

BRIARCLIFF MANOR U.F.S.D.

DISTRICT ADMINISTRATION OFFICES

444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

PHASE 1 BOND IMPROVEMENTS

AT

BRIARCLIFF MANOR MIDDLE/ HIGH SCHOOL

444 PLEASANTVILLE RD
SED No.: 66-14-02-02-0-004-022
BBS No.: 21-274A

TODD ELEMENTARY SCHOOL

45 INGHAM RD
SED No.: 66-14-02-02-0-002-020
BBS No.: 21-274B

BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL

GENERAL INFORMATION

T0.00 TITLE SHEET

ARCHITECTURAL

- A0.01 FIRST FLOOR KEY PLAN
- A0.02 SECOND FLOOR KEY PLAN
- A1.01 ABATEMENT PLAN
- A2.01 FIRST FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS
- A2.02 FIRST FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS
- A2.03 FIRST FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS
- A2.04 SECOND FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS
- A2.05 SECOND FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS
- A3.01 ROOF DEMOLITION PLAN
- A3.02 ROOF DEMOLITION PLAN
- A3.03 ROOF PROPOSED PLAN
- A3.04 ROOF PROPOSED PLAN
- A3.05 ROOF DETAILS
- A8.01 DOOR SCHEDULE AND DETAILS

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- M0.01 GENERAL NOTES, LEGENDS AND SYMBOLS
- M1.01 ROOF DEMOLITION PART PLAN AREA A
- M1.02 ROOF & FIRST FLOOR DEMOLITION PART PLANS AREA B
- M2.01 ROOF NEW HVAC PART PLAN AREA A
- M2.02 ROOF & FIRST FLOOR NEW HVAC PART PLANS AREA B
- M6.01 SCHEDULES AND DETAILS

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- P1.01 FIRST FLOOR DEMOLITION PART PLANS AREA A
- P2.01 FIRST FLOOR NEW WORK PART PLANS AREA A
- P7.01 PLUMBING FLOOR DIAGRAM, EQUIPMENT NOTES, SCHEDULES AND DETAILS

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- E1.01 FIRST AND SECOND FLOOR DEMOLITION AND PROPOSED PLANS
- E1.02 GENERAL NOTES AND ROOF PLANS

TODD ELEMENTARY SCHOOL

ARCHITECTURAL

- A3.01 ROOF DEMOLITION PLAN
- A3.02 ROOF PROPOSED PLAN
- A3.03 ROOF DETAILS

MECHANICAL

- M0.01 GENERAL NOTES, LEGENDS AND SYMBOLS
- M1.01 ROOF DEMOLITION PART PLAN AREAS A, B & C
- M1.02 ROOF DEMOLITION PART PLAN AREAS D, E & F
- M1.03 FIRST FLOOR DEMOLITION AND NEW WORK PART PLANS AREAS E & F
- M2.01 ROOF NEW HVAC PART PLAN AREAS A, B & C
- M2.02 ROOF NEW HVAC PART PLAN AREAS D, E & F
- M6.01 SCHEDULES, EQUIPMENT NOTES AND DETAILS

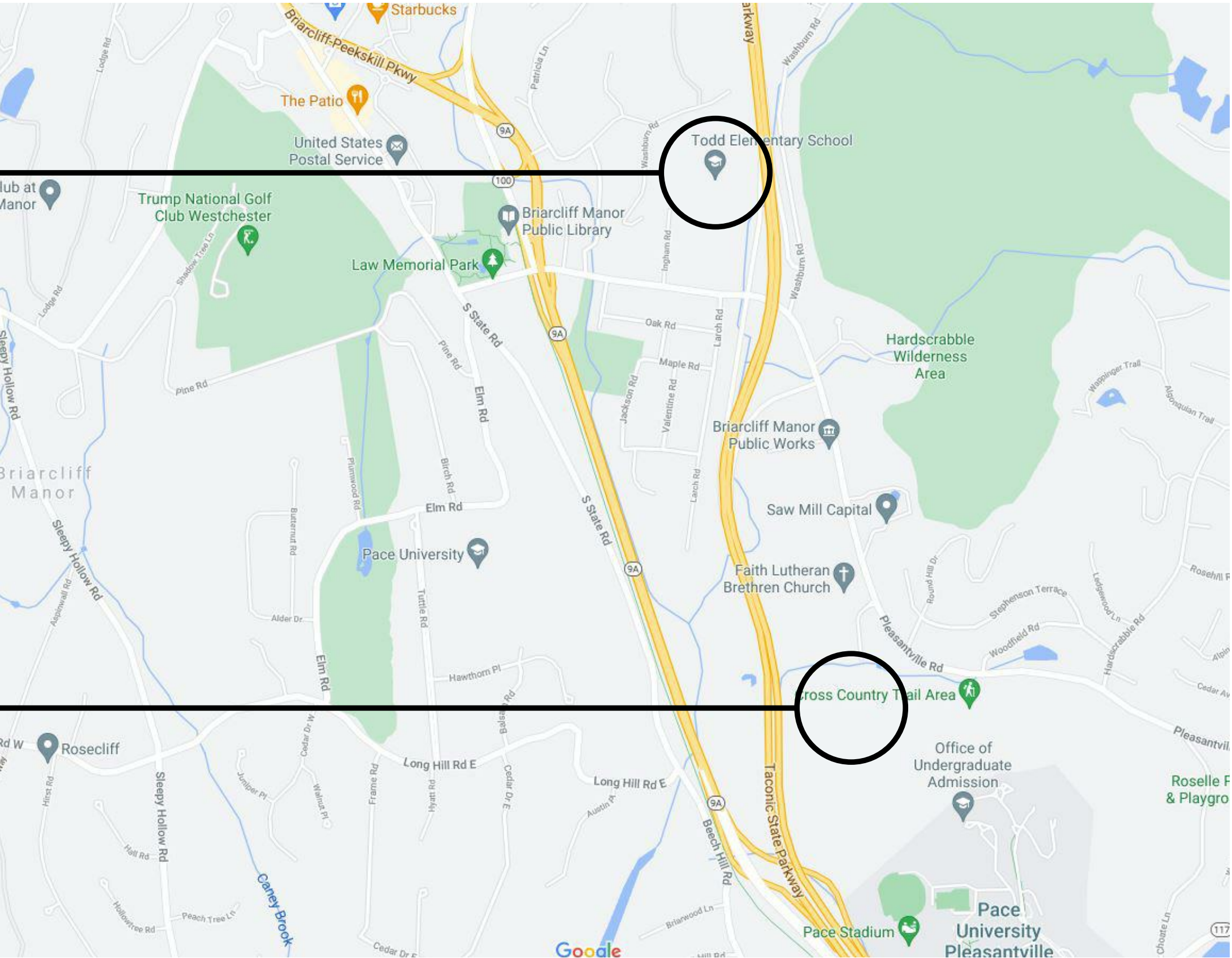
ELECTRICAL

- E1.01 FIRST FLOOR PROPOSED PLAN
- E1.02 GENERAL NOTES AND ROOF PLAN

LOCATION MAP

TODD ELEMENTARY
SCHOOL

BRIARCLIFF MANOR
MIDDLE/ HIGH SCHOOL



BBS

ARCHITECTS LANDSCAPE ARCHITECTS ENGINEERS

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244 EAST MAIN STREET | PATCHOGUE | NEW YORK 11772 | T. 631.475.0349 | 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

T0.00
BBS FILE No. 21-274A & B
ISSUE FOR BID: JANUARY 8, 2022

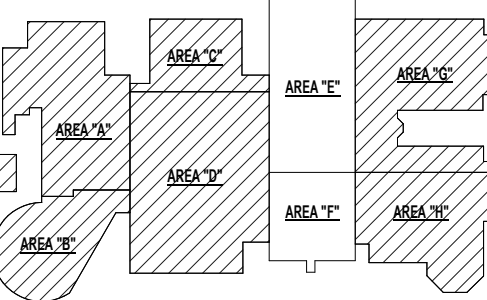


FILE NO.	21-2748

REV.	DATE	ITEM
1	01/07/2022	SED ADDENDUM #1

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KEY PLAN

NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

PROJECT

DWG TITLE

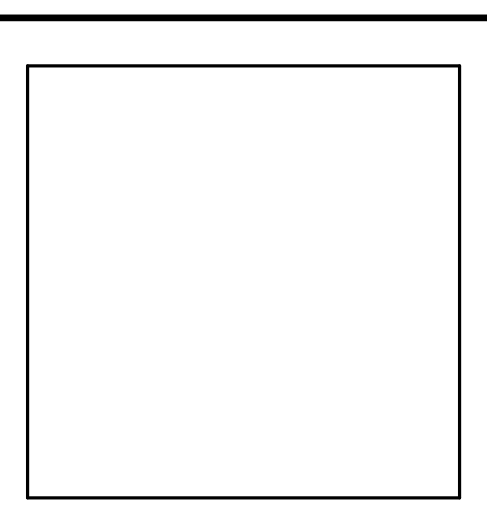
DRWG. BY: E.P.S.
CHK. BY: G.E.O.

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SED NO. 66-14-02-02-0-004-022

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 1 BOND IMPROVEMENTS

DWG TITLE SECOND FLOOR KEY PLAN

SCALE: AS NOTED
DATE: 1/18/2022
BID PAU DATE: -
FILE NO. 21-274A

A0.02 **HSMS**

BUILDING AREAS

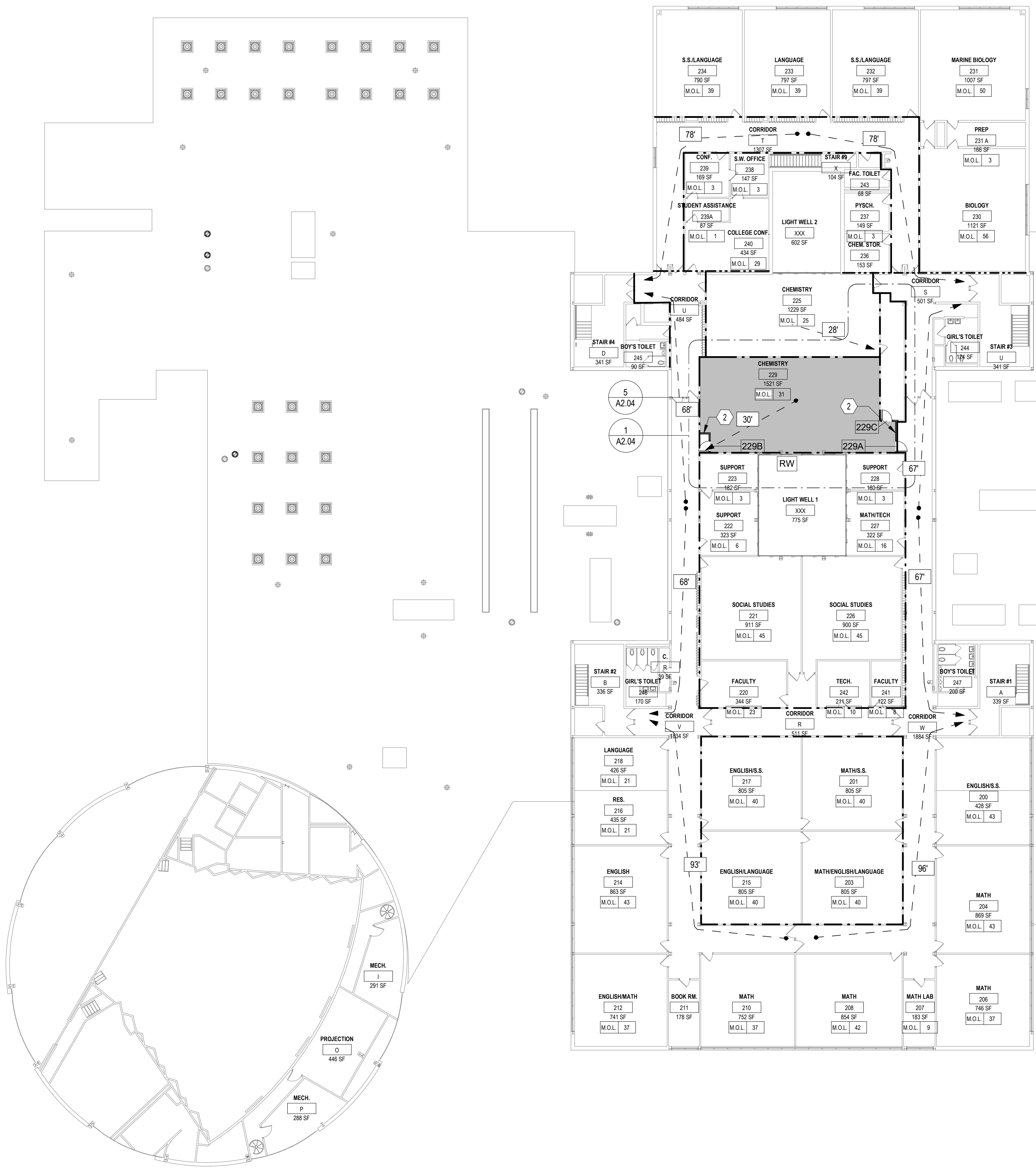
EXISTING 1ST FLOOR	169,594 SF
EXISTING 2ND FLOOR	67,886 SF
BUILDING TOTAL AREA	237,480 SF
PROPOSED 1ST FLOOR RENOVATION	7,138 SF
PROPOSED 2ND FLOOR RENOVATION	5,518 SF
TOTAL OF PROPOSED RENOVATION	12,656 SF

GENERAL KEY NOTES

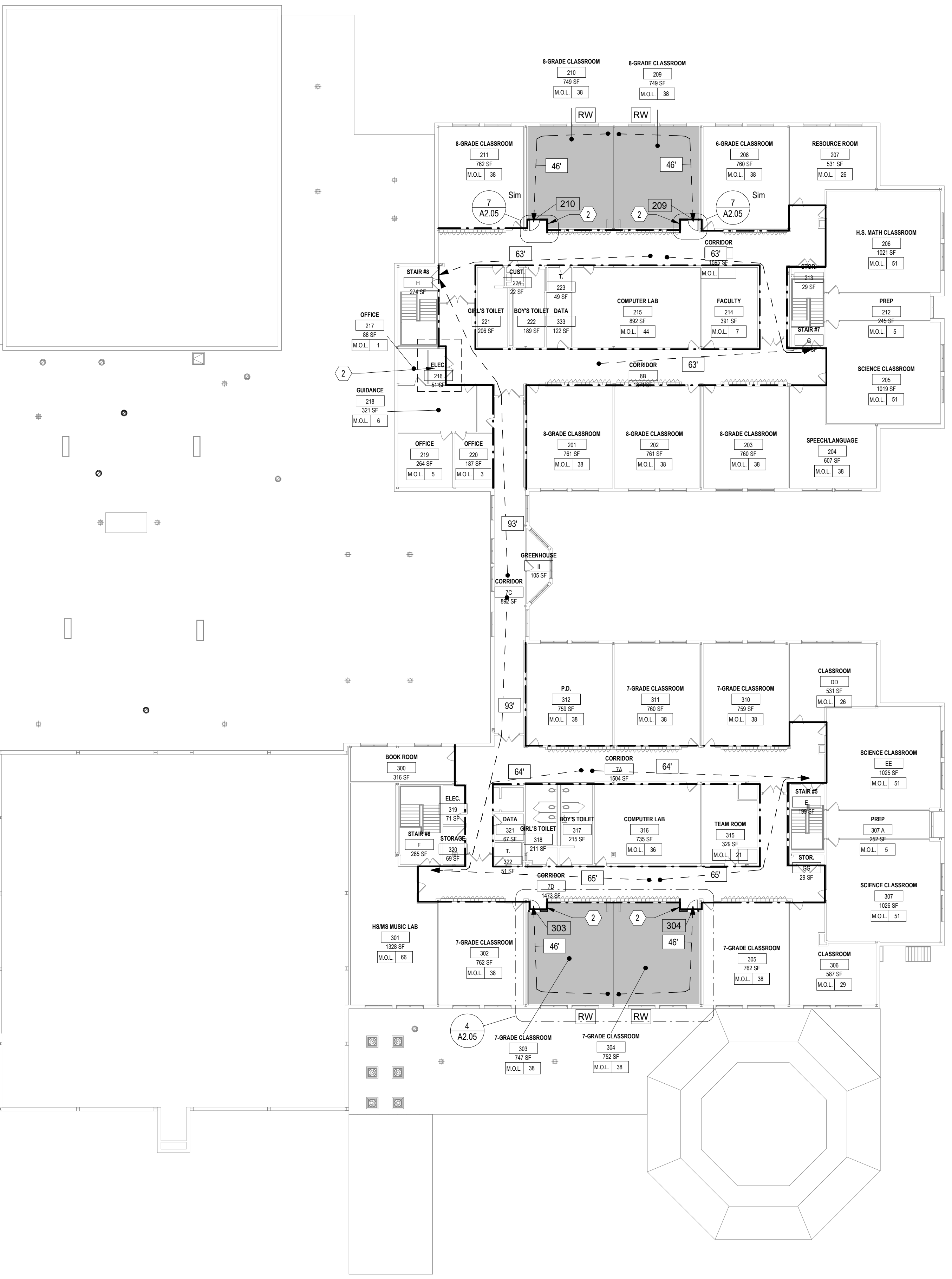
- G.C. TO PROVIDE AUTOMATIC DOOR HOLD OPEN DEVICES TO BE INSTALLED BY E.C.
G.C. TO REMOVE EXISTING MANUAL HOLD OPEN DEVICES.
REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- G.C. TO FIRESTOP/SEAL PENETRATIONS AND TOP OF WALL. SEE TYPICAL CONDITION AT PHOTO DETAIL 2 @ A0.01.
- G.C. TO REPAIR MISSING FIRE PROOFING SPRAY. APPLY FIRE PROOFING OVER STEEL COLUMNS AND BRACES. SEE PHOTO DETAIL 1 @ A0.01.

FIRE RATING LEGEND

---	1 HR FIRE BARRIERS
----	2 HR FIRE BARRIERS



1 SECOND FLOOR KEY PLAN
SCALE: 1" = 20'-0"



1 FIRST FLOOR 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 REMEDIAL 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 READERS 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 OBTAINING 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 DEMOLISHED DURING CONSTRUCTION FOR THE PRESENCE OF ASBESTOS, LEAD AND/OR PCB CONTAINING CONSTRUCTION MATERIALS.
2. ALL INSPECTIONS AND TESTING HAVE BEEN PERFORMED BY:
WSP USA SOLUTIONS INC.
90 SUMMIT LANE DRIVE, SUITE 400
VALHALLA NY 10985
(914) 441-1100
3. 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.
4. 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.

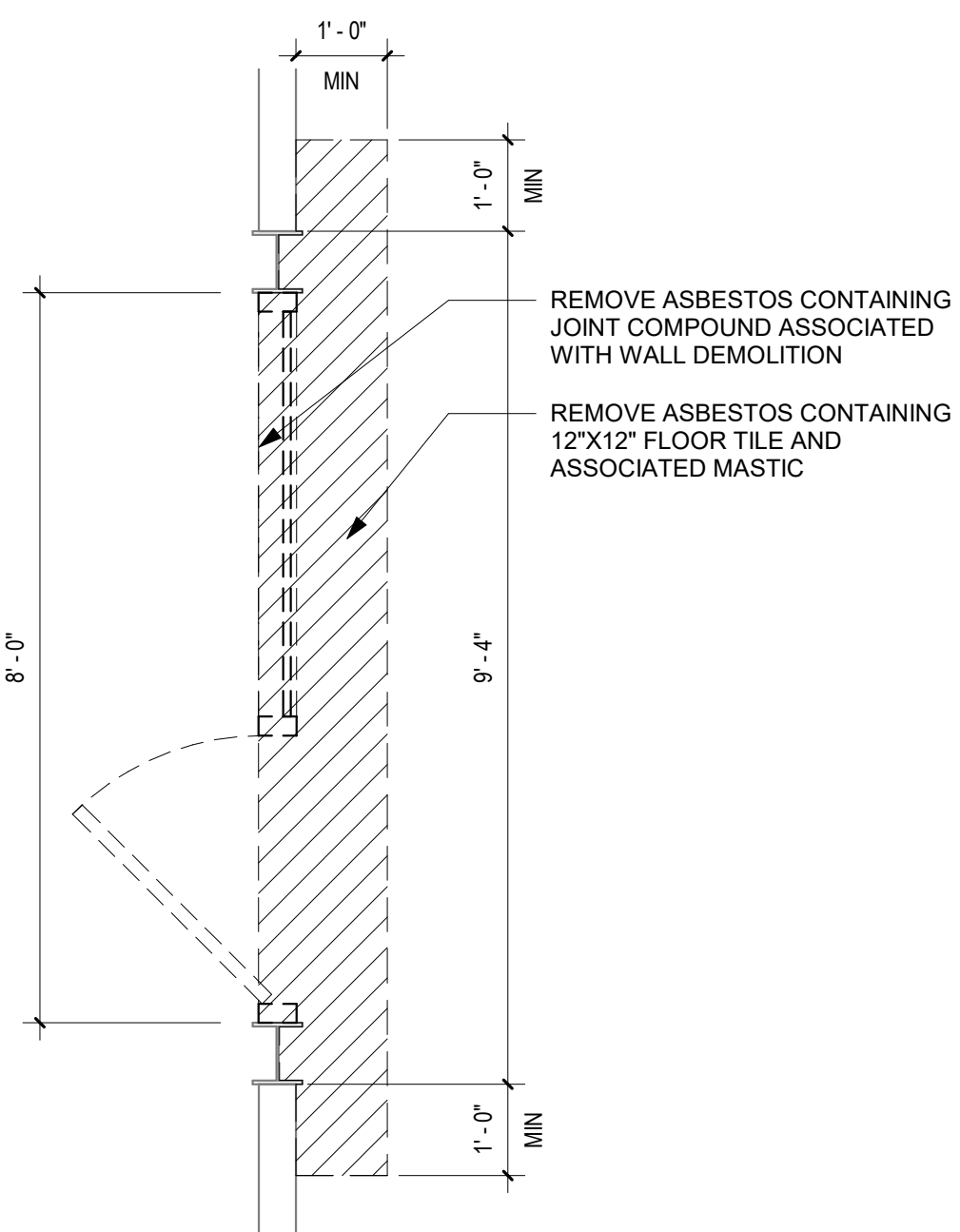
ASBESTOS KEY NOTES

- A AREAS INDICATED ASBESTOS CONTAINING JOINT COMPOUND ASSOCIATED WITH GYPSUM WALL BOARD
 - A1 AREAS INDICATED ASBESTOS CONTAINING JOINT COMPOUND ASSOCIATED WITH GYPSUM WALL BOARD, G.C. TO COORDINATE ASBESTOS EXTENDED REMOVAL WITH E.C.
 - B AREAS INDICATED ASBESTOS CONTAINING 12"X12" FLOOR TILE AND ASSOCIATED MASTIC DOWN TO EXISTING CONCRETE SUBSTRATE
- G.C. SHALL CARRY 90 FT. OF ASBESTOS CONTAINING PIPE INSULATION REMOVAL AND 10 ELBOW FITTINGS IN THEIR BID.

