1					0 VA	686.4 VA	--	--	--	30
31	EXISTING CKT.	20 A	1	0 VA	1176 VA					1	20 A	EF-2C	32
33													34
35													36
37													38
39													40
41													42
		Total Load:		2352 VA		686 VA		686 VA					
		Total Amps:		20 A		6 A		6 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	3725 VA	100.00%	3725 VA		
				Total Conn. Load:	3725 VA
				Total Est. Demand:	3725 VA
				Total Conn. Current:	10 A
				Total Est. Demand Current:	10 A

Notes:

Branch Panel: PP1-2

Location: CLOSET 73 | **Volts:** 120/208 Wye
Supply From: | **Phases:** 3
Mounting: RECESSED | **Wires:** 4

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT RM M1064 (EXISTING)	20 A	1	0 VA	0 VA					1	20 A	RECEPT RM M1079 (EXISTING)	2
3	RECEPT RM M1063 (EXISTING)	20 A	1			0 VA	0 VA			1	20 A	RECEPT RM M1079 (EXISTING)	4
5	RECEPT RM M1-106 (EXISTING)	20 A	1					0 VA	0 VA	1	20 A	RECEPT RM M1060 (EXISTING)	6
7	ELEC WATER FOUNTAIN (EXISTING)	20 A	1	0 VA	0 VA					1	20 A	RECEPT RM M1060 (EXISTING)	8
9	RECEPT M1-106, 067 (EXISTING)	20 A	1			0 VA	0 VA			1	20 A	RECEPT RM M1060 (EXISTING)	10
11	MAG LOCK DOOR (EXISTING)	20 A	1					0 VA	0 VA	1	20 A	RECEPT RM M1060 (EXISTING)	12
13				0 VA						1	20 A	MOTORIZED FIRE DAMPER	14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Notes:

Branch Panel: PNL X

Location: MECH ROOM 162 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1					1055.6 VA					3	15 A	CMU-236	2
3	EXISTING CKT.	20 A	1			0 VA	1055.6 VA			--	--	--	4
5	EXISTING CKT.	20 A	1					0 VA	1055.6 VA	--	--	--	6
7	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	8
9	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	10
11	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	12
13	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	14
15	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	16
17	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	18
19	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	20
21	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	22
23	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	24
		Total Load:		1056 VA		1056 VA		1056 VA					
		Total Amps:		9 A		9 A		9 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	3167 VA	100.00%	3167 VA		
				Total Conn. Load:	3167 VA
				Total Est. Demand:	3167 VA
				Total Conn. Current:	9 A
				Total Est. Demand Current:	9 A

Notes:

Branch Panel: 6B

Location: ST 118 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: | **Phases:** 3 | **Mains Type:** 100A MLO
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	Spare	20 A	3	0 VA	0 VA					2	20 A	Spare	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	720 VA	1	20 A	REST RM 111D, 111C, 111B & 111A	12
13	RECEPT - RM 112	20 A	1	900 VA	900 VA					1	20 A	RECEPT - RM 112 & CP-UV1C	14
15	CORD REEL RM 112	20 A	1			0 VA	0 VA			1	20 A	CORD REEL RM 112	16
17	CORD REEL RM 112	20 A	1					0 VA	900 VA	1	20 A	RECEPT - OFFICE 3	18
19	RECEPT - OFFICE 4	20 A	1	540 VA	90 VA					2	20 A	PRINTER RECEPT	20
21	MOTORIZED FIRE DAMPER	20 A	1			0 VA	90 VA			--	--	--	22
23	AC-1A; 2D; 1D; 1C	20 A	2					104 VA	182 VA	2	20 A	AC-2A; 3A; 4A; 5A; 6A; 7A; 8A	24
25	--	--	--	104 VA	182 VA					--	--	--	26
27	AC-9A; 10A; 1B; 2B; 11A; 12A; 13A	20 A	2			182 VA	52 VA			2	20 A	AC-1E; 2E	28
29	--	--	--					182 VA	52 VA	--	--	--	30
31	AC-14A; 15A & UV-1E & 1D	20 A	2	478.4 VA	180 VA					1	20 A	UV-1A;1B	32
33	--	--	--			478.4 VA	270.4 VA			2	15 A	UV-1C	34
35	UV-1A;1B; 1H	20 A	2					1393.6 VA	270.4 VA	--	--	--	36
37	--	--	--	1393.6 VA	1392 VA					1	20 A	EF-1C	38
39	EF-1E	20 A	1			696 VA	720 VA			1	20 A	DESTRATIFICATION FANS	40
41	CP-AC236; CP-UV2A; UV2B; UV2C;...	20 A	1					1260 VA	1620 VA	1	20 A	CP-AC15A;AC14A;AC1C;AC3A;AC4A;A...	42
43	CP-AC2D;AC8A-AC9A;AC10A;AC1B;AC...	20 A	1	1440 VA	900 VA					1	20 A	CP-AC2A;AC1E;AC2E;AC13A;AC1A	44
45	CP-UV1E; UV1D; UV1A; UV1B	20 A	1			720 VA	720 VA			1	20 A	COLUMN RECEPT - OPEN AREA	46
47	COLUMN RECEPT - OPEN AREA	20 A	1					1080 VA	1080 VA	1	20 A	COLUMN RECEPT - OPEN AREA	48
49	MOTORIZED FIRE DAMPER	20 A	1	0 VA	0 VA					1	20 A	MOTORIZED FIRE DAMPER	50
51	LIFT DISCONNECT	20 A	1			0 VA	720 VA			1	20 A	RECEPT TOILET 158	52
53	HAND DRYER RM 158	20 A	1					0 VA	0 VA	1	20 A	HAND DRYER RM 158	54
55	WATER COOLER & TV RECEPT	20 A	1	360 VA	720 VA					1	20 A	RECEPT - OUTSIDE 108	56
57	RECEPT - OUTSIDE 108	20 A	1			720 VA							58
59													60
		Total Load:		9580 VA		5369 VA		8844 VA					
		Total Amps:		84 A		45 A		78 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	6373 VA	80.00%	5098 VA		
Motor	7160 VA	100.63%	7205 VA	**Total Conn. Load:**	23793 VA
Receptacle	10260 VA	98.73%	10130 VA	**Total Est. Demand:**	22433 VA
Power	0 VA	0.00%	0 VA	**Total Conn. Current:**	66 A
				Total Est. Demand Current:	62 A

Notes: NEW PANEL

Branch Panel: PP-K(R)

Location: PREP AREA 505d | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	2
3	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	4
5	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	6
7	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	8
9	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	10
11	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	12
13	EXISTING CKT.	20 A	2	0 VA	0 VA					1	20 A	EXISTING CKT.	14
15	--	--	--			0 VA	0 VA			1	20 A	EXISTING CKT.	16
17	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	18
19	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	20
21	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	22
23	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	24
25	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	26
27	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	28
29	EXISTING CKT.	20 A	2					0 VA	0 VA	1	20 A	EXISTING CKT.	30
31	--	--	--	0 VA	0 VA					--	--	--	32
33	EXISTING CKT.	20 A	2			0 VA	900 VA			1	20 A	RECEPT - CAFETERIA ENTRANCE	34
35	--	--	--					0 VA	0 VA	1	20 A	EXISTING CKT.	36
37	RECEPT - BREAKOUT 501 (ADD-ALT)	20 A	1	900 VA	114.4 VA					2	20 A	FCU-500 & 501	38
39	RECEPT - BREAKOUT 500 (ADD-ALT)	20 A	1			900 VA	114.4 VA			--	--	--	40
		Total Load:		1014 VA		1914 VA		0 VA					
		Total Amps:		10 A		17 A		0 A					

Notes:
(EXISTING PANEL): ALL NEW BREAKERS SHALL MATCH PANEL'S TYPE AND AIC RATING. FIELD VERIFY EXISTING PANELS RATING.

Branch Panel: EC-7

Location: ST 118 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22000
Supply From: | **Phases:** 3 | **Mains Type:** 100A MLO
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CKT	20 A	3	0 VA	0 VA					3	20 A	EXISTING CKT	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	EXISTING CKT	20 A	3	0 VA	0 VA					3	20 A	EXISTING CKT	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	REST RM 181A & 181B	20 A	1	900 VA	0 VA					1	20 A	HAND DRYER 181A	14
15	RECEPT OFFICE 1 & 2	20 A	1			1260 VA	1620 VA			1	20 A	RECEPT RM 164 & 168	16
17	RECEPT LAB 116	20 A	1					720 VA	900 VA	1	20 A	RECCEPT RM 116 & 119	18
19	HAND DRYER 181B	20 A	1	0 VA	900 VA					1	20 A	RECEPT LAB 115	20
21	RECEPT OFFICE 18	20 A	1			1080 VA	1260 VA			1	20 A	RECEPT OFFICE 16 & 17	22
23	RECEPT CONF 114	20 A	1					720 VA	720 VA	1	20 A	FLOOR RECEPT 114	24
25	RECEPT CONF 114	20 A	1	720 VA	1080 VA					1	20 A	RECEPT - OFFICE 12 & 13	26
27	RECEPT OFFICE 13 & 14	20 A	1			720 VA	1080 VA			1	20 A	RECEPT OFFICE 15	28
29	RECEPT - OFFICE 11 & 12	20 A	1					1080 VA	1440 VA	1	20 A	RECEPT OFFICE 9 & 10	30
31	RECEPT OFFICE 7 & 8	20 A	1	1260 VA	720 VA					1	20 A	RECEPT - OPEN AREA	32
33	RECEPT - OFFICE 6	20 A	1			720 VA	720 VA			1	20 A	RECEPT OFFICE 5	34
35	RECEPT - AMPHITHEATER	20 A	1					720 VA	540 VA	1	20 A	RECEPT - AMPHITHEATER	36
37	HAND DRYER 111A	20 A	1	0 VA	0 VA					1	20 A	HAND DRYER 111B	38
39	HAND DRYER 111C	20 A	1			0 VA	0 VA			1	20 A	HAND DRYER 111D	40
41	FLOOR RECEPT - OPEN AREA	20 A	1					360 VA	0 VA	1	20 A	MOTOR OPERATED DAMPER	42
43	RECEPT - LEARNING EXHANGE	20 A	1	1080 VA	1080 VA					1	20 A	RECEPT - LEARNING EXCHANGE	44
45	RECEPT - LEARNING EXCHANGE	20 A	1			1080 VA	1080 VA			1	20 A	RECEPT - LEARNING EXCHANGE	46
47	RECEPT - LEARNING EXCHANGE	20 A	1					1080 VA	180 VA	1	20 A	Receptacle	48
49	RECEPT 164 & 20	20 A	1	720 VA	180 VA					1	20 A	Receptacle	50
51													52
53													54
55													56
57													58
59													60
		Total Load:		8640 VA		10620 VA		8460 VA					
		Total Amps:		72 A		89 A		71 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	0 VA	0.00%	0 VA		
Receptacle	27720 VA	68.04%	18860 VA	**Total Conn. Load:**	27720 VA
				Total Est. Demand:	18860 VA
				Total Conn. Current:	77 A
				Total Est. Demand Current:	52 A

Notes: NEW PANEL

Branch Panel: B1P

Location: OFFICE 124a | **Volts:** 120/208 Wye | **A.I.C. Rating:** 65000
Supply From: | **Phases:** 3 | **Mains Type:** 300A MCB
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 300 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CKT.	20 A	2	0 VA	0 VA					2	20 A	EXISTING CKT.	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	EXISTING CKT.	20 A	3					0 VA	0 VA	3	20 A	EXISTING CKT.	6
7	--	--	--	0 VA	0 VA					--	--	--	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	EXISTING CKT.	20 A	3					0 VA	0 VA	3	20 A	EXISTING CKT.	12
13	--	--	--	0 VA	0 VA					--	--	--	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	EXISTING CKT.	20 A	2					0 VA	0 VA	1	20 A	EXISTING CKT.	18
19	--	--	--	0 VA	0 VA					1	20 A	EXISTING CKT.	20
21	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	22
23	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	24
25	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	26
27	C	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	28
29	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	30
31	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	32
33	RECEPT - LAB 113	20 A	1			540 VA	0 VA			1	20 A	CORD REELS LAB 113	34
35	RECEPT- LAB 113	20 A	1					720 VA	720 VA	1	20 A	RECEPT - LAB 113	36
37	CORD REELS LAB 113	20 A	1	0 VA	900 VA					1	20 A	RECEPT - STUDENT LEARNING	38
39	RECEPT - AC SINK	20 A	1			360 VA	720 VA			1	20 A	RECEPT - DESK	40
41	RECEPT - DESK	20 A	1					720 VA					42
		Total Load:		900 VA		1620 VA		2160 VA					
		Total Amps:		8 A		14 A		19 A					

Notes:
(EXISTING PANEL): ALL NEW BREAKERS SHALL MATCH PANEL'S TYPE AND AIC RATING.

Branch Panel: SP

Location: ST 120A | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** 250A MLO
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	JOINER CORD REEL	15 A	2	0 VA	0 VA					1	20 A	BAND SAW CORD REEL	2
3	--	--	--			0 VA	0 VA			2	15 A	TABLE SAW	4
5	DRILL PRESS	20 A	3					60 VA	0 VA	--	--	--	6
7	--	--	--	60 VA	60 VA					3	20 A	DRILL PRESS	8
9	--	--	--			60 VA	60 VA			--	--	--	10
11	BENCH BAND SAW	20 A	1					180 VA	60 VA	--	--	--	12
13	SANDER RECEPT -RM 121	20 A	1	360 VA	360 VA					1	20 A	RECEPT - SANDERS	14
15	RECEPT - DRILL PRESS	20 A	1			360 VA	540 VA			1	20 A	RECEPTACLE 121	16
17	3D PRINTER RECEPT	20 A	1					360 VA	360 VA	1	20 A	3D PRINTER	18
19	RECEPT - RM 121	20 A	1	360 VA									20
21	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	22
23	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	24
25	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	26
27	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	28
29	RECEPT - RM 121	20 A	1					1080 VA	540 VA	1	20 A	RECEPT - RM 120	30
31	RECEPT - RM 120	20 A	1	720 VA	720 VA					1	20 A	RECEPT - RM 120	32
33	CORD REEL RM 121	20 A	1			0 VA	0 VA			1	20 A	CORD REEL RM 121	34
35	WIND TUNNEL RECEPT 121	20 A	1					360 VA	0 VA	1	20 A	CORD REEL RM 120	36
37	RECEPT - RM 120	20 A	1	0 VA	0 VA					1	20 A	HAND DRYER 160	38
39	HAND DRYER 160	20 A	1			0 VA							40
41	RECEPT CORRIDOR B & RM 160	20 A	1					360 VA					42
		Total Load:		2640 VA		1020 VA		3360 VA					
		Total Amps:		24 A		9 A		30 A					

Notes:
(EXISTING PANEL): ALL NEW BREAKERS SHALL MATCH PANEL'S TYPE AND AIC RATING.

Branch Panel: LPE-10

Location: MECH ROOM 162 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: RECESSED | **Wires:** 4 | **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	2
3	Spare	20 A	1			0 VA	765.6 VA			2	20 A	UV-2A; 2B; 2C; 2D FCU-2A; 2B;AC-236	4
5	EF-2A	20 A	1					1176 VA	765.6 VA	--	--	--	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	EF-1A	20 A	1			1176 VA	0 VA			1	20 A	Spare	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	1656 VA					1	20 A	EF-1B	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA					24
		Total Load:		1656 VA		1942 VA		1942 VA					
		Total Amps:		14 A		17 A		17 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	5539 VA	80.00%	4431 VA		
				Total Conn. Load:	5539 VA
				Total Est. Demand:	4431 VA
				Total Conn. Current:	15

Branch Panel: 9A

Location: ST 118 | **Supply From:** | **Mounting:** RECESSED | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** | **Mains Type:** 225A MLO | **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CKT	20 A	3	0 VA	0 VA					3	20 A	EXISTING CKT	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	EXISTING CKT	20 A	3	0 VA	0 VA					3	20 A	EXISTING CKT	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	EXISTING CKT	20 A	3	0 VA	0 VA					3	20 A	EXISTING CKT	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: 9B

Location: ST 118 | **Supply From:** | **Mounting:** RECESSED | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** | **Mains Type:** 400 MLO | **Mains Rating:** 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	--	--	--	24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: EC-3

Location: ST 118 | **Supply From:** | **Mounting:** RECESSED | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** | **Mains Type:** 225A MLO | **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	15 A	3	0 VA	0 VA					3	20 A	Spare	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	--	--	--	24
25	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31	Spare	20 A	3	0 VA	0 VA					3	20 A	Spare	32
33	--	--	--			0 VA	0 VA			--	--	--	34
35	--	--	--					0 VA	0 VA	--	--	--	36
37	Spare	20 A	3	0 VA									38
39	--	--	--			0 VA							40
41	--	--	--					0 VA					42
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: EC-5

Location: ST 118 | **Supply From:** | **Mounting:** RECESSED | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** | **Mains Type:** 400 MLO | **Mains Rating:** 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Spare	30 A	2	0 VA	0 VA					2	20 A	Spare	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	Spare	20 A	2					0 VA	0 VA	2	20 A	Spare	6
7	--	--	--	0 VA	0 VA					--	--	--	8
9	Spare	20 A	3			0 VA	0 VA			3	20 A	Spare	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	--	--	--	0 VA	0 VA					--	--	--	14
15	Spare	20 A	3			0 VA							16
17	--	--	--					0 VA					18
19	--	--	--	0 VA									20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: PP-K(R)

Location: PREP AREA 505d | **Supply From:** | **Mounting:** RECESSED | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** | **Mains Type:** MLO | **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	2
3	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	4
5	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	6
7	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	8
9	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	10
11	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	12
13	EXISTING CKT.	20 A	2	0 VA	0 VA					1	20 A	EXISTING CKT.	14
15	--	--	--			0 VA	0 VA			1	20 A	EXISTING CKT.	16
17	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	18
19	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	20
21	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	22
23	EXISTING CKT.	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT.	24
25	EXISTING CKT.	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT.	26
27	EXISTING CKT.	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT.	28
29	EXISTING CKT.	20 A	2					0 VA	0 VA	2	20 A	EXISTING CKT.	30
31	--	--	--	0 VA	0 VA					--	--	--	32
33	EXISTING CKT.	20 A	2			0 VA	900 VA			1	20 A	RECEPT - CAFETERIA ENTRANCE	34
35	--	--	--					0 VA	0 VA	1	20 A	EXISTING CKT.	36
37	RECEPT - BREAKOUT 501 (ADD-ALT)	20 A	1	900 VA	114.4 VA					2	20 A	FCU-500 & 501	38
39	RECEPT - BREAKOUT 500 (ADD-ALT)	20 A	1			900 VA	114.4 VA			--	--	--	40
		Total Load:		1014 VA		1914 VA		0 VA					
		Total Amps:		10 A		17 A		0 A					

Notes:
(EXISTING PANEL): ALL NEW BREAKERS SHALL MATCH PANEL'S TYPE AND AIC RATING. FIELD VERIFY EXISTING PANELS RATING.

REV.	DATE	ITEM

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ORIGINAL DOCUMENTS:

KEY PLAN

NO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE

PANELBOARD DIRECTORIES - ADD ALTERNATE

DRWG. BY: EEA
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ENGINEERS
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
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F. 518.621.7655
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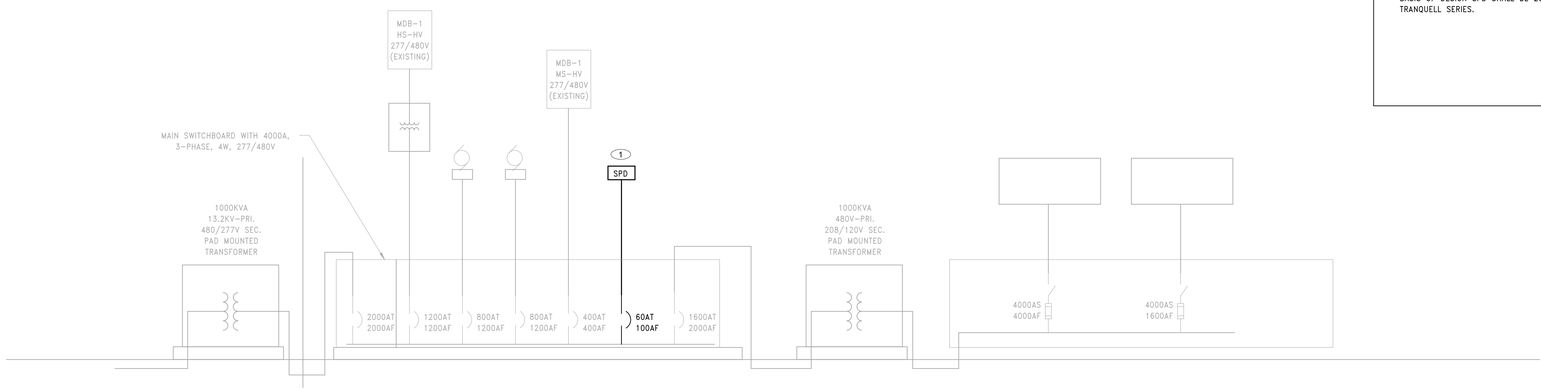
SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 CAPITAL BOND IMPROVEMENTS
DWG TITLE PANELBOARD DIRECTORIES - ADD ALTERNATE
SCALE:
DATE: 07/07/22
BID P/U DATE: 11/08/22
FILE NO. 21-274C

E8.02 HSMS



1 POWER RISER DIAGRAM - HIGH SCHOOL SPD
SCALE: NTS

SYMBOLS	SHEET NOTES
(1) PROVIDE SURGE PROTECTIVE DEVICE (SPD) FOR EXISTING GE SPECTRA MAIN SERVICE SWITCHBOARD. BASIS OF DESIGN SPD SHALL BE 200KA GE TRANQUELL SERIES.	A. ONE-LINE RISER AS SHOWN IS BASED ON EXISTING PLANS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY POWER DISTRIBUTION AS SHOWN. B. ALL NEW BREAKERS SHALL MATCH EXISTING PANEL TYPE AND AIC RATING. C. GRAY, HALF-TONED LINES INDICATE EXISTING EQUIPMENT.

REV.	DATE	ITEM

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ORIGINAL DOCUMENTS:

KEY PLAN
NO SCALE

PROJECT
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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE
POWER RISER DIAGRAM

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655
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DISTRICT	BRIARCLIFF MANOR U.F.S.D.
PROJECT	PHASE 2 CAPITAL BOND IMPROVEMENTS
DWG TITLE	POWER RISER DIAGRAM
SCALE:	NTS
DATE:	07/07/22
BID P/U DATE:	07/04/22
FILE NO.	21-274C

E9.01 HSMS

265000 - LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE / CCT / LAMP / CRI	VOLTAGE	REMARKS
A1	2'X4' RECESSED LED WITH BEVEL OPTION. DLC LISTED WITH 6500 LUMEN PACKAGE.	COOPER METALUX	24PD-65-PB1-L835	50W/3500K/LED/80+	UNV	
A1-EM	SAME AS A1 WITH EMERGENCY BATTERY PACK OPTION	COOPER METALUX	24PD-65-PB1-EL7W-L835	50W/3500K/LED/80+	UNV	
A2	2'X4' RECESSED LED WITH BEVEL OPTION. DLC LISTED WITH 3500 LUMEN PACKAGE.	COOPER METALUX	24PD-35-PB1-L835	26W/3500K/LED/80+	UNV	
A2-EM	SAME AS A2 WITH EMERGENCY BATTERY PACK OPTION	COOPER METALUX	24PD-35-PB1-EL7W-L835	26W/3500K/LED/80+	UNV	
A3	2'X4' RECESSED LED WITH BEVEL OPTION. DLC LISTED WITH 8500 LUMEN PACKAGE.	COOPER METALUX	24PD-85-PB1-L835	65W/3500K/LED/80+	UNV	
B1	2'X2' RECESSED LED WITH BEVEL OPTION. DLC LISTED WITH 3000 LUMEN PACKAGE.	COOPER METALUX	22PD-30-PB1-L835	25W/3500K/LED/80+	UNV	
B1-EM	SAME AS B1 WITH EMERGENCY BATTERY PACK OPTION	COOPER METALUX	22PD-30-PB1-EL7W-L835	25W/3500K/LED/80+	UNV	
B2	2'X2' RECESSED LED WITH BEVEL OPTION. DLC LISTED WITH 6500 LUMEN PACKAGE.	COOPER METALUX	22PD-65-PB1-L835	58W/3500K/LED/80+	UNV	
B2-EM	SAME AS B2 WITH EMERGENCY BATTERY PACK OPTION	COOPER METALUX	22PD-65-PB1-EL7W-L835	58W/3500K/LED/80+	UNV	
B3	2'X2' RECESSED LED WITH BEVEL OPTION. DLC LISTED WITH 5500 LUMEN PACKAGE.	COOPER METALUX	22PD-55-PB1-L835	46W/3500K/LED/80+	UNV	
B3-EM	SAME AS B3 WITH EMERGENCY BATTERY PACK OPTION	COOPER METALUX	22PD-55-PB1-EL7W-L835	46W/3500K/LED/80+	UNV	
C1	6-INCH LED SELF-FLANGED, LENSED DOWNLIGHT WITH 2000 LUMEN PACKAGE.	COOPER HALO	PR6FS24D010	20W/3500K/LED/80+	UNV	
C1-EM	SAME AS C1 WITH EMERGENCY BATTERY PACK OPTION	COOPER HALO	PR6FS24D010-REM7	20W/3500K/LED/80+	UNV	
D1	ROUND 55" SUSPENDED DIRECT/INDIRECT LED FIXTURE WITH MOSSWALL WASABI	INTRA LIGHTING - ACOUSTO	12830-2-U-C-3-0-1-2-2	140W/3500K/LED/80+	UNV	
E1	ROUND 24" SUSPENDED DIRECT/INDIRECT LED FIXTURE WITH SATIN OPAL	INTRA LIGHTING - WAVE ROUND	12610-3-U-C-1-0-1	29W/3500K/LED/80+	UNV	
ELU	EMERGENCY LIGHTING UNIT - UL924 COMPLAINT WITH DUAL VOLTAGE INPUT, BROWNOUT CIRCUIT, SEALED NICKEL CADMIUM BATTERYBACK-UP	COOPER ATLITE	ATLELD-A-100-SD	LED	UNV	
F1	DIRECT/INDIRECT 4' LINEAR LED FIXTURE STRUCTURE MOUNTED WITH 6500 LUMEN PACKAGE.	COOPER NEO-RAY	S921DIP-W535-ST4S-4-UDD-W	68W/3500K/LED/80+	UNV	
F1-EM	SAME AS F1 WITH EMERGENCY BATTERY PACK OPTION	COOPER NEO-RAY	S921DIP-W535-ST4S-4-UDD-W-EL7W	68W/3500K/LED/80+	UNV	
F2	DIRECT/INDIRECT 8' LINEAR LED FIXTURE STRUCTURE MOUNTED WITH 6500 LUMEN PACKAGE.	COOPER NEO-RAY	S921DIP-W535-ST8S-4-UDD-W	136W/3500K/LED/80+	UNV	
F2-EM	SAME AS F2 WITH EMERGENCY BATTERY PACK OPTION	COOPER NEO-RAY	S921DIP-W535-ST8S-4-UDD-W-EL7W	136W/3500K/LED/80+	UNV	
G1	DIRECT LED LINEAR RECESSED FIXTURE. DLC LISTED	COOPER NEO-RAY	S124DR-S-795D-35-U-DD	6.8W/FT/3500K/LED/80+	UNV	REFER TO FLOOR PLA FOR FIXTURE LENGTHS
X1	WALL MOUNTED EXIT FIXTURE WITH DUAL VOLTAGE INPUT, SELF-DIAGNOSTIC, LONG LIFE LED, BROWNOUT CIRCUIT, OVERLOAD/SHORT CIRCUIT PROTECTION	COOPER SURE-LITES	EUX7-R-WH-SD	LED	UNV	
X2	SAME AS X1 - CEILING MOUNTED	COOPER SURE-LITES	EUX7-R-WH-SD	LED	UNV	

Electrical Equipment Schedule

TAG	DESCRIPTION	VOLTAGE	PHASE	AMPS - (FLA/MCA)	POWER PANEL	CIRCUIT NUMBER	BREAKER RATING	WIRE	PROVIDE DISCONNECT	DISCONNECT	VFD	PROVIDE DUCT SMOKE	FSD	Notes
AC-1A	INDOOR UNIT	208 V	1	.25 MCA	6B	23,25	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-1B	INDOOR UNIT	208 V	1	.25 MCA	6B	27,29	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-1C	INDOOR UNIT	208 V	1	1.6 MCA	6B	23,25	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-1D	INDOOR UNIT	208 V	1	1.6 MCA	6B	23,25	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-1E	INDOOR UNIT	208 V	1	2.3 MCA	6B	28,30	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-2A	INDOOR UNIT	208 V	1	.25 MCA	6B	24,26	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-2B	INDOOR UNIT	208 V	1	.25 MCA	6B	27,29	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-2D	INDOOR UNIT	208 V	1	1.6 MCA	6B	23,25	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-2E	INDOOR UNIT	208 V	1	2.3 MCA	6B	28,30	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-3A	INDOOR UNIT	208 V	1	.25 MCA	6B	24,26	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-4A	INDOOR UNIT	208 V	1	.25 MCA	6B	24,26	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-5A	INDOOR UNIT	208 V	1	.25 MCA	6B	24,26	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-6A	INDOOR UNIT	208 V	1	.25 MCA	6B	24,26	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-7A	INDOOR UNIT	208 V	1	.25 MCA	6B	24,26	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-8A	INDOOR UNIT	208 V	1	.25 MCA	6B	24,26	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-9A	INDOOR UNIT	208 V	1	.25 MCA	6B	27,29	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-10A	INDOOR UNIT	208 V	1	.25 MCA	6B	27,29	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-11A	INDOOR UNIT	208 V	1	.25 MCA	6B	27,29	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-12A	INDOOR UNIT	208 V	1	.25 MCA	6B	27,29	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-13A	INDOOR UNIT	208 V	1	.25 MCA	6B	27,29	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-14A	INDOOR UNIT	208 V	1	.25 MCA	6B	31,33	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-15A	INDOOR UNIT	208 V	1	.25 MCA	6B	31,33	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
AC-23G	INDOOR UNIT	208 V	1	.2 MCA	LPE-10	4,6	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
ACC-2	OUTDOOR AIR UNIT	480 V	3	37.2 FLA	MPH-1	1,3,5	50A-3P	(3)#6, #10G. IN 1" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
ACC-N	OUTDOOR AIR UNIT	480 V	3	18.4 MCA	MPH-1	25,27,29	25A-3P	(3)#10, #10G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
ACC-S	OUTDOOR AIR UNIT	480 V	3	18.4 MCA	MPH-1	20,22,24	25A-3P	(3)#10, #10G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CMU-236	MAKEUP AIR UNIT	208 V	3	10.99 MCA	PNL X	2,4,6	15A-3P	(3)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC1A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	44	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC1B	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	43	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC1C	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC1D	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC1E	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	44	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC2A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	44	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC2B	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	43	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC2D	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	43	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC2E	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	44	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC3A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC4A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC5A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC6A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC7A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC8A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	43	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC9A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	43	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC10A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	43	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC11A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	43	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC12A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	43	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC13A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	44	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC14A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC15A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	42	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-AC23G	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	41	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-FCU2A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	41	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-FCU2B	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	41	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-FCU500	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	PP-K(R)	39	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-FCU501	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	PP-K(R)	37	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV1A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	45	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV1B	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	45	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV1C	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	14	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV1D	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	45	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV1E	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	45	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV1H	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	B1P	36	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV2A	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	41	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV2B	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	41	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV2C	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	41	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
CP-UV2D	CONDENSATE DRAIN PUMP	120 V	1	1.5 FLA	6B	41	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
DOAS-8	ROOF TOP UNIT	480 V	3	10 MCA	MPH-1	2,4,6	15A-3P	(3)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
EF-1A	EXHAUST FAN	120 V	1	9.8 FLA	LPE-10	9	20A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
EF-1B	EXHAUST FAN	120 V	1	13.8 FLA	LPE-10	20	20A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
EF-1C	EXHAUST FAN	120 V	1	5.8 FLA	6B	38	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
EF-1D	EXHAUST FAN	120 V	1	5.8 FLA	6B	38	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
EF-1E	EXHAUST FAN	120 V	1	5.8 FLA	6B	39	15A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
EF-2A	EXHAUST FAN	120 V	1	9.8 FLA	LPE-10	5	20A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
EF-2B	EXHAUST FAN	120 V	1	9.8 FLA	B1L	1	20A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
EF-2C	EXHAUST FAN	120 V	1	9.8 FLA	B1L	32	20A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
FCU-2A	FAN COIL UNIT	208 V	1	3.8 MCA	LPE-10	4,6	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
FCU-2B	FAN COIL UNIT	208 V	1	3.8 MCA	LPE-10	4,6	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
FCU-500	FAN COIL UNIT	208 V	1	6 FLA	PP-K(R)	38,40	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
FCU-501	FAN COIL UNIT	208 V	1	6 FLA	PP-K(R)	38,40	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
HV-2	INDOOR UNIT	480 V	3	28 MCA	MPH-1	14,16,18	40A-3P	(3)#6, #10G. IN 1" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
HVAC-1	ROOF TOP UNIT	480 V	3	28 MCA	MPH-1	19,21,23	40A-3P	(3)#6, #10G. IN 1" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
HVAC-7	ROOF TOP UNIT	480 V	3	28 MCA	MDB1-HS-HV	2	40A-3P	(3)#6, #10G. IN 1" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
HVAC-9	ROOF TOP UNIT	480 V	3	13 MCA	MPH-1	7,9,11	15A-3P	(3)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
HVAC-10	ROOF TOP UNIT	480 V	3	22 MCA	MPH-1	13,15,17	30A-3P	(3)#10, #10G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
HVAC-11	ROOF TOP UNIT	480 V	3	38 MCA	MDB1-HS-HV	1	50A-3P	(3)#6, #10G. IN 1" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
HVAC-12	ROOF TOP UNIT	480 V	3	38 MCA	MPH-1	8,10,12	50A-3P	(3)#6, #10G. IN 1" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1,2
REF-1	EXHAUST FAN	120 V	1	5.8 FLA	<unnamed>		20A-1P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-1A	UNIT VENTILATOR	208 V	1	6.8 FLA	6B	35,37	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-1B	UNIT VENTILATOR	208 V	1	3.3 FLA	6B	35,37	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-1C	UNIT VENTILATOR	208 V	1	2.6 FLA	6B	34,36	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-1D	UNIT VENTILATOR	208 V	1	2.3 FLA	6B	31,33	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-1E	UNIT VENTILATOR	208 V	1	2.3 FLA	6B	31,33	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-1F	UNIT VENTILATOR	208 V	1	3.3 FLA	B1L	28,30	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-1G	UNIT VENTILATOR	208 V	1	3.3 FLA	B1L	28,30	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-1H	UNIT VENTILATOR	208 V	1	3.3 FLA	6B	35,37	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-2A	UNIT VENTILATOR	208 V	1	.1 MCA	LPE-10	4,6	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-2B	UNIT VENTILATOR	208 V	1	.1 MCA	LPE-10	4,6	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-2C	UNIT VENTILATOR	208 V	1	.1 MCA	LPE-10	4,6	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1
UV-2D	UNIT VENTILATOR	208 V	1	.1 MCA	LPE-10	4,6	15A-2P	(2)#12, #12G. IN 3/4" C.	No	MC FURNISHED/EC INSTALLED	No	No	No	1

NOTES:
1. DISCONNECTS, COMBINATION STARTERS, VFDS TO BE MC FURNISHED/EC INSTALLED.
2. PROVIDE FIRE SHUT DOWN AND DUCT SMOKE DETECTOR WITH REMOTE TEST STATION. CONNECT TO EXISTING FIRE ALARM SYSTEM.