REFER TO PRE-CONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT ASBESTOS CONTAINING MATERIALS INFORMATION AVAILABLE TO READERS FOR ASSUMED ASBESTOS CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES WHICH MAY BE KNOWN 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 PRE-CONSTRUCTION LEAD MATERIALS INSPECTION AND SAMPLING REPORT INFORMATION AVAILABLE TO READERS FOR LEAD CONTAINING CONSTRUCTION MATERIALS TO REMAIN OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.



2 ENLARGED ABATEMENT PLAN DETAIL (TYPICAL)

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

REV.	DATE	ITEM

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BRIARCLIFF MANOR U.F.S.D.
PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

ABATEMENT PLAN

PROJECT

DWG/TITLE

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

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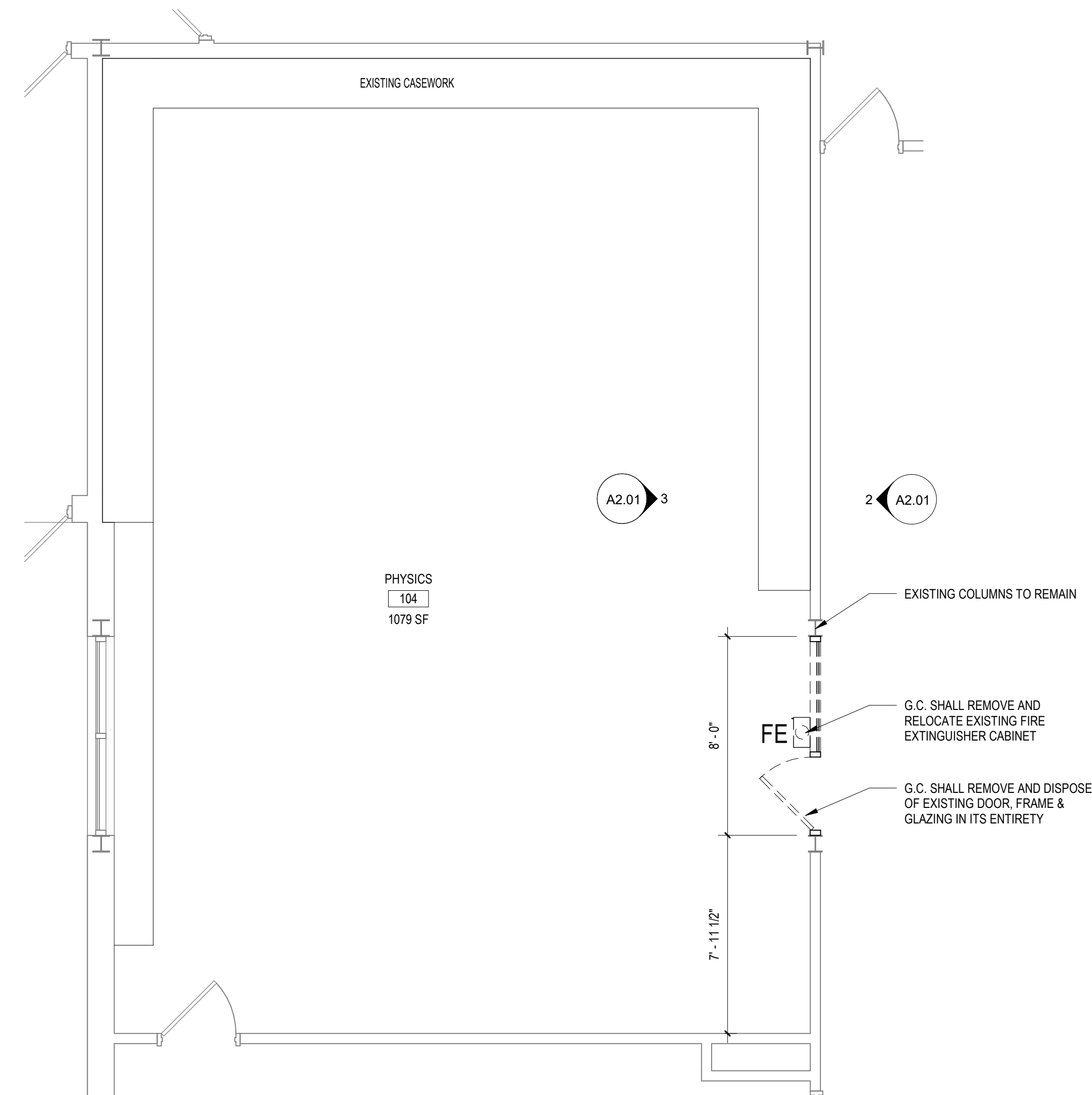
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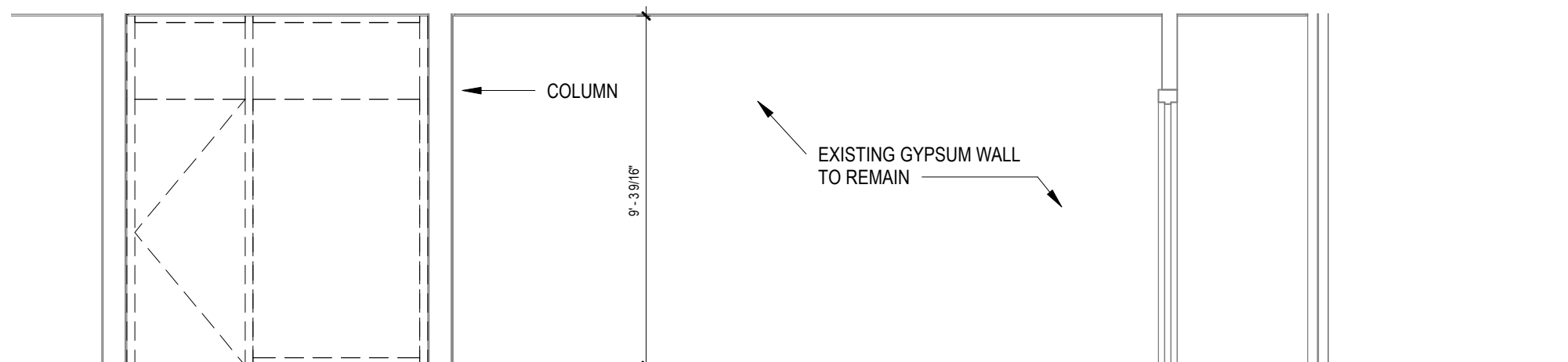
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SER. NO. 66-14-02-02-0-004-022
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 1 BOND IMPROVEMENTS
DWG. TITLE ABATEMENT PLAN
SCALE: AS NOTED
DATE: 1/12/2022
BID PAU DATE: -
FILE NO. 21-274A

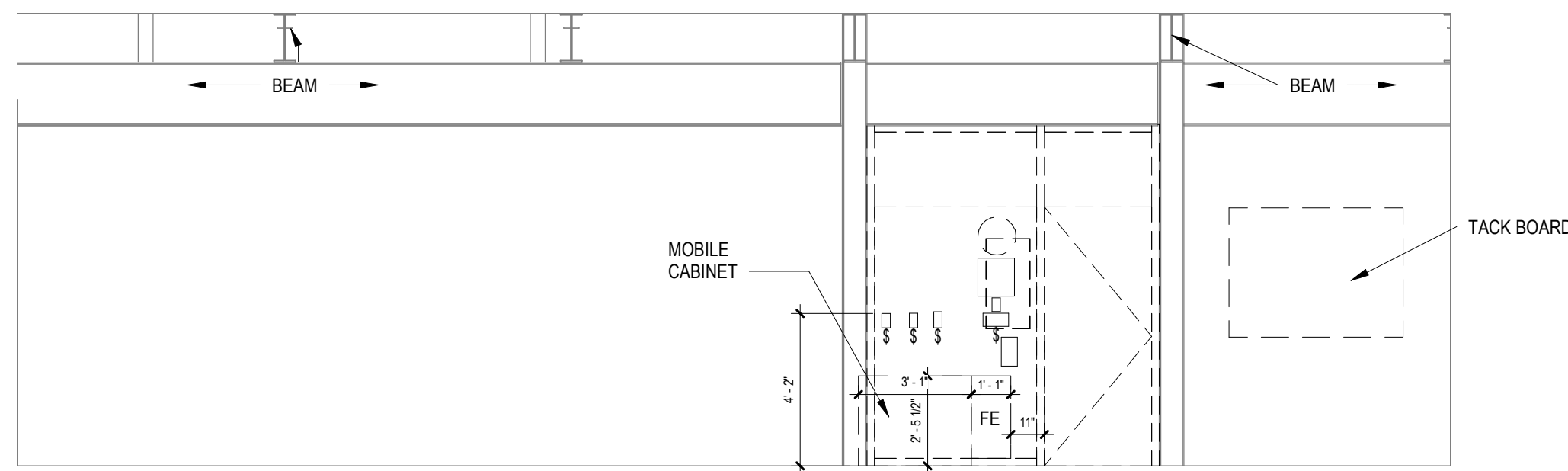
A1.01 HSMS



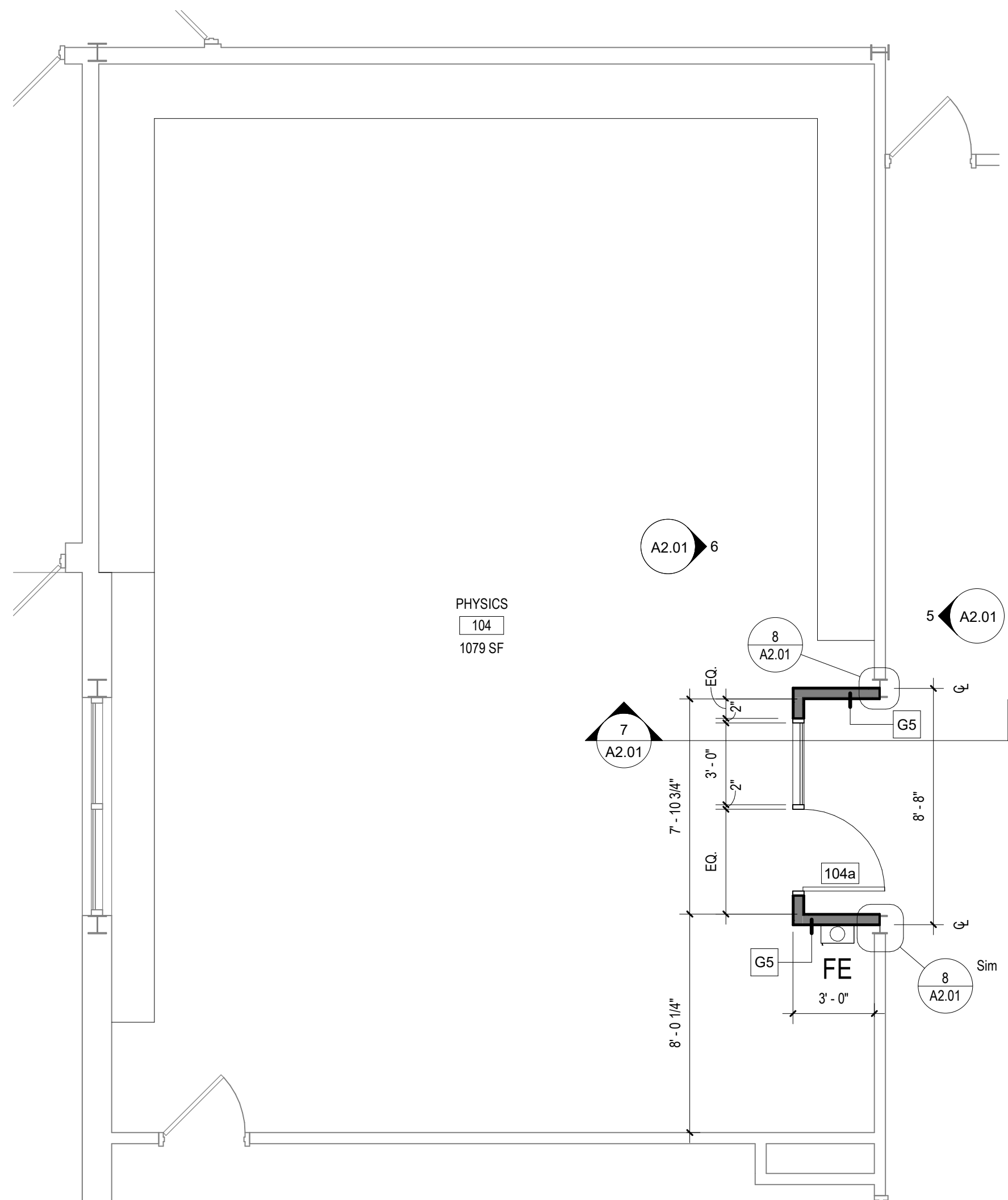
1 ENLARGED DEMOLITION PLAN - ROOM 104
SCALE: 1/4" = 1'-0"



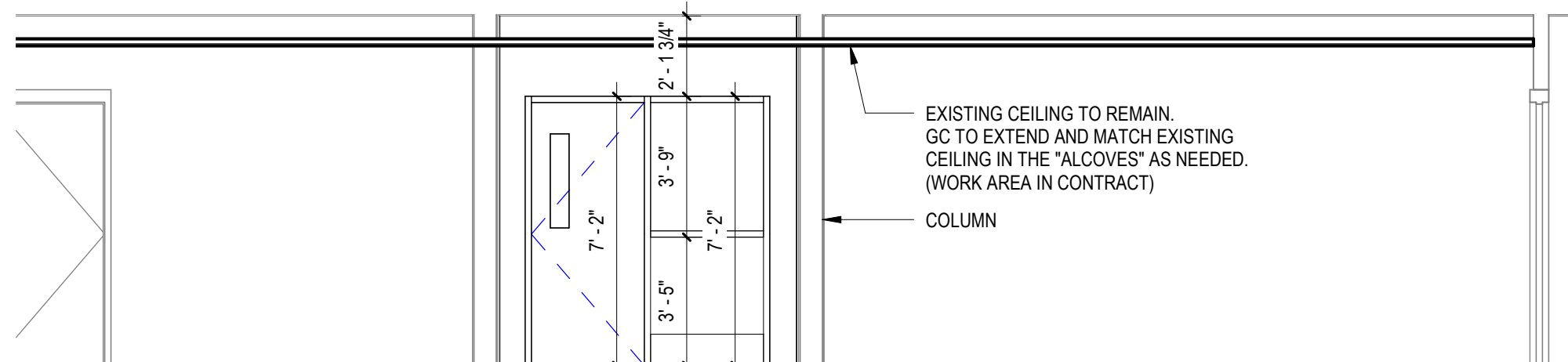
2 DEMOLITION ELEVATION - ROOM 104
SCALE: 1/4" = 1'-0"



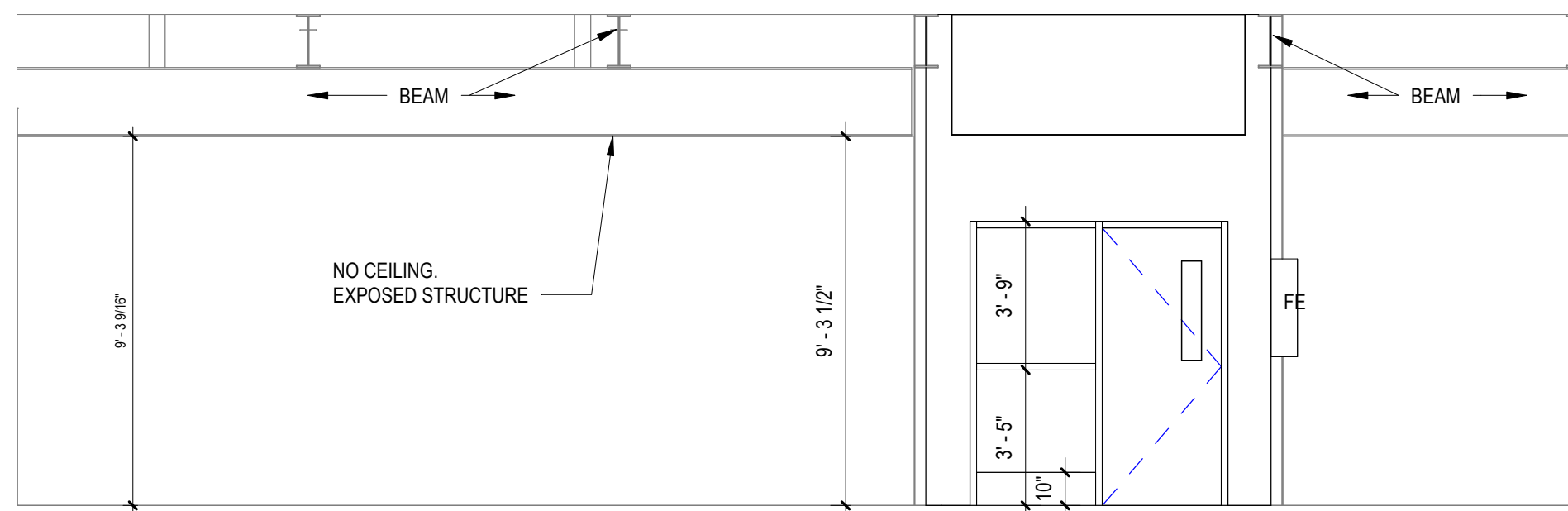
3 DEMOLITION ELEVATION -ROOM 104
SCALE: 1/4" = 1'-0"



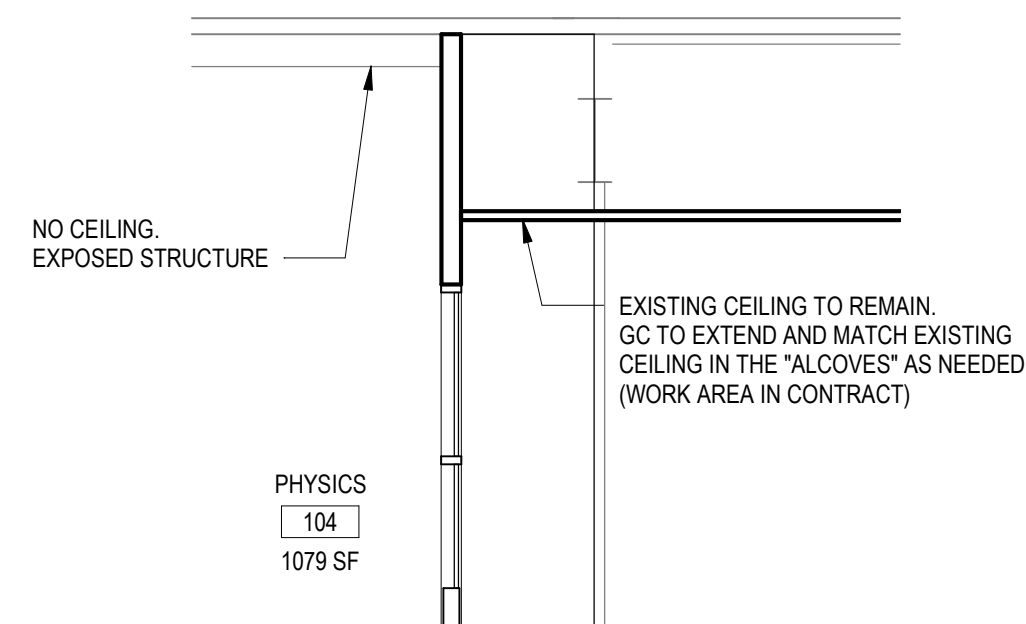
4 ENLARGED PROPOSED PLAN - ROOM 104
SCALE: 1/4" = 1'-0"



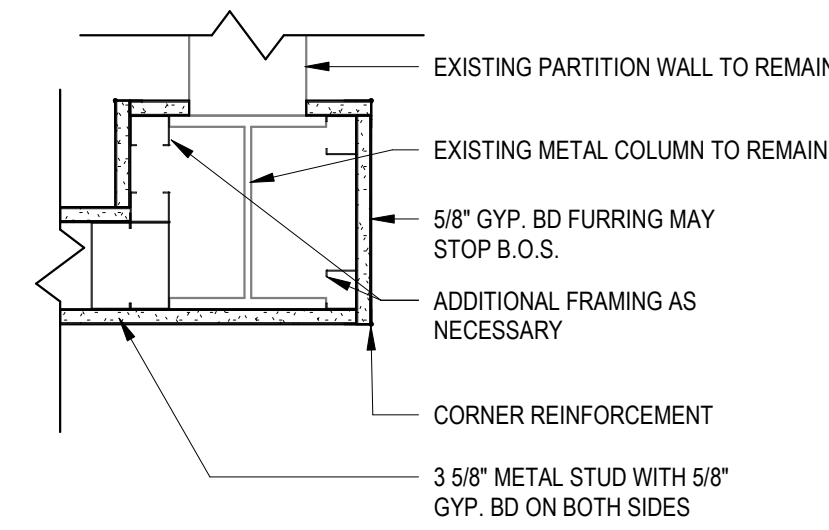
5 PROPOSED ELEVATION - ROOM 104
SCALE: 1/4" = 1'-0"