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.

PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWG/TITLE: SCHEDULES

DRWG. BY: EEA
CHK. BY: AG

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
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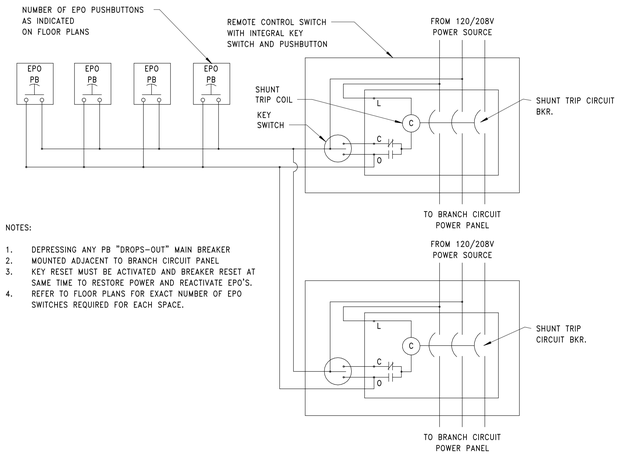
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
www.BBSARCHITECTURE.COM

SED No. 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR U.F.S.D.
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: SCHEDULES
SCALE: AS NOTED
DATE: 07/07/22
BID P/U DATE:
FILE NO. 21-274C

E10.01 | HSMS

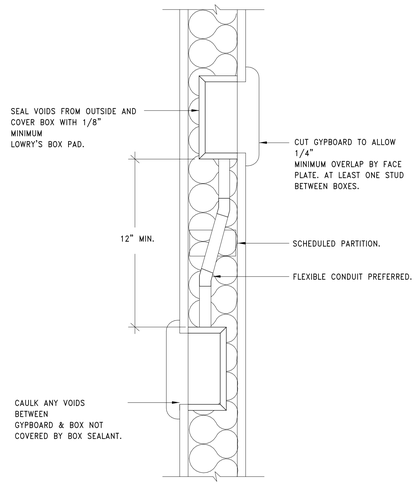


NOTES:

1. DEPRESSING ANY PB "DROPS-OUT" MAIN BREAKER
2. MOUNTED ADJACENT TO BRANCH CIRCUIT PANEL
3. KEY RESET MUST BE ACTIVATED AND BREAKER RESET AT SAME TIME TO RESTORE POWER AND REACTIVATE EPO'S.
4. REFER TO FLOOR PLANS FOR EXACT NUMBER OF EPO SWITCHES REQUIRED FOR EACH SPACE.

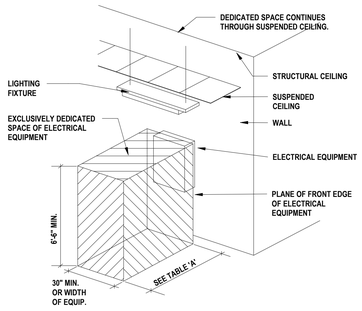
6 EPO/SHUNT-TRIP CIRCUIT BREAKER SCHEMATIC

SCALE: NTS



3 ELECTRICAL & TECHNICAL SYSTEMS BACKBOX INSTALLATION DETAIL

SCALE: NTS



NOTES:

THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
SEE N.E.C. FOR VOLTAGES GREATER THAN THOSE LISTED.
SEE N.E.C. FOR EXCEPTIONS TO TABLE 'A'.

NEC 110.26 (A) (1) - WORKING CLEARANCES			
VOLTAGE TO GROUND NOMINAL	MINIMUM CLEAR DISTANCE (FEET) CONDITION: 1	2	3
0 - 150	3	3	3
151 - 600	3	3.5	4

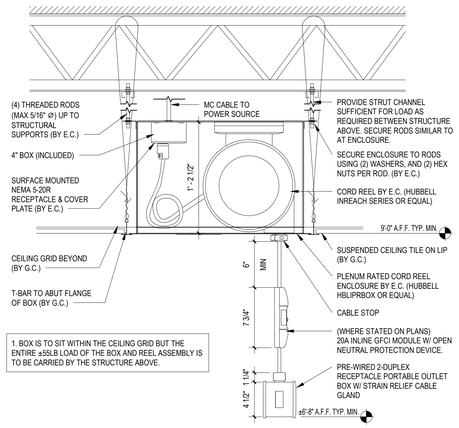
NEC 110.34 (A) - WORKING CLEARANCES			
VOLTAGE TO GROUND NOMINAL	MINIMUM CLEAR DISTANCE (FEET) CONDITION: 1	2	3
601 - 2500	3	4	5
2501 - 9000	4	5	6
9001 - 25,000	5	6	9
25,001 - 75 kV	6	8	10
ABOVE 75kV	8	10	12

WHERE THE CONDITIONS ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

5 TYPICAL HORIZONTAL WORKING CLEARANCE

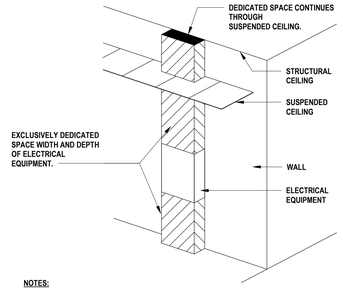
SCALE: N.T.S.



1. BOX IS TO SIT WITHIN THE CEILING GRID BUT THE ENTIRE ±50LB LOAD OF THE BOX AND REEL ASSEMBLY IS TO BE CARRIED BY THE STRUCTURE ABOVE.

2 CORD REEL DETAIL

SCALE: NTS

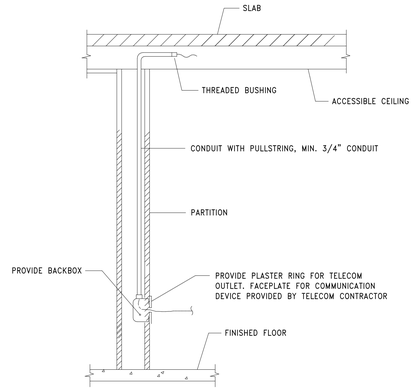


NOTES:

1. THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER THE ELECTRICAL EQUIPMENT FOR CABLES, RACEWAYS, ETC. TO AND FROM THE ELECTRICAL EQUIPMENT. THE DEDICATED SPACE EXTENDS ABOVE THE EQUIPMENT 6 FEET OR TO STRUCTURAL CEILING WHICHEVER IS LOWER.
2. THIS APPLIES TO SURFACE OR RECESSED ELECTRICAL EQUIPMENT.
3. FOR EXCEPTIONS SEE N.E.C.

4 TYPICAL VERTICAL WORKING CLEARANCE

SCALE: N.T.S.



1 CONDUIT STUB UP FOR TELECOM OUTLETS AT ACCESSIBLE CEILINGS

SCALE: NTS

REV.	DATE	ITEM

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ORIGINAL DOCUMENTS:

KEY PLAN

NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

ELECTRICAL DETAILS

DWGTITLE

DRWG. BY: EEA
CHK. BY: AG

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ENGINEERS
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PATCHOGUE
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F. 631.475.0361
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NEW YORK 12205
T. 518.621.7650
F. 518.621.7655
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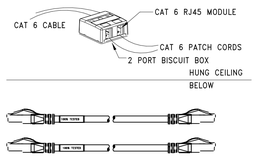
SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR U.F.S.D.
PROJECT	PHASE 2 CAPITAL BOND IMPROVEMENTS
DWG TITLE	ELECTRICAL DETAILS
SCALE:	As indicated
DATE:	07/07/22
BID PJU DATE:	06/29/22
FILE NO.	21-274C

E10.02 HSMS

WIRELESS ACCESS POINT			
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-SW2-02 (OR MATCH EXISTING)	2 PORT BISCUIT BOX	SIEMON
2	MC6-10-05 (OR MATCH EXISTING)	10' PATCH CORD (YELLOW)	SIEMON
2	MX6-F05 (OR MATCH EXISTING)	RJ45 DATA CONNECTOR - YELLOW	SIEMON
***	UN874029504/10 (OR MATCH EXISTING)	YELLOW CAT 6 CABLE	COMMSCOPE

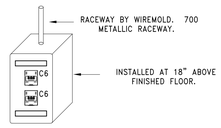


1 DUAL CABLE WIRELESS DROPS

SCALE: N.T.S.

NOTES:
1. SECURE BISCUIT BOX TO BUILDING STRUCTURE
2. REFER TO DRAWINGS FOR QUANTITIES

WALL MOUNT DATA BOX			
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-FP-S-02-02	2 PORT FACE PLATE	SIEMON
AS NEEDED	V700	V700 METALLIC RACEWAY	WIREMOLD
1	V5747	SHALLOW DEVICE BOX	WIREMOLD
1	V5785	COMBINATION CONNECTOR ENTRANCE FITTING	WIREMOLD
2	MX6-F06	RJ45 DATA CONNECTOR - BLUE	SIEMON
***	UN874043004/10	BLUE CAT 6 CABLE	COMMSCOPE

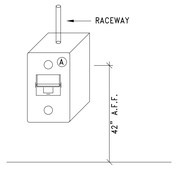


2 WALL MOUNT DATA BOX

SCALE: N.T.S.

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. PROVIDE ALL NECESSARY MOUNTING/CONNECTION FITTINGS FOR METALLIC RACEWAY AS NEEDED.

WALL MOUNT TELEPHONE			
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-WP-K6-SS	STAINLESS STEEL PHONE PLATE W/CAT6 RJ45	SIEMON
AS NEEDED	V700	V700 METALLIC RACEWAY	WIREMOLD
1	V5747	SHALLOW DEVICE BOX	WIREMOLD
1	V5785	COMBINATION CONNECTOR ENTRANCE FITTING	WIREMOLD
***	UN874049704/10	WHITE CAT 6 CABLE	COMMSCOPE

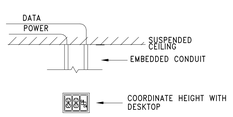


3 TELEPHONE RACEWAY

SCALE: N.T.S.

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY

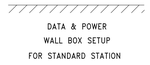
RECESSED WALL BOX			
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-FP-S-02-02	2 PORT FACE PLATE	SIEMON
2	MX6-F06	RJ45 DATA CONNECTOR - BLUE	SIEMON
1	DR-D-02	DOUBLE GANG OUTLET FACEPLATE	SIEMON
***	UN874043004/10	BLUE CAT 6 CABLE	COMMSCOPE
2	SEE DWG E0.01	TR DUPLEX RECEPTACLE (DECORATOR OPENING)	-
1	WSA00-4	WALL BOX MOUNTING BRACKET	LEGRAND
1	WSA42-4	4 GANG WALL BOX	LEGRAND



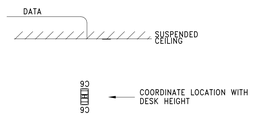
4 RECESSED WALL BOX

SCALE: N.T.S.

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. COORDINATE HEIGHT WITH HSA DESKTOP HEIGHT
3. INSTALL CONDUIT AS NEEDED



DRYWALL DATA PLATE			
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-FP-S-02-02	2 PORT FACE PLATE	SIEMON
2	MX6-F06	RJ45 DATA CONNECTOR - BLUE	SIEMON
1	***	STANDARD DRYWALL BOX ELIMINATOR	***
***	UN874043004/10	BLUE CAT 6 CABLE	COMMSCOPE



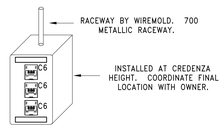
5 DRYWALL DATA PLATE

SCALE: N.T.S.

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. COORDINATE HEIGHT WITH CASEWORK MANUFACTURER
3. INSTALL CONDUIT AS NEEDED



WALL MOUNT CONFERENCE ROOM DATA BOX			
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-FP-S-03-02	3 PORT FACE PLATE	SIEMON
AS NEEDED	V700	V700 METALLIC RACEWAY	WIREMOLD
1	V5747	SHALLOW DEVICE BOX	WIREMOLD
1	V5785	COMBINATION CONNECTOR ENTRANCE FITTING	WIREMOLD
3	MX6-F06	RJ45 DATA CONNECTOR - BLUE	SIEMON
***	UN874043004/10	BLUE CAT 6 CABLE	COMMSCOPE
***	UN874043004/10	BLUE CAT 6 CABLE	COMMSCOPE



6 WALL MOUNT CONF RM. DATA BOX

SCALE: N.T.S.

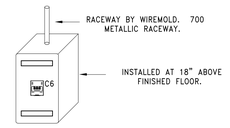
NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. PROVIDE ALL NECESSARY MOUNTING/CONNECTION FITTINGS FOR METALLIC RACEWAY AS NEEDED.

WALL MOUNT SINGLE DATA BOX			
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-FP-S-01-02	1 PORT FACE PLATE	SIEMON
AS NEEDED	V700	V700 METALLIC RACEWAY	WIREMOLD
1	V5747	SHALLOW DEVICE BOX	WIREMOLD
1	V5785	COMBINATION CONNECTOR ENTRANCE FITTING	WIREMOLD
1	MX6-F06	RJ45 DATA CONNECTOR - BLUE	SIEMON
***	UN874043004/10	BLUE CAT 6 CABLE	COMMSCOPE

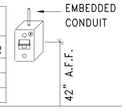
7 WALL MOUNT SINGLE DATA BOX

SCALE: N.T.S.

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. PROVIDE ALL NECESSARY MOUNTING/CONNECTION FITTINGS FOR METALLIC RACEWAY AS NEEDED.



TELEPHONE WALL BOX			
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-WP-K6-SS	STAINLESS STEEL PHONE PLATE W/CAT6 RJ45	SIEMON
1	-	STANDARD DRYWALL BOX	-
***	UN874049704/10	WHITE CAT 6 CABLE	COMMSCOPE



10 TELEPHONE WALL BOX

SCALE: N.T.S.

NOTES:
1. REFER TO DRAWINGS FOR QUANTITY
2. INSTALL CONDUIT AS NEEDED

DRAWING NOTES - CAT 6/CAT 6A:

1. ALL 4-PAIR UTP HORIZONTAL STATION PLENUM RATED CABLES FOR VOICE/DATA SERVICES SHALL BE HOMERUN TO THE NEAREST COMMUNICATIONS ROOM.
2. ROUTE COMMUNICATION 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. 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. CONTRACTOR TO VERIFY CEILING HEIGHTS FOR ALL AREAS PRIOR TO INSTALLING ANY CABLE. 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. 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.
14. 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.)
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 SIX (6) FEET OF SLACK 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.
20. 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 DETAIL PLANS AND ELEVATIONS FOR THE DEMARCATION LOCATIONS OF ALL CABLES.
21. ALL ABANDONED/NON USED CABLES TO BE REMOVED FROM PLENUM SPACES AS PER CODE.
22. ALL NEW EQUIPMENT TO BE GROUNDED AND BONDED AS PER CODE.

WIRELESS CONSTRUCTION NOTES:

1. PROVIDE AND INSTALL TWO WIRELESS RUNS FROM NEW WIRELESS DROPS TO EXISTING LOCAL WIRE CLOSET. WIRELESS SHALL BE CATEGORY 6 CABLE TO TERMINATE AT BOTH ENDS USING CAT6 RJ45 CONNECTORS AND PATCH PANELS.
2. E.C. TO TERMINATE ONE CABLE AT THE WIRELESS LOCATION AND THE SECOND CABLE TO REMAIN UN-TERMINATED.
3. ALL CABLES SHALL BE CONCEALED AND SURFACE RACEWAY SHALL BE USED AT ALL EXPOSED AREAS.

VOICE CONSTRUCTION NOTES:

1. PROVIDE AND INSTALL A VOICE RUN FROM NEW PHONE DROPS TO EXISTING LOCAL WIRE CLOSET. VOICE SHALL BE CATEGORY 6 CABLE TO TERMINATE AT BOTH ENDS USING CAT6 RJ45 CONNECTORS AND PATCH PANELS.
2. VOICE BACK BONE CABLE TO BE INSTALLED TO A 24 PORT PATCH PANEL. E.C. TO TERMINATE EACH PAIR TO THE BLUE PAIR OF THE PATCH PANEL. LAST PAIR TO REMAIN UN-TERMINATED.
3. ALL CABLES SHALL BE CONCEALED AND SURFACE RACEWAY SHALL BE USED AT ALL EXPOSED AREAS.

DATA CONSTRUCTION NOTES:

1. PROVIDE AND INSTALL A DATA RUN FROM NEW DATA DROPS TO EXISTING LOCAL WIRE CLOSET. DATA SHALL BE CATEGORY 6 CABLE TO TERMINATE AT BOTH ENDS USING CAT6 RJ45 CONNECTORS AND PATCH PANELS.
2. COORDINATE WITH DISTRICT NETWORK TECHNICIANS FOR THE PORT LOCATION AND IP ADDRESS NEEDED FOR SYSTEM.
3. ALL CABLES SHALL BE CONCEALED AND SURFACE RACEWAY SHALL BE USED AT ALL EXPOSED AREAS.

DRAWING NOTES

1. MAINTAIN APPROPRIATE SEPARATION OF LINE VOLTAGE AND LOW VOLTAGE CABLE.
2. QUANTITY OF DROPS AS PER FLOOR PLANS.
3. 2 DUPLEX RECEPTACLES PER DROP UNLESS SPECIFIED OTHERWISE.
4. MAINTAIN 3' ON CENTER PER DROP SETUP.
5. CABLES BACKFED OR RACEWAY FED AS REQUIRED.

1 TECHNOLOGY DETAILS
SCALE: NTS

REV.	DATE	ITEM

NOTICE

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ORIGINAL DOCUMENTS:

KEY PLAN
NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PROJECT

TECHNOLOGY DETAILS

DWGTITLE

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CHK. BY: AG

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ENGINEERS
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PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655
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SED No. 66-14-02-02-0-004-023
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 CAPITAL BOND IMPROVEMENTS
DWG TITLE TECHNOLOGY DETAILS

SCALE: NTS
DATE: 07/07/22
BID P/U DATE: 06/29/22
FILE NO. 21-274C

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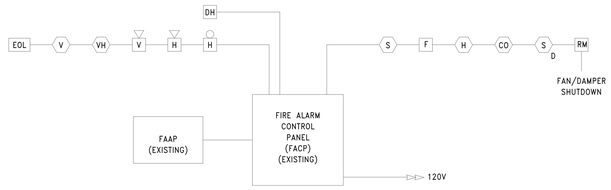
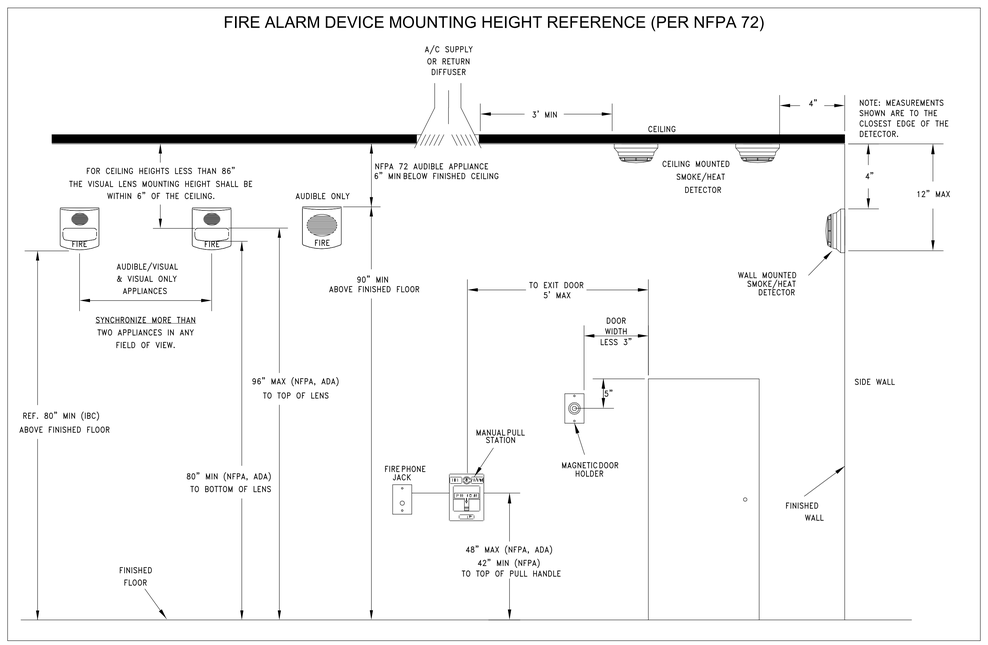


NOTES:

1. SEE SPECIFICATIONS FOR EQUIPMENT, DEVICE AND WIRING STANDARDS.
2. PROVIDE BOOSTERS, POWER EXTENDERS AND END OF LINE RESISTORS AS NEEDED.
3. REMOTE POWER SUPPLIES SHOULD BE ACCESSIBLE AND LOCATED IN ELECTRICAL ROOMS OR CLOSETS.
4. CABLE AND WIRING MUST BE RUN IN ACCORDANCE WITH CONTRACT DOCUMENTS, SYSTEM MANUFACTURER'S INSTRUCTIONS, NEC, NFPA AND LOCAL CODES.
5. DO NOT RUN AC POWER IN SAME RACEWAY, CONDUIT OR CABLE TRAY AS FIRE ALARM WIRING.
6. LABEL ALL TERMINATIONS IN CABINETS OR BOXES WITHIN 12" OF ENTRY.

2 FIRE ALARM RISER

SCALE: NTS



1 FIRE ALARM HEIGHT

SCALE: NTS

REV.	DATE	ITEM

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ORIGINAL DOCUMENTS:

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NO SCALE

PROJECT

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BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

DWGTITLE

ELECTRICAL DETAILS

DRWG. BY: EEA

CHK. BY: AG

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ALBANY
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SED No. 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR U.F.S.D.

PROJECT: PHASE 2 CAPITAL BOND IMPROVEMENTS

DWG TITLE: ELECTRICAL DETAILS

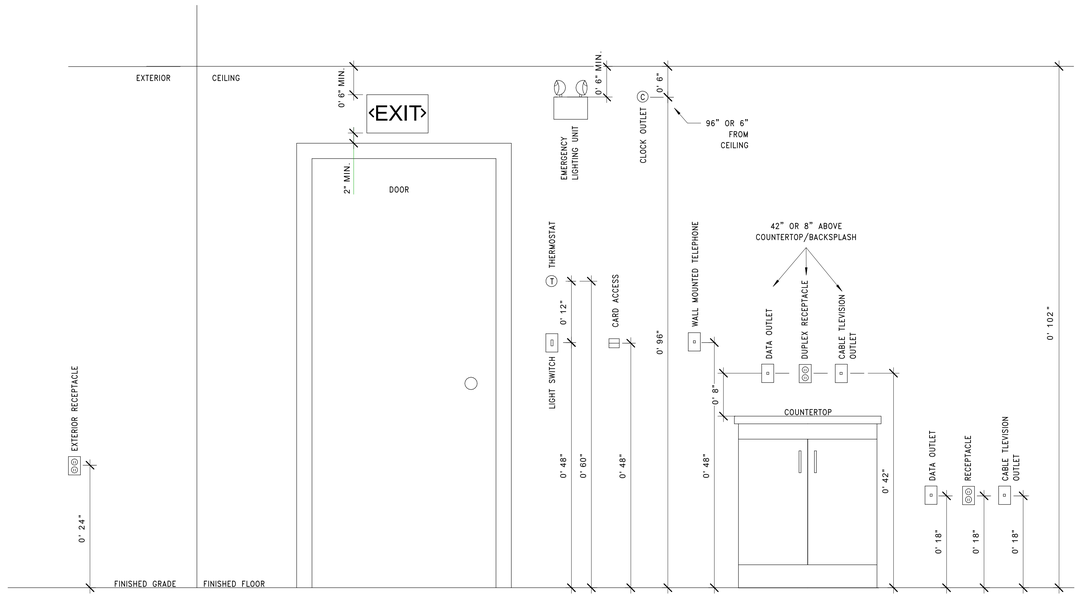
SCALE: NTS

DATE: 07/07/22

BID P/U DATE: 06/29/22

FILE NO. 21-274C

E10.04 HSMS

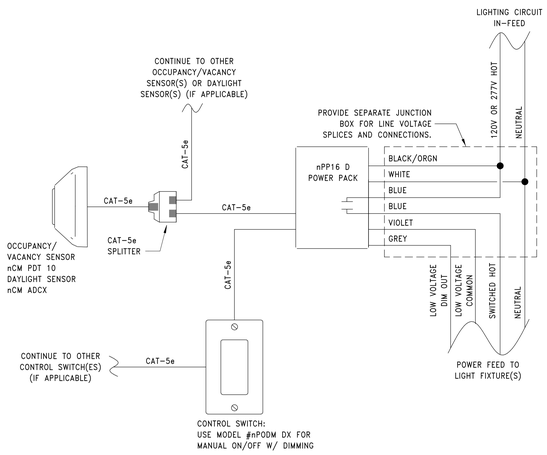


MOUNTING ELEVATIONS NOTES:

1. MOUNTING HEIGHTS NOTED ARE STANDARD, IF SPECIFIC MOUNTING HEIGHTS ARE NOT NOTED ON THE PLANS OR IN THE SPECIFICATIONS.

3 TYPICAL MOUNTING HEIGHT DETAIL

SCALE: NTS



NOTES:

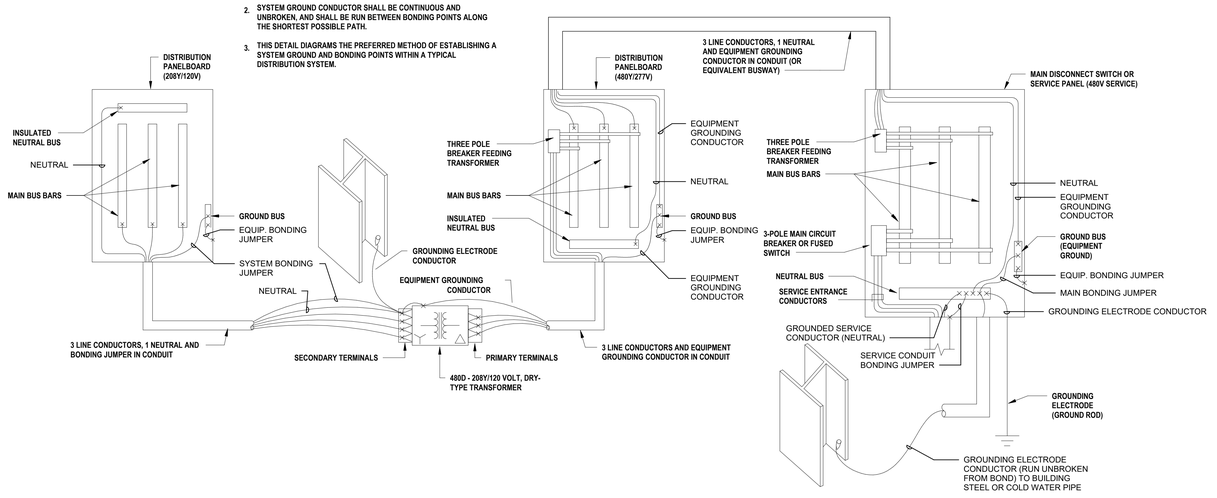
1. ALL LIGHTING CONTROL DEVICES SHOWN SHALL MANUFACTURED BY ACUITY WHICH IS THE BASIS OF DESIGN.
2. ONE POWER PACK REQUIRED PER CONTROL ZONE. TYPICAL CONTROL ZONES ARE OCUPANCY/VACANCY OR DAYLIGHT SENSING.

2 LIGHTING CONTROLS DETAIL

SCALE: 12" = 1'-0"

NOTES

1. **ALL GROUNDING AND BONDING CONDUCTORS SHALL BE SIZED PER NEC, TABLE 250-122 AND 250-66. SEE ELECTRICAL RISER AND PANEL SCHEDULES FOR SIZING REQUIREMENTS.**
2. **SYSTEM GROUND CONDUCTOR SHALL BE CONTINUOUS AND UNBROKEN, AND SHALL BE RUN BETWEEN BONDING POINTS ALONG THE SHORTEST POSSIBLE PATH.**
3. **THIS DETAIL DIAGRAMS THE PREFERRED METHOD OF ESTABLISHING A SYSTEM GROUND AND BONDING POINTS WITHIN A TYPICAL DISTRIBUTION SYSTEM.**



1 TYPICAL SYSTEM GROUND & BONDING DETAIL

SCALE: N.T.S.

REV.	DATE	ITEM

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ELECTRICAL DETAILS

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DWG TITLE	ELECTRICAL DETAILS
SCALE:	12" = 1'-0"
DATE:	07/07/22
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FILE NO.	21-274C

E10.05

HSMS

BUILDING CODE REQUIREMENTS			
APPLICABLE CODE			
	NEW YORK STATE BUILDING CODE (CURRENT EDITION)		
	INTERNATIONAL BUILDING CODE (CURRENT EDITION)		
	INTERNATIONAL EXISTING BUILDING CODE (CURRENT EDITION)		
	INTERNATIONAL ENERGY CONSERVATION CODE (CURRENT EDITION)		
	NYSED MANUAL OF PLANNING STANDARDS (CURRENT EDITION)		
	ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (CURRENT EDITION)		
	WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (CURRENT EDITION)		
SCOPE OF PROPOSED WORK			
WORK SCOPE INCLUDES INSTALLATION OF NEW HANDRAILS AT EXISTING RAMPS, REPLACEMENT OF NON-RATED WOOD PARTITION/DOORS NEW RATED WALL ASSEMBLIES, WINDOW REPAIRS AT CORRIDOR WINDOWS, NEW SECURITY VESTIBULE UPGRADES, MASONRY RECONSTRUCTION, PROPOSED DRINKING FOUNTAIN BASIN IN ROOM 217, NATURAL GAS DETECTION AT BOILER ROOM, ELECTRICAL PANEL UPGRADES, INSTALLATION OF CARBON MONOXIDE DETECTORS, TOILET ROOM RENOVATIONS, AND PROPOSED PORTABLE ADA LIFT.			
BC CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION			
SECTION	**ITEM**	**EXISTING**	**PROPOSED**
303.4	OCCUPANCY TYPE	E	E
	EXISTING BUILDING AREA		
	LOWER LEVEL	105,993 S.F.	
	FIRST FLOOR	14,549 S.F.	
	TOTAL	120,542 S.F.	
	BUILDING AREA ALTERATIONS	**SCOPE OF WORK**	**PROPOSED AREA (SF)**
	LOWER LEVEL	LEVEL 1 ALTERATION	N/A
	FIRST FLOOR	LEVEL 1 ALTERATION	3,261 SF
	TOTAL LEVEL 1 ALTERATIONS		3,261 SF
	LOWER LEVEL	LEVEL 2 ALTERATION	N/A
	FIRST FLOOR	LEVEL 2 ALTERATION	484 SF
	TOTAL LEVEL 2 ALTERATIONS		484 SF
IBC CHAPTER 6 - TYPES OF CONSTRUCTION			
SECTION	**ITEM**	**EXISTING CONSTRUCTION**	**NEW CONSTRUCTION**
602	**CONSTRUCTION CLASSIFICATION**	TYPE 2B	TYPE 2B
TABLE 601	**FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)**	**REQUIRED**	**PROPOSED**
	PRIMARY STRUCTURAL FRAME	0	N/A
	BEARING WALLS, EXTERIOR	0	N/A
	BEARING WALLS, INTERIOR	0	N/A
	NON-BEARING WALLS AND PARTITIONS, EXTERIOR	SEE TABLE 602	
	NON-BEARING WALLS AND PARTITIONS, INTERIOR	0	1-HR
	FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	N/A
	ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	N/A
IBC CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES			
SECTION	**ITEM**		
703	**THE FIRE-RESISTANCE RATING OF BUILDING ELEMENTS, COMPONENTS, OR ASSEMBLIES SHALL BE DETERMINED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E119 OR UL263 OR IN ACCORDANCE WITH SECTION 703.3. THE FIRE-RESISTANCE RATING OF PENETRATIONS AND FIRE-RESISTANT JOINT SYSTEMS SHALL BE DETERMINED IN ACCORDANCE WITH SECTIONS 714 AND 715, RESPECTIVELY.**		
703	**THE FIRE-RESISTANCE RATINGS OF STRUCTURAL MEMBERS AND ASSEMBLIES SHALL COMPLY WITH THIS SECTION AND THE REQUIREMENTS FOR THE TYPE OF CONSTRUCTION AS SPECIFIED IN TABLE 601. THE FIRE-RESISTANCE RATINGS SHALL BE NOT LESS THAN THE RATINGS REQUIRED FOR THE FIRE-RESISTANCE-RATED ASSEMBLIES SUPPORTED BY THE STRUCTURAL MEMBERS.**		
IBC CHAPTER 8 - INTERIOR FINISHES			
SECTION	**ITEM**		
1101	ALL CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH ALL PROVISIONS OF THIS IBC CHAPTER AND ICC A117.1		
1111	SIGNAGE SHALL BE PROVIDED AT ALL LOCATIONS REQUIRED BY THE PROVISIONS OF THIS SECTION		

ARCHITECTURAL SYMBOL LEGEND

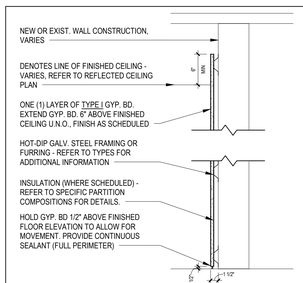
SYMBOL	DESCRIPTION
X	KEY NOTE
XXX	DOOR NUMBER
WX	WINDOW DESIGNATION
XXXX / XXX / XXX SF	ROOM TAG ROOM NAME ROOM NUMBER ROOM AREA
	ELEVATION DATUM
XX / XX.XX	DETAIL TAG DETAIL NUMBER DRAWING NUMBER
XX / XX.XX	SECTION / ELEVATION TAG DETAIL NUMBER DRAWING NUMBER
XX	DENOTES INTERIOR PARTITION TYPE - REFER 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.
E.J.	DENOTES LOCATION OF FULL BUILDING EXPANSION JOINT. PROVIDE APPROPRIATE INTERIOR FLOOR, WALL AND CEILING EXPANSION JOINT COVERS, WHERE APPLICABLE. PROVIDE VERTICAL JOINT BY 'EMSEAL' OR EQUAL AT EXTERIOR, WHERE APPLICABLE.
M.C.J.	DENOTES LOCATION OF 1/2" MASONRY CONTROL JOINT WITH CONTINUOUS BACKER ROD AND SEALANT.
D.S.	DENOTES LOCATION OF NEW CAST STONE DATE STONE.
D.P.	DENOTES LOCATION OF NEW DEDICATION PLAQUE.
S.D.	DENOTES LOCATION OF SMOKE DOOR.
XX'-XX" / XXX.XX'	DENOTES FINISH FLOOR ELEVATION REFERENCED FROM 0'-0". WHERE ENGINEERING ELEVATIONS ARE REFERENCED (000.00'), REFER TO CIVIL-SERIES DRAWINGS FOR ADDITIONAL DATUM INFORMATION.
L.-XX	DENOTES LOCATION AND DESIGNATION OF NEW LINTEL.
R.W.	DENOTES LOCATION OF NEW/EXISTING RESCUE WINDOW.
I.D.	DENOTES LOCATION OF TRUSS / JOIST IDENTIFICATION SIGN.
A.E.D.	DENOTES LOCATION OF AUTOMATED EXTERNAL DEFIBRILLATOR.
M.O.S.	DENOTES LOCATION OF ASSEMBLY SPACE MAXIMUM OCCUPANCY SIGN.
A.O.R.	DENOTES LOCATION OF AREA OF REFUGE WITH TWO-WAY COMMUNICATION DEVICE. REFER TO E-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
XXX	DENOTES MAXIMUM DOOR / STAIR EXITING CAPACITY.
X.X	DENOTES R.E.U. FOR ASSEMBLY SPACES
M	DENOTES DOOR ON MAGNETIC AUTOMATIC HOLD OPEN DEVICE, CONNECTED TO FIRE ALARM SYSTEM.
M.O.L. XX / P.S. XX	MAX. OCCUPANCY LOAD (PER N.Y.S. CODE) PUPIL STATION COUNT
	DENOTES ACCESSIBLE ENTRANCE/EXIT, FIXTURE, ACCESSORY, DEVICE, OR PARTICIPATION AREA.
	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

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 ALL DEMOLITION AND CONSTRUCTION WORK TO BE PERFORMED WITHOUT 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 WORK PERFORMED BY OTHERS UNDER SEPARATE CONTRACTS BY OTHERS AND NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY.
11. REFER TO CONSTRUCTION IMPLEMENTATION PLANS AND CONSTRUCTION SPECIAL PROVISIONS (PREPARED BY OTHERS, IF APPLICABLE) FOR ALL REQUIREMENTS FOR TEMPORARY CONSTRUCTION.

MATERIAL LEGEND

HATCH	MATERIAL	HATCH	MATERIAL
	CMU WALL CONSTRUCTION		EARTH
	2-HOUR FIREWALL CONSTRUCTION		GRAVEL
	BRICK VENEER CONSTRUCTION		RIGID INSULATION
	GYPSUM AND METAL STUD WALL CONSTRUCTION		BATT INSULATION
	GYPSUM BOARD, PLASTER, MORTAR, SAND		PLYWOOD
	CONCRETE		INTERMEDIATE BLOCKING CONTINUOUS BLOCKING
	STEEL		FINISH WOOD



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

TYPE J1 (1 1/2" TOTAL THICKNESS): 7/8" 22 GA. MIN. HOT-DIP GALV. STEEL HAT CHANNEL FURRING AT 16" O.C. MAX. VERTICALLY

TYPE J2 (2 1/4" TOTAL THICKNESS): 1 5/8" 20GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. HORIZ. PROVIDE 1 1/2" RIGID INSULATION BETWEEN ALL STUDS.

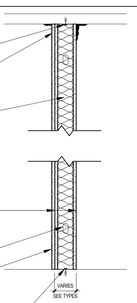
TYPE J3 (3 1/8" TOTAL THICKNESS): 2 1/2" 20GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. HORIZ. PROVIDE 2 1/2" RIGID INSULATION BETWEEN ALL STUDS.

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

J1 GYP. BD. OVER 7/8" METAL FURRING
GRAPHIC SIMILAR AS SHOWN

J2 GYP. BD. OVER 2 1/4" METAL FURRING
GRAPHIC SIMILAR AS SHOWN

J3 GYP. BD. OVER 3 1/8" METAL FURRING
GRAPHIC SIMILAR AS SHOWN



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

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

ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION - 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

HOT-DIP GALV. STEEL FRAMING - REFER TO TYPES FOR ADDITIONAL INFORMATION

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

SECURE PARTITION TO FLOOR CONSTRUCTION

TYPE G5 (4 7/8" TOTAL THICKNESS): 3 5/8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 3 1/2" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

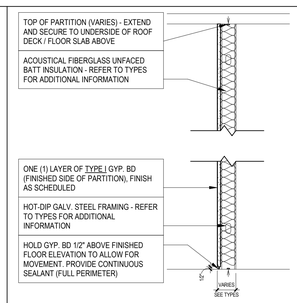
TYPE G7 (7 1/4" TOTAL THICKNESS): 6" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 5 1/2" R-21 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

TYPE G9 (9 1/4" TOTAL THICKNESS): 8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 8" R-25 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

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

NOTE: ALL BASE AND TOP TRACK RUNNERS (WHERE APPLICABLE) SHALL BE HOT-DIP GALV. STEEL 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



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

HOT-DIP GALV. STEEL FRAMING - REFER TO TYPES FOR ADDITIONAL INFORMATION

HOLD GYP. BD 1/2" ABOVE FINISHED 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 K4 (4 1/4" TOTAL THICKNESS): 3 5/8" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 3 1/2" R-11 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

TYPE K7 (6 5/8" TOTAL THICKNESS): 6" 20 GA. MIN. HOT-DIP GALV. STEEL FRAMING AT 16" O.C. MAX. WITH 5 1/2" R-21 ACOUSTICAL FIBERGLASS UNFACED BATT INSULATION

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

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

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, PER SPECIFICATION SECTION 09900.
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.

NOTE - SINGLE PRIME CONTRACT:

1. **UNDER BASE BID - GC-2,** ALL GENERAL CONSTRUCTION, MECHANICAL CONSTRUCTION, PLUMBING CONSTRUCTION AND ELECTRICAL CONSTRUCTION WORK SCOPE SHOWN SHALL BE PROVIDED AND INSTALLED BY THE SINGLE PRIME CONTRACTOR. REFER TO SPECIFICATIONS (INSTRUCTION TO BIDDERS AND BID PROPOSAL FORM) FOR ADDITIONAL INFORMATION REGARDING SINGLE PRIME CONTRACT.

REV.	DATE	ITEM

NOTICE

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PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWGTITLE: CODE COMPLIANCE NOTES & PARTITION TYPES

DRWG. BY: R.K.
CHK. BY: G.E.O

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
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SED No. 66-14-02-02-0-002-021
DISTRICT: BRIARCLIFF MANOR U.F.S.D.
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: CODE COMPLIANCE NOTES & PARTITION TYPES
SCALE: AS NOTED
DATE: 11/15/2022
BID P/U DATE: 2:00:28 PM
FILE NO. 21-274D

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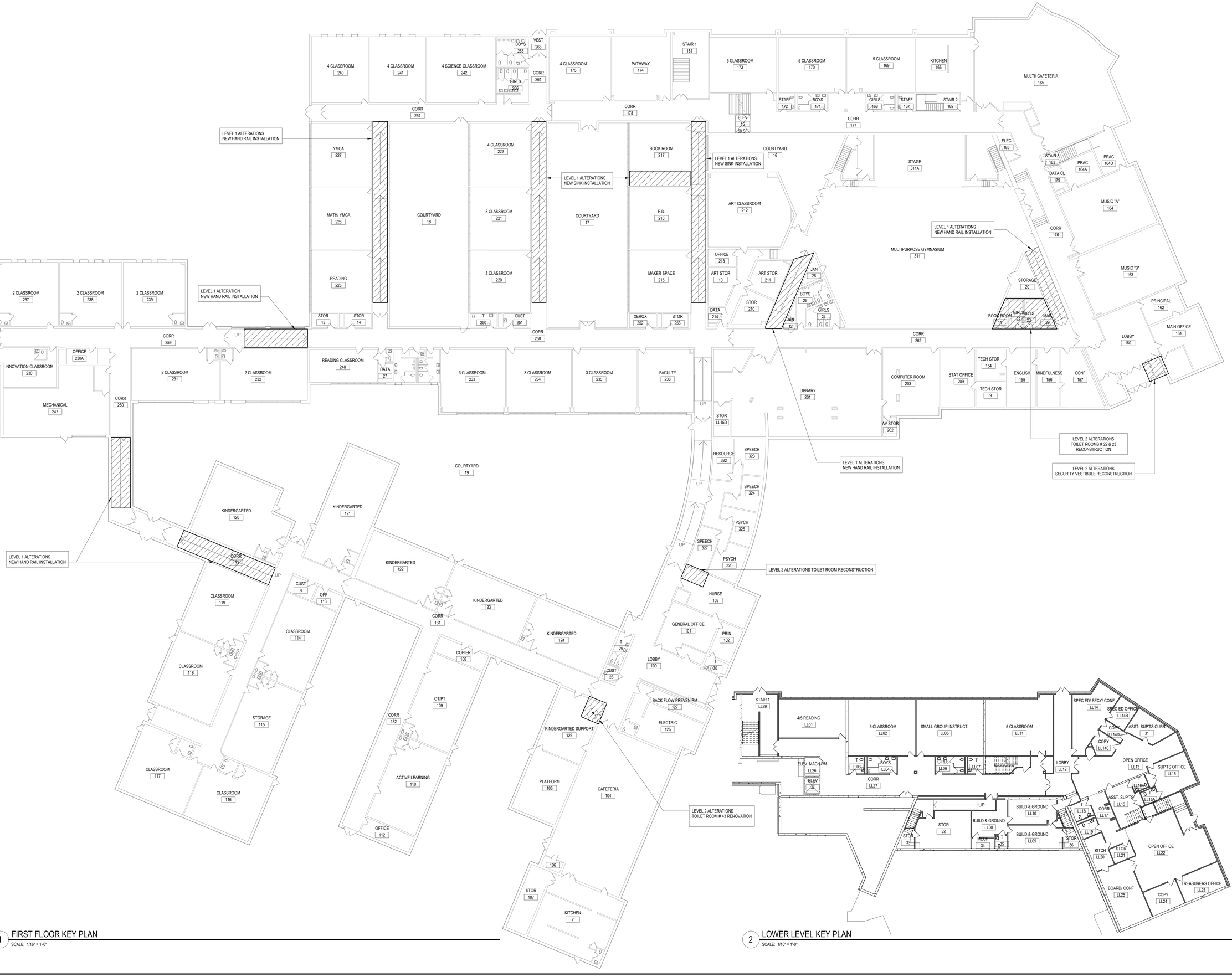

1 FIRST FLOOR KEY PLAN
SCALE: 1/16" = 1'-0"

2 LOWER LEVEL KEY PLAN
SCALE: 1/16" = 1'-0"

REV.	DATE	ITEM

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PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: OVERALL KEY PLAN

DRWG. BY: R.K.
CHK. BY: G.E.O.

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ALBANY
NEW YORK 12205
T. 518.621.7650

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PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: OVERALL KEY PLAN

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BID P/U DATE: 2:00:32 PM
FILE NO. 21-274D

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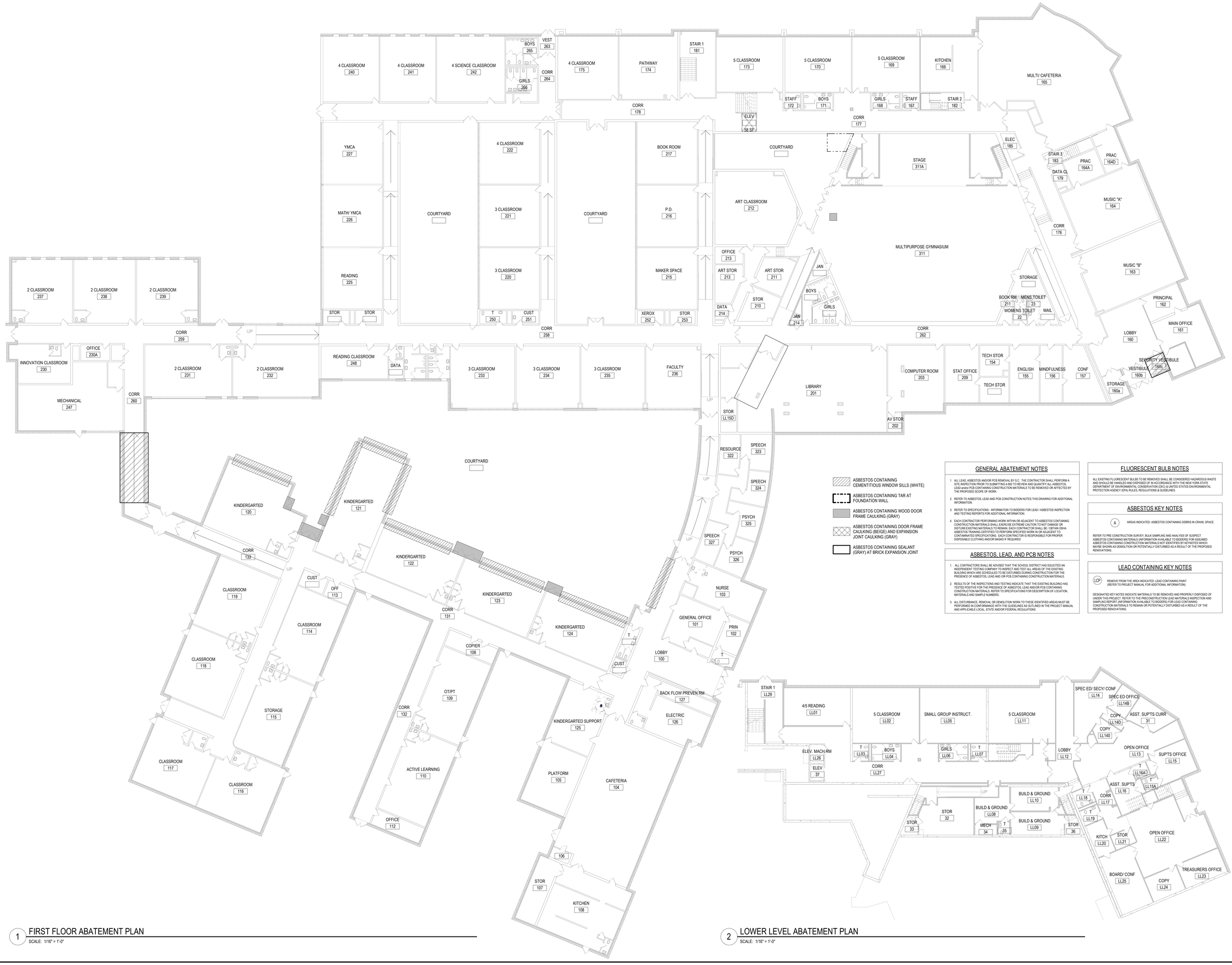

GENERAL ABATEMENT NOTES

1. ALL LEAD, ASBESTOS AND/OR PCB REMOVAL BY G.C.: THE CONTRACTOR SHALL PERFORM A SITE INSPECTION PRIOR TO SUBMITTING A BID TO REVIEW AND QUANTIFY ALL ASBESTOS, LEAD and/or PCB CONTAINING CONSTRUCTION MATERIALS TO BE REMOVED OR AFFECTED BY THE PROPOSED SCOPE OF WORK.
2. REFER TO ASBESTOS, LEAD AND PCB CONSTRUCTION NOTES THIS DRAWING FOR ADDITIONAL INFORMATION.
3. REFER TO SPECIFICATIONS - INFORMATION TO BIDDERS FOR LEAD / ASBESTOS INSPECTION AND TESTING REPORTS FOR ADDITIONAL INFORMATION.
4. EACH CONTRACTOR PERFORMING WORK WITHIN OR ADJACENT TO ASBESTOS CONTAINING CONSTRUCTION MATERIALS SHALL EXERCISE EXTREME CAUTION TO NOT DAMAGE OR DISTURB EXISTING MATERIALS TO REMAIN. EACH CONTRACTOR SHALL BE / OBTAIN OSHA ASBESTOS TRAINING CERTIFIED TO PERFORM SPECIFIED WORK IN OR ADJACENT TO CONTAMINATED SPECIFICATIONS. EACH CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSABLE CLOTHING AND/OR MASKS IF REQUIRED

ASBESTOS, LEAD, AND PCB NOTES

1. ALL CONTRACTORS SHALL BE ADVISED THAT THE SCHOOL DISTRICT HAS SOLICITED AN INDEPENDENT TESTING COMPANY TO INSPECT AND TEST ALL AREAS OF THE EXISTING BUILDING WHICH ARE SCHEDULED TO BE DISTURBED DURING CONSTRUCTION FOR THE PRESENCE OF ASBESTOS, LEAD AND /OR PCB CONTAINING CONSTRUCTION MATERIALS.
2. RESULTS OF THE INSPECTIONS AND TESTING INDICATE THAT THE EXISTING BUILDING HAS TESTED POSITIVE FOR THE PRESENCE OF ASBESTOS, LEAD AND/OR PCB CONTAINING CONSTRUCTION MATERIALS. REFER TO SPECIFICATIONS FOR DESCRIPTION OF LOCATION, MATERIALS AND SAMPLE NUMBERS.
3. ALL DISTURBANCE, REMOVAL OR DEMOLITION WORK TO THESE IDENTIFIED AREAS MUST BE PERFORMED IN CONFORMANCE WITH THE GUIDELINES AS OUTLINED IN THE PROJECT MANUAL AND APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS

FLUORESCENT BULB NOTES

ALL EXISTING FLUORESCENT BULBS TO BE REMOVED SHALL BE CONSIDERED HAZARDOUS WASTE AND SHOULD BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIROMENTAL CONSERVATION (DEC) & UNITED STATES ENVIROMENTAL PROTECTION AGENCY (EPA) RULES, REGULATIONS & GUIDELINES.

ASBESTOS KEY NOTES

(A) AREAS INDICATED: ASBESTOS CONTAINING DEBRIS IN CRAWL SPACE.

REFER TO PRE CONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT ASBESTOS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED ASBESTOS CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES WHICH MAYBE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

LEAD CONTAINING KEY NOTES

(LCP) REMOVE FROM THE AREA INDICATED: LEAD CONTAINING PAINT. (REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION)

DESIGNATED KEY NOTES INDICATE MATERIALS TO BE REMOVED AND PROPERLY DISPOSED OF UNDER THIS PROJECT. REFER TO THE PRECONSTRUCTION LEAD MATERIALS INSPECTION AND SAMPLING REPORT (INFORMATION AVAILABLE TO BIDDERS) FOR LEAD CONTAINING CONSTRUCTION MATERIALS TO REMAIN OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

1 FIRST FLOOR ABATEMENT PLAN
SCALE: 1/16" = 1'-0"

2 LOWER LEVEL ABATEMENT PLAN
SCALE: 1/16" = 1'-0"

REV.	DATE	ITEM

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PROJECT: BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWG TITLE: ABATEMENT PLAN

DRWG. BY: R.K.
CHK. BY: G.E.O.

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SED No. 66-14-02-02-0-002-021
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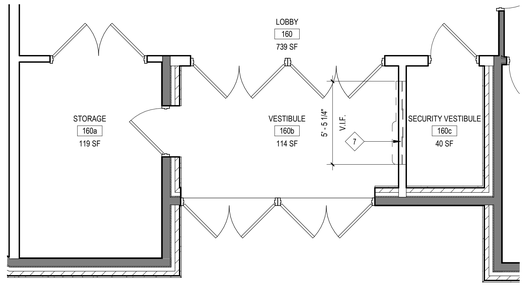
DEMOLITION LEGEND

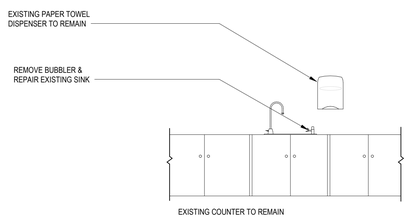
	EXISTING CONSTRUCTION TO BE REMOVED. PATCH ALL SURFACES AFFECTED BY DEMOLITION WORK. COORDINATE EXTENT OF DEMOLITION WORK WITH PROPOSED CONSTRUCTION.
	EXISTING FLOOR SLAB TO BE SAWCUT TO ACCOMMODATE NEW UNDER SLAB UTILITIES AND MODIFICATIONS. REFER TO TYPICAL SAWCUT DETAIL FOR ADDITIONAL INFORMATION.

DEMOLITION AND REMOVAL NOTES:

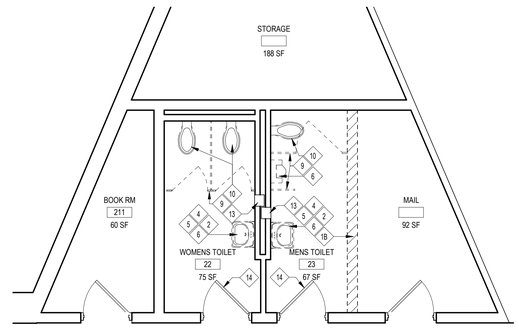
1. G.C. TO REMOVE AND DISPOSE OF EXISTING CMU PARTITION WALL AND TILE IN ITS ENTIRETY.
1A. EXISTING METAL STUD AND GYP. BD. PARTITION TO BE REMOVED IN ITS ENTIRETY BY G.C.; INCLUDING ANY/ALL DOORS, FRAMES, TRIM, VISION PANELS, MECHANICAL AND ELECTRICAL DEVICES, WALL FINISHES, ETC. - G.C. TO COORDINATE REMOVALS WITH ALL TRADES. REFER TO STRUCTURAL DRAWINGS FOR LOAD BEARING WALL LOCATIONS AND ASSOCIATED REQUIRED WORK SCOPE.
1B. G.C. TO REMOVE AND DISPOSE OF EXISTING POURED CONCRETE AND CMU PARTITION WALL AND TILE IN ITS ENTIRETY.
2. REMOVE AND DISPOSE OF EXISTING HUNG CEILINGS AND GRID IN ITS ENTIRETY TO ALLOW FOR NEW. G.C. SHALL REMOVE ALL LIGHTING. E.C. TO PROVIDE ALL DISCONNECTS.
3. REMOVE, STORE, AND REINSTALL EXISTING HUNG CEILING TILES AS REQUIRED FOR MECHANICAL WORK. EXISTING CEILING GRID TO REMAIN. G.C. TO COORDINATE WITH M.C.
4. G.C. SHALL REMOVE EXISTING TILE FLOOR AND BASE IN ITS ENTIRETY DOWN TO EXISTING CONCRETE SUBSTRATE. PATCH/REPAIR EXISTING CONCRETE SUBSTRATE AS REQUIRED FOR NEW FLOOR FINISH.
5. G.C. SHALL REMOVE AND DISPOSE OF EXISTING ABANDONED DUCTWORK. G.C. SHALL MAKE PENETRATIONS TO FIT NEW VENTILATION SYSTEM AND FINISH TO MATCH. PROVIDE LINTEL WHERE NEEDED
6. P.C. SHALL REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES. REMOVE CARRIERS AND PLUMBING AS NEEDED. COORDINATE WITH PLUMBING DRAWINGS AND NEW CONSTRUCTION PLANS
6A. P.C. SHALL REMOVE AND RE-INSTALL OF EXISTING PLUMBING FIXTURES. RELOCATE CARRIERS AND PLUMBING AS NEEDED. COORDINATE WITH PLUMBING DRAWINGS AND NEW CONSTRUCTION PLANS
7. G.C. SHALL REMOVE AND DISPOSE OF EXISTING WINDOWS, HARDWARE AND FRAMES IN THEIR ENTIRETY. PREP/PATCH WALL OPENING FOR NEW WALL INFILL.
8. G.C. SHALL REMOVE EXISTING DOOR/FRAME/HARDWARE IN ITS ENTIRETY.
9. G.C. SHALL REMOVE AND DISPOSE OF EXISTING TOILET ROOM PARTITION STALLS.
10. P.C. SHALL REMOVE AND DISPOSE OF EXISTING WATER CLOSETS IN ITS ENTIRETY.
11. P.C. SHALL REMOVE AND DISPOSE OF EXISTING SINKS AND CARRIERS AND PLUMBING.
12. G.C. SHALL REMOVE AND DISPOSE OF EXISTING COUNTERTOP.
13. G.C. SHALL REMOVE AND DISPOSE EXISTING RECESSED TRASH BIN
14. G.C. SHALL REMOVE AND DISPOSE EXISTING DOOR AND REPLACE FOR A NEW DOOR PER SCHEDULE. EXISTING METAL FRAME TO REMAIN, PATCH AND REPAIR AS NEED, AND PAINT.