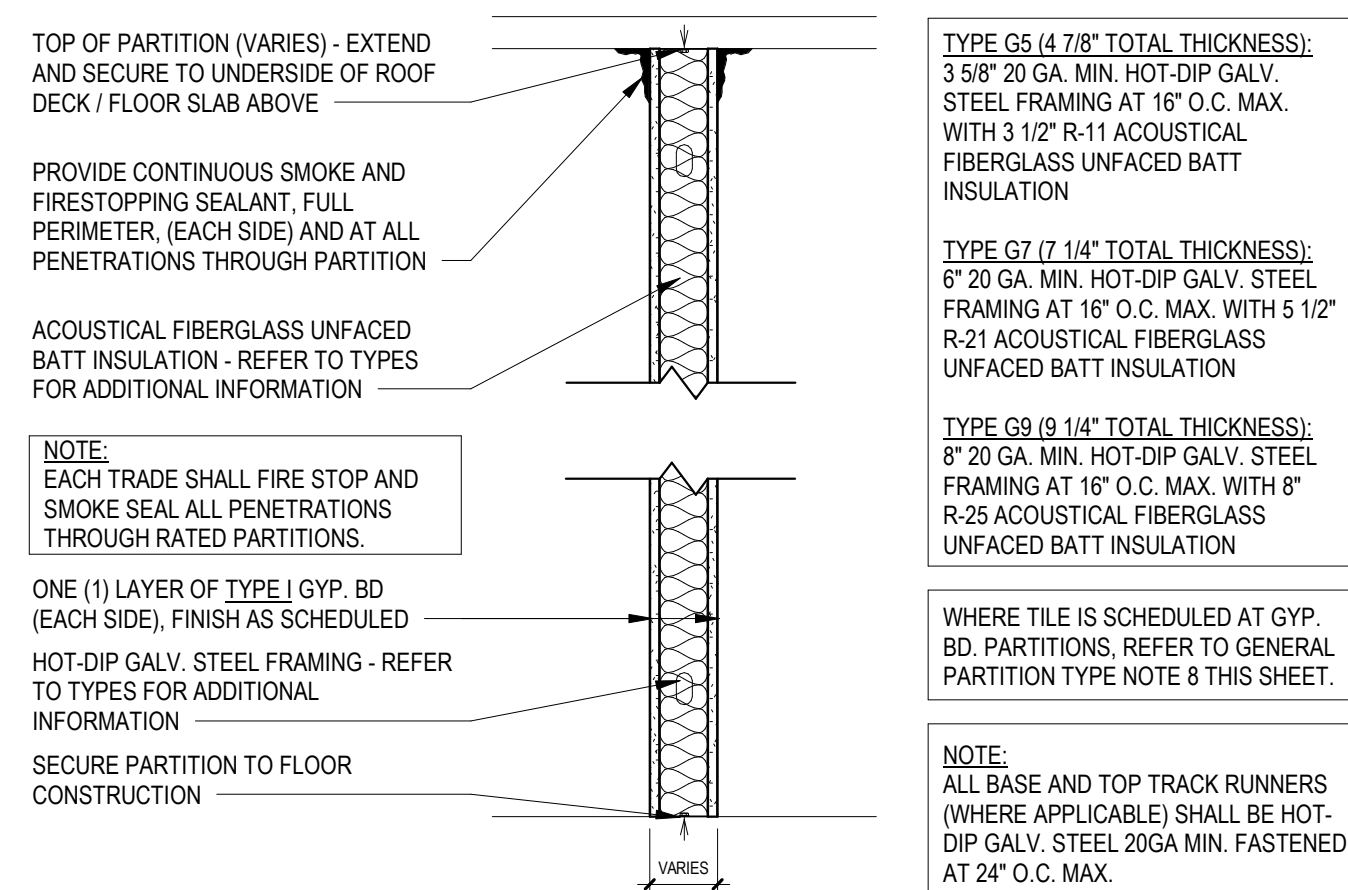
6 PROPOSED ELEVATION -ROOM 104
SCALE: 1/4" = 1'-0"



7 PROPOSED WALL SECTION
SCALE: 1/4" = 1'-0"



8 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



- G5 5" NOM. GYP. BD. METAL STUD PARTITION (1-HR RATING)
UL U419 / STC 49, NON-BEARING INTERIOR PARTITION
- G7 7" NOM. GYP. BD. METAL STUD PARTITION (1-HR RATING)
UL U419 / STC 49, NON-BEARING INTERIOR PARTITION
- G9 9" NOM. GYP. BD. METAL STUD PARTITION (1-HR RATING)
UL U419 / STC 49, NON-BEARING INTERIOR PARTITION

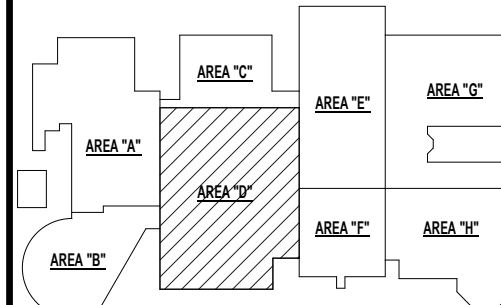
GENERAL PARTITION TYPE NOTES:

- ALL PARTITIONS SHALL EXTEND TO UNDERSIDE OF A FLOOR SLAB OR ROOF DECK UNLESS OTHERWISE NOTED.
- 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.
- REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF ALL FIRE RATED PARTITIONS/ASSEMBLIES AND ADDITIONAL FIRE RATING INFORMATION.
- 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.
- ALL NEW PARTITIONS SHALL BE PREPARED, PRIMED AND PAINTED, PER SPECIFICATION SECTION 0900.
- 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.
- REFER TO SPECIFICATIONS FOR GYPSUM BOARD TYPE DESIGNATIONS AND APPLICABLE LOCATIONS (GYP. BD. TYPE I, TYPE II).
- 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.
- 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.
- WHERE EXISTING OPENINGS IN EXISTING PARTITIONS ARE SCHEDULED TO BE INFILLED, THE NEW INFILL CONSTRUCTION SHALL MAINTAIN AND MATCH THE EXISTING PARTITIONS 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.
- 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.
- 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.
- 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
1	01/07/2022	SED ADDENDUM #1

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KEY PLAN

NO SCALE

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PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
1444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

PROJECT DWG/TITLE

FIRST FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS

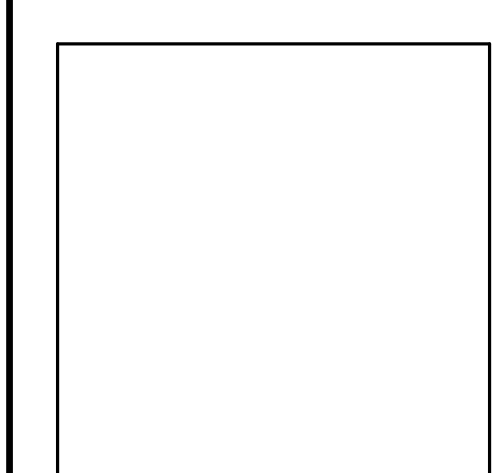
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SED NO. 66-14-02-02-0-004-022

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 1 BOND IMPROVEMENTS

DWG TITLE FIRST FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS

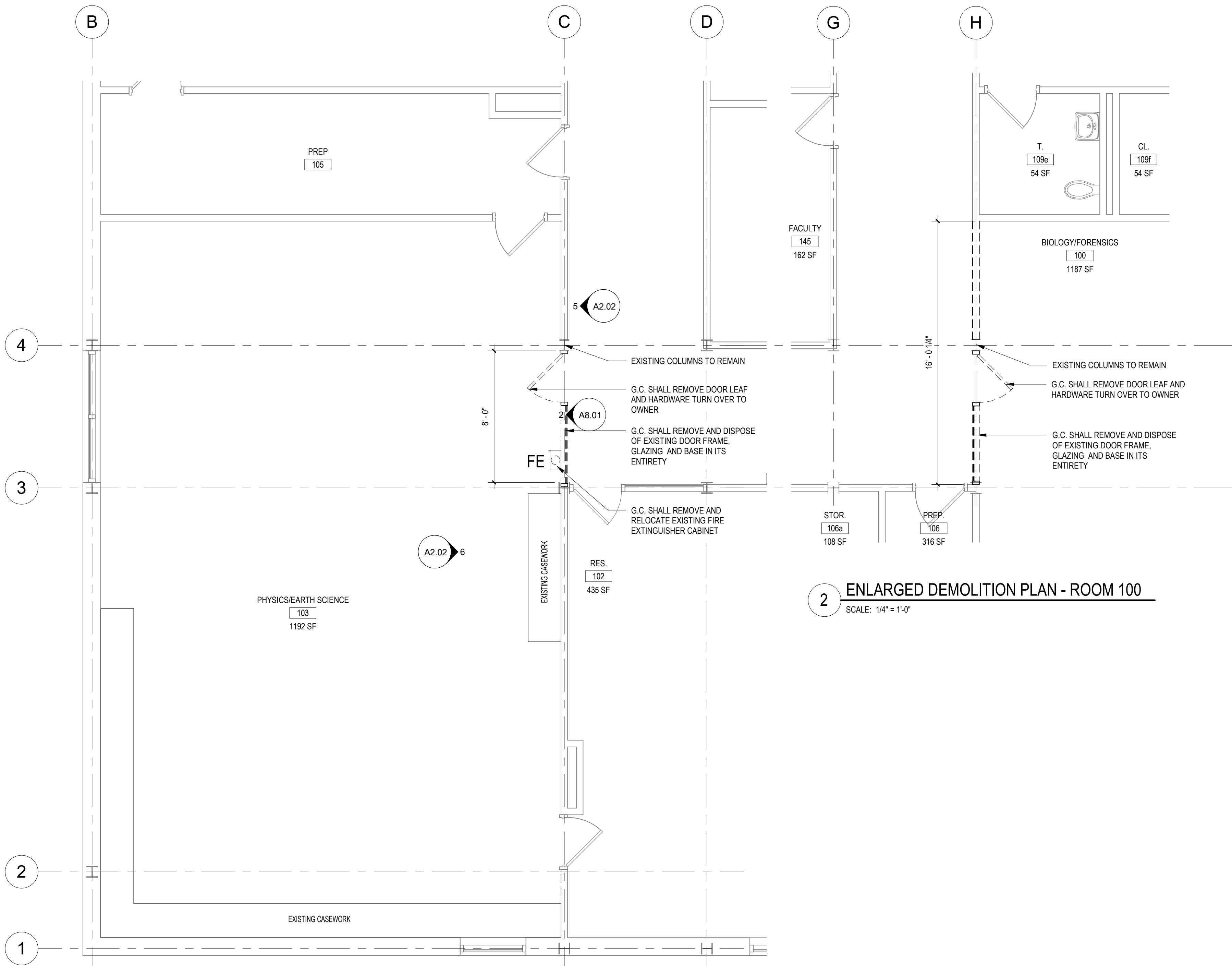
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DATE: 1/12/2022

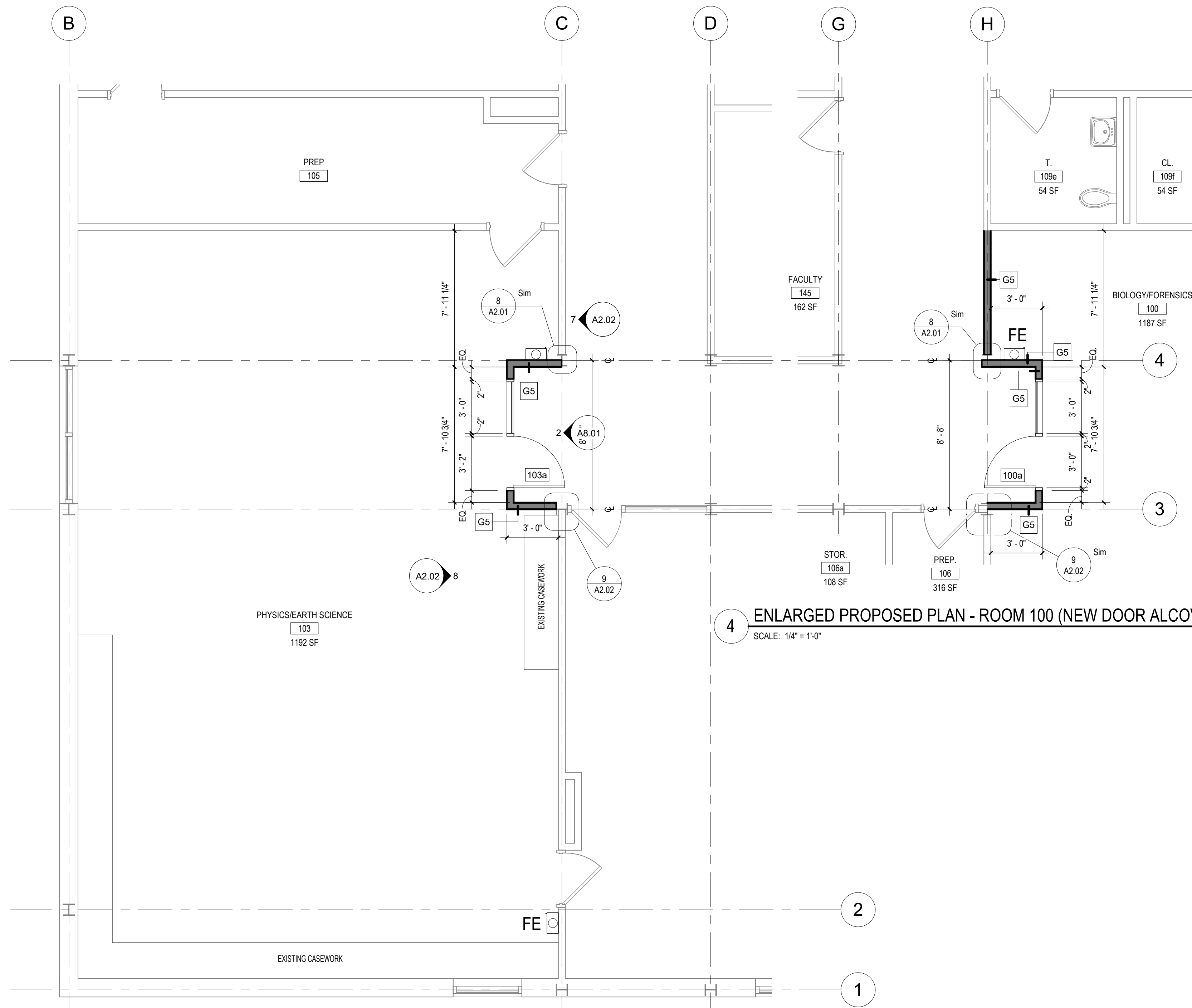
BID PAU DATE: -

FILE NO. 21-274A

A2.01 HSMS

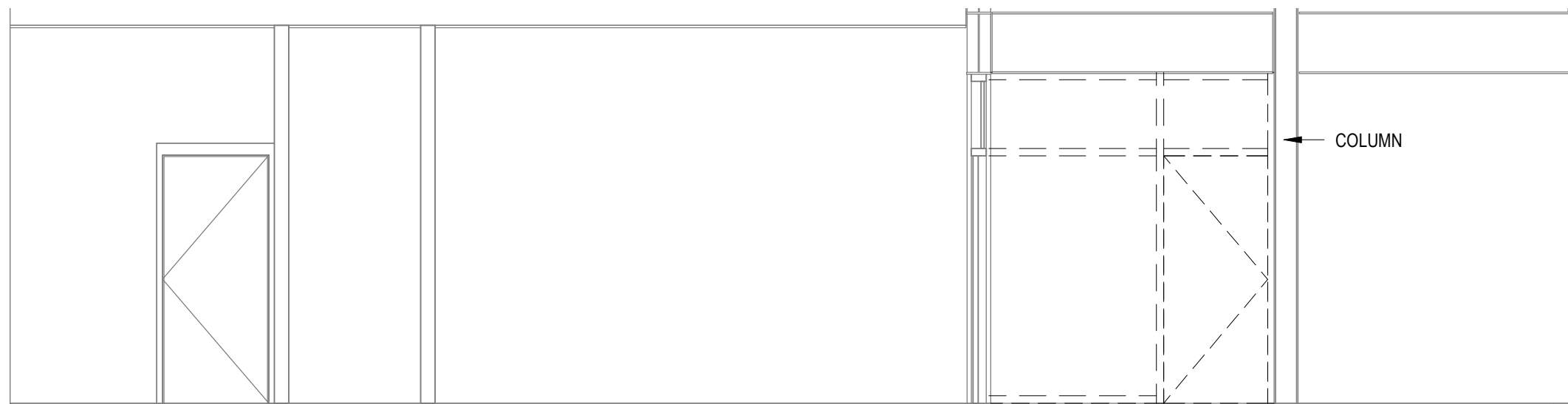


2 ENLARGED DEMOLITION PLAN - ROOM 100
SCALE: 1/4" = 1'-0"

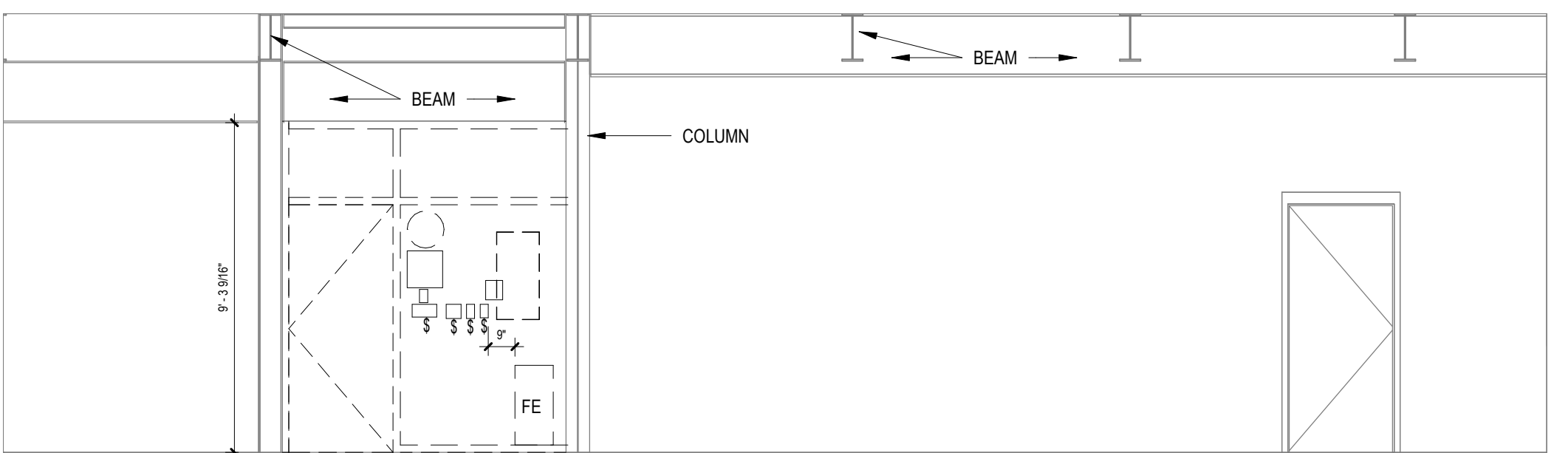


4 ENLARGED PROPOSED PLAN - ROOM 100 (NEW DOOR ALCOVE)
SCALE: 1/4" = 1'-0"

1 ENLARGED DEMOLITION PLAN - ROOM 103
SCALE: 1/4" = 1'-0"



5 DEMOLITION ELEVATION- ROOM 103
SCALE: 1/4" = 1'-0"

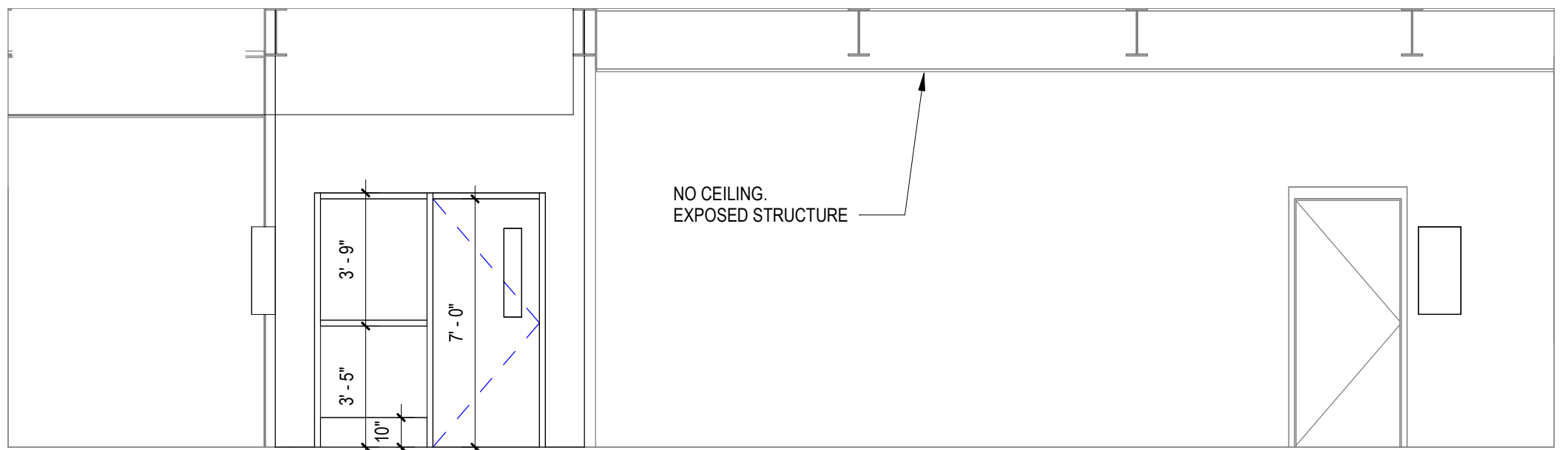


6 DEMOLITION ELEVATION - ROOM 103
SCALE: 1/4" = 1'-0"

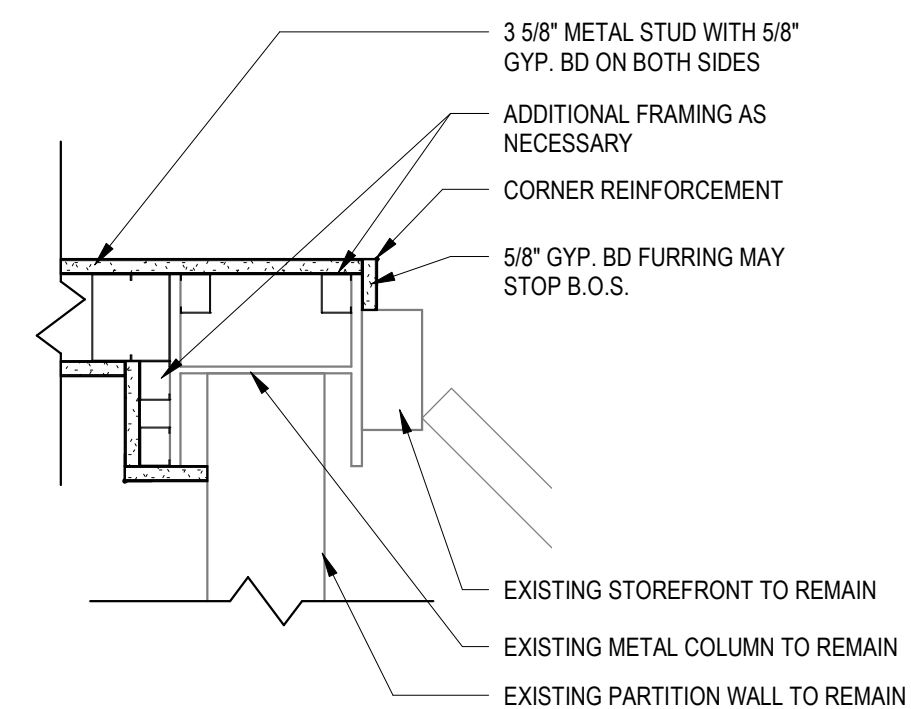
3 ENLARGED PROPOSED PLAN - ROOM 103
SCALE: 1/4" = 1'-0"



7 PROPOSED ELEVATION -ROOM 103
SCALE: 1/4" = 1'-0"



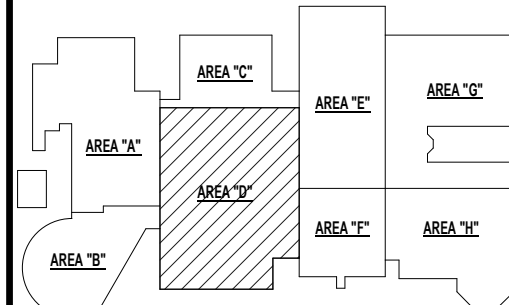
8 PROPOSED ELEVATION - ROOM 103
SCALE: 1/4" = 1'-0"



9 PLAN DETAIL - ROOM 103
SCALE: 1 1/2" = 1'-0"

REV.	DATE	ITEM
1	01/07/2022	SED ADDENDUM #1

NOTICE
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KEY PLAN
NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

PROJECT

DRWG. BY: E.P.S.
CHK. BY: G.E.O.