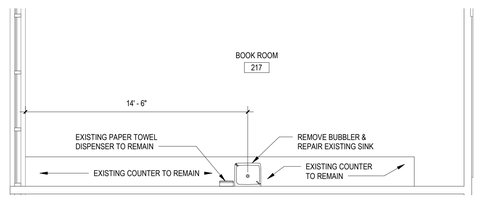
4 DEMO PLAN @ MAIN SECURITY VESTIBULE
SCALE: 1/4" = 1'-0"



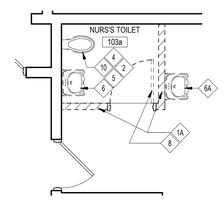
6 EXISTING ELEVATION @ 217 SINK
SCALE: 1/2" = 1'-0"



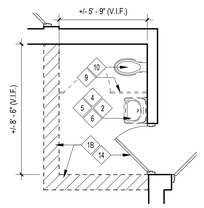
3 DEMO PLAN @ TOLET ROOMS 22 & 23
SCALE: 1/4" = 1'-0"



5 DEMO PLAN @ BOOK ROOM 217
SCALE: 1/4" = 1'-0"



2 DEMO PLAN @ NURSES BATHROOM
SCALE: 1/4" = 1'-0"



1 DEMO PLAN TOILET ROOM 43
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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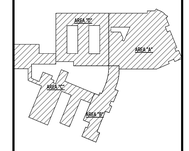

KEY PLAN
NO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
DEMO PLAN RESTROOM AND VESTIBULE

DRWG. BY: R.K.
CHK. BY: G.E.O.

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DWG TITLE DEMO PLAN RESTROOM AND VESTIBULE

SCALE: AS NOTED
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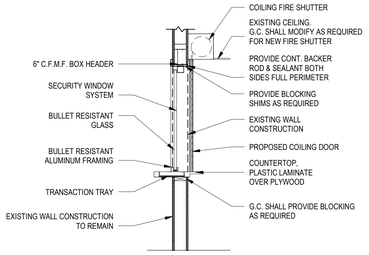
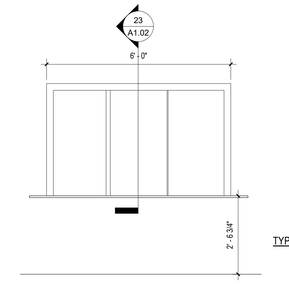
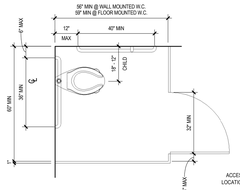


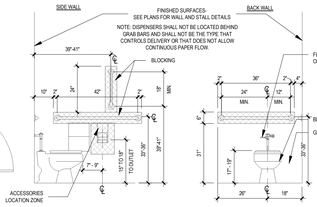
23 SECTION @ TRANSACTION WINDOW
SCALE: 1/2" = 1'-0"



22 INTERIOR ELEVATION @ VESTIULE
SCALE: 1/2" = 1'-0"

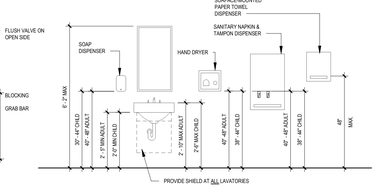


TYPICAL HC ACCESSIBLE STALL DIMENSIONS

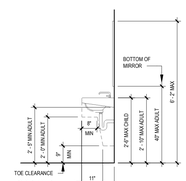


FLOOR MOUNTED WATER CLOSET - SIDE VIEW

FLOOR MOUNTED WATER CLOSET - FRONT VIEW



LAVATORY - FRONT VIEW



LAVATORY - SIDE VIEW

TOILET FIXTURE MOUNTING HEIGHTS NOTES

1. AT ALL STUDENT OCCUPIED TOILET FACILITIES (i.e. CLASSROOM TOILET ROOMS) - ALL TOILET FIXTURES, GRAB BARS, ACCESSORIES, ETC. SHALL BE MOUNTED AT THE "CHILD" HEIGHT RANGES AS INDICATED ON THE TYPICAL TOILET ROOM MOUNTING DETAILS.
2. THE CHILD DIMENSIONS GIVEN APPLY FOR CHILDREN BETWEEN THE AGES OF 6 AND 12 YEARS. FOR KINDERGARTEN CHILDREN - THE BOTTOM END OF THE RANGES SHOULD BE USED AS A MAXIMUM.
3. AT ALL ADULT USE TOILET FACILITIES, ALL TOILET FIXTURES, GRAB BARS, ACCESSORIES, ETC. SHALL BE MOUNTED AT THE "ADULT" HEIGHT RANGES AS INDICATED ON THE TYPICAL TOILET ROOM MOUNTING DETAILS.
4. THE TOP HEIGHT OF ALL GRAB BARS MUST BE THE SAME WITHIN EACH STALL/ROOM.
5. THE CHILD MOUNTING HEIGHT LIMITS APPLY FOR ADA AND NON-ADA LOCATIONS.

ADVISORY SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3-12

	AGES 3 AND 4	AGES 5 THROUGH 8	AGES 9 THROUGH 12
WATER CLOSET CENTERLINE	12 INCHES	12 TO 15 INCHES	15 TO 18 INCHES
TOILET SEAT HEIGHT	11 TO 12 INCHES	12 TO 15 INCHES	15 TO 17 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

TOILET KEY NOTES

NOTE:
G.C. & P.C. COORDINATE ADA ACCESSIBLE FIXTURES LOCATION WITH PLANS.
SEE A1.02 FOR TOILET ROOM MOUNTING STANDARDS.

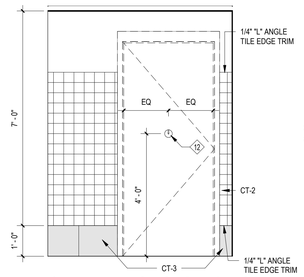
SYMBOL DENOTES ADA COMPLIANCE PLUMBING FIXTURE

1. P.C. TO FURNISH AND INSTALL ALL NEW FLOOR MOUNTED WATER CLOSET AND FLUSHOMETER.
2. P.C. TO FURNISH AND INSTALL NEW LAVATORY AND FAUCET.
3. G.C. TO FURNISH AND INSTALL NEW 18" GRAB BAR.
4. G.C. TO FURNISH AND INSTALL NEW 42" GRAB BAR.
5. G.C. TO FURNISH AND INSTALL NEW 36" GRAB BAR.
6. OWNER TO FURNISH AND G.C. TO INSTALL NEW TOILET PAPER DISPENSER.
7. G.C. TO FURNISH AND INSTALL NEW HAND DRYER. G.C. TO COORDINATE LOCATION WITH E.C.
8. OWNER TO FURNISH AND G.C. TO INSTALL NEW SOAP DISPENSER.
9. P.C. TO FURNISH AND INSTALL NEW FLOOR DRAINS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
10. G.C. TO FURNISH AND INSTALL NEW FLAT MIRROR.
11. G.C. TO FURNISH AND INSTALL NEW SANITARY NAPKIN & TAMPON DISPENSER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. G.C. TO FURNISH AND INSTALL COAT/ROBE HOOK. BRADLEY CONCEALED MOUNTING CHROME-PLATED ROBE HOOK, ON BACK OF DOOR.
13. G.C. TO FURNISH AND INSTALL SURFACE-MOUNTED PAPER TOWEL DISPENSER PER SPECS.

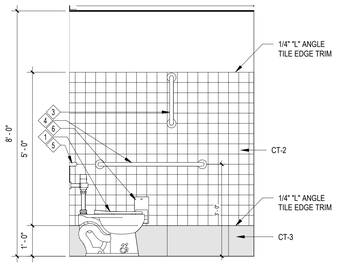
BIDDER NOTE

NOTE:
ADD ALTERNATE # 1 TO BASE BID GC-2
PROVIDE ADDITIONAL WALL TILE TO CEILING ABOVE THE BASE BID WAINSCOT HEIGHT TYPICAL FOR ALL TOILETS ROOMS 22, 23 AND NURSE'S OFFICE.

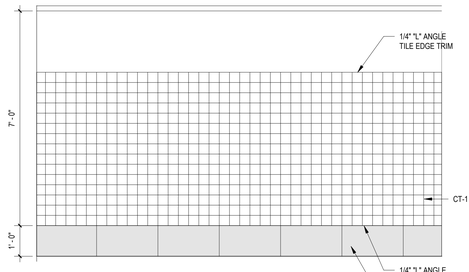
ADD ALTERNATE # 2 TO BASE BID GC-2
PROVIDE RECONSTRUCTION FOR TOILET ROOM 43



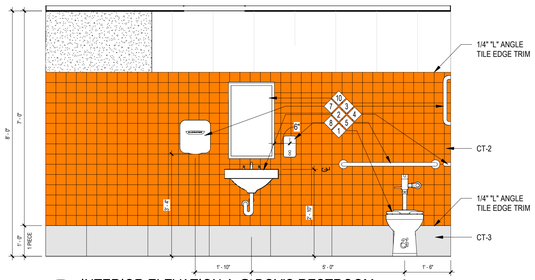
21 INT. ELEV. D @ BOY'S RESTROOM
SCALE: 1/2" = 1'-0"



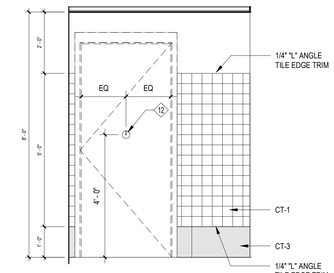
20 INT. ELEV. C @ BOY'S RESTROOM
SCALE: 1/2" = 1'-0"



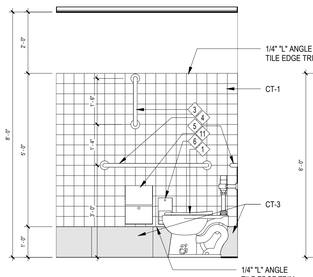
19 INTERIOR ELEVATION B @ BOY'S RESTROOM
SCALE: 1/2" = 1'-0"



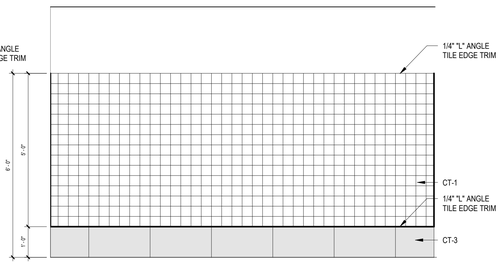
18 INTERIOR ELEVATION A @BOY'S RESTROOM
SCALE: 1/2" = 1'-0"



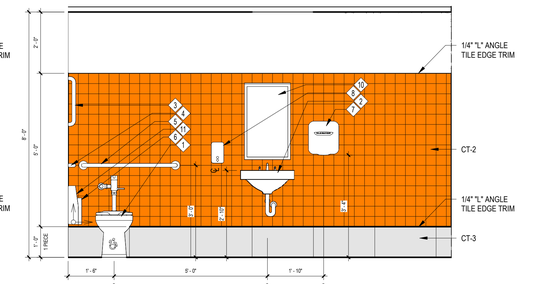
17 INT. ELEV. D @ GIRL'S RESTROOM
SCALE: 1/2" = 1'-0"



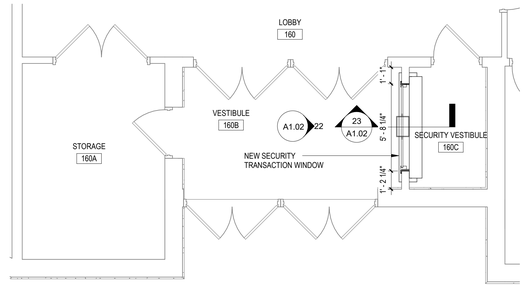
16 INT. ELEV. C @ GIRL'S RESTROOM
SCALE: 1/2" = 1'-0"



15 INTERIOR ELEVATION B @ GIRL'S RESTROOM
SCALE: 1/2" = 1'-0"



14 INTERIOR ELEVATION A GIRL'S RESTROOM
SCALE: 1/2" = 1'-0"



4 PROPOSED PLAN @ MAIN SECURITY VESTIBULE
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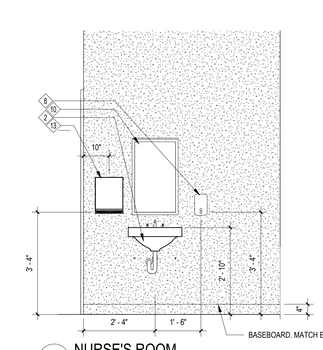
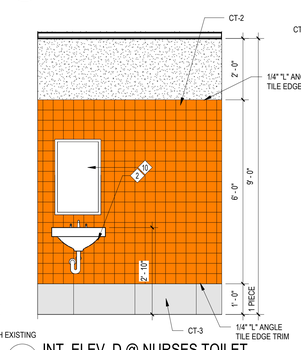
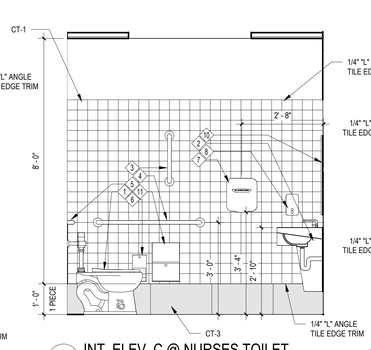


13 NURSE'S ROOM
SCALE: 1/2" = 1'-0"



12 INT. ELEV. D @ NURSES TOILET
SCALE: 1/2" = 1'-0"



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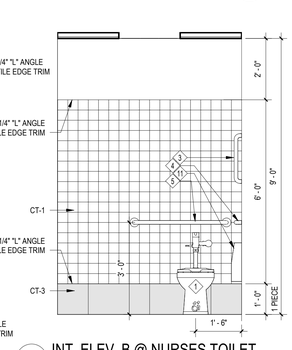
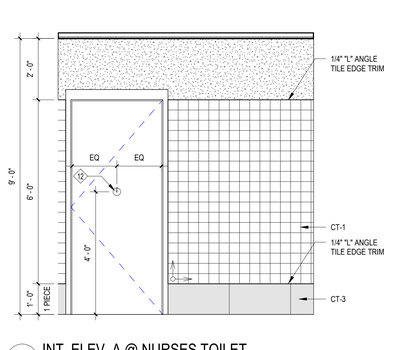
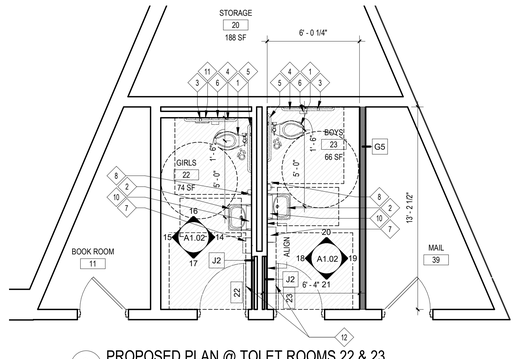


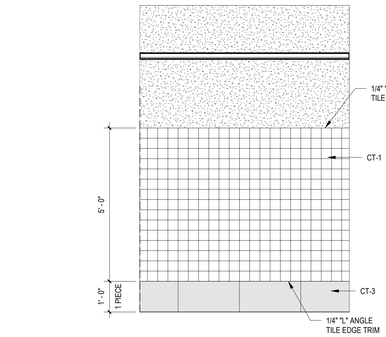
10 INT. ELEV. B @ NURSES TOILET
SCALE: 1/2" = 1'-0"



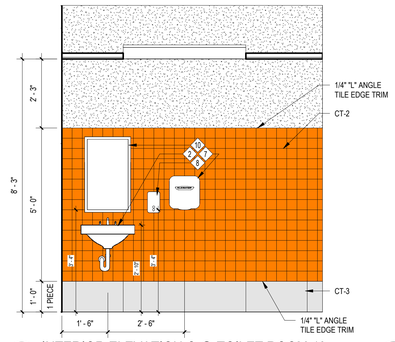
9 INT. ELEV. A @ NURSES TOILET
SCALE: 1/2" = 1'-0"



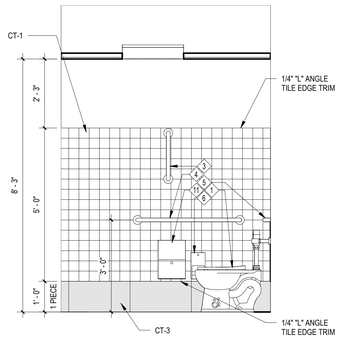
3 PROPOSED PLAN @ TOLET ROOMS 22 & 23
SCALE: 1/4" = 1'-0"



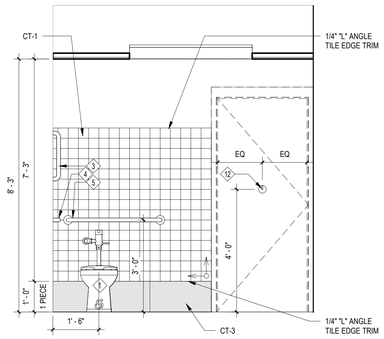
8 INTERIOR ELEVATION D @ TOILET ROOM 43
SCALE: 1/2" = 1'-0"



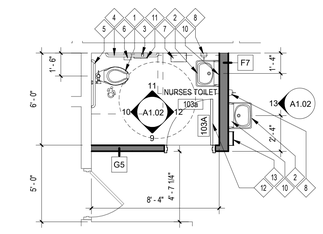
7 INTERIOR ELEVATION C @ TOILET ROOM 43
SCALE: 1/2" = 1'-0"



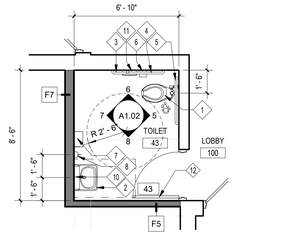
6 INTERIOR ELEVATION B @ TOILET ROOM 43
SCALE: 1/2" = 1'-0"



5 INTERIOR ELEVATION A @ TOILET ROOM 43
SCALE: 1/2" = 1'-0"



2 PROPOSED PLAN @ NURSES BATHROOM
SCALE: 1/4" = 1'-0"



1 PROPOSED TOILET PLAN ROOM 43
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM
1		

NOTICE

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BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

PROJECT

PROPOSED RESTROOMS AND VESTIBULE

DWGTITLE

DRWG. BY: R.K.
CHK. BY: G.E.O.

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NEW YORK 12205
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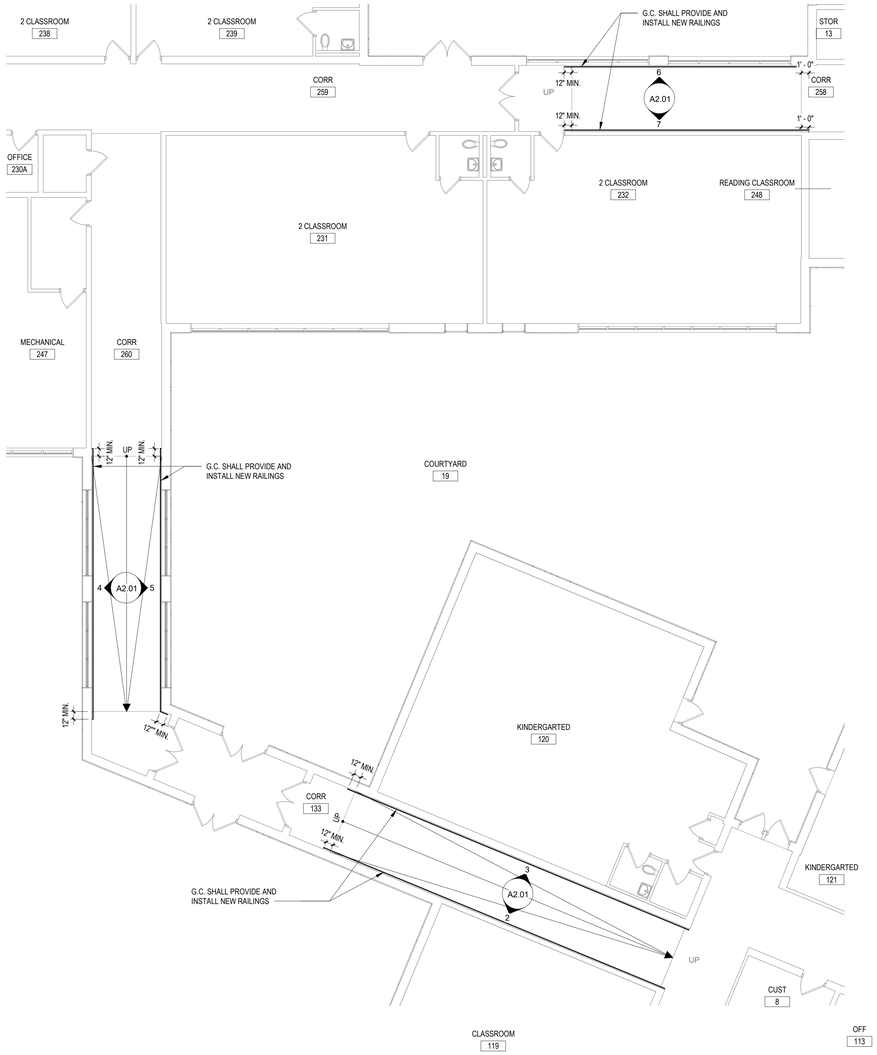
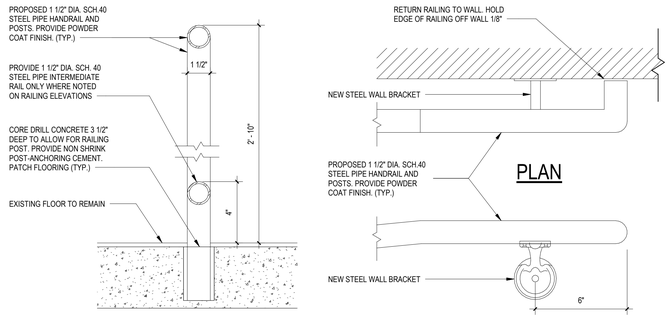
SED No. 66-14-02-02-0-002-021
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE PROPOSED RESTROOMS AND VESTIBULE
SCALE: AS NOTED
DATE: 11/15/2022
BID P/U DATE: 2:04:36 PM
FILE NO. 21-274D

A1.02 | TES



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



SECTION @ POST RAILING

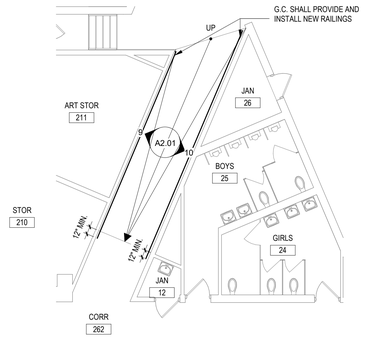
PLAN

ELEVATION

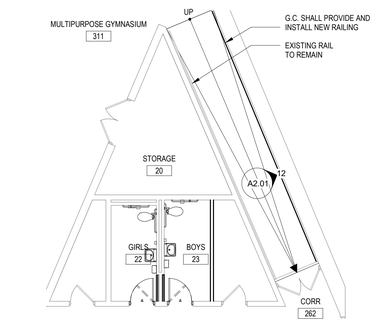
SECTION 1

SECTION 2

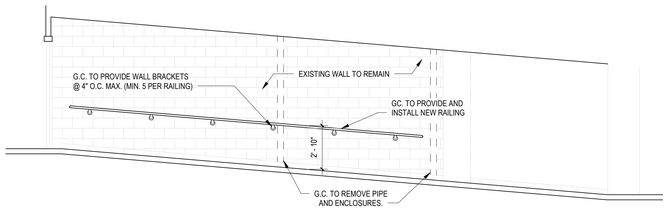
13 RAIL DETAILS
SCALE: 3" = 1'-0"



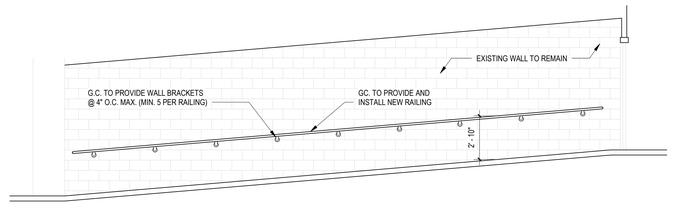
8 PROPOSED RAILING PLAN NEAR BATHROOM 25
SCALE: 1/8" = 1'-0"



11 PROPOSED RAILING PLAN NEAR BATHROOM 23
SCALE: 1/8" = 1'-0"



9 PROPOSED RAILING ELEVATION 09
SCALE: 1/4" = 1'-0"



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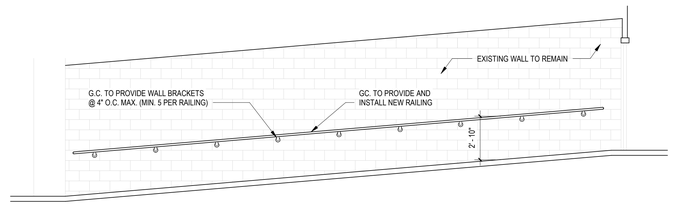

12 PROPOSED RAILING ELEVATION 12
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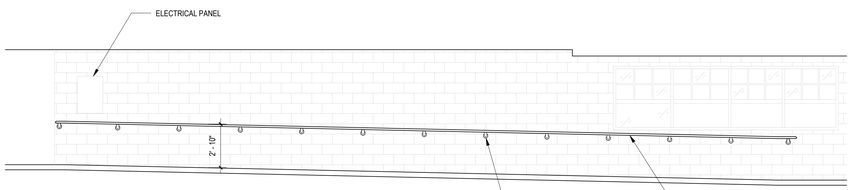
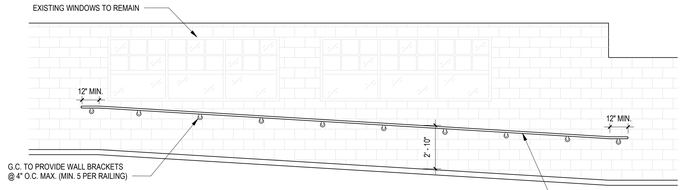
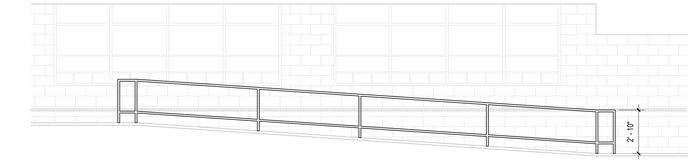


2 PROPOSED RAILING ELEVATION 02
SCALE: 1/4" = 1'-0"

3 PROPOSED RAILING ELEVATION 03
SCALE: 1/4" = 1'-0"



4 PROPOSED RAILING ELEVATION 04
SCALE: 1/4" = 1'-0"



6 PROPOSED RAILING ELEVATION 06
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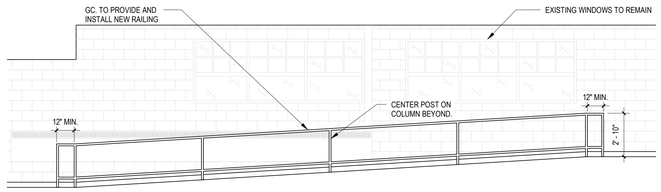

5 PROPOSED RAILING ELEVATION 05
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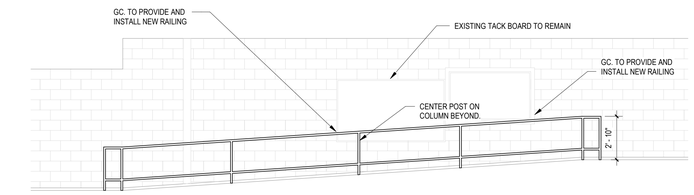

7 PROPOSED RAILING ELEVATION 07
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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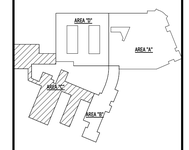

KEY PLAN
NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

RAILINGS AND DETAILS

PROJECT

DWG/TITLE

DRWG. BY: R.K.
CHK. BY: G.E.O.

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BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
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T. 631.475.0349
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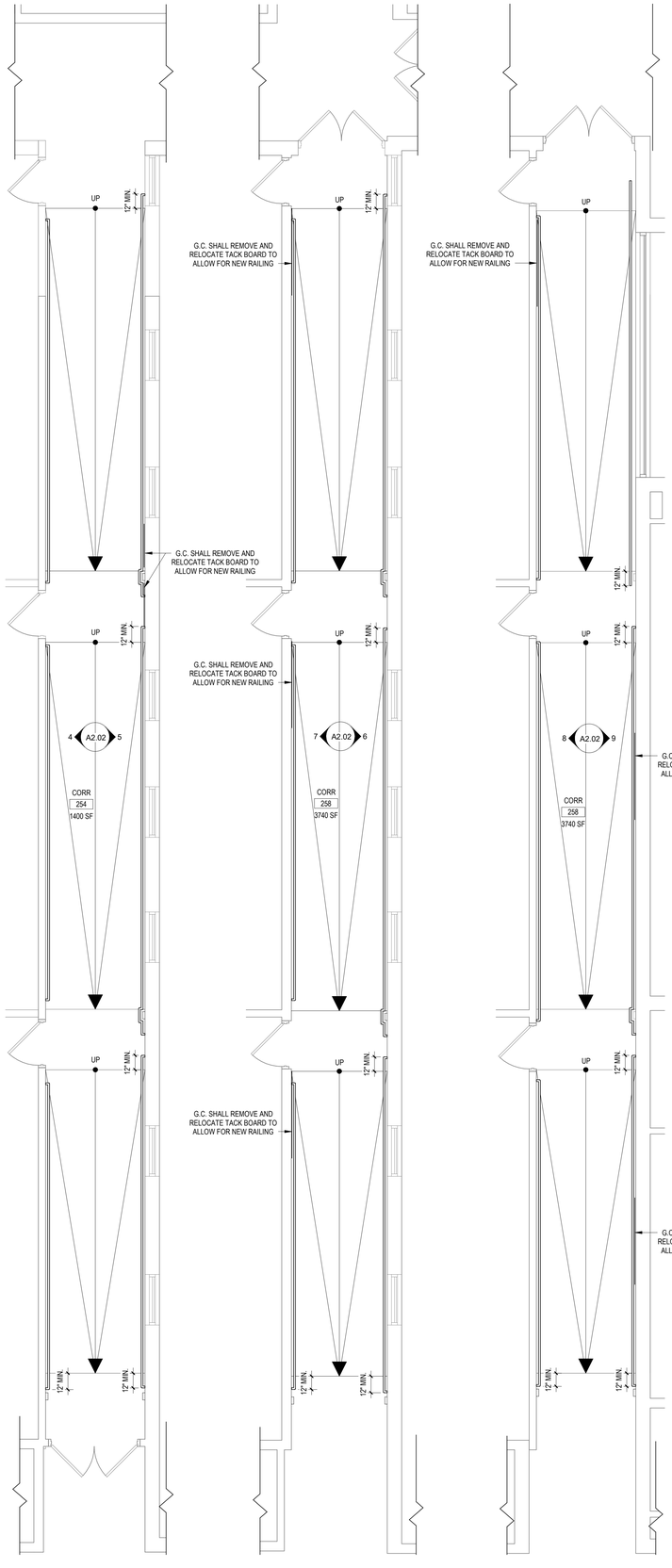
SED No. 66-14-02-02-0-002-021
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE RAILINGS AND DETAILS
SCALE: AS NOTED
DATE: 11/15/2022
BID P/U DATE: 2:00:47 PM
FILE NO. 21-274D

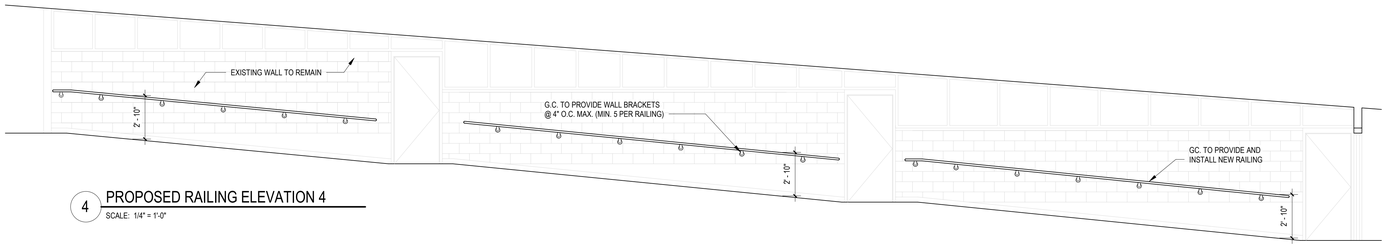
A2.01 | TES



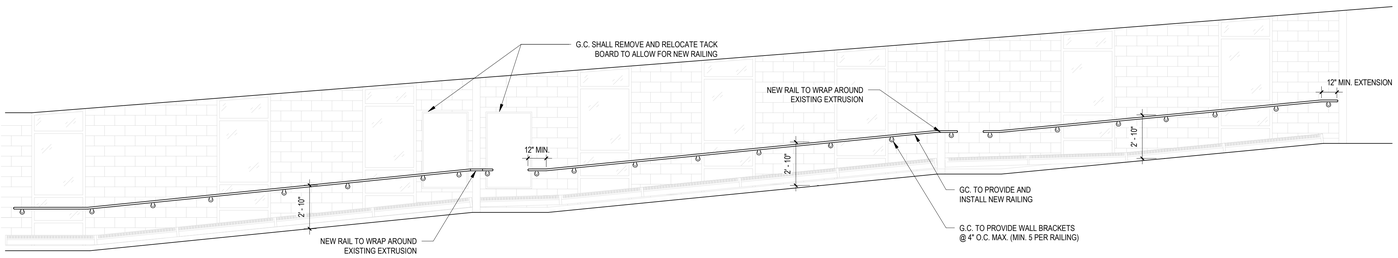
1 PROPOSED PLAN @ CORRIDOR 255
SCALE: 1/4" = 1'-0"

2 PROPOSED PLAN @ CORRIDOR 256
SCALE: 1/4" = 1'-0"

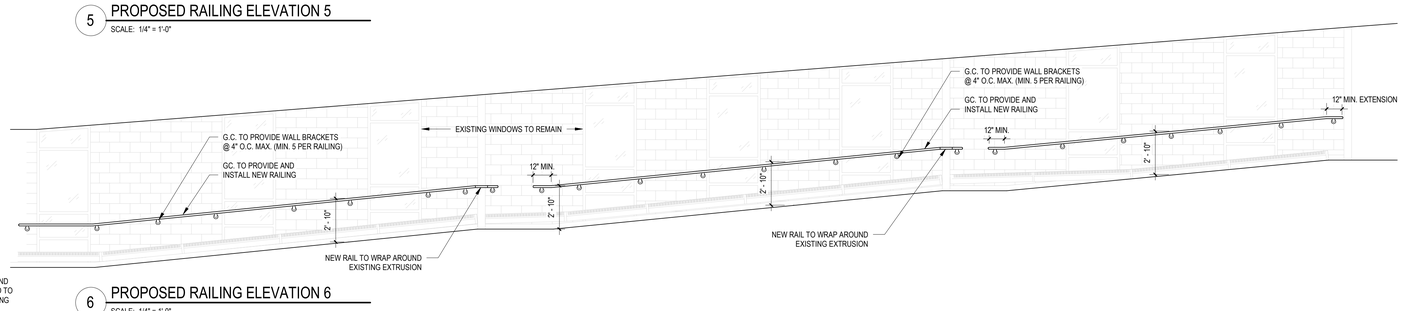
3 PROPOSED PLAN @ CORRIDOR 267
SCALE: 1/4" = 1'-0"



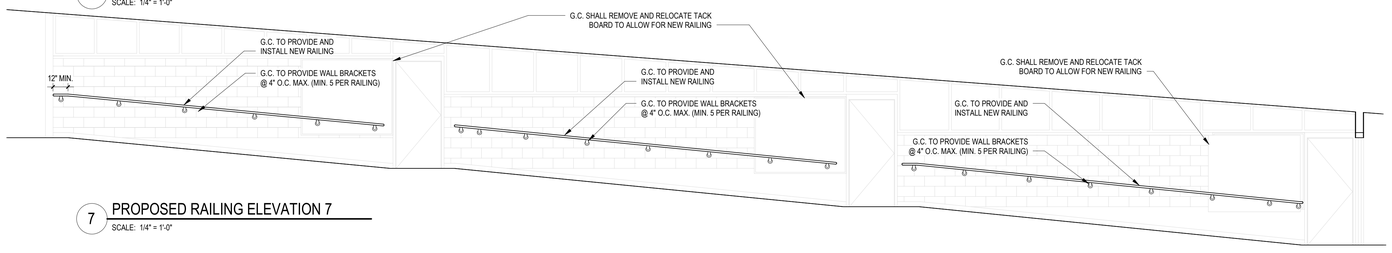
4 PROPOSED RAILING ELEVATION 4
SCALE: 1/4" = 1'-0"



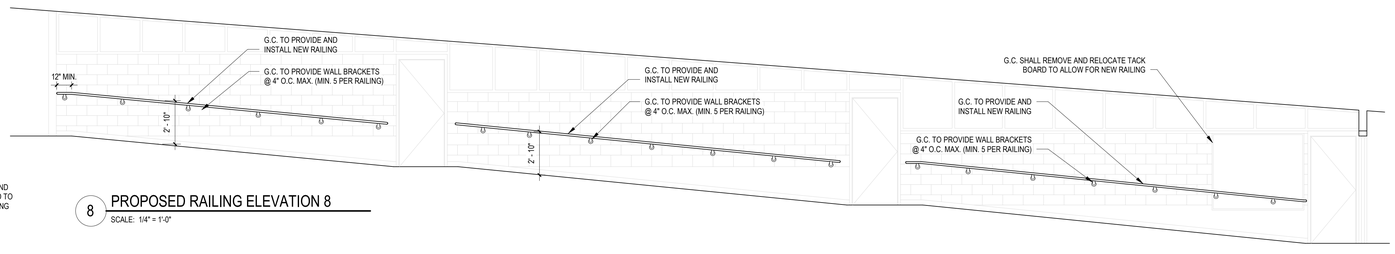
5 PROPOSED RAILING ELEVATION 5
SCALE: 1/4" = 1'-0"



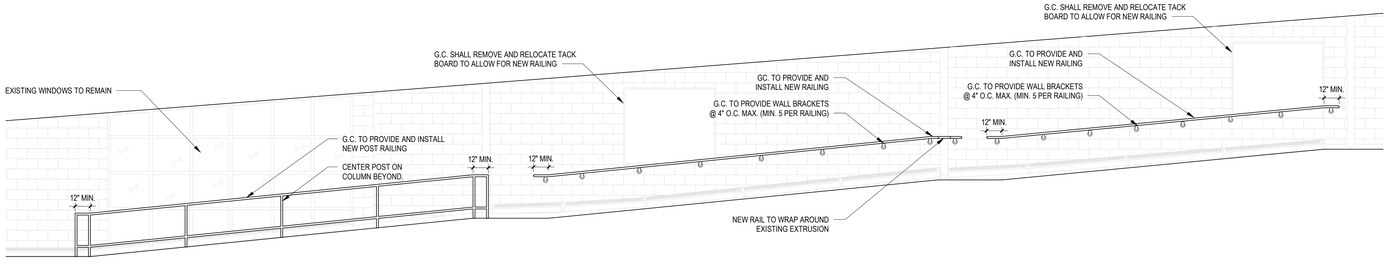
6 PROPOSED RAILING ELEVATION 6
SCALE: 1/4" = 1'-0"



7 PROPOSED RAILING ELEVATION 7
SCALE: 1/4" = 1'-0"



8 PROPOSED RAILING ELEVATION 8
SCALE: 1/4" = 1'-0"



9 PROPOSED RAILING ELEVATION 9
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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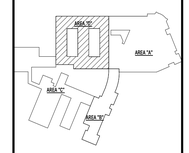

KEY PLAN
NO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
RAILING PLANS & ELEVATIONS

DRWG. BY: R.K.
CHK. BY: G.E.O.

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
www.BBSARCHITECTURE.COM

SED No. 66-14-02-02-0-002-021
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE RAILING PLANS & ELEVATIONS

SCALE: AS NOTED
DATE: 11/15/2022
BID P/U DATE: 2:00:50 PM
FILE NO. 21-274D

A2.02 | TES



MASONRY PHOTO DETAIL - 1

TUCKPOINT BELOW WINDOW



MASONRY PHOTO DETAIL - 2

TUCKPOINT BELOW WINDOW



MASONRY PHOTO DETAIL - 3



MASONRY PHOTO DETAIL - 4

TUCKPOINT ENTIRE WALL



MASONRY PHOTO DETAIL - 5

TUCKPOINT ENTIRE WALL



MASONRY PHOTO DETAIL - 6

TUCKPOINT ENTIRE WALL



MASONRY PHOTO DETAIL - 7

TUCKPOINT BELOW WINDOW



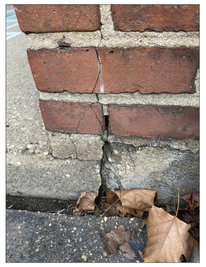
MASONRY PHOTO DETAIL - 8

TUCKPOINT BELOW WINDOW



MASONRY PHOTO DETAIL - 9

TUCKPOINT BELOW WINDOW



MASONRY PHOTO DETAIL - 10



MASONRY PHOTO DETAIL - 11



MASONRY PHOTO DETAIL - 12

TUCKPOINT ENTIRE WALL



MASONRY PHOTO DETAIL - 13



MASONRY PHOTO DETAIL - 14

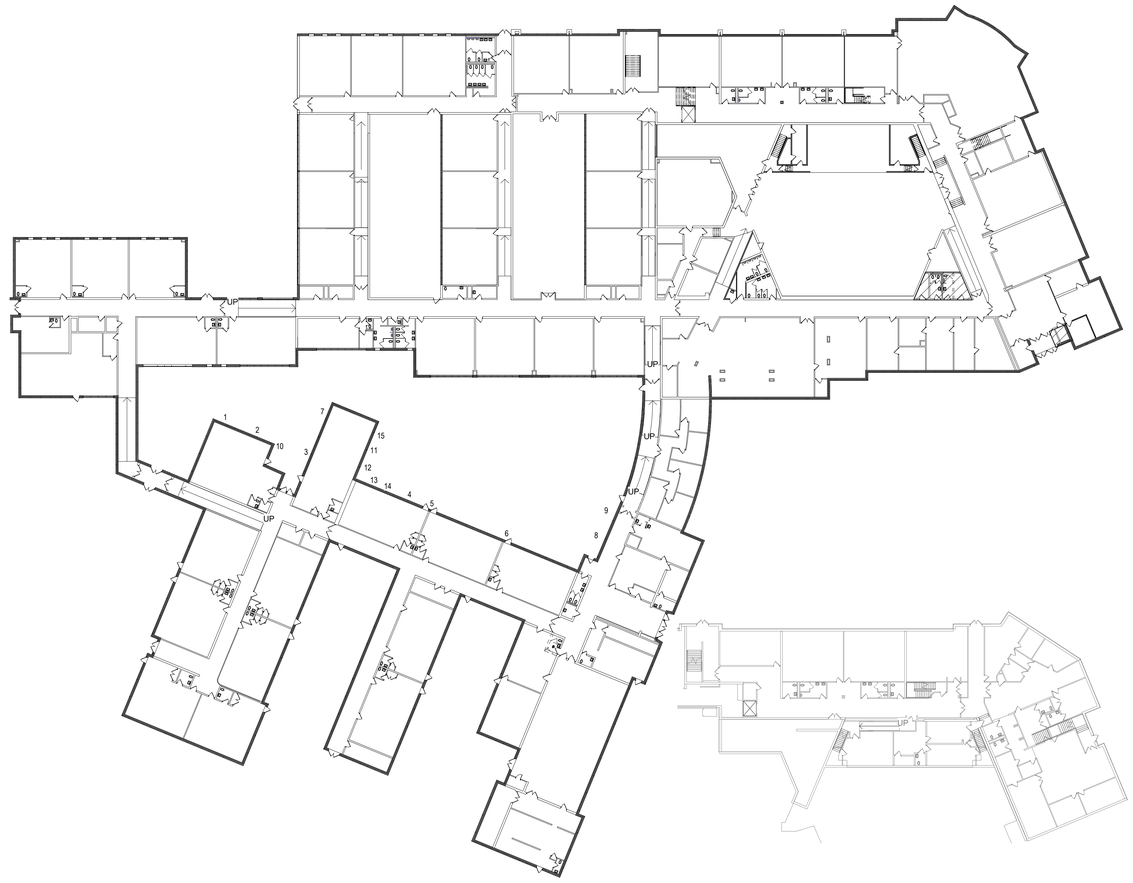


MASONRY PHOTO DETAIL - 15

TUCKPOINT BELOW WINDOW

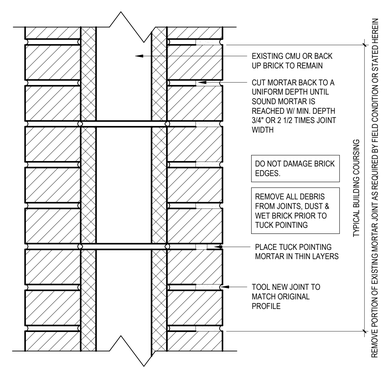
4 MASONRY DETAILS

SCALE: 12" = 1'-0"



1 MASONRY PHOTO KEY PLAN

SCALE: 1/32" = 1'-0"



3 TUCKPOINT DETAILS & NOTES

SCALE: 3" = 1'-0"

BIDDER NOTE:
ALL WORK NOTED ON THIS DRAWING SHALL BE COVERED UNDER ADD ALTERNATE #3 TO BASE BID GC-2

MASONRY RECONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL SCAFFOLD ALL AREAS AS REQUIRED TO PERFORM THE REQUIRED SCOPE OF WORK WITH OSHA APPROVED SCAFFOLDING EQUIPMENT. THE SCAFFOLDING SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT. AREAS OF SCAFFOLDING SHOULD BE ENCLOSED WITH CONSTRUCTION FENCING WITH THE PROPER MARKINGS.
2. MASONRY IS TO BE TUCK POINTED AND BRICK IS TO BE REMOVED AND REPLACED AS REQUIRED AND WHERE INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. BRICK MORTAR, AND SEALANT SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT AND TEST PANELS ERECTED FOR THE ARCHITECTS INSPECTION AND APPROVAL AS INDICATED IN THE SPECIFICATIONS.
3. AREAS REQUIRING TUCK POINTING INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING LOCATIONS:
   A. WHERE MORTAR HAS ERODED FROM THE FACE OF THE MASONRY
   B. WHERE MORTAR HAS CRUMBLED FROM THE JOINTS.
   C. WHERE HAIR LINE CRACKS ARE APPARENT IN THE MORTAR.
   D. WHERE THE BOND BETWEEN THE MASONRY AND THE MORTAR IS BROKEN.
4. PRIOR TO APPLYING NEW MORTAR, CLEAN OUT ALL DEBRIS AND DUST AND WET BRICK.
5. WHERE THE EXISTING BRICK UNITS ARE DAMAGED CUT OUT THE OLD MORTAR SURROUNDING THE AFFECTED UNITS AND REMOVE THE BRICK. CHISEL OUT ALL OLD MORTAR AND REMOVE ALL DUST AND DEBRIS, BEING CAREFUL NOT TO ALLOW DEBRIS TO FALL INTO CAVITY. DAMPEN SURROUNDING BRICK SURFACES AND PLACE NEW UNIT OF SIMILAR SIZE AND COLORATION INTO OPENING. TOOL JOINT TO MATCH ORIGINAL PROFILE.
6. MORTAR FOR REBUILDING AND TUCK POINTING SHALL BE AS SPECIFIED AND SHALL BE HIGH IN LIME CONTENT. MORTAR SHALL BE SOFTER THAN EXISTING BRICK AND NO HARDER THEN EXISTING MORTAR.
7. THE FINAL APPEARANCE OF THE FACADE SHALL BE UNIFORM IN TERMS OF MORTAR COLORATION, TOOLING, AND SIZE OF JOINTS. JOINTS SHALL BE TOOLED TO MATCH EXISTING OR, WHERE THE ENTIRE WALL IS BEING REDONE, NEW JOINTS SHALL BE TOOLED CONCAVE.
8. AFTER COMPLETION OF TUCK POINTING WORK, ALL LOOSE MORTAR AND MORTAR STAINING SHALL BE CLEANED FROM SURFACE OF MASONRY.
9. THE CONTRACTOR SHALL PROTECT ALL EXISTING WINDOWS AND DOOR OPENINGS AND ADJACENT MATERIALS AND SURFACES FROM DAMAGE DURING POINTING PROCESS. ANY DAMAGE INCURRED SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
10. IN AREAS WHERE MORTAR CANNOT BE REMOVED BY GRINDING, CONTRACTOR SHALL USE MANUAL METHODS.
11. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE RANDOM SAMPLES OF MORTAR DURING THE PROGRESS OF WORK, AS DIRECTED BY THE ARCHITECT.
12. THE CONTRACTOR SHALL SUBMIT A MORTAR DESIGN MIX FOR APPROVAL BY THE ARCHITECT AND SHALL INFORM THE ARCHITECT PRIOR TO APPLICATION FOR MORTAR TESTING
13. THE CONTRACTOR SHALL PROVIDE 2'X2' BRICK MOCK UP SHOWING BRICK AND MORTAR COLORS FOR APPROVAL

REV.	DATE	ITEM

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BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

PROJECT

MASONRY RECONSTRUCTION

DWGTITLE

DRWG. BY: R.K.
CHK. BY: G.E.O.

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

BRANCH/PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
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SCALE: AS NOTED
DATE: 11/15/2022
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FILE NO. 21-274D

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ABBREVATIONS:

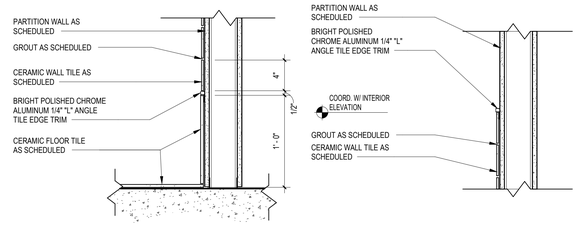
ACT	ACOUSTIC CEILING TILE	CWT	CERAMIC WALL TILE	MS	MARBLE SADDLE (ADA)	PFT	PORCELAIN FLOOR TILE	RT	RUBBER TILE	VINYL	SLIP-RESISTANT FLOORING
CPT	CARPET	EPOXY	EPOXY TERRAZZO	NA	NOT APPLICABLE	PLAST.	PLASTER	TERR	TERRAZZO	WD	WOOD
C.M.U.	CONCRETE MASONRY UNIT	GTW	GLAZED TILE WAINSCOT	NIC	NOT IN CONTRACT	RB	RUBBER COVE BASE	VCT	VINYL COMPOSITION TILE	WM	WALK OFF MAT
CONC.	CONCRETE	GYP	GYPSUM BOARD	PCB	PORCELAIN TILE COVE BASE	RF	RUBBER FLOORING	VET	VINYL ENHANCED TILE		

DOOR SCHEDULE

	LOCATION		SIGNAGE	DOOR							FRAME			HARDWARE	DETAILS				FIRE RATING	REMARKS	DOOR NO.
	FROM ROOM	TO ROOM		LEAF	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	GLAZING		HEAD	JAMB	SILL	T'HOLD			
22	CORR (202)	GIRLS (22)		1	3' - 0"	7' - 0"	1 3/4"	D1	WD												22
23	CORR (202)	BOYS (23)		1	3' - 0"	7' - 0"	1 3/4"	D1	WD												23
43	LOBBY (100)	TOILET (43)		1	3' - 0"	7' - 0"	1 3/4"	D1	WD												43
103A	NURSE (103)	NURSES TOILET (103a)		1	3' - 0"	7' - 0"	1 3/4"	D1	WD	---											103A
344			---	1	5' - 8 1/4"	7' - 2"	1/2"		ALUM	---				11.0	H4	J4	S1	---	---	ROLLING COUNTER DOOR	344

FINISH SCHEDULE

RM. NO.	LOCATION	FLOOR		BASE		WALLS		CEILING	REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH		
	GIRLS	VCT1	VCT1	RUBBER BASE	RCB2	CERAMIC TILE/PAINTED	CT3	ACT1	
	BOYS	VCT1	VCT1	RUBBER BASE	RCB2	CERAMIC TILE/PAINTED	CT3	ACT1	
	NURSE (103)	VCT1	VCT1	RUBBER BASE	RCB2	CERAMIC TILE/PAINTED	CT3	ACT1	
	NEAR ROOM 125	VCT1	VCT1	RUBBER BASE	RCB2	CERAMIC TILE/PAINTED	CT3	ACT1	



1 TILE TRIM DETAIL
SCALE: 1 1/2" = 1'-0"

FINISH NOTES

1. ALL FINISH TYPES (STYLE/COLOR/PATTERN) SHALL CONFORM TO THE STANDARD OF QUALITY INDICATED BY THE PROJECT MANUAL. FINAL STYLE/COLOR/PATTERN TO BE SELECTED BY ARCHITECT.
2. ALL CMU SURFACES SHALL BE PRIMED WITH INTERIOR & EXTERIOR BLOCK FILLER M88 INDUSTRIAL MAINTENANCE BY BENJAMIN MOORE. PRIOR TO FINISH PAINT APPLICATION.
3. ALL WINDOWS IN AREA OF WORK ARE TO HAVE NEW SHADES OR BLINDS SUPPLIED AND INSTALLED BY GC, (1) PER WINDOW UNIT. G.C. SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
4. NEW AND EXISTING DOOR FRAMES ASSOCIATED IN SCOPE OF WORK SHALL BE PREPPED AND PAINTED WITH 'BENJAMIN MOORE' LATEX SEMI-GLOSS PAINT BY GC. COLOR AS SELECTED BY ARCHITECT.
5. REFER TO FLOOR PLANS FOR TILE PATTERNS.
6. G.C. SHALL PREP/PRIME AND PAINT ALL SHEET METAL PIPE ENCLOSURES (INSTALLED BY MC). COLOR AS SELECTED BY ARCHITECT.
7. BEFORE PAINTING, CONCRETE SURFACES MUST CURE 30 DAYS. BLOCK AND PLASTER SURFACES MUST CURE FOR 30 DAYS.
8. ALL NEW WOOD WINDOW SILLS, MOLDING AND TRIM SHALL RECEIVE A "STAINED" FINISH AND RECEIVE (3) COATS OF 'BENWOOD' POLYURETHANE FINISH LOW LUSTER NO. 435 BY 'BENJAMIN MOORE' OR APPROVED EQUAL. STAIN COLOR AS SELECTED BY ARCHITECT. GC SHALL SUBMIT PHYSICAL COLOR SAMPLE FOR REVIEW AND APPROVAL.
9. ALL FINISHES SHALL BE PROVIDED AND INSTALLED BY GC UNLESS OTHERWISE NOTED. REFER TO SPEC SECTION 09900 FOR ADDITIONAL INFORMATION.
10. ALL INTERIOR FINISHES IN CORRIDOR SHALL BE CLASS 'A' RATED.
11. PATCH, REPAIR AND FINISH CEILING, WALLS, AND FLOOR @ POINTS OF DEMOLITION TO MATCH EXISTING ADJACENT. EXISTING FINISHES TO REMAIN.
12. SHOULD ANY FINISH MATERIALS BE DISCONTINUED BY MANUFACTURER, GC MUST REPLACE WITH CLOSEST MATCH AT NO ADDITIONAL COST, AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
13. REFER TO REFLECTED CEILING PLANS AND FINISH FLOOR PLANS FOR ADDITIONAL INFORMATION.
14. DOOR FRAMES TO BE PREPPED & PAINTED AS PER SPEC. COLOR AS SELECTED BY ARCHITECT.
15. G.C. SHALL PREP, PRIME & PAINT SHEETROCK CEILINGS UNLESS OTHERWISE NOTED FINISH AS PER SPEC. COLOR: WHITE- FLAT FINISH.
16. REFER TO FINISH FLOOR PLANS FOR TILE PATTERNS - THE TILE PATTERNS MAY NOT REPRESENT THE FINAL PATTERNS TO BE DESIGNED, INSTALLED & TURNED OVER TO OWNER. THE BID SHALL BE BASED ON THE TILE MIX & PERCENTAGES, AS INDICATED IN THE PROJECT MANUAL.
17. REFER TO REFLECTED CEILING PLANS, TOILET ROOM TILE PLANS, AND FINISHED FLOOR PLANS FOR ADDITIONAL FINISH INFORMATION.
18. GENERAL CONTRACTOR SHALL PERFORM A BOND TEST IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS PRIOR TO INSTALLATION OF NEW V.C.T. FLOORING.
19. CONTRACTOR SHALL INSTALL PLANI/PATCH PLUS BY 'MAPEI' OR APPROVED EQUAL OVER SUBSTRATE AND/OR CONCRETE SLAB TO PROVIDE A FLOOR SURFACE IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS AND AS SPECIFIED FOR INSTALLATION OF NEW FINISH FLOOR MATERIALS.

PRIME 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.

GYPSUM BOARD FINISHING

GENERAL CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF GYPSUM ASSOCIATION TRADE PUBLICATION GA-214-96 'RECOMMENDED LEVELS OF GYPSUM BOARD FINISH' & 3.06 OF SPECIFICATION SECTION 09250.

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

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.

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.

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.

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

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.)

WALL TYPES:

TYPE P1:	PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: AS SELECTED BY ARCHITECT	TYPE P2:	PAINT BY SHERWIN WILLIAMS LATEX EGGSHELL ENAMEL COLOR: AS SELECTED BY ARCHITECT
TYPE CT1:	4" X 4" CERAMIC WALL TILE MANUFACTURER: CREATIVE MATERIAL CO. COLLECTION: MOSA COLOR: 15THIRTY - 15010 - MATTE (WHITE MATTE)	TYPE CT2:	4" X 4" CERAMIC WALL TILE MANUFACTURER: CREATIVE MATERIAL CO. COLLECTION: MOSA COLOR: 17980 - GLOSSY (ORANGE)
TYPE CT3:	12" X 24" CERAMIC FLOOR TILE MANUFACTURER: CREATIVE MATERIAL CO. COLLECTION: FRAMMENTO COLOR: BEIGE MACRO - NATURAL - RECTIFIED (BEIGE TERRAZZO)		

RUBBER BASE TYPES:

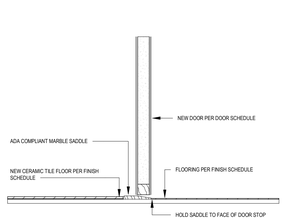
TYPE RCB1:	RUBBER COVE BASE BY "JOHNSONITE" COLOR AS SELECTED BY ARCHITECT (CORRIDORS)	TYPE RCB2:	RUBBER COVE BASE BY "JOHNSONITE"

CEILING TILE TYPES:

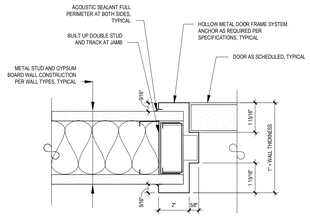
TYPE ACT1:	ACOUSTIC CEILING TILE BY "ARMSTRONG" SIZE: 24" X 24" X 3/4" STYLE: #1911 ULTIMA BEVELED TEGULAR (CORRIDORS/CLASSROOMS/OFFICES)	TYPE ACT2:	ACOUSTIC CEILING TILE BY "ARMSTRONG" SIZE: 24" X 24" X 5/8" STYLE: # 770 CORTEGA SQUARE LAY-IN (STORAGE ROOMS/CUSTODIAL)
CEILING GRID:	CEILING GRID BY "ARMSTRONG", 15/16" PRELUDE, WHITE, U.O.N. NOTE: ALL CEILING TILE & GRID TO BE WHITE UNLESS OTHERWISE NOTED.		