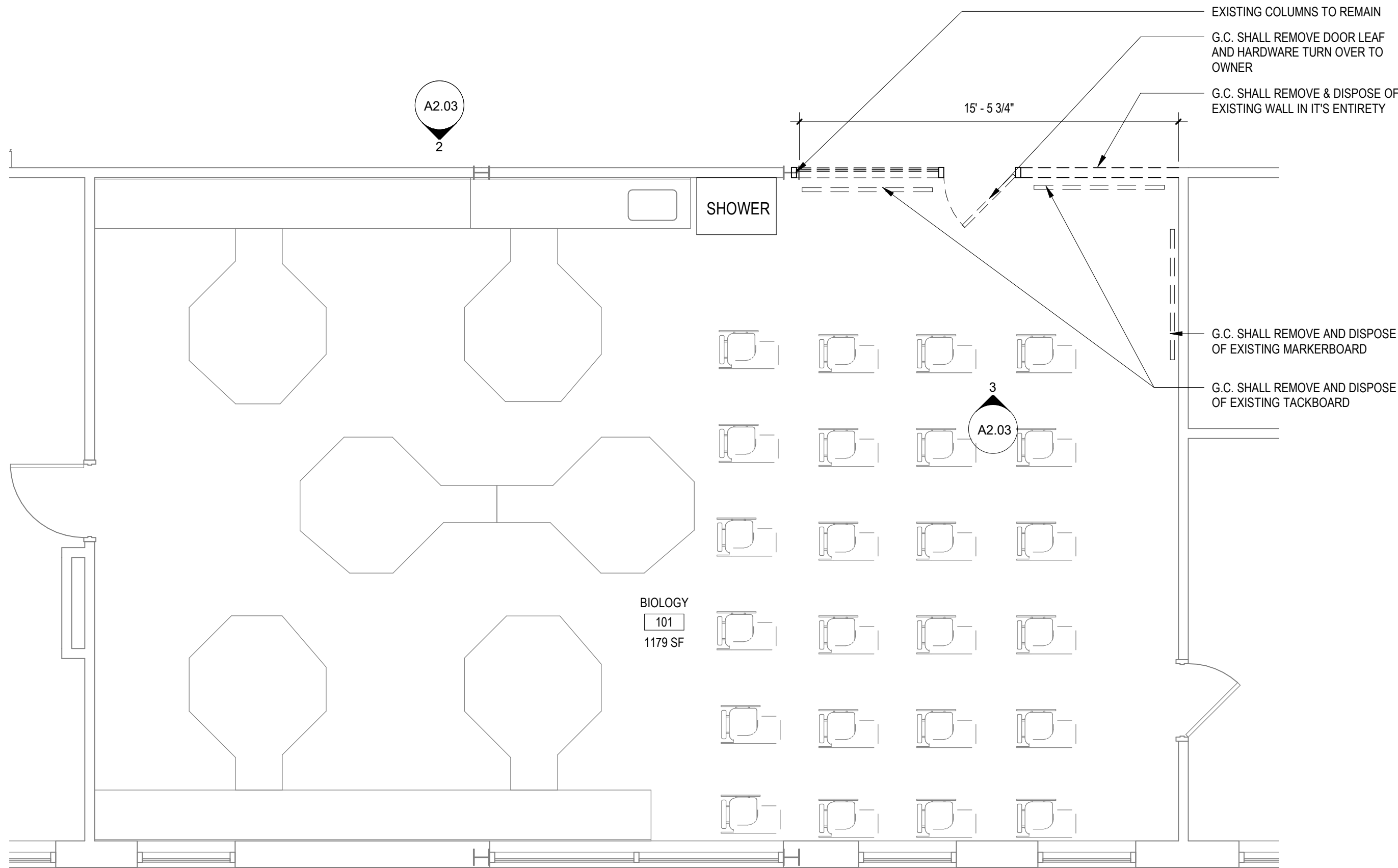
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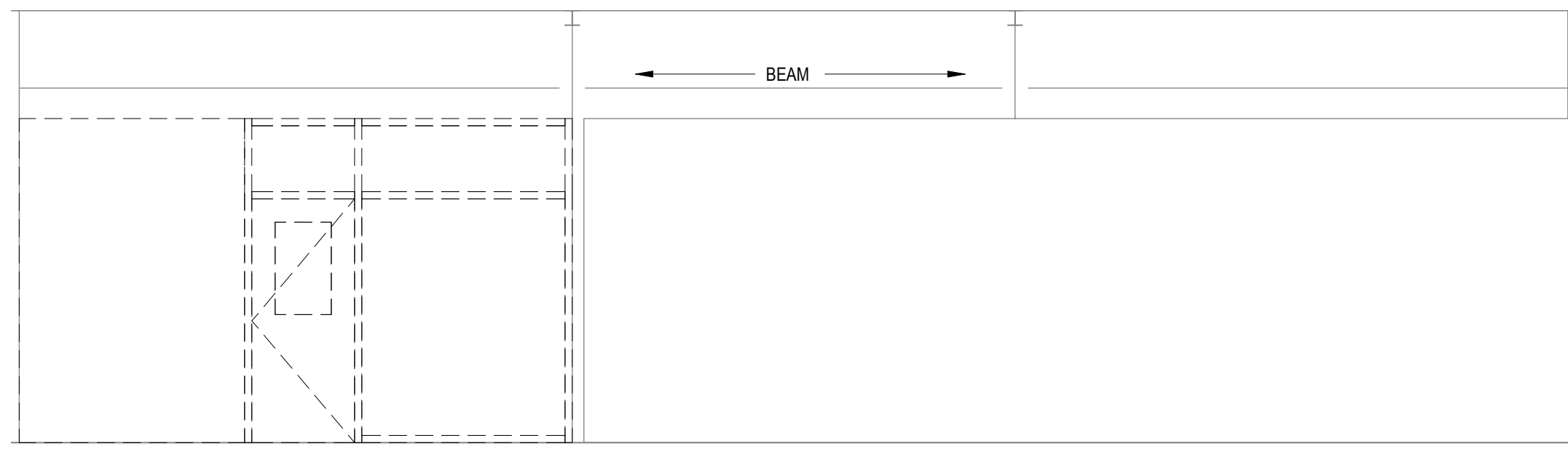
BRANCH PROJECT CONTACT: 244 EAST MAIN STREET
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ALBANY NEW YORK 11772
NEW YORK 12205 T. 631.475.0349
T. 518.621.7650 F. 631.475.0361
WWW.BBSARCHITECTURE.COM

SED No. 66-14-02-02-0-004-022
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 1 BOND IMPROVEMENTS
DWG TITLE FIRST FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS
SCALE: AS NOTED
DATE: 1/12/2022
BID / PU DATE: -
FILE NO. 21-274A

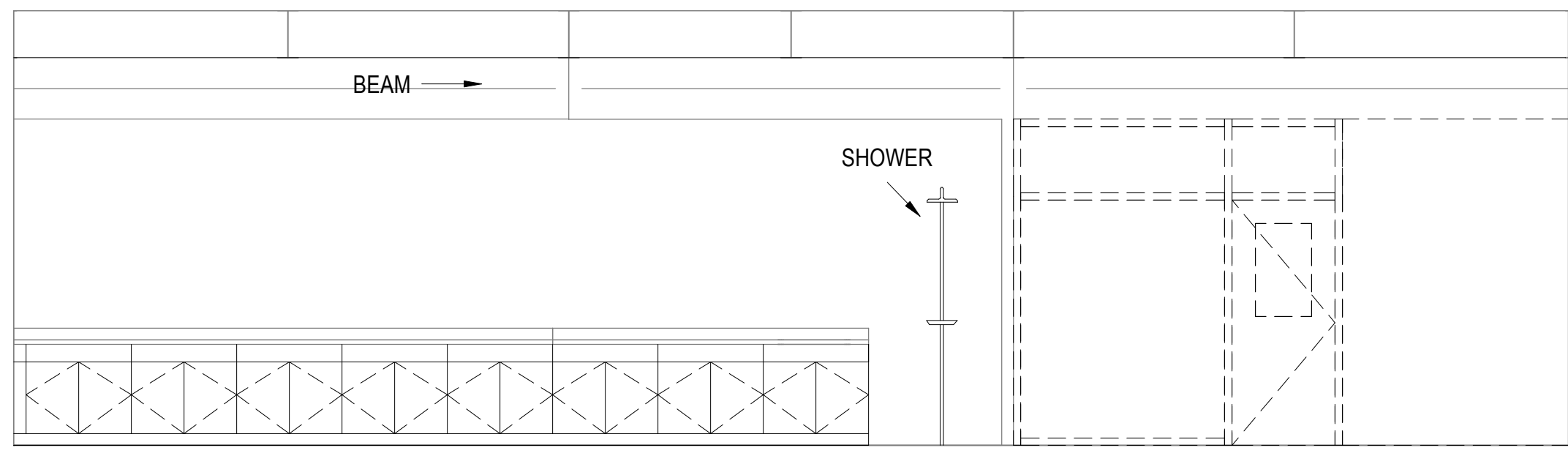
A2.02 **HSMS**



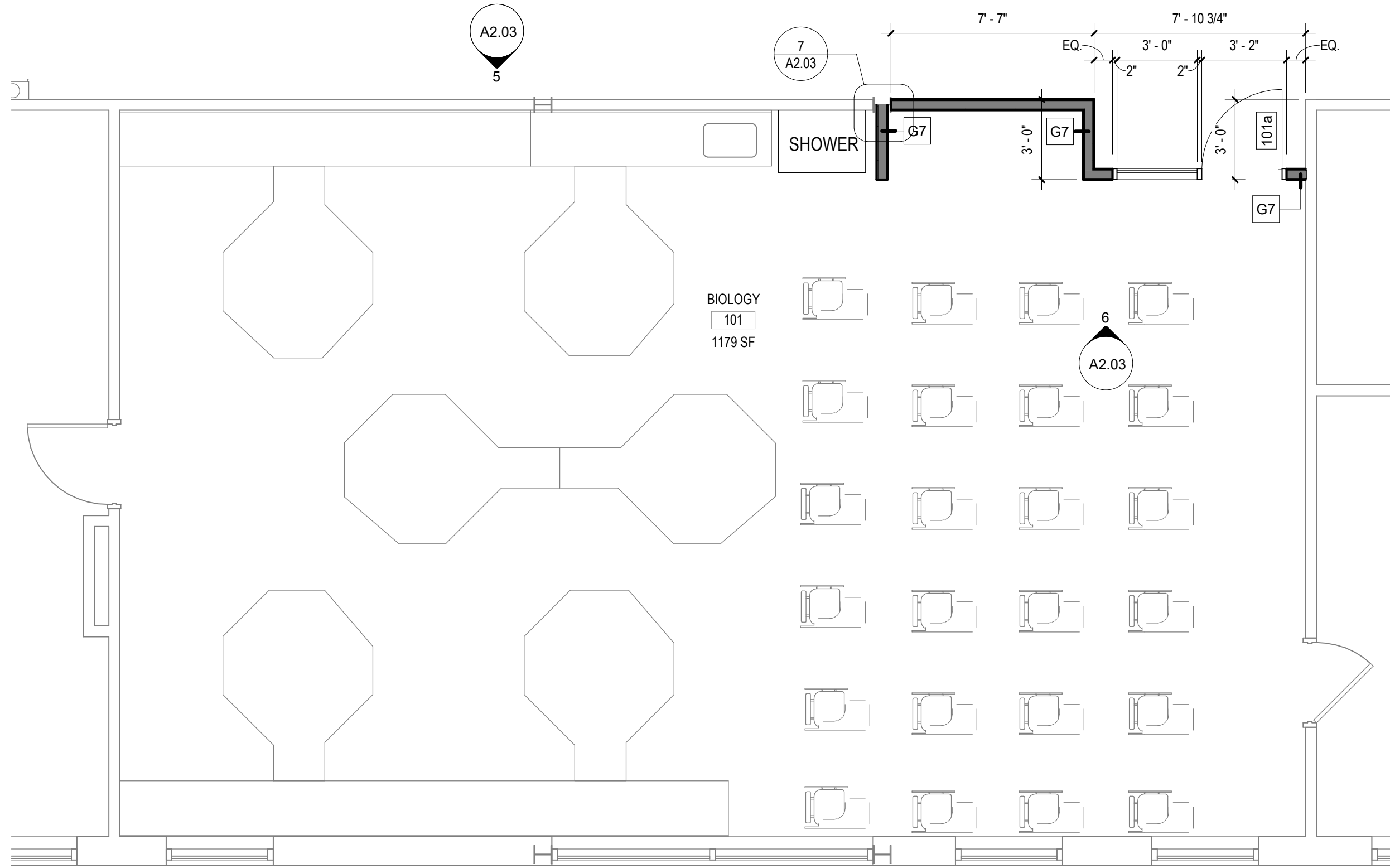
1 ENLARGED DEMOLITION PLAN - ROOM 101
SCALE: 1/4" = 1'-0"



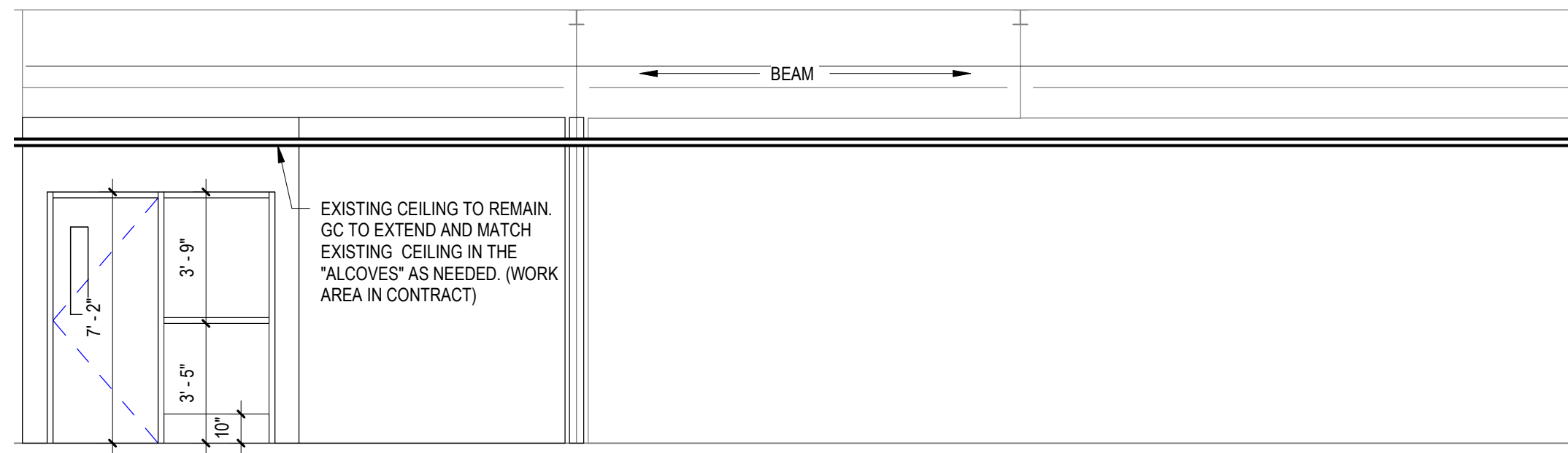
2 DEMOLITION ELEVATION - ROOM 101
SCALE: 1/4" = 1'-0"



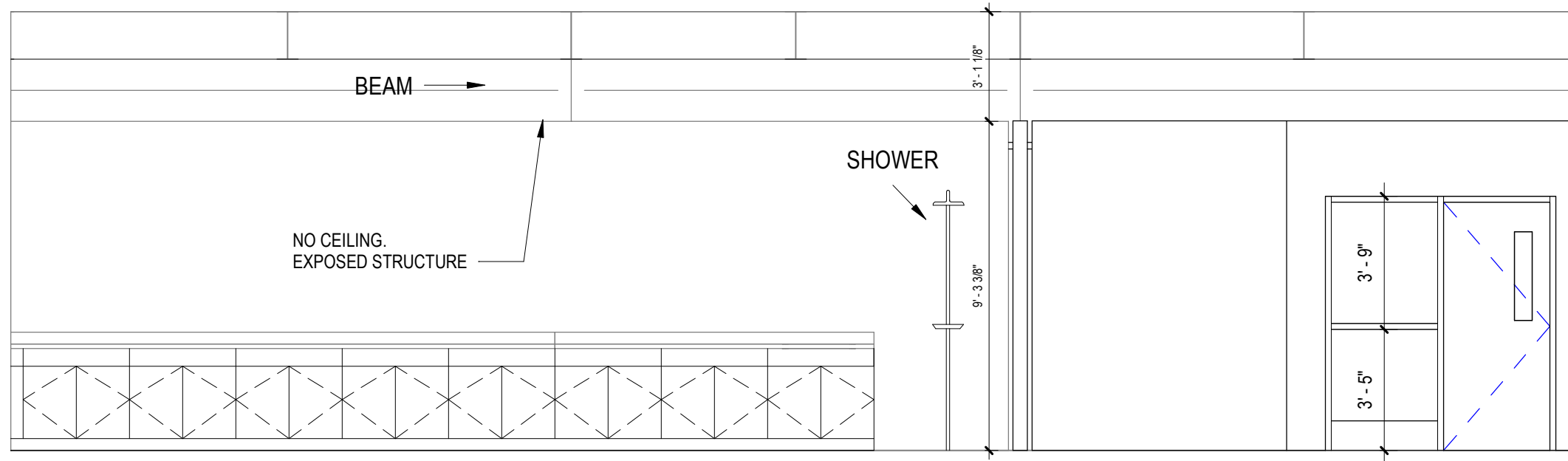
3 DEMOLITION ELEVATION - ROOM 101
SCALE: 1/4" = 1'-0"



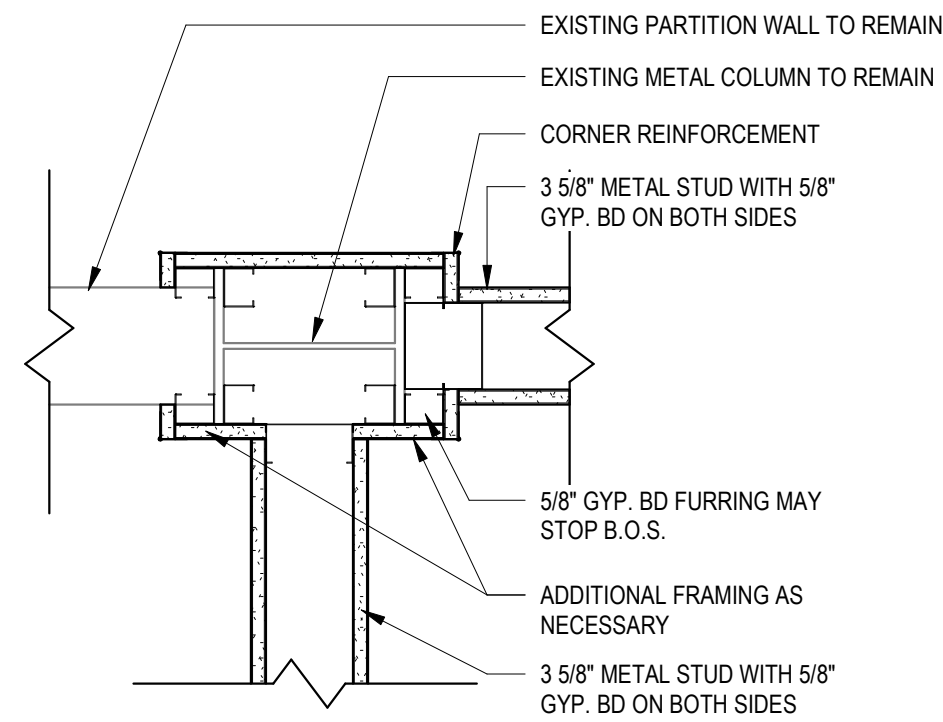
4 ENLARGED PROPOSED PLAN - ROOM 101
SCALE: 1/4" = 1'-0"



5 PROPOSED ELEVATION - ROOM 101
SCALE: 1/4" = 1'-0"



6 PROPOSED ELEVATION - ROOM 101
SCALE: 1/4" = 1'-0"

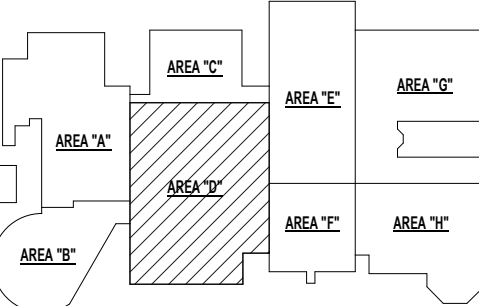


7 PLAN DETAIL - ROOM 101
SCALE: 1 1/2" = 1'-0"

REV.	DATE	ITEM
1	01/07/2022	SED ADDENDUM #1

NOTICE

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KEY PLAN

NO SCALE

BRIARCLIFF MANOR U.F.S.D. PHASE 1 BOND IMPROVEMENTS BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL 444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

PROJECT

DWG TITLE

DRWG. BY: E.P.S.
CHK. BY: G.E.O.

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SED NO. 66-14-02-02-0-004-022

DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 1 BOND IMPROVEMENTS

DWG TITLE FIRST FLOOR ENLARGED
PLAN, ELEVATIONS &
SECTIONS

SCALE: AS NOTED

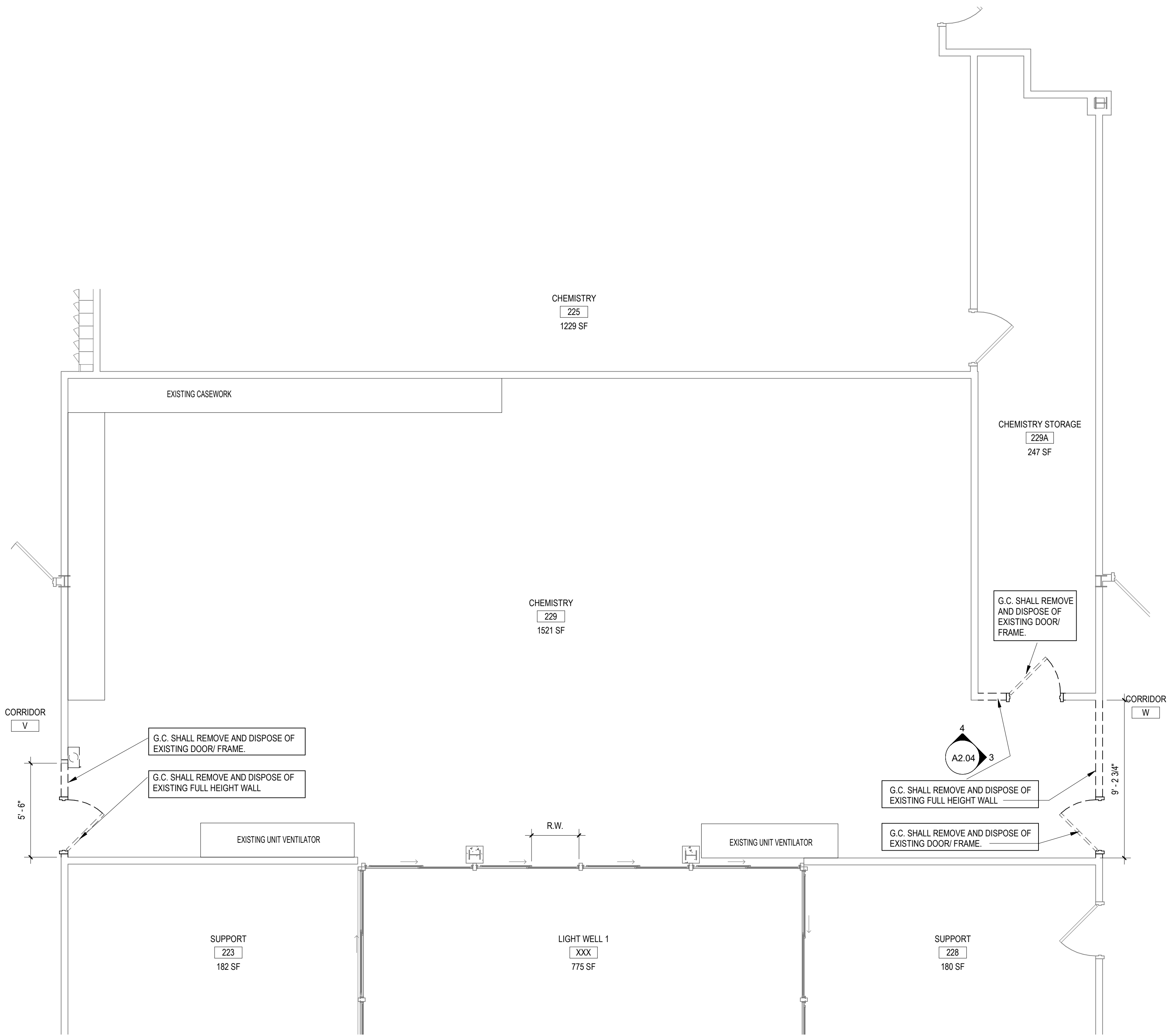
DATE: 1/12/2022

BID / PU DATE: -

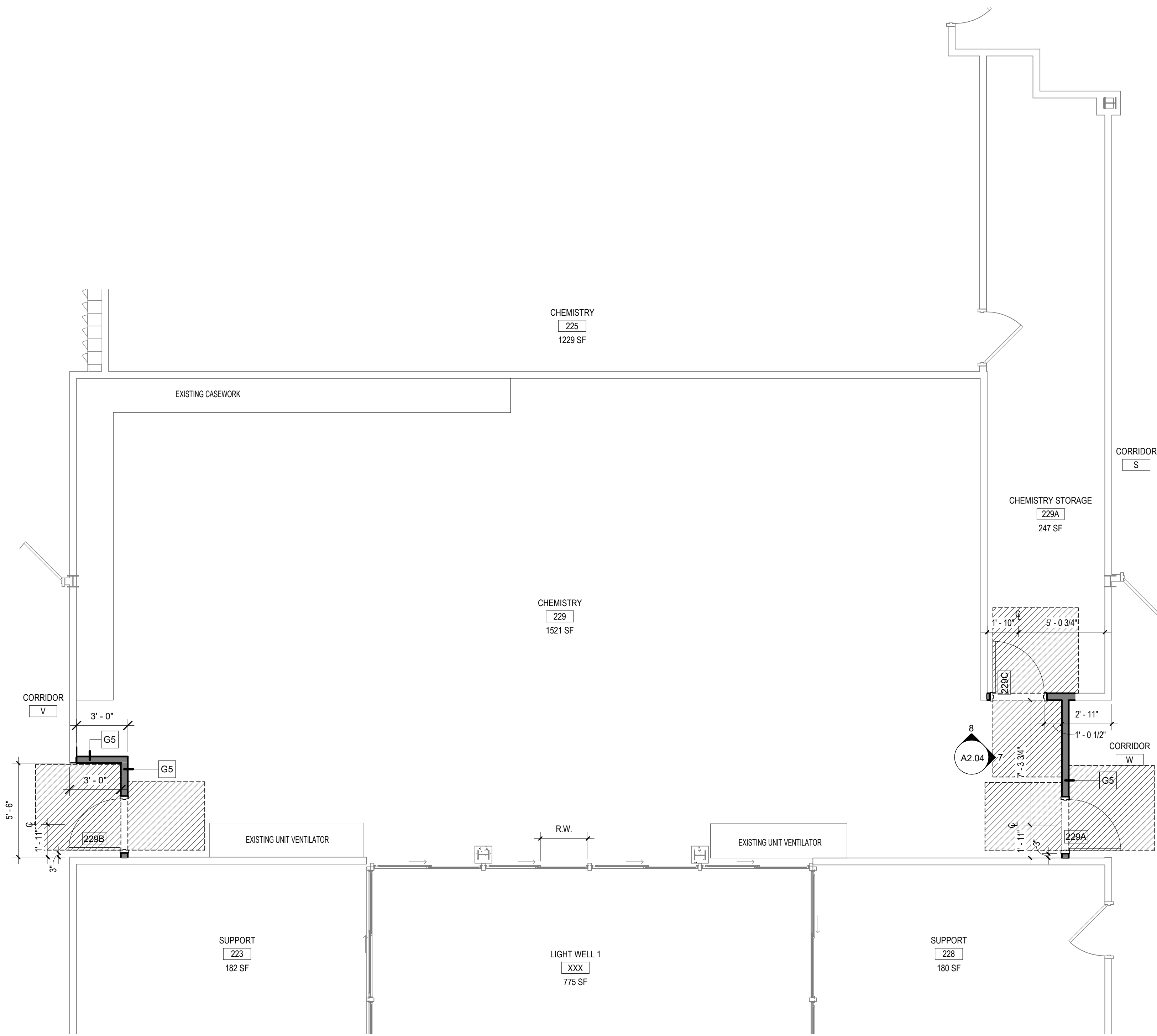
FILE NO. 21-274A

A2.03

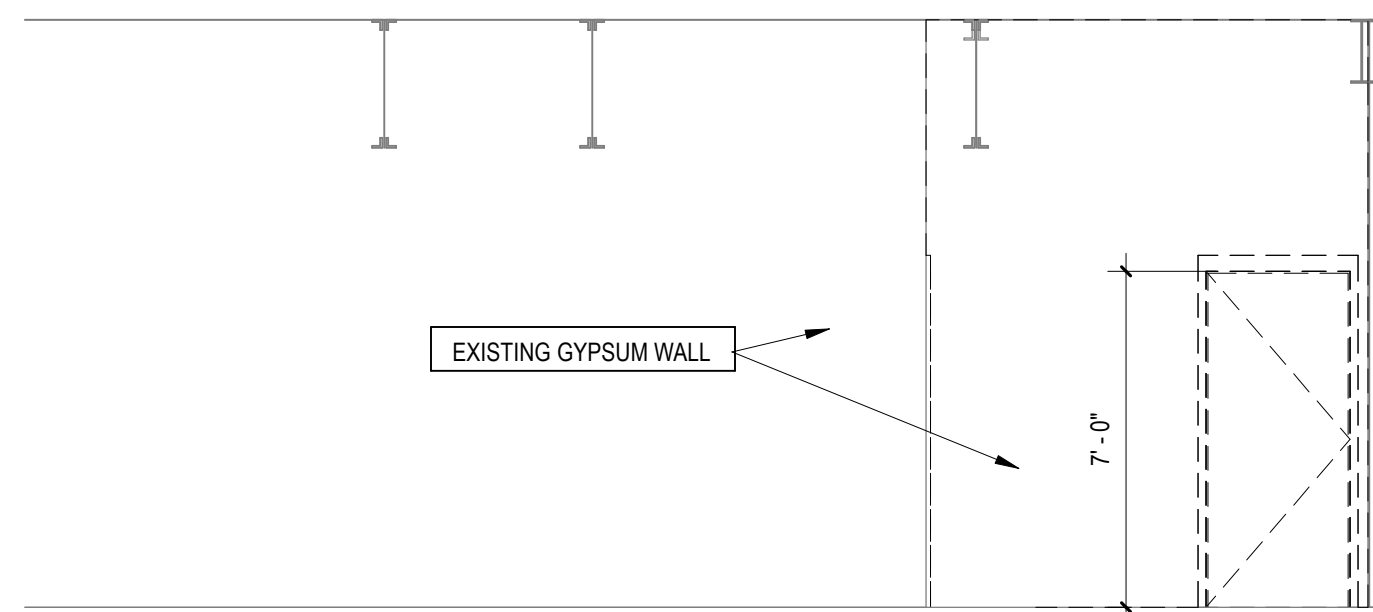
HSMS



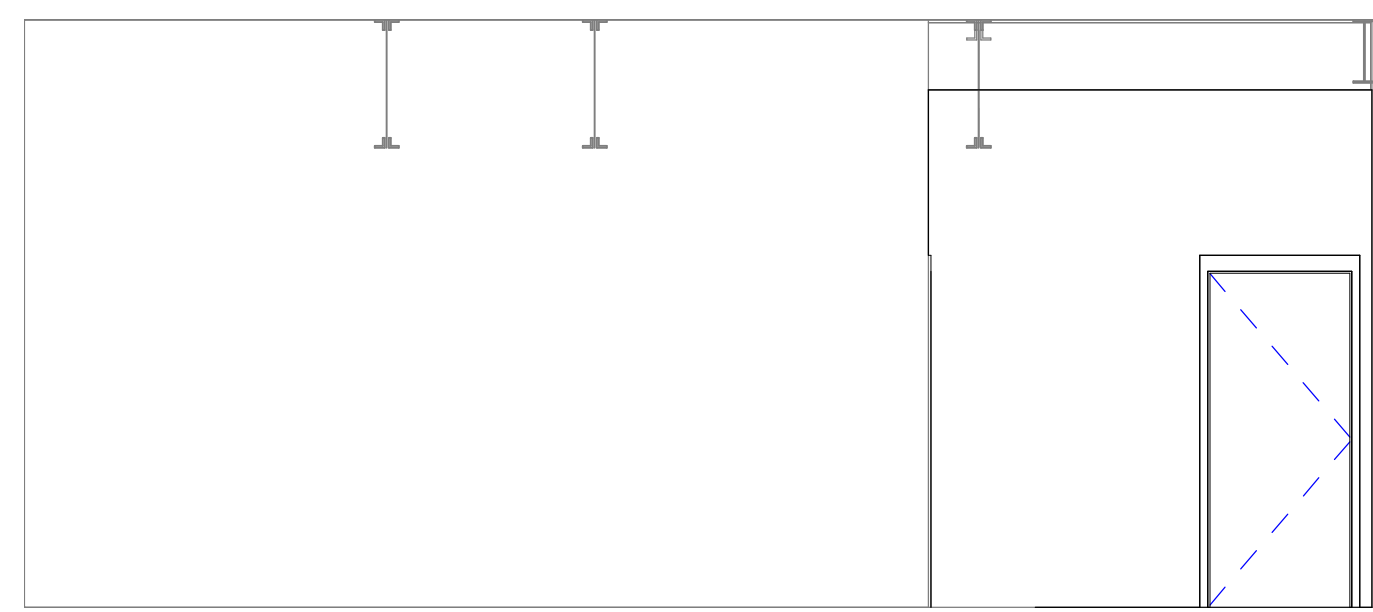
1 ENLARGED DEMOLITION PLAN - ROOM 229
SCALE: 1/4" = 1'-0"



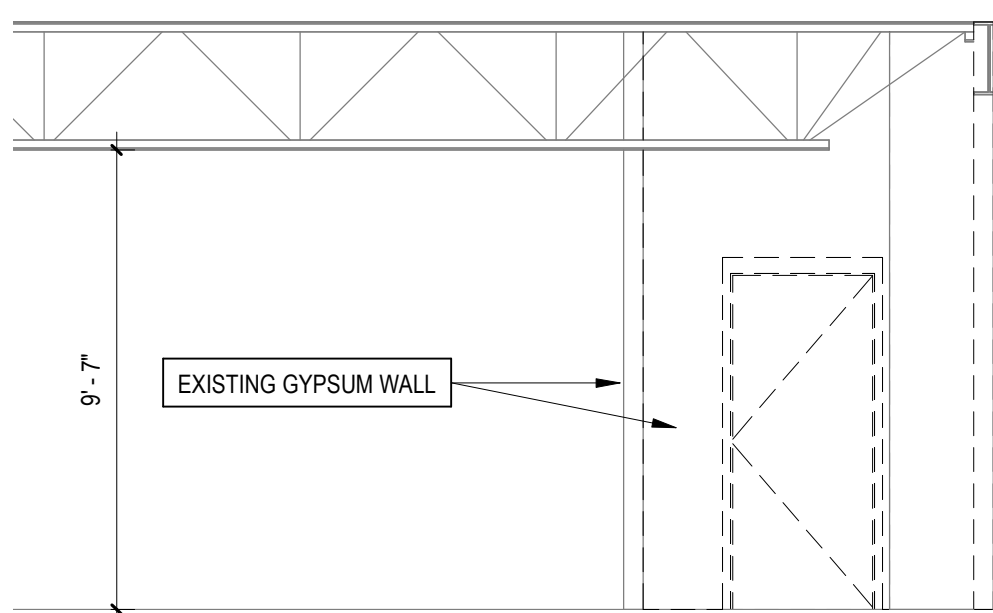
5 PROPOSED ENLARGED PLAN - ROOM 229
SCALE: 1/4" = 1'-0"



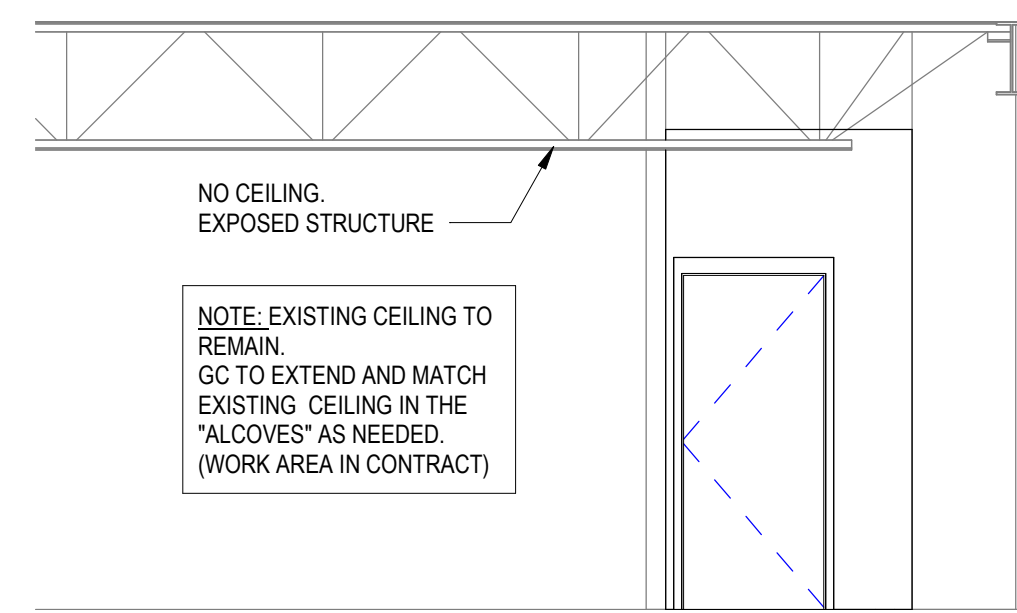
3 DEMOLITION ELEVATION - ROOM 229
SCALE: 1/4" = 1'-0"



7 PROPOSED ELEVATION - ROOM 229
SCALE: 1/4" = 1'-0"



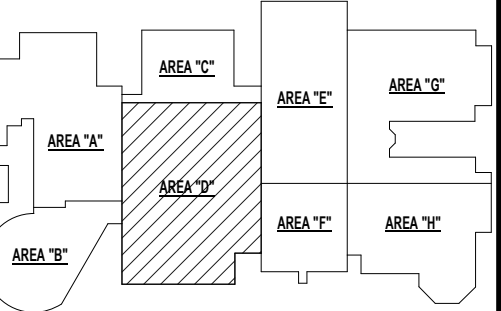
4 DEMOLITION ELEVATION - ROOM 229
SCALE: 1/4" = 1'-0"



8 PROPOSED ELEVATION - ROOM 229
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM
1	01/07/2022	SED ADDENDUM #1

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KEY PLAN
NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

PROJECT
DWG TITLE
SECOND FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS

DRWG. BY: E.P.S.
CHK. BY: G.E.O.

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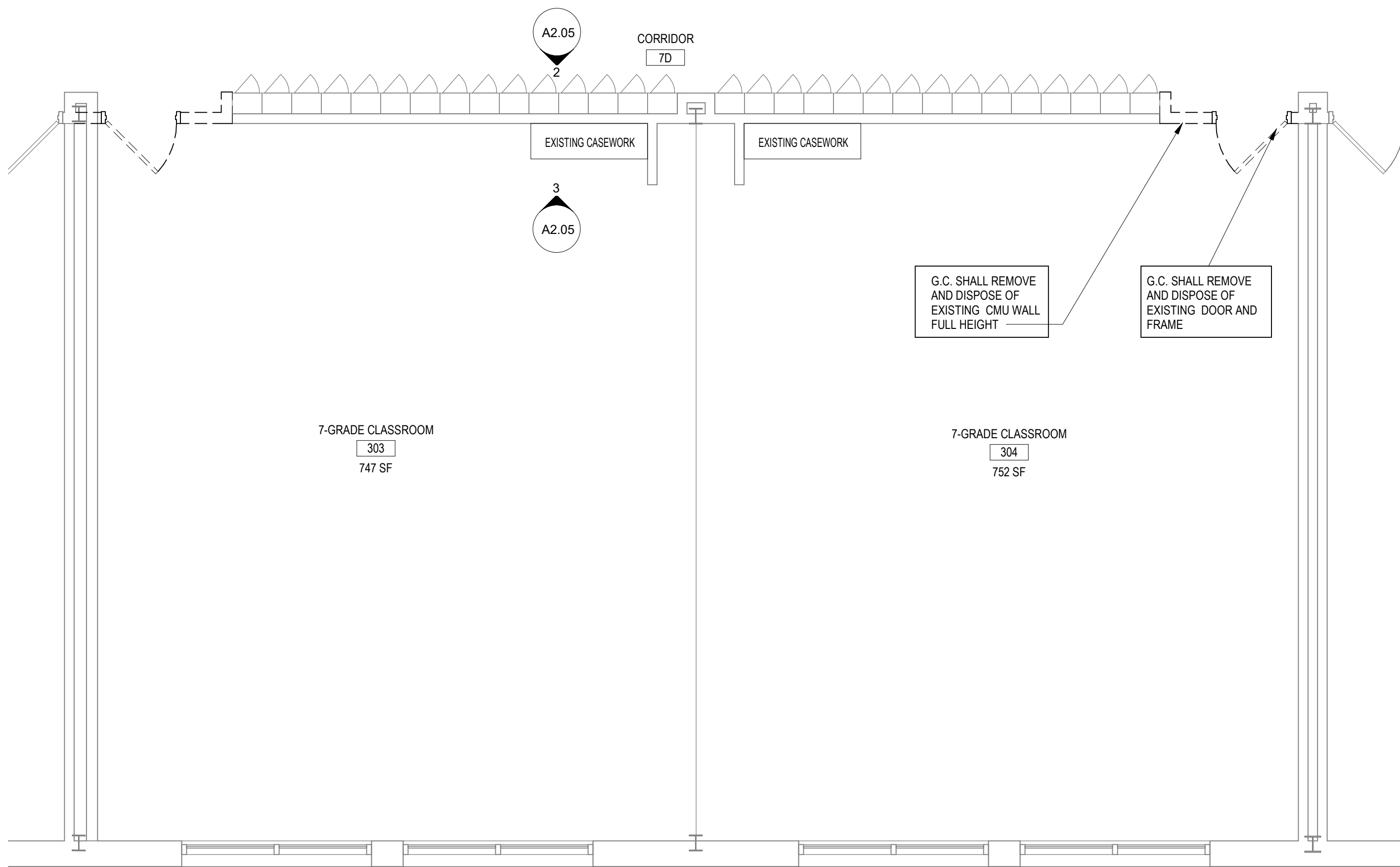
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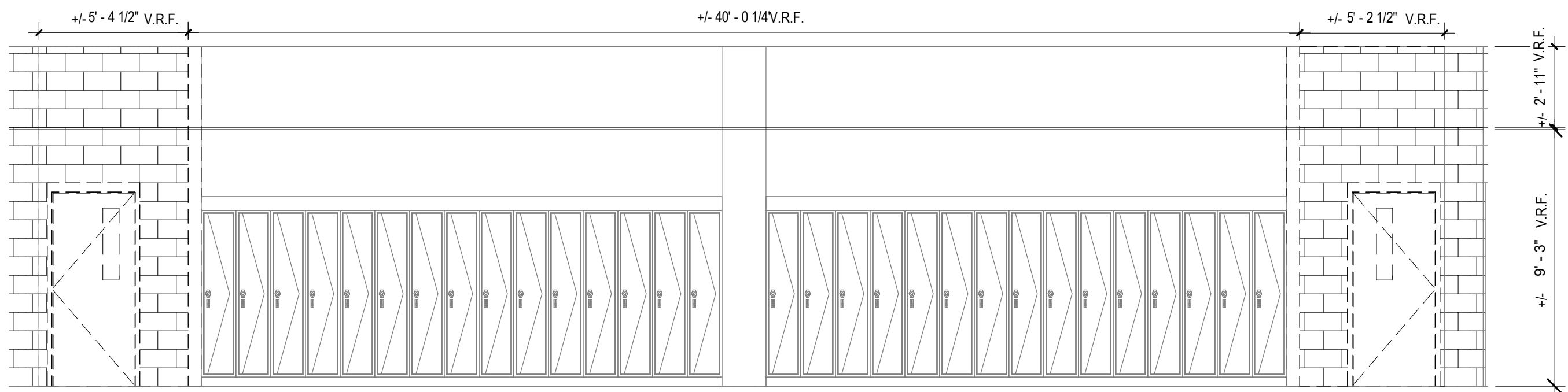
SED NO. 66-14-02-02-0-004-022
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 1 BOND IMPROVEMENTS
DWG TITLE SECOND FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS
SCALE: AS NOTED
DATE: 1/12/2022
BID PAU DATE: -
FILE NO. 21-274A