FLOOR MATERIAL TYPES

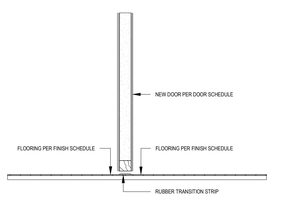
TYPE VCT1:	12" X 12" VINYL COMPOSITION TILE MANUFACTURER: ARMSTRONG 'EXCELON IMPERIAL' COLOR: AS SELECTED BY ARCHITECT (CLASSROOMS, CORRIDOR)	TYPE CT4:	12" X 24" CERAMIC FLOOR TILE MANUFACTURER: CREATIVE MATERIAL CO. COLLECTION: FRAMMENTO COLOR: BEIGE MACRO - NATURAL - RECTIFIED (BEIGE TERRAZZO)



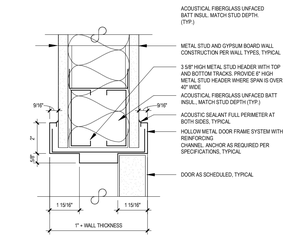
T2 THRESHOLD DETAIL 2
SCALE:1 1/2" = 1'-0"



J4 DOOR JAMB DETAIL 4
SCALE:3" = 1'-0"



T4 THRESHOLD DETAIL 4
SCALE:1 1/2" = 1'-0"



H4 DOOR HEAD DETAIL 4
SCALE:3" = 1'-0"

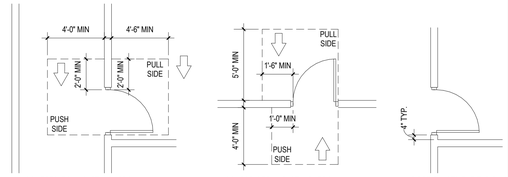
ABBREVIATIONS

ALUM.	ALUMINUM	M.C.O.V.	MINERAL CORE OAK VENEER
F.G.	1" FIREGLASS 20	S.C.L.C.M.V.	SOLID COMPOSITE LUMBER CORE MAPLE VENEER
F.L.P.	5/16" FIRE-LITE PLUS	S.C.L.C.O.V.	SOLID COMPOSITE LUMBER CORE OAK VENEER
F.R.P.	FIBERGLASS REINFORCED POLYESTER	S.L.	.1" SAFETY LAMINATED GLASS
H.M.	HOLLOW METAL	TEMP.	1" TEMPERED GLASS
INSUL.	1" INSULATED GLASS	OBSC.	OBSCURE GLASS
M.C.M.V.	MINERAL CORE MAPLE VENEER		

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. ALL FIRE RATED WOOD DOORS 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. REFER TO SPECIFICATION SECTION 08211 FOR ADDITIONAL INFORMATION.
5. ALL GLAZING IN DOORS SHALL BE INSTALLED IN METAL VISION KIT TO MATCH FIRE LABEL. VISION KIT COLOR SHALL BE AS SELECTED BY ARCHITECT.
6. ALL NEW H.M. FRAMES SHALL BE 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.
7. 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.
8. 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.
9. ALL NEW HOLLOW METAL FRAMES AND HOLLOW METAL DOORS SHALL BE FINISH PAINTED. COLOR AS SELECTED BY ARCHITECT.
10. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL A.D.A. ACCESSIBLE SIGNAGE AT ALL DOORS (WHERE SPECIFIED IN DOOR SCHEDULE AND/OR SHOWN ON FLOOR PLANS) AND INSTALLED IN CONFORMANCE WITH ALL A.D.A. REQUIREMENTS.
    - ▼ A. WHERE DENOTED IN SCHEDULE, PROVIDE 4"x4" SIGNAGE WITH BRAILLE INDICATING ROOM NUMBER (COORD. WITH OWNER), MODEL E-BTCUST.
    - ▼ B. WHERE DENOTED IN SCHEDULE, PROVIDE 4"x12" SIGNAGE WITH BRAILLE INDICATING ROOM NAME AND NUMBER (COORD. WITH OWNER), MODEL 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 (BOYS), X-7096 (GIRLS)
      - AT MULTI-USE ACCESSIBLE TOILET ROOMS, PROVIDE AND INSTALL MODEL No. X-5688 (WOMEN), X-5671 (MEN), X-7108 (BOYS), X-7107 (GIRLS)
    - ▼ 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, IF REQUIRED
      - AT SINGLE-USE ACCESSIBLE TOILET ROOMS, PROVIDE AND INSTALL MODEL No. E-BTCUST. SIGN SHALL SPECIFY STAFF OR STUDENT USE, IF REQUIRED

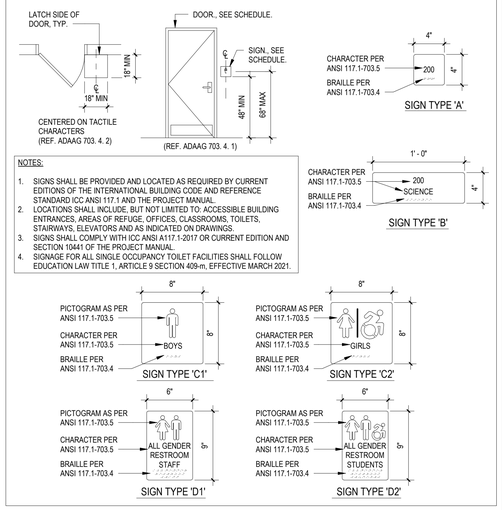
    MANUFACTURER: "ALLSTATE SIGN AND PLAQUE" (REFER TO DOOR SCHEDULE AND FLOOR PLANS FOR SIGN TYPE AND LOCATION). ALL SIGNAGE SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL.
11. ALL REMOVABLE MULLIONS ARE TO BE KEYED ALIKE AND TO MATCH EXISTING BUILDING SYSTEM.
12. GLAZING WITH SURFACE APPLIED FILMS WILL NOT BE CONSIDERED EQUIVALENT WHERE LAMINATED FILM IS SPECIFIED.



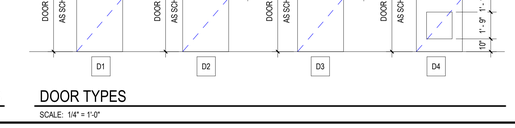
A DOOR PLAN/DETAIL NOT TO SCALE
B DOOR PLAN/DETAIL NOT TO SCALE
C DOOR PLAN/DETAIL NOT TO SCALE

DOOR PLACEMENT DETAILS
SCALE: N.T.S.

TYPICAL ADA SIGNAGE DETAILS



NOTES:
1. SIGNS SHALL BE PROVIDED AND LOCATED AS REQUIRED BY CURRENT EDITIONS OF THE INTERNATIONAL 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. SIGNS SHALL COMPLY WITH ICC ANSI A117.1-2017 OR CURRENT EDITION AND SECTION 10441 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 TYPES
SCALE: 1/4" = 1'-0"

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

REV.	DATE	ITEM

NOTICE

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BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DOOR SCHEDULE, FINSIH SCHEDULE AND DETAILS

PROJECT
DWG/TITLE

DRWG. BY: R.K.
CHK. BY: G.E.O.

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
www.BBSARCHITECTURE.COM

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DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 2 BOND IMPROVEMENTS
DWG TITLE DOOR SCHEDULE, FINSIH SCHEDULE AND DETAILS
SCALE: AS NOTED
DATE: 11/15/2022
BID P/U DATE: 2:01:02 PM
FILE NO. 21-274D

A8.01 TES

SYMBOL LEGEND

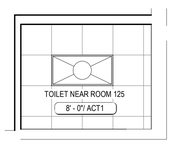
NAME No. x'-x"/ATx	ROOM TAG, CEILING TILE TYPE and FINISH CEILING ELEVATION (ABOVE FINISH FLOOR)
NO CEILING (CLG)	OPEN TO STRUCTURE AND DECK ABOVE - PAINT (G.C.)
	NEW SUSPENDED ACOUSTICAL CEILING AND GRID - SEE FINISH SCHEDULE (G.C.)
	EXISTING SUSPENDED ACOUSTICAL CEILING AND GRID
	GYPSUM BOARD SOFFIT OVER METAL FRAMING - TAPE, SPACKLE & PAINT (G.C.)
	RECESSED OR SURFACE MOUNTED LIGHT FIXTURE BY E.C. REFER TO ELECTRICAL DRAWINGS FOR INFO. (E.C.)
	EXIT SIGN. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
SPKR	CEILING MOUNTED SPEAKER. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
S H	SMOKE/HEAT DETECTORS. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
OS	OCCUPANCY SENSOR. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)
	CEILING GRILLE/REGISTER. REFER TO MECHANICAL DWGS. FOR ADDITIONAL INFO (M.C.)
	16" x 16" ACCESS PANEL

TYPICAL REFLECTED CEILING NOTES

1. CEILING PLANS MAY NOT INDICATE ALL MECHANICAL AND/OR ELECTRICAL CEILING ITEMS, REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR ADD'L INFO.
2. ALL FIXTURES SHALL BE CENTERED WITHIN THE GRID, U.O.N.
3. SUPPORT OF ALL ARCHITECTURAL COMPONENTS (I.E, HUNG CEILING SYSTEMS, GRIDS, ETC.) SHALL BE INSTALLED TO WITHSTAND SEISMIC LOADS IN ACCORDANCE WITH THE IBC SECTION 1621, FOR SEISMIC DESIGN CATEGORY 'B' AND IMPORTANCE FACTOR 1.0. BASED UPON THE ABOVE, NO SPECIFIC SEISMIC RESTRAINTS ARE REQUIRED.
4. ALL ACOUSTICAL HUNG CEILING GRID SYSTEMS SHALL BE INSTALLED IN CONFORMANCE WITH ASTM, C636 "STANDARD PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS" REQUIREMENTS.
5. 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)
6. ACOUSTICAL CEILINGS SHALL HAVE A MINIMUM NOISE REDUCTION COEFFICIENT (NRC) RATING OF 0.65.
7. ALL LIGHTING FIXTURES REMAIN EXCEPT WHERE NOTED. ELECTRICAL CONTRACTOR TO DE-ENERGIZE DURING DEMOLITION AND INSTALLATION OF NEW CEILING. ELECTRICAL CONTRACTOR TO RE-INSTALL ALL OTHER ELECTRICAL DEVICES (SPEAKERS, SMOKE DETECTORS, FIRE ALARM STROBES, ETC.) WHETHER NOTED ON PLAN OR NOT. REFER TO ELECTRICAL DRAWINGS FOR ADD'L INFO.
8. CEILING GRID SHALL BE ARRANGED TO BE SPACED EQUALLY IN EACH DIRECTION W/ NO TILE LESS THAN 6" UNLESS OTHERWISE REQUIRED.
9. PROVIDE CEILING EXPANSION JOINT AT ALL NEW TO EXISTING INTERACTIONS AND WHERE INDICATED ON PLAN. REFER TO WALL SECTIONS AND SPECIFICATIONS.
10. ALL AREAS NOTED AS 'OPEN' AND/OR 'NO CEILING (CLG)' SHALL BE PAINTED. (INCLUDING DECK, STRUCTURE, DUCTWORK, ETC.
11. 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.

FIRE STOP/ACOUSTICAL SEALING NOTES

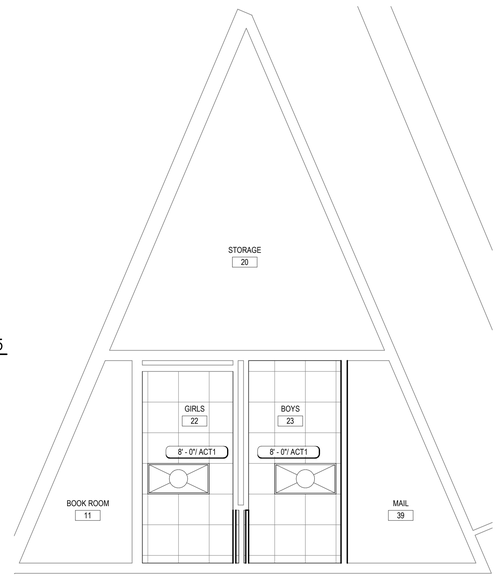
1. ALL PIPING PENETRATIONS THROUGH CORRIDOR WALLS AS WELL AS ALL FIRE RATED WALLS (SUCH AS STORAGE ROOMS, CLOSETS, BOILER ROOMS, ETC) AND ALL OTHER FIRE RATED FLOORS OR STRUCTURES SHALL BE FIRE STOPPED.
2. ALL PENETRATIONS THROUGH ALL OTHER WALLS, FLOORS, ETC. (I.E. CLASSROOMS AND LIBRARIES) SHALL BE ACOUSTICALLY SEALED IN ACCORDANCE WITH ANSI S12.60-2002 REQUIREMENTS. THE SEALANT MATERIALS SHALL BE " SPEC-SEAL, SMOKE AND SOUND ACOUSTIC SEALANT" AS MANUFACTURED BY STI, OR ARCHITECT APPROVED EQUAL. SEALANT SHALL MEET ASTMC919 FOR SEALANTS IN ACOUSTICAL APPLICATIONS.
3. 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.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED FOR APPROVAL BY ARCHITECT.
5. FIRESTOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS.



3 PROPOSED CEILING PLAN @ TOILET ROOM NEAR ROOM 125
SCALE: 1/4" = 1'-0"



2 PROPOSED CEILING PLAN @ NURSES TOILET ROOM
SCALE: 1/4" = 1'-0"



1 PROPOSED CEILING PLAN @ TOILET ROOMS 22 & 23
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWG TITLE
REFLECTED CEILING PLANS

DRWG. BY: R.K.
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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS
BRANCH PROJECT CONTACT:
187 WOLF ROAD, STE 205
ALBANY
NEW YORK 12205
T. 518.621.7650
244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361
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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 15511 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-8 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.

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 15250 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 15903 FOR FURTHER DETAILS.

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. 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.
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 15511 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.
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.

PIPING SYSTEMS and 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.

ELECTRICAL WORK 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.
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 ALL ELECTRICAL WORK.

DUCTWORK NOTES

1. PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, 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 15891 & 15290 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 15891 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 15891 FOR FURTHER INFORMATION.

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 15990 & 15997 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.

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 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
LPC	LOW PRESSURE STEAM CONDENSATE
LPS	LOW PRESSURE STEAM
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
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WTD	WATER TEMPERATURE DROP
WTR	WATER TEMPERATURE RISE
WPD	WATER PRESSURE DROP

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
	FIRE DAMPER INSTALLED IN DUCTWORK
	VOLUME DAMPER IN DUCT (w/ LOCKING QUADRANT HANDLE)
	ROUND DUCT WORK 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 CILING DIFFUSER (90 DEG. / OPPOSING PATTERN)
	CEILING RETURN AIR REGISTER
	LINEAR SLOT DIFFUSER
	ROOF MOUNTED EXHAUST FAN

PIPING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	PIPING TO RISE UP (TEE)
	PIPING TO DROP DOWN (TEE)
	PIPING TO RISE UP (ELBOW)
	PIPING TO DROP DOWN (ELBOW)
P.A.	PIPING ANCHOR
	PIPING GUIDE
	COLD WATER SUPPLY PIPING
HWS	HEATING SYSTEM SUPPLY PIPING
HWR	HEATING SYSTEM RETURN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
CD	CONDENSATE DRAINAGE PIPING
LPC	LOW PRESSURE STEAM CONDENSATE PIPING
LPS	LOW PRESSURE STEAM PIPING
G	LOW PRESSURE NATURAL GAS PIPING
EG	ELEVATED PRESSURE NATURAL GAS PIPING
	GAS COCK
	DIRT LEG IN PIPING
LP	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
	BALANCING VALVE
	3-WAY VALVE (w/ OPERATOR)
	CIRCUIT CETTER
	TRIPLE DUTY VALVE
	WAFER VALVE
	PLUG / CAP IN PIPING
	PNEUMATIC CONTROL VALVE OPERATOR
	ELECTRIC CONTROL VALVE OPERATOR
	AUTOMATIC AIR VENT
	EXISTING PIPING

NOTE - SINGLE PRIME CONTRACT:

1. UNDER BASE BID - GC-2 , ALL GENERAL CONSTRUCTION, MECHANICAL CONSTRUCTION, PLUMBING CONSTRUCTION, AND ELECTRICAL CONSTRUCTION WORK SCOPE SHOWN SHALL BE PROVIDED AND INSTALLED BY THE SINGLE PRIME CONTRACTOR. REFER TO SPECIFICATIONS (INSTRUCTIONS TO BIDDERS and BID PROPOSAL FORM) FOR ADDITIONAL INFORMATION REGARDING SINGLE PRIME CONTRACT.

REV.	DATE	ITEM

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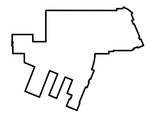

KEY PLAN

NOT TO SCALE



PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

MECHANICAL
GENERAL NOTES, LEGENDS, AND SCHEDULES

DRAWING BY: R.D.P.

CHECK BY:

NOTICE

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ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

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DISTRICT BRIARCLIFF MANOR U.F.S.D. DISTRICT NAME

PROJECT PHASE 2 BOND IMPROVEMENTS AT TODD ES

DWG TITLE GENERAL NOTES, LEGENDS AND SCHEDULES

SCALE: AS NOTED

DATE:

BID PICK-UP: NOVEMBER 14, 2022

FILE No: 21-247D

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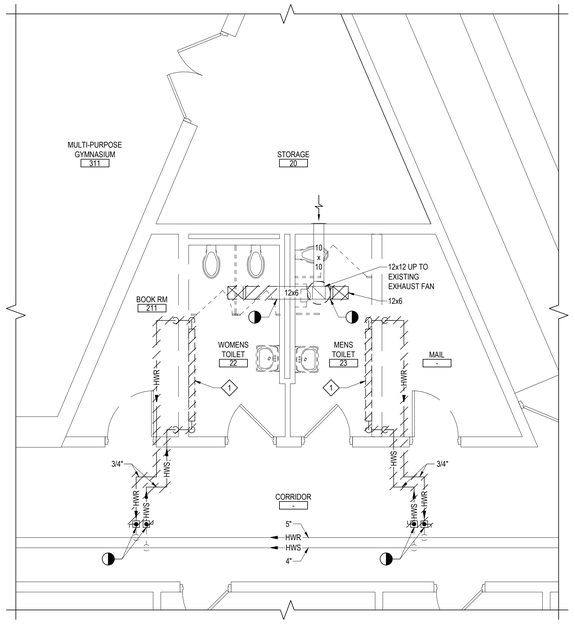
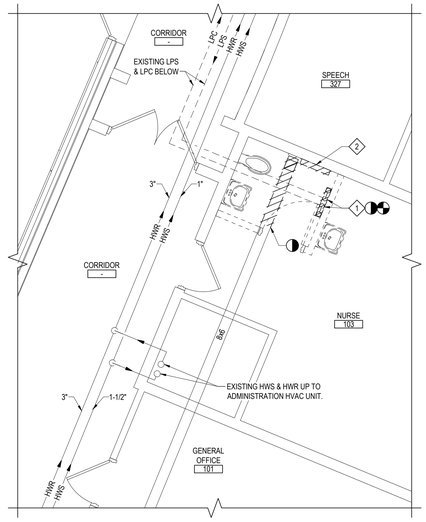


TOILET ROOM HVAC DEMOLITION PLAN

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

DEMOLITION WORK KEYED NOTES:

1. M.C. TO DEMO & REMOVE EXISTING HOT WATER FIN-TUBE. M.C. TO COORDINATE ANY REQUIRED SHUT-DOWN WITH SCHOOL FACILITIES DEPT. PRIOR TO COMMENCING WORK. M.C. TO COORDINATE ALL WORK WITH G.C.

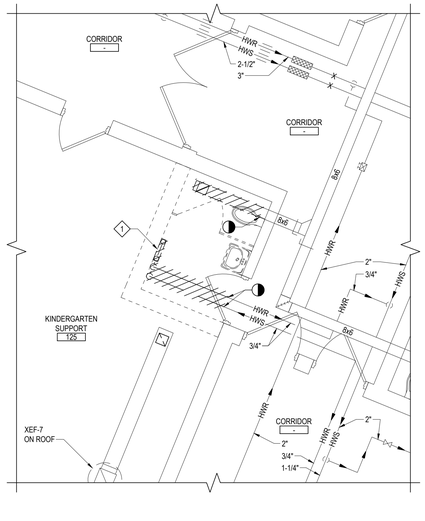


TOILET ROOM HVAC DEMOLITION PLAN

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

DEMOLITION WORK KEYED NOTES:

1. M.C. TO DEMO & REMOVE EXISTING STEAM CONVECTOR. M.C. TO HAVE G.C. CHOP FLOOR TO ALLOW M.C. TO ACCESS EXISTING LPS & LPC TO CUT AND CAP PIPES (BELOW FLOOR) FEEDING STEAM CONVECTOR. G.C. TO PATCH FLOOR UPON COMPLETION OF M.C.'S WORK. COORDINATE ANY REQUIRED SHUT-DOWN WITH SCHOOL FACILITIES DEPT. PRIOR TO COMMENCING WORK. M.C. TO COORDINATE ALL WORK WITH G.C.
2. M.C. TO DEMO & REMOVE EXISTING ELECTRIC BASEBOARD RADIATOR. M.C. TO COORDINATE WORK WITH E.C. & G.C.



TOILET ROOM HVAC DEMOLITION PLAN

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

DEMOLITION WORK KEYED NOTES:

1. M.C. TO DEMO & REMOVE EXISTING HOT WATER CONVECTOR. M.C. TO COORDINATE ANY REQUIRED SHUT-DOWN WITH SCHOOL FACILITIES DEPT. PRIOR TO COMMENCING WORK. M.C. TO COORDINATE ALL WORK WITH G.C.

AIR DEVICE SCHEDULE

(ANEMOSTAT AS STANDARD)

MANUFACTURER MODEL NO.	TAG	NECK SIZE	MODULE SIZE	CFM RANGE	SYMBOL & FLOW PATTERN
ANEMOSTAT 30 (SURFACE MTD.) EXHAUST	A	-	8x8	UP TO 150	EXHAUST

NOTES:

1) MECHANICAL CONTRACTOR TO COORDINATE BORDER TYPES WITH CLG. CONSTRUCTION.

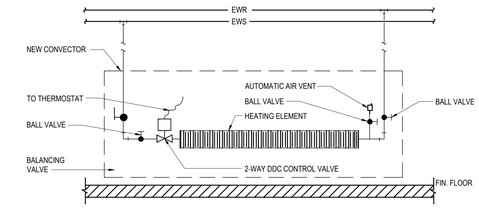
2 ALL BALANCING TO BE PERFORMED THRU BRANCH DAMPERS.

3) EXHAUST GRILLES BASED ON ANEMOSTAT MODEL 30.

4) MAXIMUM NC LEVELS ARE <25 FOR ALL EXHAUST.

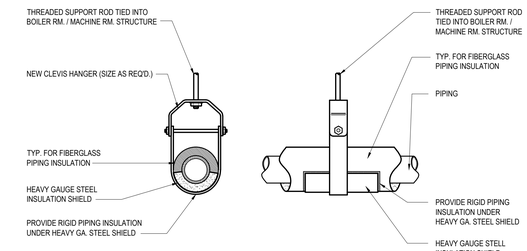
MODEL 30:

RETURN / EXHAUST GRILLES & REGISTERS SHALL BE ANEMOSTAT MODEL 30 (3/4" BLADE SPACING) FIXED BLADE, NON-ADJUSTABLE GRILLES, MANUFACTURED FROM (STEEL) AS SCHEDULED. PROVIDE SIZES AND MOUNTING TYPES AS SCHEDULED. FOR SURFACE MOUNTING APPLICATIONS, COUNTERSUNK MOUNTING HOLES SHALL BE PROVIDED IN THE BORDER, WITH OVAL HEAD SCREWS ALSO PROVIDED BY THE GRILLE MANUFACTURER. BLADES SHALL BE ON 3/4" SPACING, AND SHALL RUN HORIZONTAL OR VERTICAL (SHORT OR LONG DIMENSION) AS SHOWN. BLADES SHALL BE POSITIONED AT 45° DEFLECTION ANGLES, AND HELD RIGIDLY FIXED IN PLACE BY REAR MULLIONS WELDED TO THE GRILLE FRAME. CORNERS SHALL BE WELDED OR STAKED FOR NEAT, UNIFORM MITERED CORNERS. WHERE SCHEDULED, PROVIDE A BAKED-ON, ARCTIC WHITE FINISH, OR CUSTOM COLOR AS SELECTED BY THE ARCHITECT.



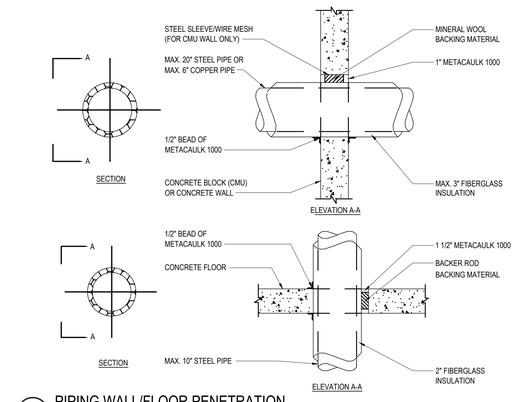
1 CONVECTORS HEATING ELEMENT PIPING

SCALE: N.T.S.



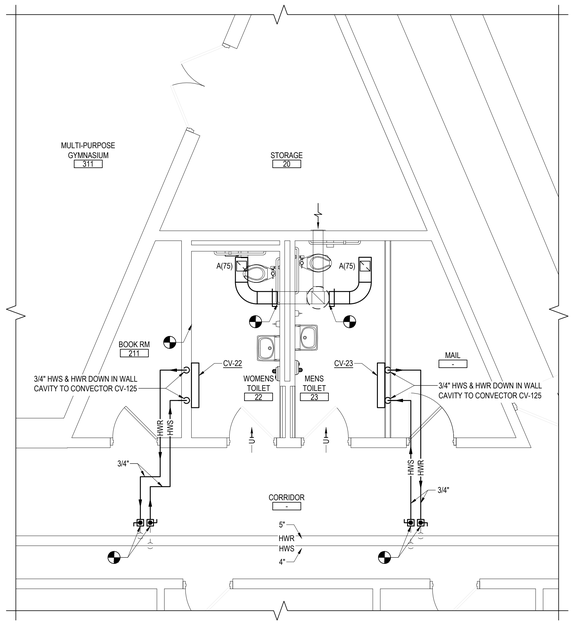
2 CLEVIS HANGER PIPING SUPPORT DETAIL

SCALE: N.T.S.



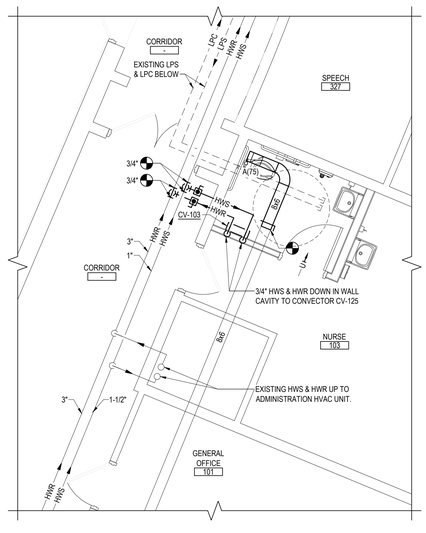
3 PIPING WALL/FLOOR PENETRATION

SCALE: N.T.S.



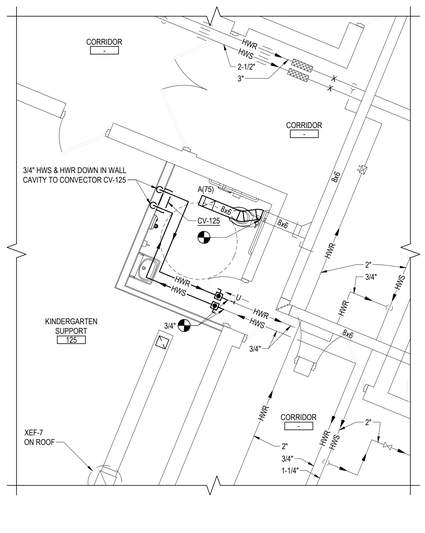
TOILET ROOM HVAC NEW WORK PLAN

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



TOILET ROOM HVAC NEW WORK PLAN

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



TOILET ROOM HVAC NEW WORK PLAN

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

REV.	DATE	ITEM

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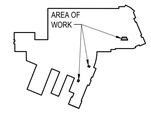

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

HVAC
DEMOLITION & PROPOSED PART PLANS

DRAWING BY: Z.M.Z.

CHECK BY: - - -

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PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

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T. 518.621.7650
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DISTRICT	BRIARCLIFF MANOR U.F.S.D. DISTRICT NAME
PROJECT	PHASE 2 BOND IMPROVEMENTS AT TODD ES
DWG TITLE	HVAC DEMOLITION & PROPOSED PART PLANS
SCALE:	AS NOTED
DATE:	
BID PICK-UP:	NOVEMBER 14, 2022
FILE No:	21-247D

M1.01

SLOPE TOP, WALL-MOUNTED, HOT WATER CONVECTOR SCHEDULE (CV-22, CV-23, CV-103 & CV-125) (BASIS: ZEHNDER RITTLING)

Model

SL-18-24-04

Tag:

Qty	Coil Config	Inlet/Outlet	End Pocket
1	**Hot Water**		**NONE**

General Information

Altitude:	**0**	Feet
Height:	**18" H**	
Length:	**24" L**	
Depth:	**4" D**	

Hot Water Heat

Capacity:	**2.9**	MBH
Entering Air Temperature:	**68.0**	°F
Fluid Flow:	**0.5**	GPM
Entering Fluid Temperature:	**200.0**	°F
Leaving Fluid Temperature:	**188.0**	°F
Average Fluid temperature	**194.0**	°F
Fluid ΔT:	**12.0**	°F
Fluid Pressure Drop:	**0.2**	ft. H2O
Fluid Type:	**Water**	
Glycol %:	**0**	

Unit Information

Unit Length:	**24**	inches
Unit Width:	**4**	inches
Unit Height:	**18**	inches

* Weight is base unit only, does not include any options or accessories selected



SL - SLOPE TOP WALL MOUNTED

Standard Colors

Ivory



Gray



Beige



Dark Gray



Bronze

White

Pricing for standard colors varies by product and color, refer to price lists for detailed information.

Electronic file is for reference only, subject to the calibration of each individual monitor it is viewed on. Contact the factory for a printed color chart to obtain an accurate representation of standard colors.

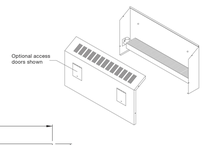
Notes
- Slight color variation may exist between actual finish and color chips. All colors are supplied in semi-gloss.
- Variation in color and gloss may occur in the manufacturing process.
- Custom color matching is available at additional cost. Metallic colors are not available.
- All products with a prime finish must have a field-applied topcoat for a consistent color.

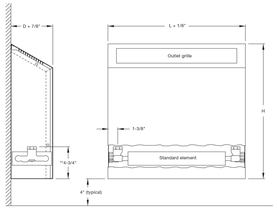
Dimensions and data

Nominal lengths (L)	Nominal heights (H)	Nominal depths (D)
24"	18"	4"
28"	20"	6"
36"	26"	8"
40"	32"	
48"		
52"		
60"		
64"		

Any combination of length, height and depth is available.

Model SL; wall hung slope top





SL Convector Access Door Location Availability

Unit Height	Unit Lengths	# of Doors Available	Available Locations	Door Size
Up to 20"	All lengths	2	1, 2	4"H x 5"W
20" and over	All lengths	2	1,2	5"H x 5"W

Standard Convector Access Door Locations



Note:
- *Contact factory on heights less than 23"
- **The coil is adjustable 7/8" up in 7/16" increments.
- For convectors less than 28" long, end pockets are not offered as standard. Consult factory for availability.

Qty: 3 Tags: Bathroom,

Fiberglass insulation

Description

Flexible duct liner insulation is made from strong, glass fibers bonded with a thermosetting resin. The airstream surface is protected with a reinforced coating system, which combines a state-of-the-art acrylic coating with a flexible glass mat reinforcement to provide a smooth airstream surface.

Advantages
- Improves indoor environmental quality by helping to control both temperature and sound.
- The tough, acrylic polymer coating helps guard against the incursion of dust or dirt into the substrate, minimizing the potential for biological growth.
- Coating is formulated with an immobilized, EPA-registered, protective agent to protect the coating from potential growth of fungus and bacteria. Duct liner meets all requirements for fungi and bacterial resistance. Tests were conducted in accordance with ASTM C 1338 and ASTM G 21 (fungi testing) and ASTM G 22 (bacteria resistance testing). **Note:** As with any type of surface, microbial growth may occur in accumulated duct system dirt, given certain conditions. This risk is minimized with proper design, filtration, maintenance and operation of the HVAC system.
- The reinforced coating surface provides superior resistance to penetration of incidental water into the fiber glass wool core.
- GREENGUARD® certification is proof that the product meets the Environmental Institute's indoor air quality standards for VOCs.