A2.04 **HSMS**



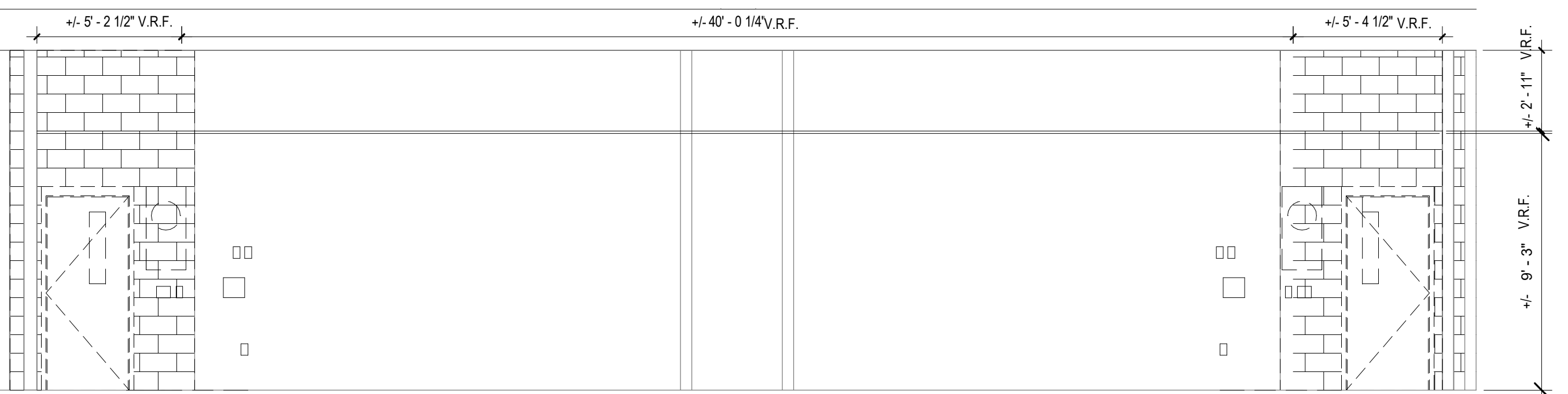
1 ENLARGED DEMOLITION PLAN -TYP. ROOMS 303, 304, 101, 102, 210, 209

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



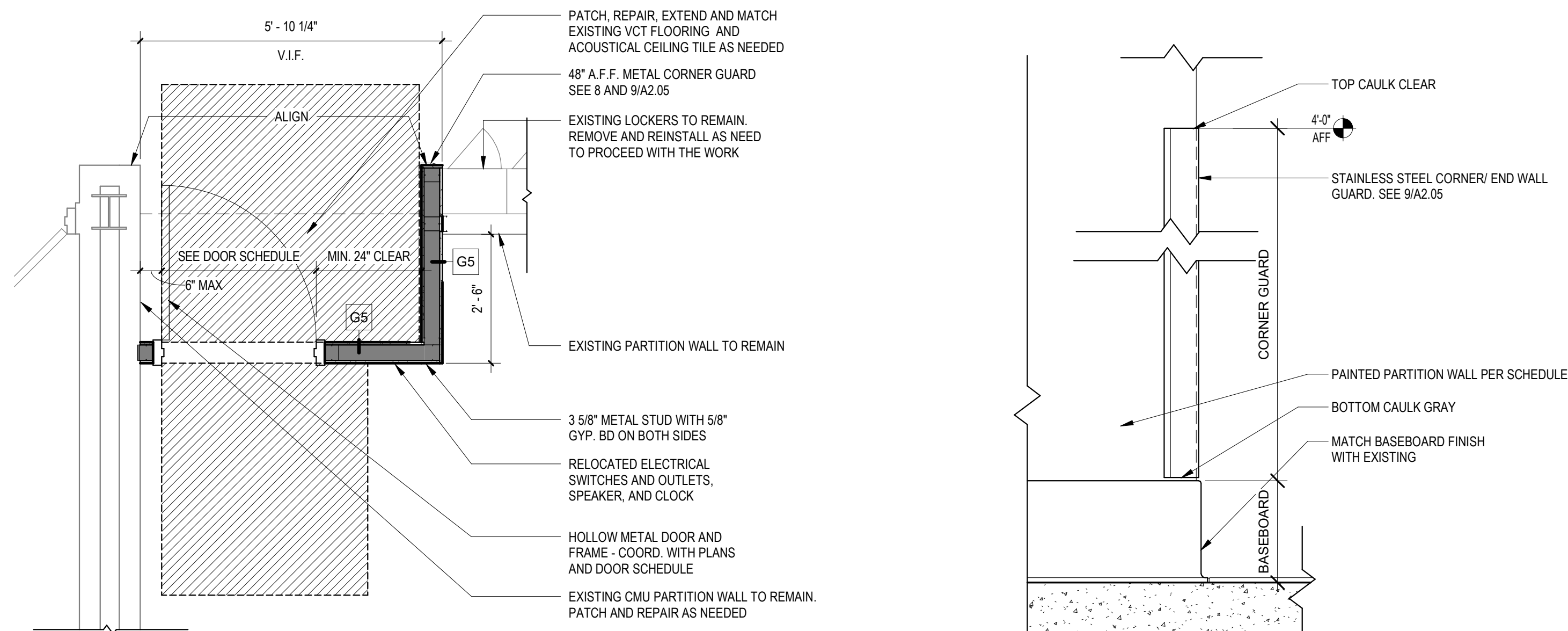
2 Elevation Classroom 303-304 DEMO

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



3 Interior Elevation Room 303-304 DEMO

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

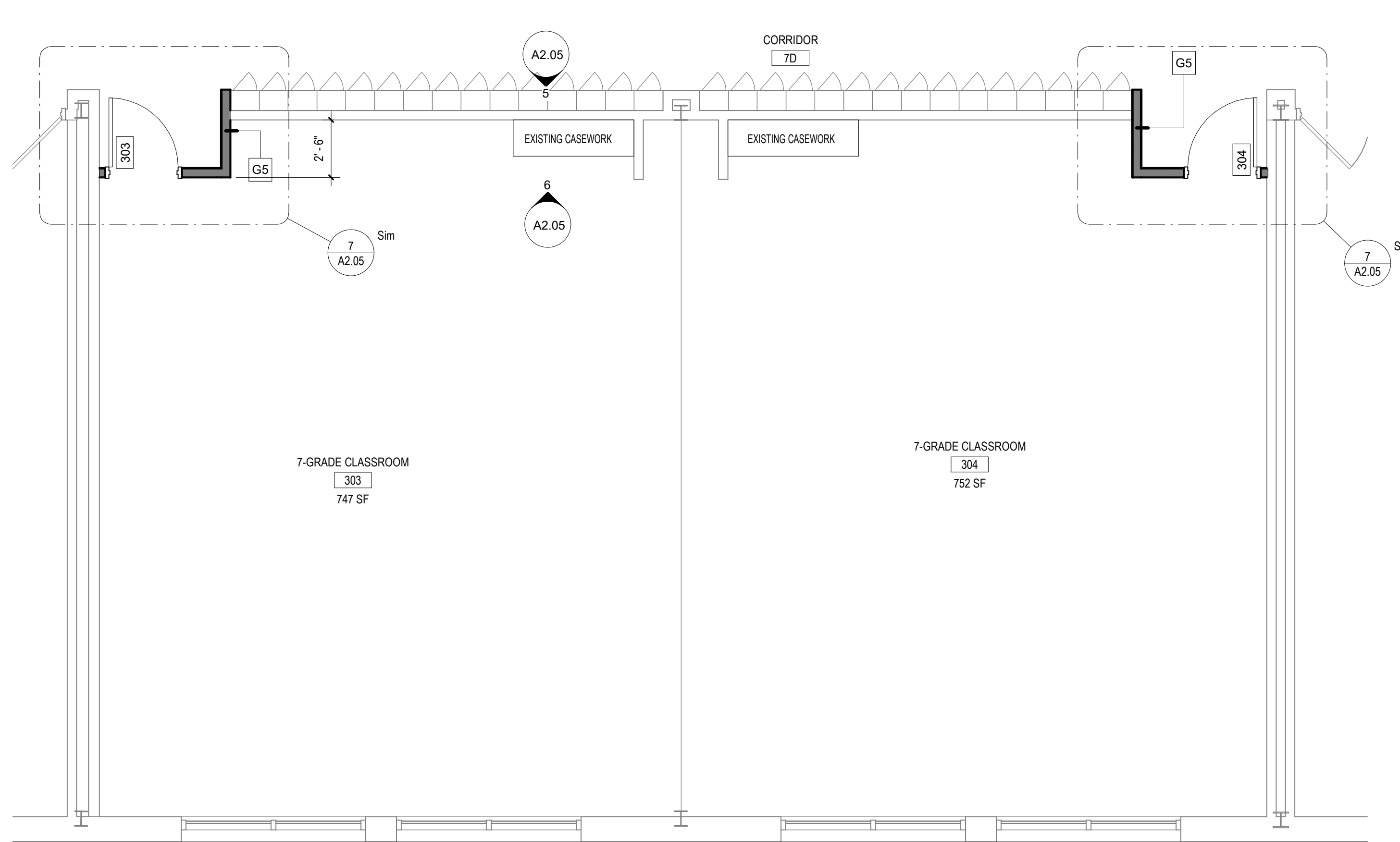


7 ENLARGED NEW MIDDLE SCHOOL ALCOVE DOOR (TYPICAL)

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

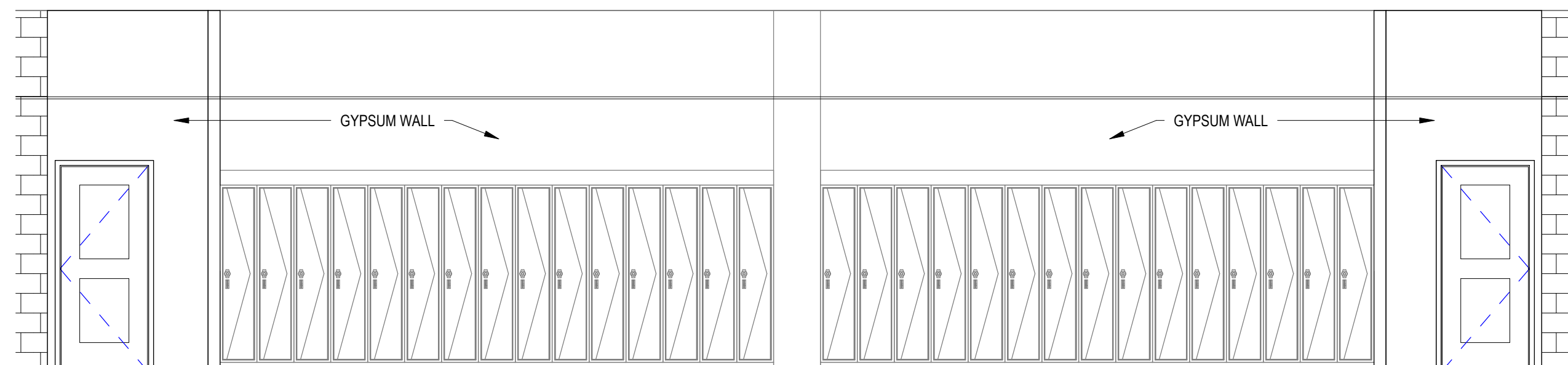
8 CORNER TRIM ELEVATION DETAIL @ CMU PARTITION

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



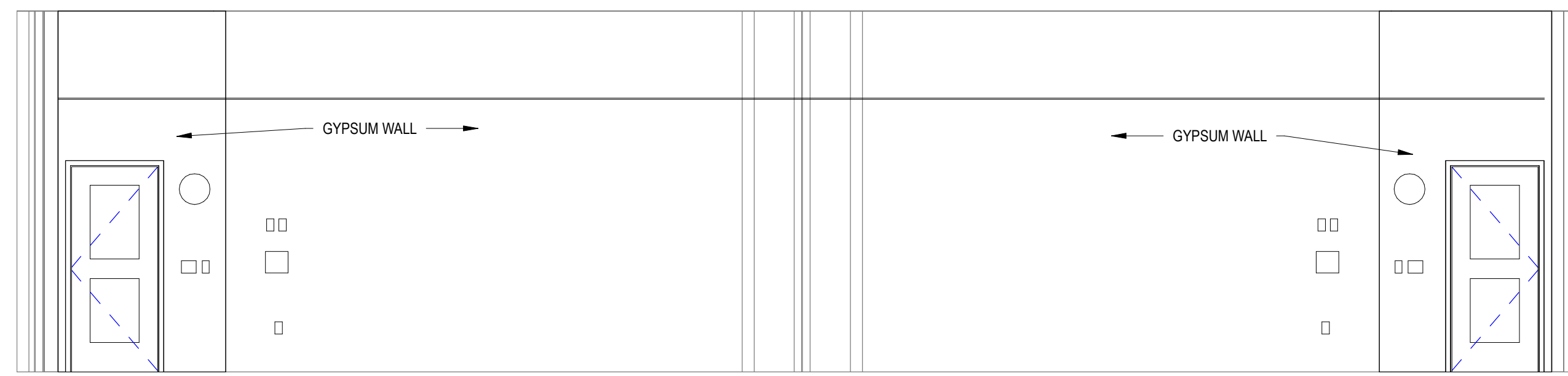
4 ENLARGED PROPOSED PLAN - TYP. ROOMS 303, 304, 101, 102, 210, 209

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



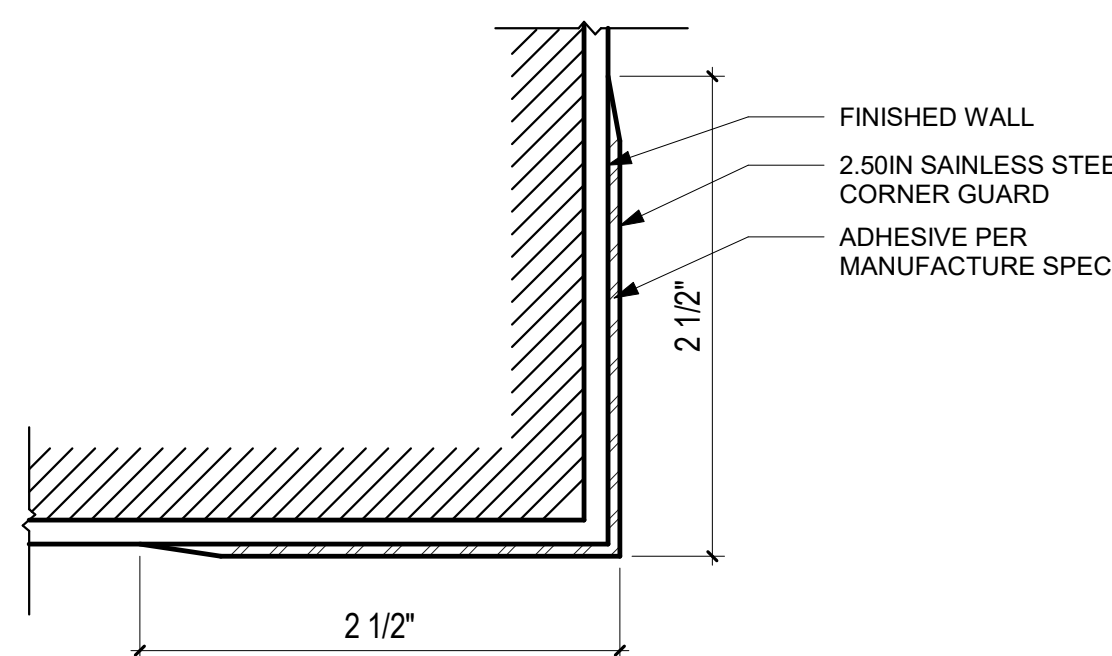
5 Elevation Proposed Classroom 303-304

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



6 Interior Elevation Room 303-304

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



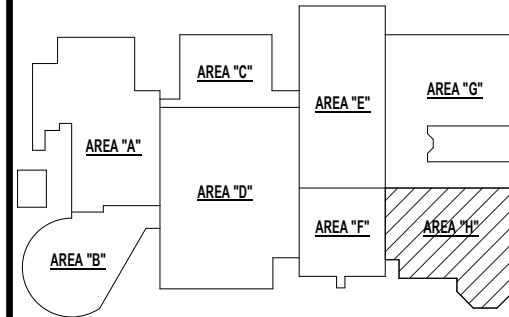
9 STAINLESS STEEL CORNER GUARD CG1

SCALE: 12" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NO SCALE

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PROJECT

DWG TITLE

DRWG. BY: E.P.S.
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DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 1 BOND IMPROVEMENTS

DWG TITLE SECOND FLOOR ENLARGED PLAN, ELEVATIONS & SECTIONS

SCALE: AS NOTED

DATE: 1/12/2022

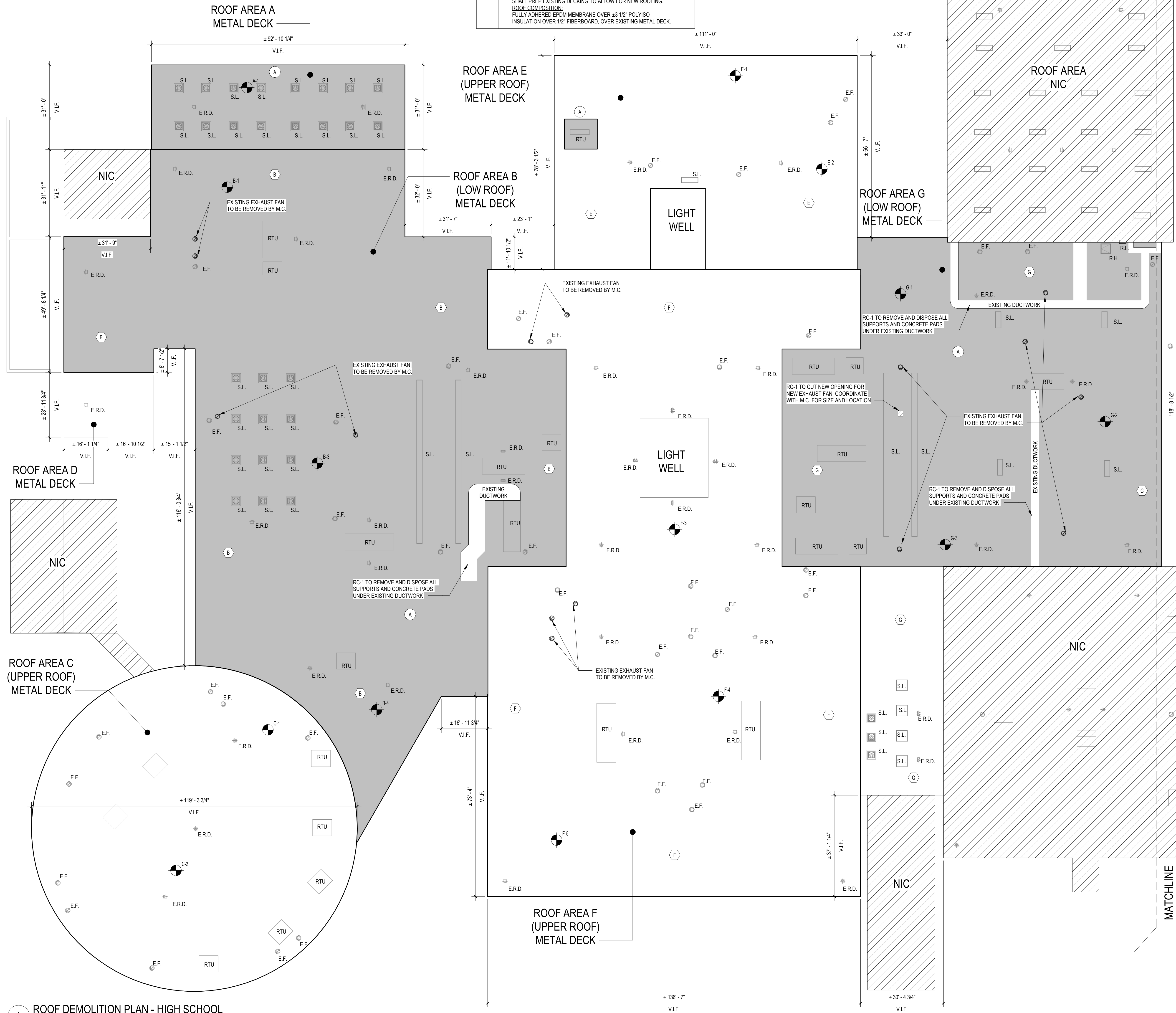
BID PAU DATE: -

FILE NO. 21-274A

A2.05 HSMS

EXISTING ROOF COMPOSITION AND REMOVAL SCHEDULE

ROOF AREA A: REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING METAL DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING. ROOF COMPOSITION: FULLY ADHERED EPDM MEMBRANE OVER ±3 1/2" POLYISO INSULATION OVER 1/2" FIBERBOARD, OVER EXISTING METAL DECK.	ROOF AREA E: REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING METAL DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING. ROOF COMPOSITION: FULLY ADHERED EPDM MEMBRANE OVER ±3 1/2" POLYISO INSULATION OVER 1/2" FIBERBOARD, OVER EXISTING METAL DECK.
ROOF AREA B: REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING METAL DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING. ROOF COMPOSITION: FULLY ADHERED EPDM MEMBRANE OVER ±3 1/2" POLYISO INSULATION OVER 1/2" FIBERBOARD, OVER EXISTING METAL DECK.	ROOF AREA F: REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING METAL DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING. ROOF COMPOSITION: FULLY ADHERED EPDM MEMBRANE OVER ±3 1/2" POLYISO INSULATION OVER 1/2" FIBERBOARD, OVER EXISTING METAL DECK.
ROOF AREA C: REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING METAL DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING. ROOF COMPOSITION: FULLY ADHERED EPDM MEMBRANE OVER ±3 1/2" POLYISO INSULATION OVER 1/2" FIBERBOARD, OVER EXISTING METAL DECK.	ROOF AREA G: REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING METAL DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING. ROOF COMPOSITION: FULLY ADHERED EPDM MEMBRANE OVER ±3 1/2" POLYISO INSULATION OVER 1/2" FIBERBOARD, OVER EXISTING METAL DECK.
ROOF AREA D: REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING METAL DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING. ROOF COMPOSITION: FULLY ADHERED EPDM MEMBRANE OVER ±3 1/2" POLYISO INSULATION OVER 1/2" FIBERBOARD, OVER EXISTING METAL DECK.	