Thermal performance

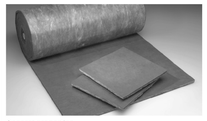
Thickness		R-value		Conductance	
in	mm	h•ft²•°F/Btu	m²•°C/W	Btu/(h•ft²•°F)	W/m²•°C
1/2	13	2.2	0.38	0.46	2.61

R-value and conductance are calculated from the material thermal conductivity tested in accordance with ASTM C 518 at 75 °F (24 °C) mean temperature

Sound absorption coefficients (type "A" mounting)

Thickness		Sound absorption coefficient at frequency (cycles per second) of						
in	mm	125	250	500	1000	2000	4000	NRC
1/2	13	0.07	0.20	0.44	0.66	0.84	0.93	0.55

Coefficients were tested in accordance with Test Method ASTM C 423-90 and ASTM E 795



General properties
- Operating temperature (max.): ASTM C 411 250 °F (121 °C)
- Air velocity (max.): ASTM C 1071 6,000 fpm (30.5 m/sec)
- Water repellency: INDA IST 80.6-92
- Fungi resistance: ASTM C 1338 Does not breed or promote
- Fungi resistance: ASTM G 21 No growth
- Bacteria resistance: ASTM G 22 No growth

Surface burning characteristics
- Meets the surface burning characteristics and limited combustibility of the following standards: standard/ test method
  - ASTM E 84
  - UL 723
  - NFPA 255
  - NFPA 90A and 90B, FHC 25/50 and limited combustibility
  - NFPA 259
  - CAN/ULC S102-M88
- Flame spread: not over 25
- Smoke developed: not over 50

Specification compliance
- ASTM C 1071, Type I
- ASTM G 21 and G 22
- ICC Compliant
- California Title 24
- ASHRAE 62-2001
- SMACNA Application Standards for Duct Liners
- NAIMA Fibrous Glass Duct Liner Installation Standard
- Canada: CGSB 51-GP-11M and CAN/CGSB 51.11

Warranty

Zehnder Rittling guarantees its products to be free from defects in material and workmanship for a period of one year from date of shipment from our factory.

Should there be any defects in the good(s), the purchaser should promptly notify Zehnder Rittling. Upon receipt of written consent from Zehnder Rittling, the purchaser shall return the defective good(s) to the factory for inspection with freight prepaid. If inspection shows the goods to be defective, Zehnder Rittling will at its discretion repair or replace the said item(s).

Defects arising from damage due to shipment, improper installation, negligence or misuse by others are not covered by this warranty.

This warranty is extended only to the original purchaser from Zehnder Rittling.

REV.	DATE	ITEM

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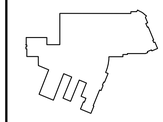

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

MECHANICAL
SCHEDULES & DETAILS

PROJECT

DWG TITLE

DRAWING BY: Z.M.Z.

CHECK BY: - - -

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

www.BBSARCHITECTURE.com

SED No.	66-14-02-02-0-002-021
DISTRICT	BRIARCLIFF MANOR U.F.S.D. DISTRICT NAME
PROJECT	PHASE 2 BOND IMPROVEMENTS AT TODD ES
DWG TITLE	MECHANICAL SCHEDULES & DETAILS
SCALE:	AS NOTED
DATE:	
BID PICK-UP:	NOVEMBER 14, 2022
FILE No:	21-247D

M6.01

PLUMBING FIXTURE SCHEDULE

LABEL	FIXTURE	SPECIFICATION	TRAP	VENT	COLD	HOT	TEMPERED
P-1	FLOOR MOUNTED WATER CLOSET - ADA	AMERICAN STANDARD MADERA FLO-WISE 16-1/2" HEIGHT WHITE VITREOUS CHINA WITH EVERCLEAN TOILET NO. 3461.660 FLOOR MOUNTED WITH TOP SPUD. THE TOP OF WATER CLOSET SEAT SHALL BE 17-1/2" ABOVE FINISHED FLOOR. PROVIDE AND INSTALL AMERICAN STANDARD BATTERY POWERED AND SENSOR OPERATED SELECTRONIC FLO-WISE FLUSHOMETER MODEL 6065.121.002 LOW CONSUMPTION (1.28 G.P.F.) AND ALL NECESSARY SUPPORTS AND CONNECTIONS. FURNISH WITH AMERICAN STANDARD ELONGATED HEAVY DUTY WHITE PLASTIC SEAT MODEL 5901 , OPEN FRONT WITH EVERCLEAN SURFACE	4"	2"	1-1/2"	--	--
P-2	WALL MOUNTED LAVATORY - ADA	AMERICAN STANDARD LUCERNE WHITE VITREOUS CHINA WALL HUNG LAVATORY MODEL 0355.012 WITH FRONT OVERFLOW, FAUCET LEDGE, "D" SHAPED BOWL, SELF-DRAINAGE DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS AND BRACKET SUPPORT. INSTALL WITH AMERICAN STANDARD INNSBROOK SELECTRONIC ELECTRONIC PROXIMITY LAVATORY FAUCET MODEL 6053.205 BATTERY POWERED FAUCET (0.5 GPM) WITH AMERICAN STANDARD MODEL 605XTM/1070 THERMOSTATIC MIXING VALVE, GRID STRAINER AND TRUEBRO MODEL 2018-AS-L LAV SHIELD ENCLOSURE AND ALL NECESSARY SUPPORTS AND CONNECTIONS. REFER TO ARCHITECTURAL DWGS. FOR FIXTURE MOUNTING HEIGHTS. P.C. TO FURNISH AND INSTALL McGuire MODEL # 8902C CAST BODY P-TRAP WITH CLEANOUT WITH 18 GAUGE SEAMLESS TUBULAR WALL BEND, CAST BRASS SLIP NUT. REDUCING WASHERS SHALL BE USED WITH REDUCING CAST BRASS NUT. WITH(SHALLOW,DEEP,BELL) (STEEL,BRASS), OR (FORGED BRASS WITH SET SCREW) FLANGE. FED SPEC W.W.P 541. CAT BRASS P-TRAP. MINIMUM SEAL 2". A.S.M.E A112.18.2/CSA B-125-2. P.C. TO FURNISH AND INSTALL McGuire MODELS# LFST07 ANGLE SUPPLY STOP COPPER SWEAT X O.D. CHROME PLATED BRASS, SUPPLY STOP VALVE WITH FULL TURN BRASS STEM. INLET SHALL (3/8,1/2) INCH (IPS,SWEAT,COMPRESSION). OUTLET SHALL BE(3/8,1/2)INCH(IPS,COMPRESSION). ASME A112.18.2 UPC LOW-LEAD. P.C. TO FURNISH AND INSTALL LAVATORY CARRIER(CONCEALED ARMS). REFER TO THE ARCHITECTURAL DRAWINGS FOR WALL THICKNESS. WALL CARRIER FOOTPRINT SHLL FIT WITHIN THE WALL. REGULARLY FURNISHED- SINGLE LAVATORY FIXTURE SUPPORT WITH PAINTED CAST IRON HEADER COUPLINGS, ROUND TUBULAR STEEL UPRIGHTS, CAST IRON CONCEALED ARMS, ZINC PLATED SUPPORT HARDWARE AND WELDED BASE FEET. ASME TYPE 2 CARRIER LOAD RATING=250LB. P.C. TO FURNISH AND INSTALL AMERICAN STANDARD MODEL#7723.018 OFF DRAIN WITH OVERFLOW. FOR WHEELCHAIR LAVATORY. POLISHED CHROME FINISH.	1-1/2"	1-1/2"	1/2"	1/2"	--
P-3	DECK PLATE CLEAN OUT	ZURN ZN1400-BZ1-VP CLEANOUT, 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)	--	--	--	--	--
P-4	DROP-IN CLASSROOM SINK AND BUBBLER	ELKAY MODEL DRKAD2217401 LUSTERTONE™ CLASSIC STAINLESS STEEL 22" X 17" X 4", SINGLE BOWL, 2-HOLE DROP-IN CLASSROOM ADA SINK. SINK IS MANUFACTURED FROM 18 GAUGE 304 STAINLESS STEEL WITH A LUSTROUS SATIN FINISH, CENTER DRAIN PLACEMENT, AND BOTTOM ONLY PADS. ELKAY MODEL LKSS1141A STAINLESS STEEL CLASSROOM BUBBLER. ELKAY MODEL LK3I-3-1/2" DRAIN FITTING TYPE 304 STAINLESS STEEL BODY STRAINER BASKET AND TAILPIECE. PC TO CAP ADDITIONAL HOLE IN SINK (ONLY BUBBLER HOLE IS NEEDED).	1-1/2"	1-1/2"	1/2"	--	--

LEGEND

	COLD WATER SUPPLY LINE
	HOT WATER SUPPLY LINE
	HOT WATER RETURN LINE
T	TEMPERED WATER LINE
V	VENT LINE
SW	SANITARY WASTE LINE
	BALANCING VALVE
	BALL VALVE
	UNION
CODP	CLEAN OUT DECK PLATE
WPCO	CLEANOUT IN WALL -
CO	CLEAN OUT
UP	PIPE RUNNING UP
DN	PIPE RUNNING DOWN
FD	FLOOR DRAIN
RD	ROOF DRAIN
	STRAINER
	SOLENOID CONTROLLED VALVE
	POINT OF DISCONNECTION/CONNECTION
	INTERIOR WALL HYDRANT SEE PLUMBING FIXTURE SCHEDULE
	CHECK VALVE
U.O.N.	UNLESS OTHERWISE NOTED
A.F.G.	ABOVE FINISHED GRADE

GENERAL PLUMBING NOTES:

1. ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE AND OF ALL AUTHORITIES HAVING JURISDICTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING RELATED FEES.
2. PROVIDE ALL REQUIRED OFFSETS, FITTINGS, VALVES, TRAPS, DRAINS ETC. EVEN THOUGH NOT INDICATED DUE TO SMALL SCALE OF DRAWINGS.
3. CHECK DRAWINGS OF OTHER TRADES AND ARRANGE WORK TO AVOID ANY CONFLICTS.
4. RUN PIPING IN WALL CHASE, RECESSES, PIPE SHAFTS AND HUNG CEILING WHERE PROVIDED. COORDINATE LOCATION WITH OTHER TRADES.
5. PROVIDE ACCESSIBLE CONTROL TO VALVES WHERE NOTED OR REQUIRED FOR COMPLETE WORK FOR STEMS, PLUMBING FIXTURES ACCESSIBLE.
6. USE INCREASER FITTINGS FOR CHANGES IN PIPE SIZE. USE NO BUSHINGS EXCEPT WITH SPECIAL PERMISSION BY ENGINEER.
7. PLUMBING CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT AND APPLIANCES REQUIRED FOR A COMPLETE PLUMBING AND DRAINAGE INSTALLATION AS SHOWN ON THE DRAWING, INCLUDING BUT NOT LIMITED TO THE FOLLOWING ITEMS:
   - 7.1. INSTALL ALL NEW PIPING CONNECTIONS TO PLUMBING FIXTURES AND FITTINGS ETC.
   - 7.2. PROVIDE AND INSTALL NEW HOT & COLD WATER CONNECTIONS TO ALL NEW PLUMBING FIXTURES AS SHOWN.
   - 7.3. ROUGH-IN AND FINAL CONNECTIONS TO ALL NEW PLUMBING FIXTURES.
   - 7.4. ALL NECESSARY HANGERS AND INCIDENTALS AS REQUIRED TO MAKE EACH SYSTEM COMPLETE.
   - 7.5. CONTRACTOR SHALL PROVIDE AND INSTALL 1" THICK FACED FIBERGLASS PIPE INSULATION ON ALL NEW HOT & COLD WATER PIPING.
   - 7.6. PERFORM ALL TEST AND ADJUSTMENT TO ALL SYSTEMS UNDER THIS CONTRACT AND DOCUMENT SAME TO PROVE PROPER OPERATION TO OWNER AND THE ENGINEER.
8. RUN VENT PIPING WITH LONG TURN ELBOWS AT CHANGES IN DIRECTION, GRADE TO DRAIN OUT OF CONDENSATION AND CONNECT AT BASE TO PREVENT ACCUMULATION OF RUST.
9. PROVIDE CLEAN OUTS (FULL SIZE UP TO 4" AND AT LEAST 4"~ HALF-SIZE FOR LARGER PIPE) WHERE INDICATED.
10. 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. VENT PIPING SHALL BE NO HUB CAST IRON.
11. PIPE INSULATION SHALL BE AS FOLLOWS:

FOR PIPING	1-1/2" and BELOW	1-1/2" and ABOVE
HOT & TEMPERED WATER	1"	1-1/2"
COLD WATER	1/2"	1"

12. ALL WORK SHALL BE PROPERLY TESTED AND CLEANED. PROVIDE ONE YEAR WARRANTY FROM DATE OF ENGINEER'S ACCEPTANCE ON ALL PARTS AND LABOR.
13. RUN ALL WATER AND WASTE LINES IN GENERAL LOCATIONS SHOWN BUT CONFORM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATIONS.
14. ALL WATER LINES IN EXTERIOR WALL SHOULD BE BETWEEN INSULATION AND INTERIOR OF WALL.
15. ALL CONCRETE FLOOR OR WALL CUTTING AND PATCHING BY PLUMBING CONTRACTOR.
16. WHERE DISSIMILAR METALS ARE CONNECTED, PROVIDE AN APPROVED MAKE OF NON-GALVANIC ISOLATOR, DIELECTRIC UNION OR FLANGES.
17. ALL VERTICAL ENCLOSURES AND CHASES FOR PIPING BY G.C. UNLESS OTHERWISE NOTED.
18. ALL PLUMBING PIPING PENETRATIONS THROUGH FIRE RATED WALL OR FLOOR ASSEMBLIES SHALL BE FIRE-STOPPED WITH "METACAULK 1000" FIRE RESISTANT CAULKING (3.4" DEPTH SIDES OF PENETRATION). SEE SPEC. SECTION 15050A, 2.15 & 3.12.

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 15A 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 "LEADFREE" 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, AND NYSED GUIDELINES OF LESS THAN 15PPB.
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.

CONTRACTOR ABBREVIATION LEGEND

G.C.	GENERAL CONSTRUCTION CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
A.C.	ASBESTOS ABATEMENT CONTRACTOR

EXISTING PLUMBING PIPING FIELD VERFITICATION NOTES:

1. PLUMBING CONTRACTOR (P.C.) 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 RECIRCULATION LINES
4. SANITARY WASTE LINES
5. VENT LINES

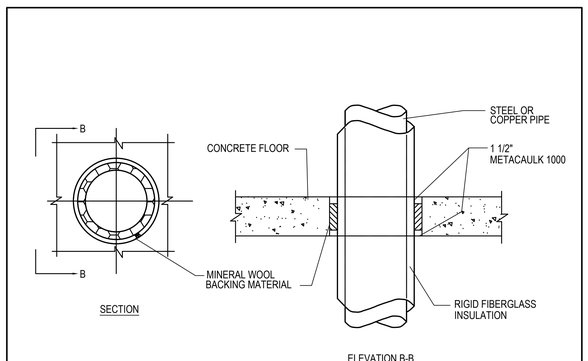
PLUMBING DEMOLITION NOTES:

FOR PLUMBING FIXTURES TO BE REMOVED AND NOT REPLACED IN ORIGINAL LOCATION - P.C. TO REMOVE EXISTING PLUMBING ROUGH-INS, PIPING ETC. BACK TO POINT OF CONCEALMENT WITHIN OR BEHIND WALLS, BELOW FLOORS OR ABOVE CEILING TO MAIN BRANCHES, STACKS OR RISER AS REQUIRED TO ELIMINATE DEAD-END PIPING RUNS LONGER THAN 1'-0".

FOR PLUMBING FIXTURES TO BE REMOVED AND REPLACED WITH NEW OF SIMILAR TYPE, THE P.C. SHALL DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE AND MAINTAIN OR MODIFY EXISTING PLUMBINGS ROUGH-INS, PIPING ETC. AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW PUMBING FIXTURE.

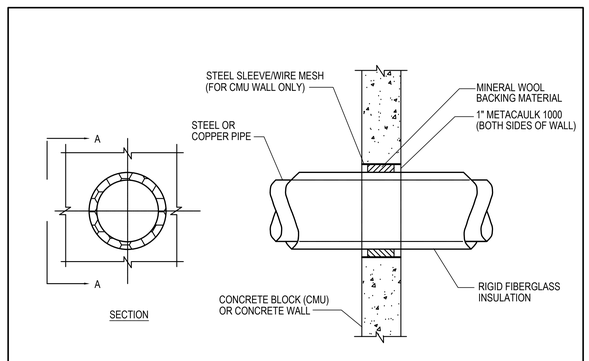
NOTE - SINGLE PRIME CONTRACT:

1. UNDER BASE BID - GC-2 , ALL GENERAL CONSTRUCTION, MECHANICAL CONSTRUCTION, PLUMBING CONSTRUCTION, AND ELECTRICAL CONSTRUCTION WORK SCOPE SHOWN SHALL BE PROVIDED AND INSTALLED BY THE SINGLE PRIME CONTRACTOR. REFER TO SPECIFICATIONS (INSTRUCTIONS TO BIDDERS and BID PROPOSAL FORM) FOR ADDITIONAL INFORMATION REGARDING SINGLE PRIME CONTRACT.



1 PIPING FLOOR PENETRATION

SCALE: N.T.S.



2 PIPING WALL PENETRATION

SCALE: N.T.S.

REV.	DATE	ITEM

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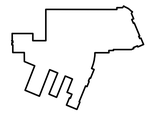

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

PROJECT

PLUMBING
GENERAL NOTES, LEGENDS, AND SCHEDULES

DWG TITLE

DRAWING BY: Z.M.Z.

CHECK BY:

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

www.BBSARCHITECTURE.com

SED No. 66-14-02-02-0-002-021

DISTRICT BRIARCLIFF MANOR U.F.S.D. DISTRICT NAME

PROJECT PHASE 2 BOND IMPROVEMENTS AT TODD ES

DWG TITLE GENERAL NOTES, LEGENDS AND SCHEDULES

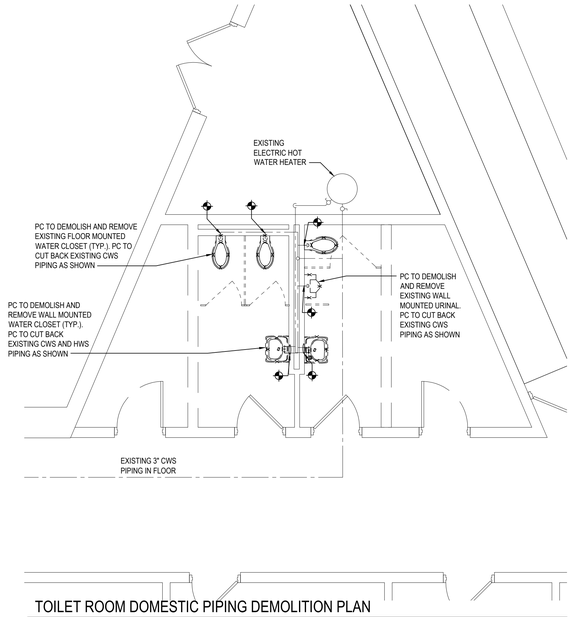
SCALE: AS NOTED

DATE:

BID PICK-UP: NOVEMBER 14, 2022

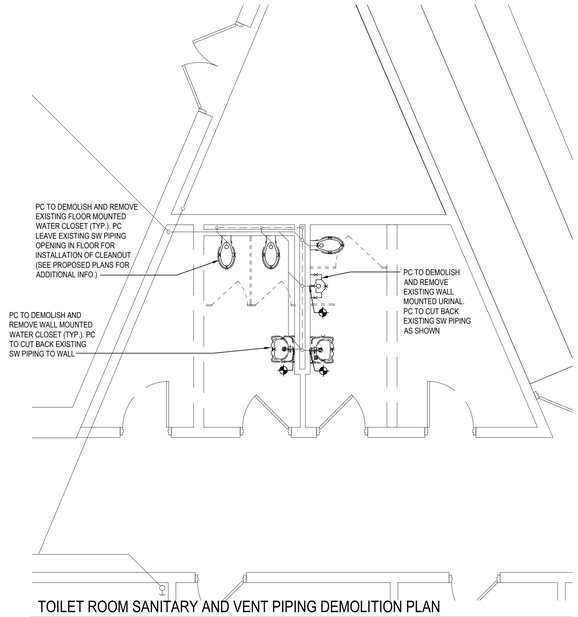
FILE No: 21-247D

P0.01 | HSMS



TOILET ROOM DOMESTIC PIPING DEMOLITION PLAN

NOTE: AT TODD ELEMENTARY SCHOOL — SCALE: 1/4" = 1'-0"



TOILET ROOM SANITARY AND VENT PIPING DEMOLITION PLAN

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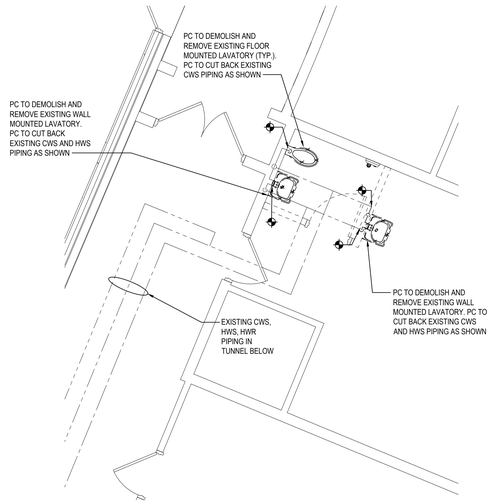

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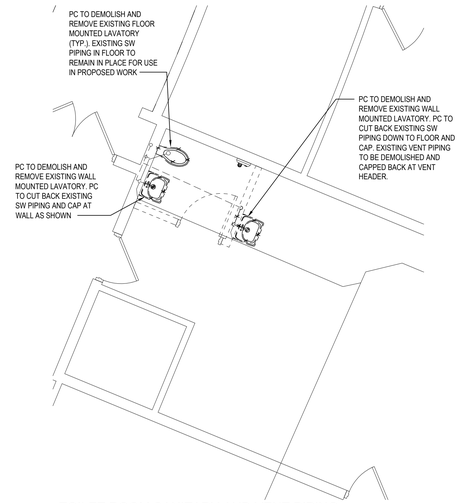

TOILET ROOM SANITARY AND VENT PIPING DEMOLITION PLAN

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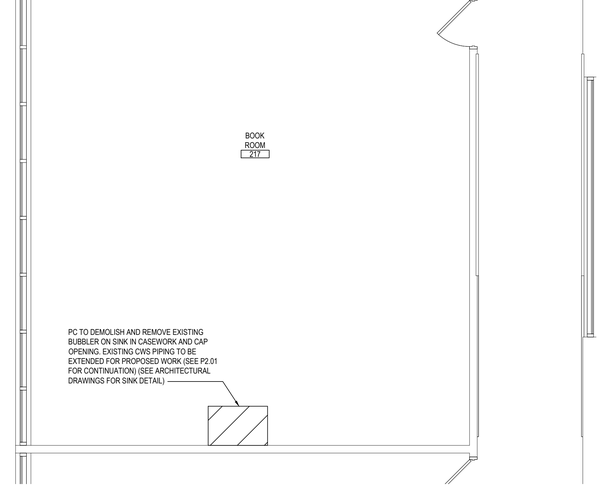

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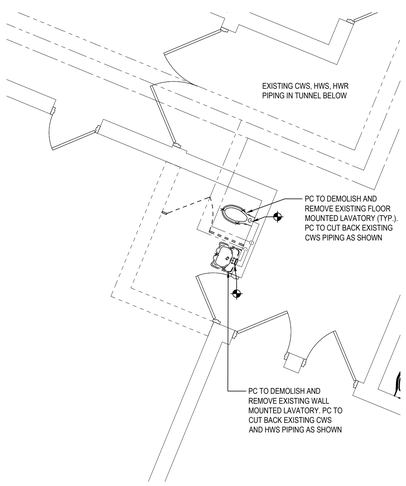

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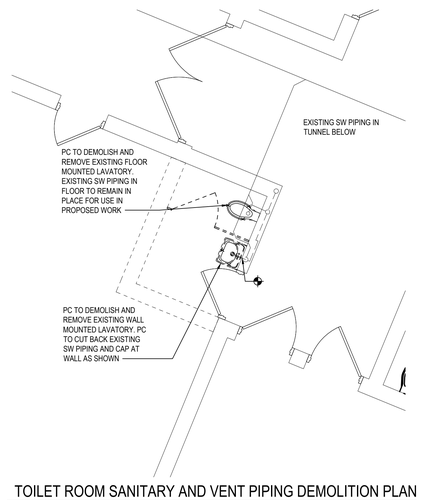

TOILET ROOM SANITARY AND VENT PIPING DEMOLITION PLAN

NOTE: AT TODD ELEMENTARY SCHOOL — SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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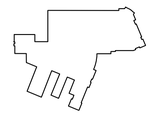

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

PLUMBING
DEMOLITION PLANS

PROJECT

DWG TITLE

DRAWING BY: Z.M.Z.

CHECK BY: - - -

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ALBANY
NEW YORK 12205
T. 518.621.7650
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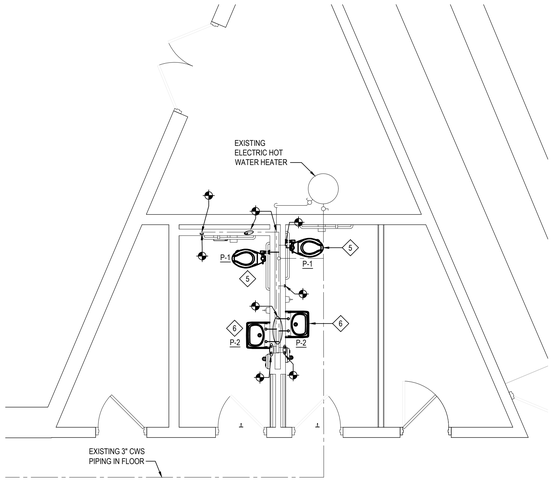
SED No.	66-14-02-02-0-002-021
DISTRICT	BRIARCLIFF MANOR U.F.S.D. DISTRICT NAME
PROJECT	PHASE 2 BOND IMPROVEMENTS AT TODD ES
DWG TITLE	PLUMBING DEMOLITION PLANS
SCALE:	AS NOTED
DATE:	JULY 15, 2022
BID PICK-UP:	
FILE No:	21-247D

P1.01



TOILET ROOM DOMESTIC PIPING PROPOSED PLAN

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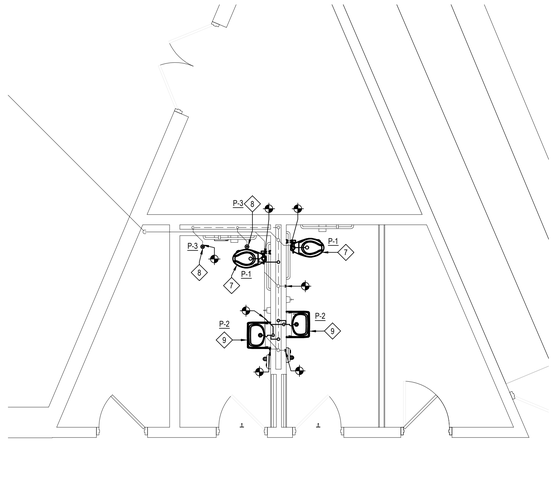

TOILET ROOM SANITARY AND VENT PIPING PROPOSED PLAN

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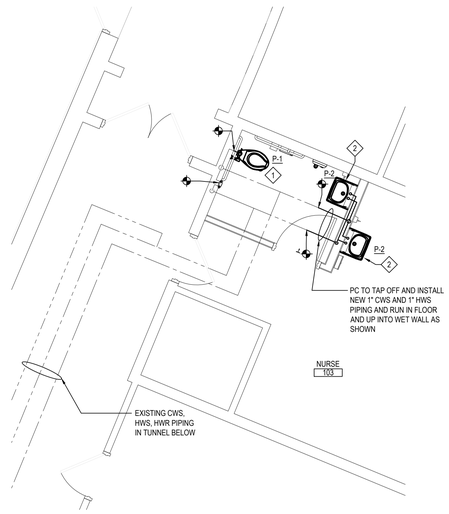

TOILET ROOM DOMESTIC PIPING PROPOSED PLAN

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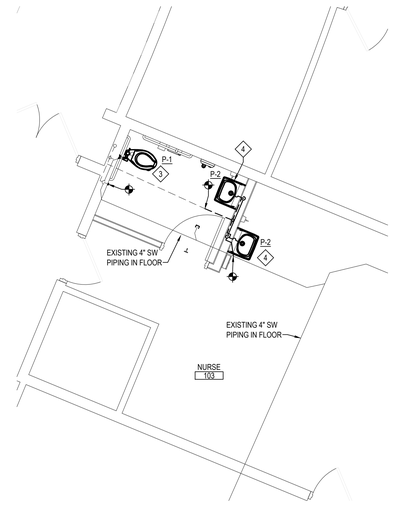
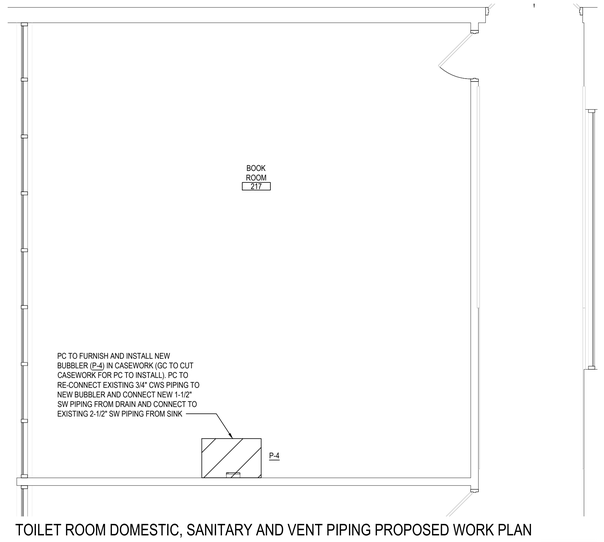


TOILET ROOM SANITARY AND VENT PIPING PROPOSED PLAN

NOTE: AT TODD ELEMENTARY SCHOOL — SCALE: 1/4" = 1'-0"

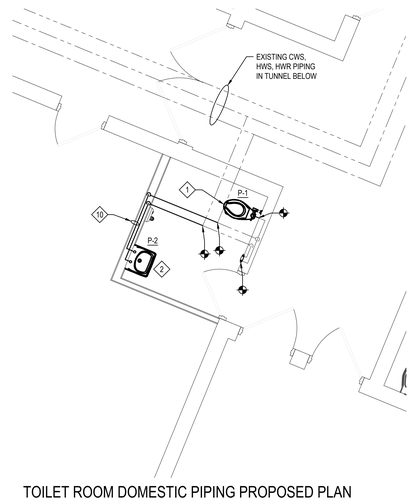
DOMESTIC PIPING DEMOLITION KEY NOTES

1. PC TO FURNISH AND INSTALL NEW FLOOR MOUNTED WATER CLOSET (P-1) AS SHOWN. PC TO RECONNECT TO EXISTING 1-1/2" CWS AND INSTALL NEW FLUSHOMETER TO NEW FIXTURE.
2. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) ON WALL AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO CONNECT NEW 1" CWS AND 1" HWS PIPING TO FIXTURE AS SHOWN.
3. PC TO FURNISH AND INSTALL NEW FLOOR MOUNTED WATER CLOSET (P-1) AS SHOWN. PC TO RECONNECT TO EXISTING 4" SW PIPING IN FLOOR.
4. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) ON WALL AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO CONNECT NEW 2-1/2" SW PIPING AND 2" VENT PIPING IN WET WALL AS SHOWN.
5. PC TO FURNISH AND INSTALL NEW FLOOR MOUNTED WATER CLOSET (P-1) AS SHOWN. PC TO TAP OFF NEW 1-1/2" CWS PIPING OFF OF EXISTING 1-1/2" CWS PIPING AND CONNECT TO NEW FIXTURE AND FLUSHOMETER.
6. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) ON WALL AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO TAP OFF OF EXISTING CWS AND HWS PIPING IN WET WALL AND RUN NEW 1" CWS AND HWS PIPING TO FIXTURE AS SHOWN.
7. PC TO FURNISH AND INSTALL NEW FLOOR MOUNTED WATER CLOSET (P-1) AS SHOWN. PC INSTALL NEW 4" SW PIPING IN FLOOR WITH GC TO SAWCUT AND CONNECT TO EXISTING 4" SW IN FLOOR. PC TO CONNECT NEW FIXTURE TO NEW PIPING. PC TO RUN NEW 2" VENT PIPING INTO WALL AND CONNECT TO EXISTING 2" VENT IN WET WALL.
8. PC TO FURNISH AND INSTALL NEW 4" DECK PLATE CLEAN OUT (P-3) IN EXISTING 4" SW PIPING OPENING IN FLOOR.
9. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) ON WALL AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO RUN NEW 2-1/2" SW PIPING INTO WET WALL AND DOWN INTO FLOOR EXISTING 4" SW PIPING IN WALL. PC TO ALSO CONNECT NEW 2" VENT TO EXISTING 2" VENT IN WET WALL.
10. PC TO TAP OFF OF EXISTING CWS AND HWS PIPING IN FLOOR AND RUN NEW 1" CWS AND HWS PIPING IN FLOOR AND RUN TO WALL THEN TO FIXTURE AS SHOWN.
11. PC TO FURNISH AND INSTALL NEW WALL MOUNTED LAVATORY (P-2) ON WALL AS SHOWN. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PC TO CONNECT NEW 2-1/2" SW PIPING AND 2" VENT PIPING IN WET WALL AND RUN INTO FLOOR (TRANSITION IN FLOOR TO 4" SW PIPING) AND CONNECT TO EXISTING SW PIPING AS SHOWN (GC TO SAW CUT FLOOR AS NEEDED WITH PC PRESENT). RUN NEW 2" VENT IN CEILING AND CONNECT TO EXISTING AS SHOWN.