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	(T.W.S.)	THRU-WALL SCUPPER TO REMAIN (U.O.N.)
(A101)	ELEVATION	(G.V.)	EXISTING GRAVITY VENTILATORS TO REMAIN (U.O.N.)
(A#)	INDICATES PHOTO LOCATION AND DIRECTION	(D.S.)	EXISTING DOWNSPOUT TO REMAIN (U.O.N.)
(R.T.U.)	EXISTING ROOFTOP MECHANICAL UNIT TO REMAIN (U.O.N.)	(S.L.)	EXISTING SKYLIGHT TO BE REMOVED AND DISPOSED OF TO ALLOW FOR NEW. REFER TO DETAIL A3.06 FOR ADD'L INFO.
(E.F.)	EXISTING EXHAUST FAN TO REMAIN (U.O.N.)	(S.H.)	EXISTING SMOKE HATCH TO REMAIN (U.O.N.)
(SLOPE)	INDICATES ROOF SLOPE. REFER TO DETAILS FOR ACTUAL SLOPE.	(CHIM. VENT)	FAUX CHIMNEY VENTILATOR OUTLETS TO REMAIN (U.O.N.)
(R.L.)	EXISTING ROOF LADDER 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.
(C.D.)	EXISTING ROOFTOP CONDENSER TO REMAIN (U.O.N.)		
(R.H.)	EXISTING ROOF HATCH TO REMAIN (U.O.N.)		

ASBESTOS/LEAD NOTES:

- TESTING OF ROOF SURFACES HAS DETERMINED THAT THERE ARE ASBESTOS CONTAINING BUILDING MATERIALS PRESENT.
 - THE RC-1 IS RESPONSIBLE FOR ALL ASBESTOS ABATEMENT AND LEAD CONSTRUCTION/REMOVAL WORK ASSOCIATED WITH ROOF. REFER TO DIVISION 2 SPECIFICATIONS FOR ASBESTOS ABATEMENT PROCEDURES.
 - ANY NON-ASBESTOS CONTAINING MATERIALS FOUND DURING DEMOLITION, MAY BE REMOVED AND DISPOSED OF BY NORMAL MEANS BY THE ROOF CONTRACTOR RC-1.
 - PRE CONSTRUCTION SAMPLING HAS BEEN PERFORMED BY WSP USA SOLUTIONS, INC. 500 SUMMIT LAKE DRIVE, SUITE 450 VALHALLA, NY 10985 (914) 747-1120 TEST RESULTS CAN BE FOUND IN THE PROJECT MANUAL IN "INFORMATION AVAILABLE TO BIDDERS"
- WSP HAS BEEN DESIGNATED AS THE OWNER'S PROJECT MONITOR FOR ALL ACTIVITIES CONDUCTED UNDER THIS CONTRACT. ALL QUESTIONS OR CONCERNS OF THE CONTRACTOR REGARDING SUSPECT MATERIALS, SURFACES, PROCEDURES AND ALL OTHER RELATED TOPICS SHALL BE PUT IN WRITING TO THE OWNER FOR DISTRIBUTION TO ALL APPLICABLE PARTIES.

ASBESTOS KEY NOTES:

- APPROXIMATE LOCATION OF ASBESTOS CONTAINING TAR OF AHU CURB (UNDER EPDM ROOFING)
- 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.

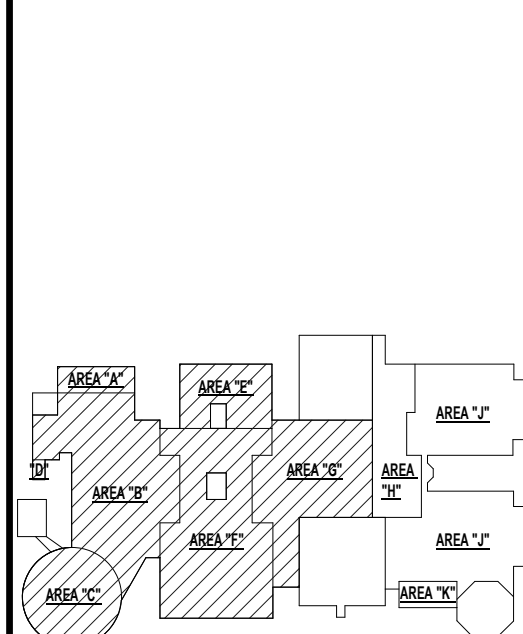
GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR ESTIMATING AND BIDDING PURPOSES.
- NOTE IF DISCREPANCIES ARE NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER DURING THE BIDDING PHASE OF THE PROJECT IT WILL BE THE UNDERSTANDING OF CONTRACTOR, ARCHITECT AND ENGINEER THAT ALL WORK IS CLEARLY INDICATED. IF QUESTIONS ARISE DURING THE CONSTRUCTION PHASE OF THE PROJECT THE CONTRACTOR WILL BE HELD TO THE DIRECTION OF THE ARCHITECT OR ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES. THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED AND PROTECTED DURING THE CONSTRUCTION PERIOD.
- ALL NEW WORK, MATERIALS, ASSEMBLIES, FORMS, METHODS OF CONSTRUCTION, SERVICE EQUIPMENT SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE STATE OF NY AND THE STATE EDUCATION DEPARTMENT.
- THE CONTRACTOR SHALL PROTECT THE AREA OF WORK FROM ANY INCLEMENT WEATHER THAT MAY OCCUR DURING THE WORK DAY AND AFTER DAILY OPERATIONS. THIS PROTECTION SHALL BE IN PLACE THROUGHOUT THE DURATION OF THE PROJECT, AS OUTLINED IN SPECIFICATION SECTION 01030.
- 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 WITH NO ADDITIONAL COST TO OWNER.
- ALL EXISTING (INTERIOR/ EXTERIOR) SURFACES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONDITIONS TO THE APPROVAL OF THE ARCHITECT AND OWNER.
- ALL CONTRACTORS SHALL COORDINATE THE PATHS OF CONSTRUCTION IN and AROUND THE FACILITY WITH THE OWNER.
- ALL DEMOLITION and CONSTRUCTION WORK TO BE PERFORMED WITHOUT INTERRUPTION OF OWNER DAILY OPERATIONS. IF INTERRUPTION IS NECESSARY, WORK MUST NOT PROCEED UNTIL WRITTEN APPROVAL HAS BEEN OBTAINED FROM OWNER. NOTE FINAL COORDINATION OF ALL AFTER HOURS WORK MUST BE PRE-APPROVED BY OWNER PRIOR TO COMMENCEMENT.
- ALL CONTRACTORS ARE TO COORDINATE THE INSTALLATION OF THEIR WORK WITH OTHER CONTRACTORS WORKING ON THE SAME PROJECT and/or WITH CONTRACTORS PERFORMING WORK UNDER SEPARATE CONTRACTS.
- ALL EXISTING VENTILATION DIFFUSERS AND GRILLS SHALL BE COVERED AND PROTECTED AGAINST ANY FOREIGN MATTER ENTERING THE SYSTEMS DURING CONSTRUCTION. THE CONTRACTOR MUST ALSO MAINTAIN ADEQUATE VENTILATION THROUGH OUT THE PROJECT.
- THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINANTS TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES.
- 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.
- ALL PROJECT WASTE MATERIAL AND RUBBISH TO BE DISPOSED IN CONTAINERS PROVIDED BY THE CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE OWNER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
- THE CONTRACTOR(S) SHALL ENFORCE STRICT DISCIPLINE and GOOD ORDER AMONG THE CONTRACTORS EMPLOYEES AND OTHER PERSONS CARRYING OUT THE CONTRACT. THE CONTRACTOR(S) SHALL NOT PERMIT EMPLOYMENT OF UNFIT PERSONS OR PERSONS NOT SKILLED IN THE TASK ASSIGNED TO THEM. ALL IN ACCORDANCE WITH PROJECT MANUAL SECTION - CONDITIONS OF THE CONTRACT.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NO SCALE

BRIARCLIFF MANOR U.F.S.D.
PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

ROOF DEMOLITION PLAN - HIGH SCHOOL

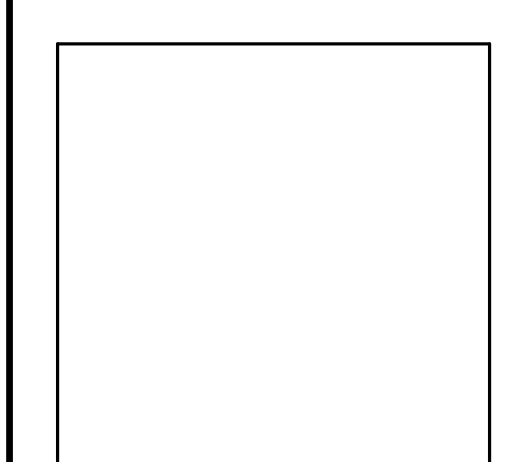
PROJECT

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

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SED NO. 66-14-02-02-0-004-022
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 1 BOND IMPROVEMENTS
DWG TITLE ROOF DEMOLITION PLAN - HIGH SCHOOL
SCALE: AS NOTED
DATE: 1/18/2022
BID PAU DATE: -
FILE NO. 21-274A

A3.01 HSMS



2

ROOF DEMOLITION PLAN - MIDDLE SCHOOL

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

ROOF AREA 11'
REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING CONCRETE DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING.
ROOF COMPOSITION:
FULLY ADHERED EPDM MEMBRANE OVER $\pm 3 \frac{1}{2}"$ POLYISO INSULATION OVER $\frac{1}{2}"$ FIBERBOARD, OVER EXISTING CONCRETE DECK.

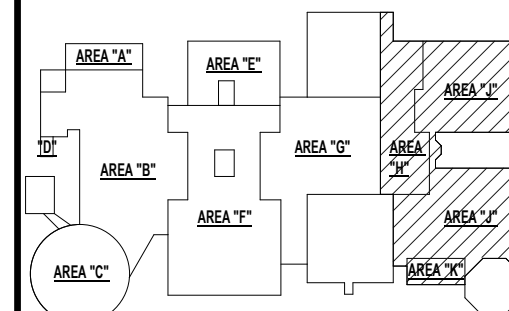
ROOF AREA 'J'
REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND FIBERBOARD DOWN TO EXISTING METAL DECK SUBSTRATE. G.C. SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING.
ROOF COMPOSITION:
FULLY ADHERED EPDM MEMBRANE OVER $\pm 3 \frac{1}{2}$ " POLYISO INSULATION OVER $\frac{1}{2}$ " FIBERBOARD, OVER EXISTING METAL DECK.

ROOF AREA 'K':
REMOVE EXISTING EPDM MEMBRANE, POLYISO INSULATION, AND
FIBERBOARD DOWN TO EXISTING CONCRETE DECK SUBSTRATE. G.C.
SHALL PREP EXISTING DECKING TO ALLOW FOR NEW ROOFING.
ROOF COMPOSITION:
FULLY ADHERED EPDM MEMBRANE OVER $\pm 3 \frac{1}{2}$ " POLYISO INSULATION
OVER $\frac{1}{2}$ " FIBERBOARD, OVER EXISTING CONCRETE DECK.

[illegible]

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KEY PLAN

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PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD, BRIARCLIFF MANOR, NY 10510

ROOF DEMOLITION PLAN - MIDDLE SCHOOL

ROOF DEMOLITION PLAN - MIDDLE SCHOOL

PROJECT

EWING

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

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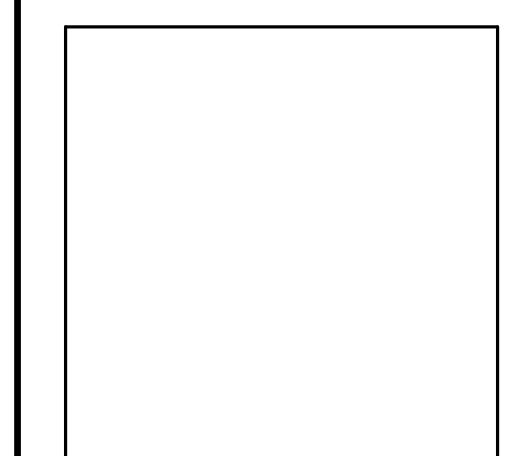
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DISTRICT BRIARCLIFF MANOR U.F.S.D.

PROJECT PHASE 1 BOND IMPROVEMENTS

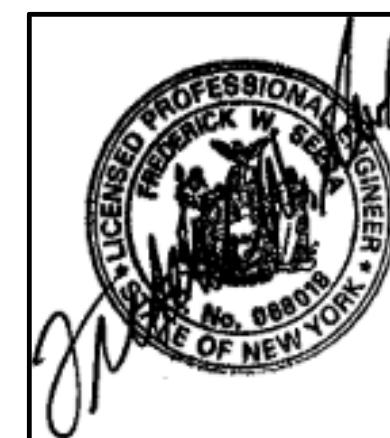
DWG TITLE	ROOF DEMOLITION PLAN - MIDDLE SCHOOL
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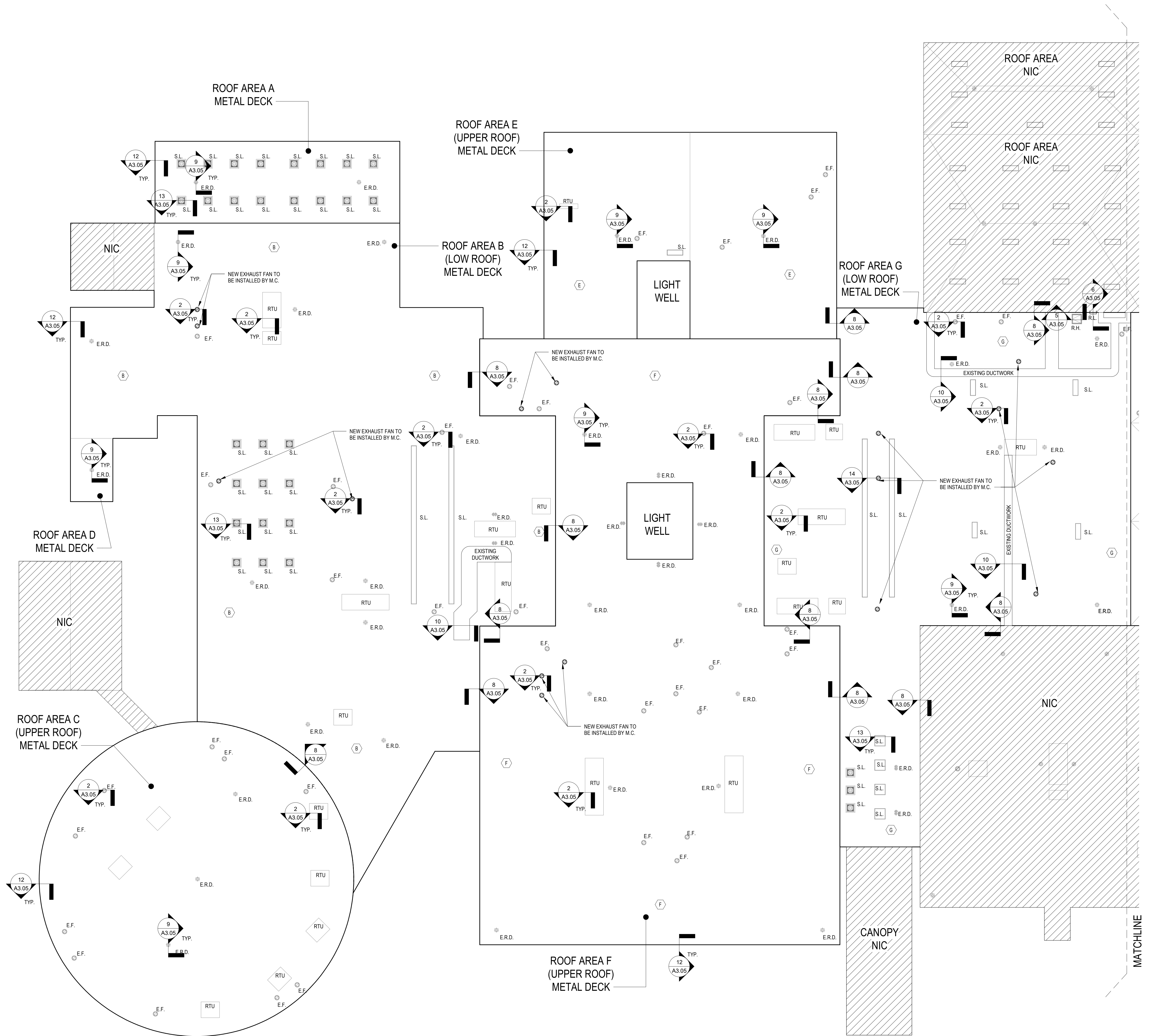
SCALE: AS NOTED

BID P/U DATE: -

FILE NO. 21-274A

A3.02	HSMS
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1 ROOF PROPOSED PLAN - HIGH SCHOOL
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

- ALL NEW FLAT ROOFING SHALL BE TPO ROOF SYSTEM. REFER TO SPEC. SECTION 07534 FOR ADDITIONAL INFORMATION.
- 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.
- 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. 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 DETAIL. REFER TO TAPERED LAYOUT DRAWING FOR TAPERED HEIGHT REQUIREMENTS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO START OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR ESTIMATING.
- CONTRACTOR TO PROTECT AND MAKE WATER TIGHT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
- 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.
- 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:
- CONFORM TO APPLICABLE CODES FOR ROOF ASSEMBLY FIRE HAZARD REQUIREMENTS.
 - FACTORY MUTUAL ENGINEERING AND RESEARCH CORP. (FM):
 - ROOF ASSEMBLY CLASSIFICATION OF CLASS "C" CONSTRUCTION, WIND UPLIFT REQUIREMENTS OF I-135 IN ACCORDANCE WITH FM CONSTRUCTION BULLETIN 1-28.
 - CONTACT ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE FOR ADD. INFO.
 - UNDERWRITERS LABORATORIES, INC. (UL) - CLASS "A" FIRE HAZARD CLASSIFICATION.

WOOD BLOCKING & PERIMETER EDGE NOTES:

- 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.
- THE DETAILS SHOWN MAY NOT DEPICT THE REQUIRED HEIGHT OF BLOCKING REQUIRED AND REPRESENT THE INTENT OF THE DETAIL AT THIS CONDITION.
- 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.
- 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:

- 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 ROOF TOP EQUIPMENT AND PENETRATIONS.
- 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:

- REFER TO SPECIFICATIONS FOR COMPLETE DESCRIPTION OF ROOF ASSEMBLY AND COMPONENTS.
- COLOR AND FINISH OF ALL ALUMINUM COPINGS, FASCIAS AND "J" COVERS TO BE SELECTED BY ARCHITECT.
- G.C. SHALL PROVIDE ADDITIONAL CRICKETS / SLOPE AS REQUIRED TO ENSURE PROPER DRAINAGE SLOPE.
- 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.
- ALL NEW ROOF TOP 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 SS-02. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND LOCATIONS.
- G.C. SHALL ALSO PROVIDE ALL PENETRATIONS AND FLASHING REQUIRED FOR ALL PLUMBING VENTS AND DRAINS. SEE PLUMBING DRAWINGS FOR COORDINATION.
- REFER TO ROOF DETAILS AND WALL SECTIONS FOR OTHER DETAILS NOT SHOWN.
- 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.