TOILET ROOM DOMESTIC, SANITARY AND VENT PIPING PROPOSED WORK PLAN

NOTE: AT TODD ELEMENTARY SCHOOL — SCALE: 1/4" = 1'-0"



TOILET ROOM DOMESTIC PIPING PROPOSED PLAN

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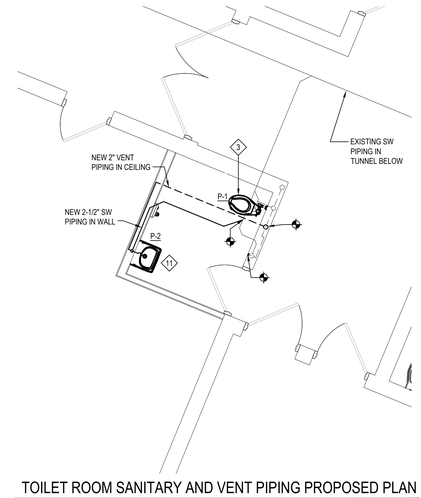

TOILET ROOM SANITARY AND VENT PIPING PROPOSED PLAN

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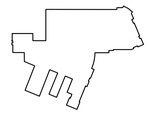

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BRIARCLIFF MANOR U.F.S.D.
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45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

PROJECT

PLUMBING
PROPOSED PLANS

DWG TITLE

DRAWING BY: Z.M.Z.

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SED No. 66-14-02-02-0-002-021

DISTRICT BRIARCLIFF MANOR U.F.S.D.
DISTRICT NAME

PROJECT PHASE 2 BOND IMPROVEMENTS
AT TODD ES

DWG TITLE PLUMBING
PROPOSED PLANS

SCALE: AS NOTED

DATE: JULY 15, 2022

BID PICK-UP:

FILE No: 21-247D

P2.01

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, STORE ROOMS, 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 100A, 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.
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.

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 THEREFOR 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 SPECIALSPECIFIC 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 MANOR 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. 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.
12. EC IS RESPONSIBLE TO RESTORE AND COMPLETE SURFACES CAUSED BY THE REMOVAL OF DEVICES, CONDUITS, ETC. ALL FINISHES TO MATCH ADJACENT AREAS.

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-6015 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.

TEMPORARY POWER CONSTRUCTION NOTES

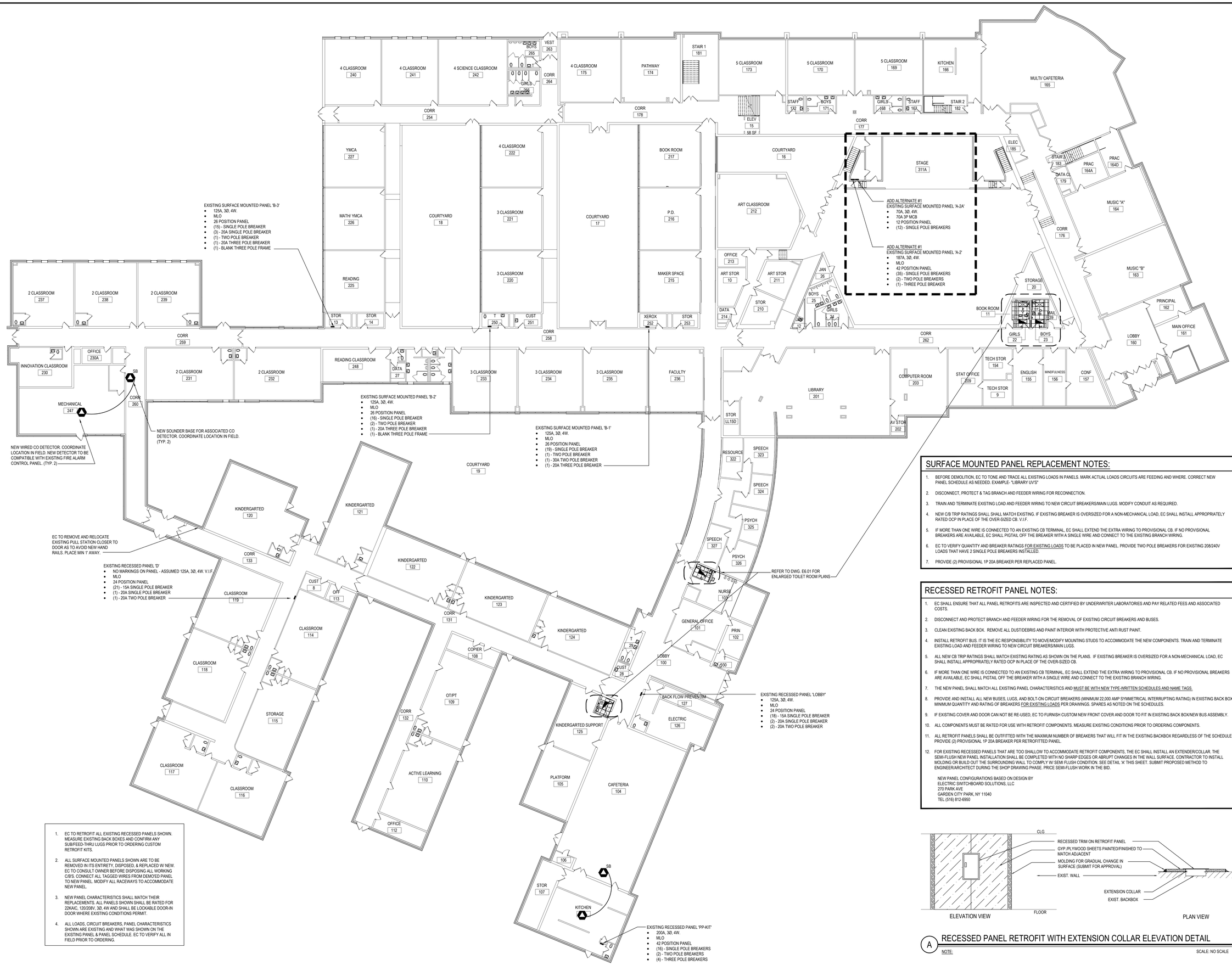
1. THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE CONSTRUCTION AREAS OF THE PROJECT.
2. ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN 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 DIVISION 16 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 DIVISION 16 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 DIVISION 16 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. DIVISION 16 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 DIVISION 16 CONTRACTOR WHEN THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNERS PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR FINAL PAYMENT.
12. PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT. THE OWNER IS TO PAY FOR POWER CONSUMPTION UNLESS OTHERWISE NOTED.

ABBREVIATIONS

A = AMPS	G, GND = GROUND	PVC = POLYVINYL CHLORIDE
AC = ALTERNATING CURRENT	HD = HAND DRYER	REC = RECEPTACLE
ACT = ABOVE COUNTER TOP	IG = ISOLATED GROUND	REQ'D = REQUIRED
AFF = ABOVE FINISHED FLOOR	IN = INCH	RL = RELOCATED
AFG = ABOVE FINISHED GRADE	KW = KILLOWATT	R,R = REMOVE AND RELOCATE
BC = BELOW CEILING	LFMC = LIQUID TIGHT FLEXIBLE METAL CONDUIT	SCH = SCHEDULE
C = CONDUIT	MAX = MAXIMUM	SM = SURFACE MOUNTED
C/B = CIRCUIT BREAKER	MC = MECHANICAL CONTRACTOR	SPD = SURGE PROTECTION DEVICE
CC = CASEWORK CONTRACTOR	MCB = MAIN CIRCUIT BREAKER	SQ = SQUARE
CKT = CIRCUIT	MDB = MAIN DISTRIBUTION BOARD	SWBD = SWITCHBOARD
CM = CEILING MOUNTED	MDP = MAIN DISTRIBUTION PANEL	SWG = STEEL WIRE GUARD
DC = DIRECT CURRENT	MH = MANHOLE	TSP = TWISTED SHIELDED PAIR
DH = DOOR HOLDER	MIN = MINIMUM	TVSS = TRANSIENT VOLTAGE SURGE SUPPRESSION
DISC = DISCONNECT	MLO = MAIN LUGS ONLY	TYP. = TYPICAL
EC = ELECTRICAL CONTRACTOR	MTD = MOUNTED	UG = UNDERGROUND
EM = EMERGENCY	MTH = MOUNTING HEIGHT	UTP = UNSHIELDED TWISTED PAIR
EMT = ELECTRICAL METALLIC TUBING	N = NEUTRAL	UWS = UNTWISTED
ETR = EXISTING TO REMAIN	NEC = NATIONAL ELECTRICAL CODE	V = VOLTAGE
(E), EX, EXIST = EXISTING	NEMA = NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	VFD= VARIABLE FREQUENCY DEVICE
FA = FIRE ALARM	NIC. = NOT IN CONTRACT	VIF = VERIFY IN FIELD
FM = FLUSH MOUNT	NL = NIGHT LIGHT	W = WATTAGE
FMC = FLEXIBLE METAL CONDUIT	NTS = NOT TO SCALE	WG = WIRE GUARD
FT = FEET	PA = PUBLIC ADDRESS	WM = WALL MOUNTED
GC = GENERAL CONTACTOR	PC = PLUMBING CONTRACTOR	WP = WEATHER PROOF
GFCI, GFI = GROUND FAULT CIRCUIT INTERRUPTER	PV = PHOTOVOLTAIC	XFMR = TRANSFORMER

FA SYMBOL LEGEND (SYMBOLS WITH INTERSECTING LINES ARE SCHEDULED FOR DEMOLITION)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
F



1. EC TO RETROFIT ALL EXISTING RECESSED PANELS SHOWN. MEASURE EXISTING BACK BOXES AND CONFIRM ANY SUB/FEED-THRU LUGS PRIOR TO ORDERING CUSTOM RETROFIT KITS.
2. ALL SURFACE MOUNTED PANELS SHOWN ARE TO BE REMOVED IN ITS ENTIRETY, DISPOSED, & REPLACED W/ NEW. EC TO CONSULT OWNER BEFORE DISPOSING ALL WORKING C/B'S. CONNECT ALL TAGGED WIRES FROM DEMO'ED PANEL TO NEW PANEL. MODIFY ALL RACEWAYS TO ACCOMMODATE NEW PANEL.
3. NEW PANEL CHARACTERISTICS SHALL MATCH THEIR REPLACEMENTS. ALL PANELS SHOWN SHALL BE RATED FOR 22KAIC, 120/208V, 3Ø, 4W AND SHALL BE LOCKABLE DOOR-IN DOOR WHERE EXISTING CONDITIONS PERMIT.
4. ALL LOADS, CIRCUIT BREAKERS, PANEL CHARACTERISTICS SHOWN ARE EXISTING AND WHAT WAS SHOWN ON THE EXISTING PANEL & PANEL SCHEDULE. EC TO VERIFY ALL IN FIELD PRIOR TO ORDERING.

SURFACE MOUNTED PANEL REPLACEMENT NOTES:

1. BEFORE DEMOLITION, EC TO TONE AND TRACE ALL EXISTING LOADS IN PANELS. MARK ACTUAL LOADS CIRCUITS ARE FEEDING AND WHERE. CORRECT NEW PANEL SCHEDULE AS NEEDED. EXAMPLE- "LIBRARY UV'S"
2. DISCONNECT, PROTECT & TAG BRANCH AND FEEDER WIRING FOR RECONNECTION.
3. TRAIN AND TERMINATE EXISTING LOAD AND FEEDER WIRING TO NEW CIRCUIT BREAKERS/MAIN LUGS. MODIFY CONDUIT AS REQUIRED.
4. NEW C/B TRIP RATINGS SHALL SHALL MATCH EXISTING. IF EXISTING BREAKER IS OVERSIZED FOR A NON-MECHANICAL LOAD, EC SHALL INSTALL APPROPRIATELY RATED OCP IN PLACE OF THE OVER-SIZED CB. V.I.F.
5. IF MORE THAN ONE WIRE IS CONNECTED TO AN EXISTING CB TERMINAL, EC SHALL EXTEND THE EXTRA WIRING TO PROVISIONAL CB. IF NO PROVISIONAL BREAKERS ARE AVAILABLE, EC SHALL PIGTAIL OFF THE BREAKER WITH A SINGLE WIRE AND CONNECT TO THE EXISTING BRANCH WIRING.
6. EC TO VERIFY QUANTITY AND BREAKER RATINGS FOR EXISTING LOADS TO BE PLACED IN NEW PANEL. PROVIDE TWO POLE BREAKERS FOR EXISTING 208/240V LOADS THAT HAVE 2 SINGLE POLE BREAKERS INSTALLED.
7. PROVIDE (2) PROVISIONAL 1P 20A BREAKER PER REPLACED PANEL.

RECESSED RETROFIT PANEL NOTES:

1. EC SHALL ENSURE THAT ALL PANEL RETROFITS ARE INSPECTED AND CERTIFIED BY UNDERWRITER LABORATORIES AND PAY RELATED FEES AND ASSOCIATED COSTS.
2. DISCONNECT AND PROTECT BRANCH AND FEEDER WIRING FOR THE REMOVAL OF EXISTING CIRCUIT BREAKERS AND BUSES.
3. CLEAN EXISTING BACK BOX. REMOVE ALL DUST/DEBRIS AND PAINT INTERIOR WITH PROTECTIVE ANTI RUST PAINT.
4. INSTALL RETROFIT BUS. IT IS THE EC RESPONSIBILITY TO MOVE/MODIFY MOUNTING STUDS TO ACCOMMODATE THE NEW COMPONENTS. TRAIN AND TERMINATE EXISTING LOAD AND FEEDER WIRING TO NEW CIRCUIT BREAKERS/MAIN LUGS.
5. ALL NEW CB TRIP RATINGS SHALL MATCH EXISTING RATING AS SHOWN ON THE PLANS. IF EXISTING BREAKER IS OVERSIZED FOR A NON-MECHANICAL LOAD, EC SHALL INSTALL APPROPRIATELY RATED OCP IN PLACE OF THE OVER-SIZED CB.
6. IF MORE THAN ONE WIRE IS CONNECTED TO AN EXISTING CB TERMINAL, EC SHALL EXTEND THE EXTRA WIRING TO PROVISIONAL CB. IF NO PROVISIONAL BREAKERS ARE AVAILABLE, EC SHALL PIGTAIL OFF THE BREAKER WITH A SINGLE WIRE AND CONNECT TO THE EXISTING BRANCH WIRING.
7. THE NEW PANEL SHALL MATCH ALL EXISTING PANEL CHARACTERISTICS AND MUST BE WITH NEW TYPE-WRITTEN SCHEDULES AND NAME TAGS.
8. PROVIDE AND INSTALL ALL NEW BUSES, LUGS, AND BOLT-ON CIRCUIT BREAKERS (MINIMUM 22,000 AMP SYMMETRICAL INTERRUPTING RATING) IN EXISTING BACK BOX. MINIMUM QUANTITY AND RATING OF BREAKERS FOR EXISTING LOADS PER DRAWINGS. SPARES AS NOTED ON THE SCHEDULES.
9. IF EXISTING COVER AND DOOR CAN NOT BE RE-USED, EC TO FURNISH CUSTOM NEW FRONT COVER AND DOOR TO FIT IN EXISTING BACK BOX/NEW BUS ASSEMBLY.
10. ALL COMPONENTS MUST BE RATED FOR USE WITH RETROFIT COMPONENTS. MEASURE EXISTING CONDITIONS PRIOR TO ORDERING COMPONENTS.
11. ALL RETROFIT PANELS SHALL BE OUTFITTED WITH THE MAXIMUM NUMBER OF BREAKERS THAT WILL FIT IN THE EXISTING BACKBOX REGARDLESS OF THE SCHEDULE. PROVIDE (2) PROVISIONAL 1P 20A BREAKER PER RETROFITTED PANEL.
12. FOR EXISTING RECESSED PANELS THAT ARE TOO SHALLOW TO ACCOMMODATE RETROFIT COMPONENTS, THE EC SHALL INSTALL AN EXTENDER/COLLAR. THE SEMI-FLUSH NEW PANEL INSTALLATION SHALL BE COMPLETED WITH NO SHARP EDGES OR ABRUPT CHANGES IN THE WALL SURFACE. CONTRACTOR TO INSTALL MOLDING OR BUILD OUT THE SURROUNDING WALL TO COMPLY W/ SEMI FLUSH CONDITION. SEE DETAIL 'A' THIS SHEET. SUBMIT PROPOSED METHOD TO ENGINEER/ARCHITECT DURING THE SHOP DRAWING PHASE. PRICE SEMI-FLUSH WORK IN THE BID.

NEW PANEL CONFIGURATIONS BASED ON DESIGN BY
ELECTRIC SWITCHBOARD SOLUTIONS, LLC
270 PARK AVE
GARDEN CITY PARK, NY 11040
TEL (516) 812-6950

A RECESSED PANEL RETROFIT WITH EXTENSION COLLAR ELEVATION DETAIL

NOTE: SCALE: NO SCALE

REV.	DATE	ITEM

NOTICE

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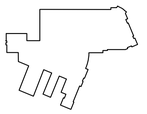

KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

PROJECT

DWG TITLE

PROPOSED PANEL REPLACEMENT, CO DETECTION, AND MISCELLANEOUS PLANS

DRAWING BY:	A.G.
CHECK BY:	F.S.

NOTICE

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

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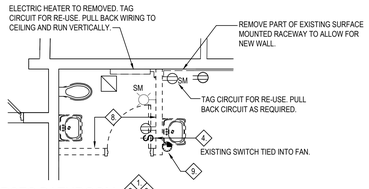
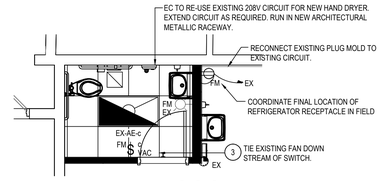
DISTRICT	BRIARCLIFF MANOR U.F.S.D. DISTRICT NAME
PROJECT	PHASE 2 BOND IMPROVEMENTS AT TODD ES
DWG TITLE	ELECTRICAL PROPOSED PLANS
SCALE:	AS NOTED
DATE:	
BID PICK-UP:	NOVEMBER 14, 2022
FILE No:	21-247D

E4.01



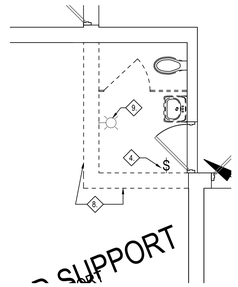
DEMO PLAN @ NURSES BATHROOM (2 3 6)

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



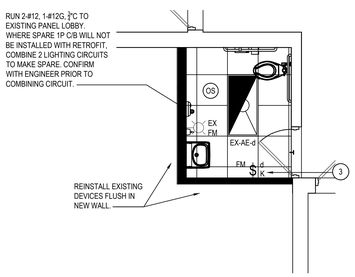
PROPOSED PLAN @ NURSES BATHROOM (1 2 4)

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



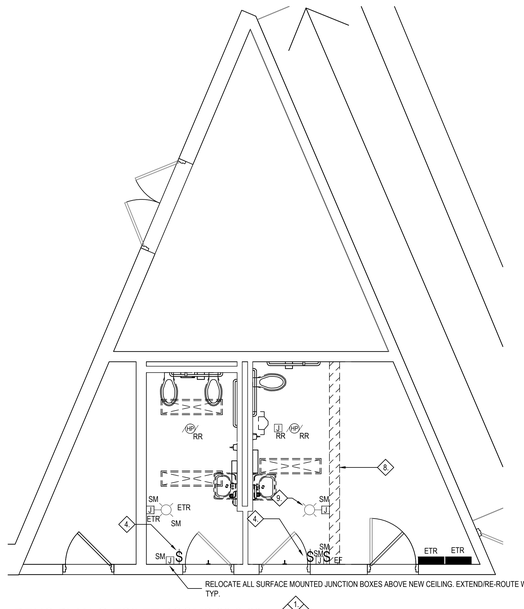
DEMO PLAN @ TOILET ROOM NEAR ROOM 125 (2 3 6)

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



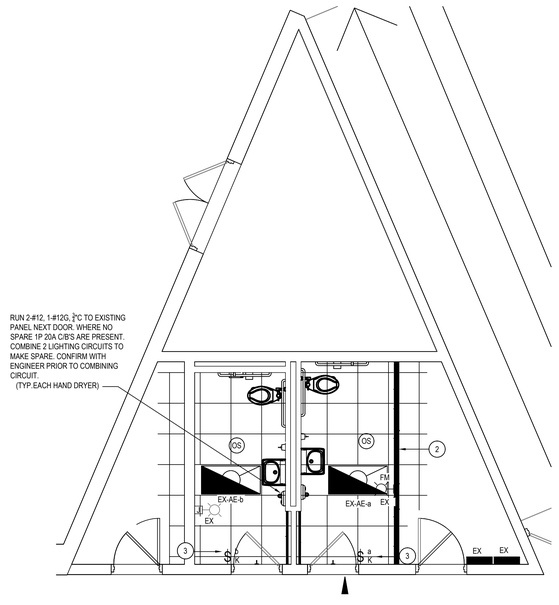
PROPOSED PLAN @ TOILET ROOM NEAR ROOM 125 (1 2 4)

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



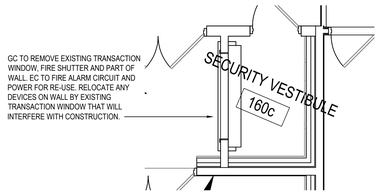
DEMO PLAN @ TOILET ROOMS 22 & 23 (2 3 6)

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



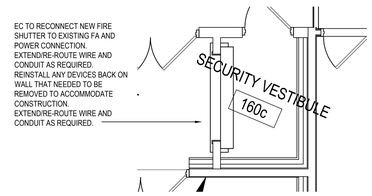
PROPOSED PLAN @ TOILET ROOMS 22 & 23 (1 2 4)

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



SECURITY VESTIBULE TRANSACTION WINDOW DEMOLITION PLAN

NOTE: SEE A-SERIES DRAWINGS FOR MORE INFORMATION. SCALE: 1/4" = 1'-0"



SECURITY VESTIBULE TRANSACTION WINDOW PROPOSED PLAN

NOTE: SEE A-SERIES DRAWINGS FOR MORE INFORMATION. SCALE: 1/4" = 1'-0"

DEMOLITION KEYED NOTES

1. IN AREAS WHERE NEW LIGHTING IS BEING INSTALLED, EC SHALL SAFE OFF, AND DISCONNECT EXISTING LIGHTING FIXTURES. TRACE AND TAG EXISTING HOMERUN FOR RE-USE.
2. WHERE NEW CEILINGS ARE BEING INSTALLED, EC SHALL SAFE OFF, DISCONNECT & REMOVE/SUPPORT AS NEEDED ALL EXISTING CEILING AND WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO FA, PA, WAPS, SECURITY, PROJECTORS, ETC. EC TO REINSTALL AND RECONNECT ALL EXISTING DEVICES ONCE NEW CEILING IS INSTALLED. EXTEND/REDUCE WIRING FOR ALL DEVICES AS REQUIRED FOR CEILINGS THAT ARE DROPPED FURTHER DOWN THEN EXISTING HEIGHT. ANY ELECTRICAL ITEMS ON WALLS OR CEILINGS AFFECTED BY THE SCOPE OF WORK THAT ARE NOT FUNCTIONAL EITHER FROM PREVIOUS GENERATION OF CONSTRUCTION OR NON FUNCTIONAL, EC TO REMOVE BACK TO SOURCE AND PERMANENTLY SAFE OFF. WHERE APPLICABLE LABEL CIRCUIT AS SPARE.
3. EC TO REMOVE ALL OBSOLETE DEVICES ASSOCIATED WITH THE OLD LIGHTING CONTROLS.
4. EC TO REMOVE EXISTING LIGHT SWITCHES THAT ARE ASSOCIATED WITH LIGHTS TO BE REMOVED. RETAIN BACK BOX WHERE WALL REMAINS. PROVIDE BLANK PLATE IF POSITION WILL NOT BE RE-USED.
5. EC TO INVESTIGATE ELECTRICAL ITEM IN FIELD. WHERE NO LONGER ACTIVE/OBSOLETE, EC TO REMOVE BACK TO SOURCE AND PERMANENTLY SAFE OFF. WHERE APPLICABLE LABEL CIRCUIT AS SPARE. WHERE ACTIVE EC TO RELOCATE AND EXTEND CIRCUIT AS REQUIRED TO ACCOMMODATE NEW CEILING AND WALLS.
6. EC SHALL FURNISH & INSTALL J-HOOKS OR SIMILAR TO SUPPORT ANY LOSE CABLES, OF ANY VOLTAGE, ONCE EXISTING CEILING IS REMOVED. SUPPORT DISTANCE PER CODE AND MANUFACTURES INSTRUCTIONS.
7. EC SHALL LABEL ALL DISTRIBUTION DIRECTORIES/SCHEDULES AS 'SPARE' FOR REMOVED/ABANDONED CKTS.
8. WHERE EXISTING WALLS ARE BEING REMOVED, EC SHALL REMOVE AS NEEDED ALL EXISTING ELECTRICAL ITEMS IN & ON WALL INCLUDING BUT NOT LIMITED TO BACK BOXES, RECEPTACLES, CONDUITS, RACEWAYS, PLUG MOLDS, FA, PA, WAPS, SECURITY, PROJECTORS, ETC. SAFE OFF, DISCONNECT, AND PULL BACK CKT. FOR RE-USE. WHERE EXISTING CKT ORIGINATES WITHIN THE SLAB, EC MUST EXTEND CKT TO THE CLOSEST NEW WALL. CUT/ CHOP FLOOR AS REQUIRED. MAINTAIN CONTINUITY OF CIRCUITS OUTSIDE THE DEMOLITION SCOPE OF WORK.
9. REMOVE EXISTING SURFACE MOUNTED DEVICE AND REINSTALL IN NEW WALL. SAFE OFF AND BULL BACK CIRCUIT AS REQUIRED.

PROPOSED KEYED NOTES

1. EC TO REINSTALL AND RECONNECT ALL EXISTING DEVICES ONCE NEW CEILING IS INSTALLED. EXTEND/REDUCE WIRING FOR ALL DEVICES AS REQUIRED FOR CEILINGS THAT ARE DROPPED FURTHER DOWN THEN EXISTING HEIGHT. ANY ELECTRICAL ITEMS ON WALLS OR CEILINGS AFFECTED BY THE SCOPE OF WORK THAT ARE NOT FUNCTIONAL EITHER FROM PREVIOUS GENERATION OF CONSTRUCTION OR NON FUNCTIONAL, EC TO REMOVE BACK TO SOURCE AND PERMANENTLY SAFE OFF. WHERE APPLICABLE LABEL CIRCUIT AS SPARE.
2. EC TO REINSTALL AND RECONNECT ALL EXISTING DEVICES ONCE NEW WALL IS INSTALLED. EXTEND/REDUCE WIRING AND FURNISH CONDUITS AND BACK BOXES BEHIND NEW WALL FOR ALL DEVICES AS REQUIRED. ANY ELECTRICAL ITEMS ON WALLS OR CEILINGS AFFECTED BY THE SCOPE OF WORK THAT ARE NOT FUNCTIONAL EITHER FROM PREVIOUS GENERATION OF CONSTRUCTION OR NON FUNCTIONAL, EC TO REMOVE BACK TO SOURCE AND PERMANENTLY SAFE OFF. WHERE APPLICABLE LABEL CIRCUIT AS SPARE.
3. EC TO FURNISH NEW FACE PLATE AND SWITCHES FOR AREAS WITH NEW LIGHT FIXTURES. WHERE LESS SWITCHES ARE BEING INSTALLED IN AN EXISTING BACK BOX, EC TO FURNISH AND INSTALL A BLANK PLATE TO COVER SPARE SLOTS.
4. EC SHALL FURNISH & INSTALL J-HOOKS OR SIMILAR TO SUPPORT ANY LOSE CABLES, OF ANY VOLTAGE, ONCE EXISTING CEILING IS REMOVED. SUPPORT DISTANCE PER CODE AND MANUFACTURES INSTRUCTIONS.

REV.	DATE	ITEM

NOTICE

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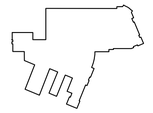

KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVMENTS
TODD ELEMENTARY SCHOOL
45 INGHAM ROAD, BRIARCLIFF MANOR, NY 10510

DWG TITLE

ENLARGED TOILET ROOM PLANS

DRAWING BY: A.G.

CHECK BY: F.S.

NOTICE

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BBS
ARCHITECTS
LANDSCAPE ARCHITECTS
ENGINEERS

244 EAST MAIN STREET
PATCHOGUE
NEW YORK 11772
T. 631.475.0349
F. 631.475.0361

187 WOLF ROAD, STE. 205
ALBANY
NEW YORK 12205
T. 518.621.7650
F. 518.621.7655

www.BBSARCHITECTURE.com

SED No.	66-14-02-02-0-002-021
DISTRICT	BRIARCLIFF MANOR U.F.S.D. DISTRICT NAME
PROJECT	PHASE 2 BOND IMPROVEMENTS AT TODD ES
DWG TITLE	ELECTRICAL ENLARGED TOILET ROOM PLANS
SCALE:	AS NOTED
DATE:	
BID PICK-UP:	NOVEMBER 14, 2022
FILE No:	21-247D

E6.01