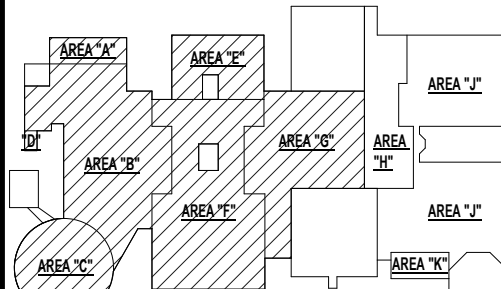
LEGEND

- RTU-XX — NEW ROOF TOP HVAC EQUIPMENT
- NEF — NEW ROOF TOP EXHAUST FAN LOCATION
- SLOPE — INDICATES ROOF DECK PITCH TO DRAINS
- N.R.D. — NEW ROOF & OVERFLOW DRAIN
- N.R.D. — NEW ROOF DRAIN
- N.V.T.R. — NEW ROOF PLUMBING VENT
- H.P. — HIGH POINT (ROOF)
- L.P. — LOW POINT (ROOF)
- TAPERED INSULATION
- PROPOSED EPDM WALKWAY PADS OVER NEW ROOFING

REV.	DATE	ITEM

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KEY PLAN
NO SCALE

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PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

PROJECT

DWG/TITLE

DRWG. BY: C.M.
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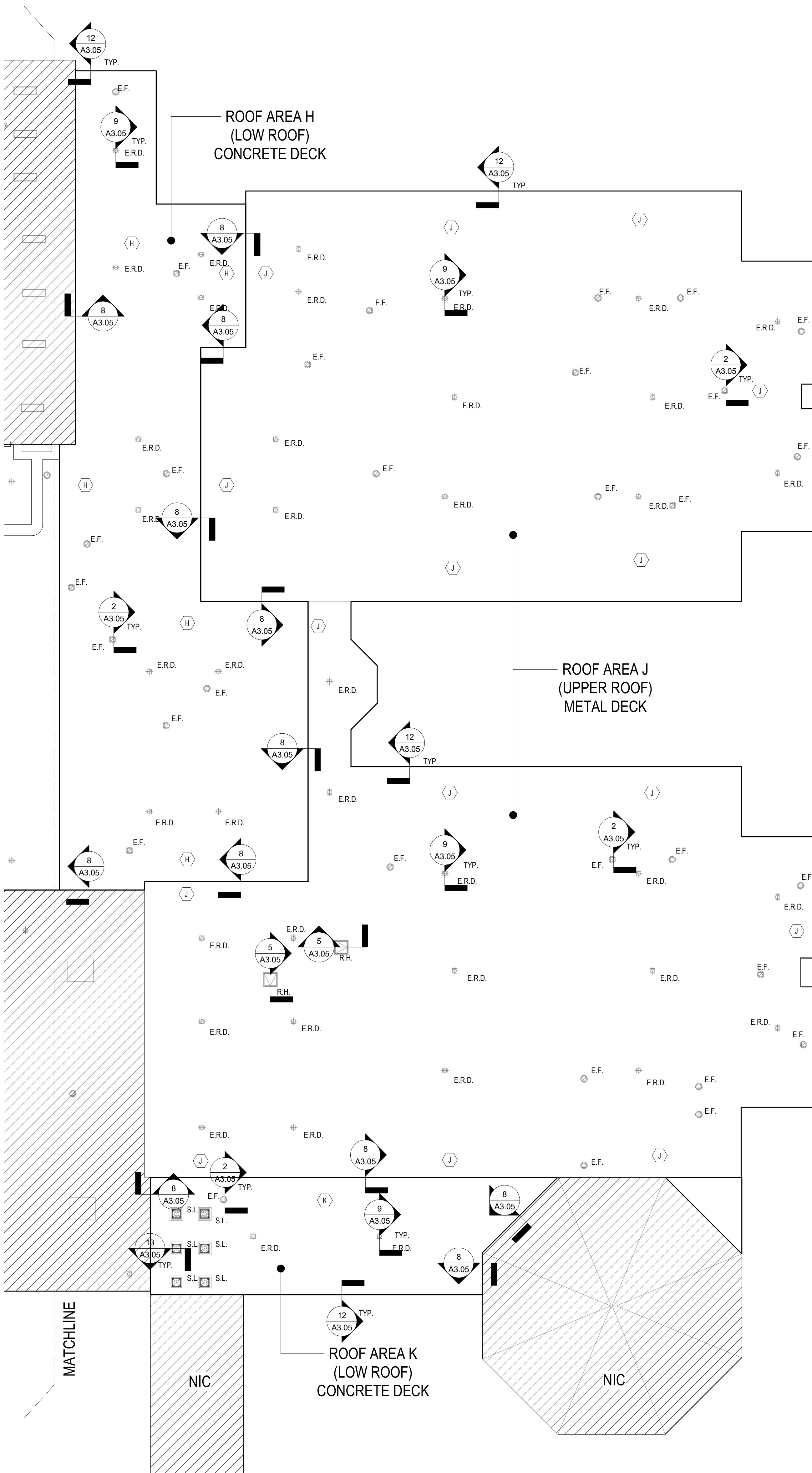
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DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 1 BOND IMPROVEMENTS
DWG. TITLE ROOF PROPOSED PLAN - HIGH SCHOOL
SCALE: AS NOTED
DATE: 1/18/2022
BID P/L DATE: -
FILE NO. 21-274A

A3.03 HSMS



2 ROOF PROPOSED PLAN - MIDDLE SCHOOL
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

- ALL NEW FLAT ROOFING SHALL BE TPO ROOF SYSTEM. REFER TO SPEC. SECTION 07534 FOR ADDITIONAL INFORMATION.
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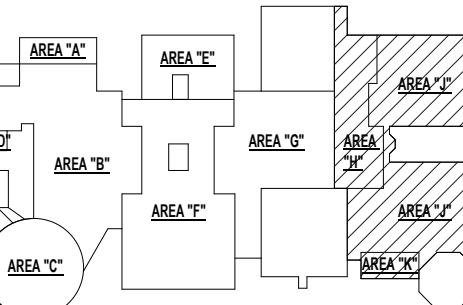
LEGEND

- | | |
|----------|---|
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ROOF PROPOSED PLAN - MIDDLE SCHOOL

PROJECT

DWG/TITLE

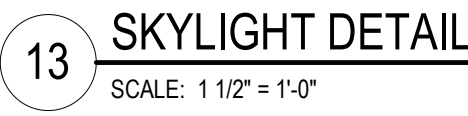
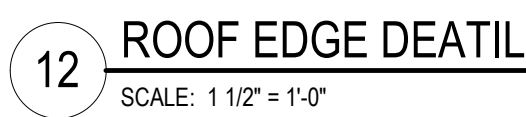
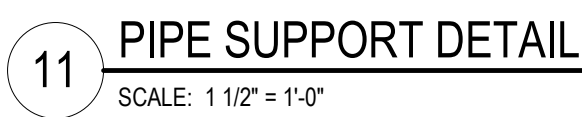
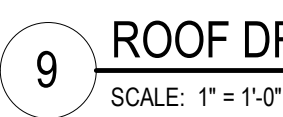
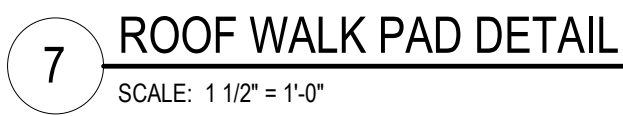
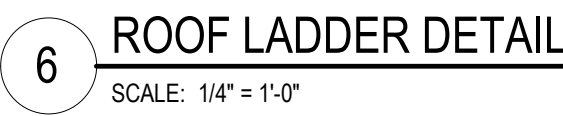
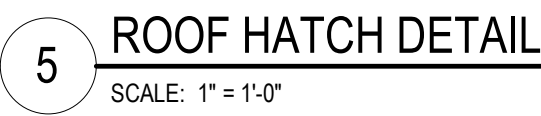
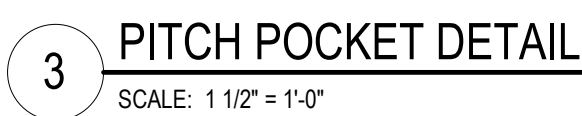
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SER. NO. 66-14-02-02-0-004-022
DISTRICT BRIARCLIFF MANOR U.F.S.D.
PROJECT PHASE 1 BOND IMPROVEMENTS
DWG. TITLE ROOF PROPOSED PLAN - MIDDLE SCHOOL
SCALE: AS NOTED
DATE: 1/18/2022
BID P&I DATE: -
FILE NO. 21-274A

A3.04 HSMS



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BRIARCLIFF MANOR U.F.S.D.
PHASE 1 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE / HIGH SCHOOL

ROOF DETAILS

10

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

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PROJECT PHASE 1 BOND IMPROVEMENTS

DWG TITLE ROOF DETAILS

SCALE: _____ AS NOTED

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A3.05

HSMS

ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
B.D.	BACKDRAFT DAMPER
CFM	CUBIC FEET OF AIR PER MINUTE
D.	DEEP / DEPTH
DIA./	DIAMETER
FPM	FEET PER MINUTE
FLEX.	FLEXIBLE
H.	HIGH
H.C.	HANDICAPPED
HP	HORSEPOWER
I.D.	INSIDE DIAMETER
KW.	KILOWATT
L	LONG
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MIN.	MINIMUM
MFR.	MANUFACTURER
MISC.	MISCELLANEOUS
MTD.	MOUNTED
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.C.	ON CENTER
PE.	PNEUMATIC / ELECTRIC
PREFAB.	PREFABRICATED
PSI	POUNDS PER SQUARE INCH
REQ'D	REQUIRED
RPM	REVOLUTIONS PER MINUTE
SCH.	SCHEDULE
S.P.	STATIC PRESSURE
STD.	STANDARD
T	TEMPERATURE
TYP.	TYPICAL
VOL.	VOLUME
V.D.	VOLUME DAMPER
VEL.	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W.	WIDE
W/.	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE

GENERAL NOTES:

- 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.
- 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.
- 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.
- 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.
- 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 155111 FOR FURTHER DETAILS.
- 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 CONTRACTORS COST AS A PART OF THIS CONTRACT.
- 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 OWNERS REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTORS COST.
- CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
- 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.
- PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
- 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.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
- PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
- 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.
- 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.
- 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.
- 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.
- MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PIECE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PIECE 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 PIECE OF EQUIPMENT USED.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	RECTANGULAR GALVANIZED DUCTWORK - DIMENSIONS W' x 'H'
	NEW EXHAUST DUCTWORK TO RISE UP
	NEW EXHAUST DUCTWORK TO DROP DOWN
	TRANSITION IN DUCTWORK
	ELBOW IN DUCTWORK w/ TURNING VANES
	ELBOW IN DUCTWORK (RADIUS = 1.5 x D)
	45 DEG. TAKEOFF FITTING
	90 DEG. TAKEOFF w/ BELLMOUTH FITTING
	CEILING RETURN AIR REGISTER
	ROOF MOUNTED EXHAUST FAN

DUCTWORK NOTES:

- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, AND IN CONFORMANCE WITH SMACNA SPECIFICATIONS.
- 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.
- 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.
- MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOOKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
- MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

LOCK OUT-TAG OUT NOTIFICATION:

- IN ACCORDANCE WITH OSHA REGULATIONS - ALL CONTRACTORS MUST PROPERLY LOCK-OUT & TAG-OUT ALL ELECTRICAL EQUIPMENT THEY ARE WORKING ON, PRIOR TO DISMANTLING FOR SERVICE OR CLEANING.

CONTRACTOR ABBREVIATIONS:

M.C. = MECHANICAL CONTRACTOR	P.C. = PLUMBING CONTRACTOR
C.C. = CONTROLS CONTRACTOR	E.C. = ELECTRICAL CONTRACTOR
G.C. = GENERAL CONTRACTOR	C.W.C. = CASEWORK CONTRACTOR
R.C. = ROOFING CONTRACTOR	

ROOFING CONSTRUCTION NOTES:

- ALL EXISTING DIMENSIONS AND CONDITIONS ARE APPROXIMATE. MECHANICAL CONTRACTORS MUST FIELD VERIFY ALL CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR BIDDING AND ESTIMATING. PRE-BID SITE INSPECTION IS STRONGLY RECOMMENDED. ALL CONTRACTORS SHALL CONTACT THE SCHOOL TO MAKE AN APPOINTMENT FOR SITE VISIT. UNDER NO CIRCUMSTANCES WILL ANY CONTRACTOR BE ALLOWED TO SHOW UP WITHOUT AN APPOINTMENT.
- IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE MAINTAINED AS CLEAR, AND PROTECTED DURING THE ENTIRE CONSTRUCTION PERIOD.
- ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE MECHANICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE OWNER, AND MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO THE OWNER.
- THE MECHANICAL CONTRACTOR IS TO PROTECT AND MAKE WATER TIGHT ALL AREAS OF HIS WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF EVERY DAY OF WORK OPERATIONS.
- ALL PROJECT WASTE MATERIAL AND RUBBISH GENERATED BY THE MECHANICAL CONTRACTOR AND / OR HIS SUB-CONTRACTORS SHALL BE DISPOSED IN CONTAINERS FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH BUILDINGS AND GROUNDS. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
- ALL FLASHING ON MECHANICALS MUST BE INSTALLED AT A DISTANCE ABOVE THE FINISHED ROOF SURFACE TO INSURE CONFORMANCE WITH ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS. INCLUSIVE OF ALL CONDITIONS, NO EXCEPTIONS WILL BE MADE.
- THE ROOFING CONTRACTOR SHALL BE SURE TO MAINTAIN ANY/ALL EXISTING ROOFING WARRANTY IN PLACE AT THOSE ROOFS WHICH CUTTING, PATCHING AND RE-FLASHING IS REQUIRED. THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY & ALL REPAIRS TO EXISTING ROOFING SYSTEM AS REQUIRED TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND SHALL MAINTAIN ALL EXISTING WARRANTIES.
- THE ROOFING CONTRACTOR (R.C.) SHALL BE RESPONSIBLE FOR ALL NEW ROOF PENETRATIONS FOR NEW MECHANICAL UNITS ON EXISTING ROOF. R.C. SHALL COORDINATE SETTING OF CURBS WITH THE MECHANICAL CONTRACTOR (M.C.) AND R.C. SHALL BE RESPONSIBLE FOR ALL PATCHING/FLASHING OF EXISTING ROOF. THE MECHANICAL CONTRACTOR SHALL USE CERTIFIED ROOF INSTALLER AS APPROVED BY MANUFACTURER OF EXISTING ROOF AS TO NOT VOID EXISTING ROOF WARRANTY. COORDINATE WITH OWNER.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION OF ALL MECHANICAL UNITS EQUIPMENT WITH ALL OTHER TRADES.
- ALL WALL & FLOOR PENETRATIONS SHALL BE DONE BY GENERAL CONTRACTOR WITH MECHANICAL CONTRACTOR PRESENT.

GENERAL NOTES FOR ALL ROOFTOP EQUIPMENT:

- PROVIDE DISCONNECT SWITCH FOR EACH NEW EQUIPMENT.
- R.C. SHALL MAKE ALL ROOF PENETRATIONS IN THE PRESENCE OF THE MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL FURNISH NEW ROOF CURBS TO R.C. R.C. SHALL CUT HOLES IN ROOF IN PRESENCE OF M.C. AND R.C. SHALL INSTALL NEW ROOF CURBS IN THE PRESENCE OF THE CERTIFIED M.C. R.C. SHALL BE RESPONSIBLE FOR FLASHING ALL NEW ROOF CURBS. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS OF FLASHING ROOF CURBS.

GENERAL MECHANICAL NOTES:

- PROVIDE AND INSTALL 2" ACOUSTIC FIBERGLASS 3-LBS. DENSITY WITHIN ROOF CURBS AND ADAPTER ROOF CURBS.
- ALL DISCONNECT SWITCHES AND STARTERS TO BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY THE ELECTRICIAN.
- DUCT SIZE DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
- CONTROLS CONTRACTOR SHALL FURNISH ALL CONTROLS EQUIPMENT AND PROVIDE TO MECHANICAL CONTRACTOR TO INSTALL. CONTROLS CONTRACTOR SHALL WIRE ALL CONTROLS EQUIPMENT.
- UNLESS OTHERWISE NOTED, THE GENERAL CONTRACTOR (G.C.) SHALL MAKE ALL INTERIOR WALL, CEILING, & FLOOR PENETRATIONS FOR PIPING & DUCTWORK. M.C. SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES. M.C. SHALL BE PRESENT WHEN G.C. MAKES PENETRATIONS FOR ALL MECHANICAL PIPING & DUCTWORK.

GENERAL EXHAUST FAN NOTES:

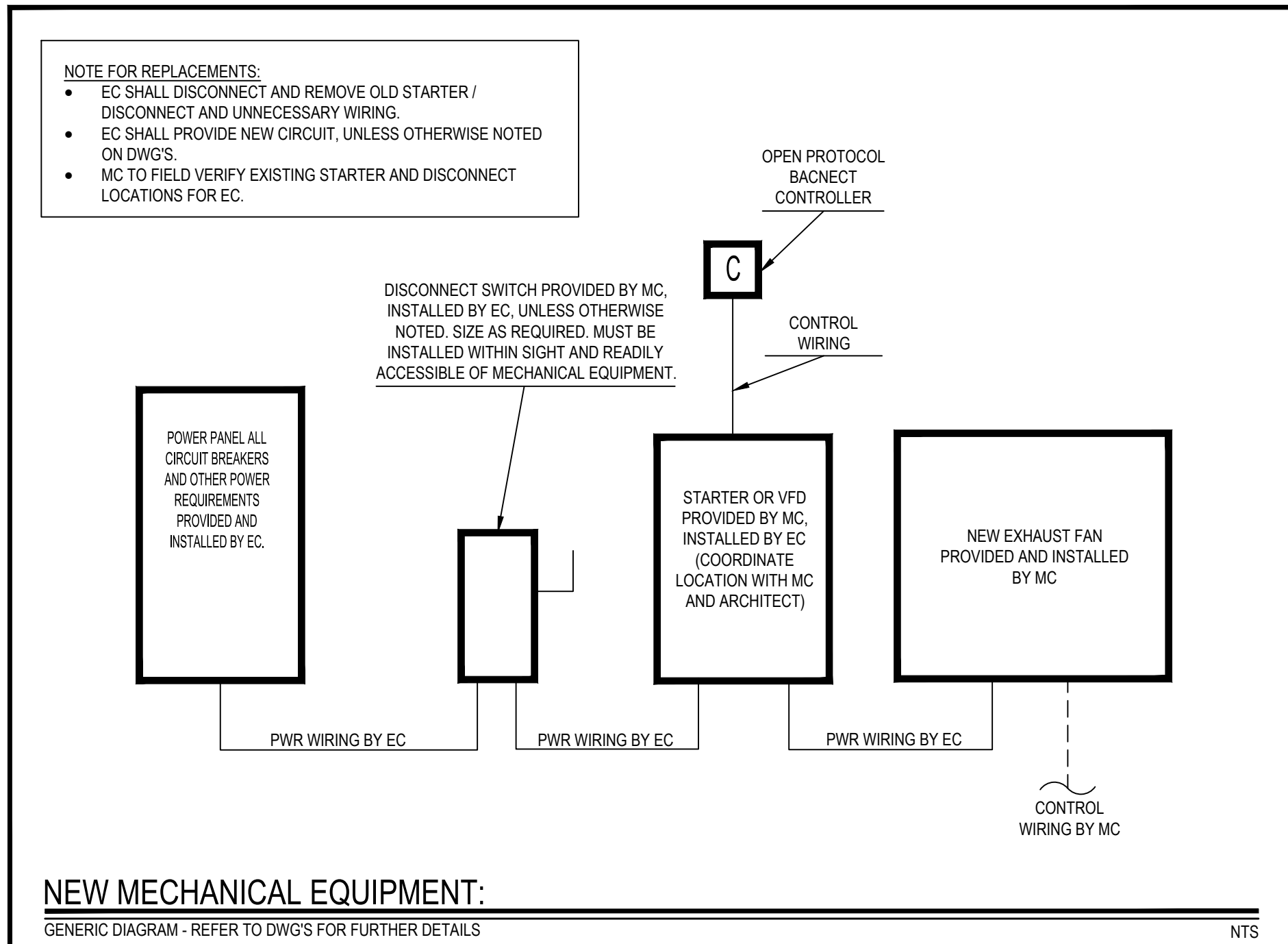
- E.C. SHALL DISCONNECT & REMOVE EXISTING STARTERS FOR ALL EXHAUST FANS SHOWN TO BE REPLACED. THEN M.C. SHALL PROVIDE NEW STARTERS & DISCONNECTS FOR THOSE EXHAUST FANS BEING REPLACED. E.C. SHALL INSTALL NEW STARTERS / DISCONNECTS. VERIFY EXISTING LOCATIONS OF ALL EXISTING EXHAUST FAN STARTERS.
- M.C. SHALL PROVIDE AND INSTALL NEW ADAPTER CURB ASSEMBLIES AS REQ'D. TO MOUNT NEW EXHAUST FANS IN EXIST. EXHAUST FAN LOCATIONS.
- M.C. SHALL MODIFY AS NECESSARY ALL EXIST. EXHAUST FAN EQUIPMENT TO COMPLETELY INSTALL THE NEW REPLACEMENT EXHAUST FAN ASSEMBLIES.
- FOR FURTHER DETAILS ON ALL MECHANICAL EXHAUST FAN EQUIPMENT REFER TO MECHANICAL DRAWINGS.

FIRESTOPPING NOTES:

- ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED BY MECHANICAL CONTRACTOR.
- 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 TROWELABLE COMPOUND, AS SUITABLE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED.
- FIRESTOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS.

ROOFTOP MECHANICAL EQUIPMENT DEMOLITION PLAN GENERAL NOTES:

- MECHANICAL CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL EXISTING MECHANICAL RELATED EQUIPMENT, DUCTWORK, PIPING, LOUVERS, AND ROOFTOP EQUIPMENT PRIOR TO START OF ANY WORK.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL ROOF DEMOLITION PLAN WORK AND WALL DEMOLITION PLAN WORK WITH ROOFING CONTRACTOR.
- REMOVE EXISTING EQUIPMENT AS SHOWN ON PLANS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK AND ASSOCIATED ROOF CURBS, ASSOCIATED DUCTWORK, WALL LOUVERS, WHERE CALLED OUT IN KEY PLAN NOTES. MECHANICAL CONTRACTOR SHALL COORDINATE REMOVAL OF ALL ROOF MECHANICAL EQUIPMENT WITH ROOFING CONTRACTOR.
- ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY ROOF PENETRATION THAT SHALL NOT BE RE-USED. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS ON ROOF PATCHING.
- GENERAL CONTRACTOR (G.C.) SHALL BE RESPONSIBLE FOR PATCHING ALL WALL PENETRATIONS. ROOFING CONTRACTOR (R.C.) SHALL BE RESPONSIBLE FOR PATCHING ALL ROOF PENETRATIONS AND FLASHING ALL NEW ROOF CURBS. MECHANICAL CONTRACTOR (M.C.) SHALL BE RESPONSIBLE FOR MAKING ALL WALL PENETRATIONS IN THE PRESENCE OF THE GENERAL CONTRACTOR. ROOFING CONTRACTOR (R.C.) SHALL BE RESPONSIBLE FOR MAKING ALL ROOF PENETRATIONS AND INSTALLING ROOF CURBS.



TESTING and BALANCING NOTES

- 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 SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15997 FOR FURTHER DETAILS.
- 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 THE ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- 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.

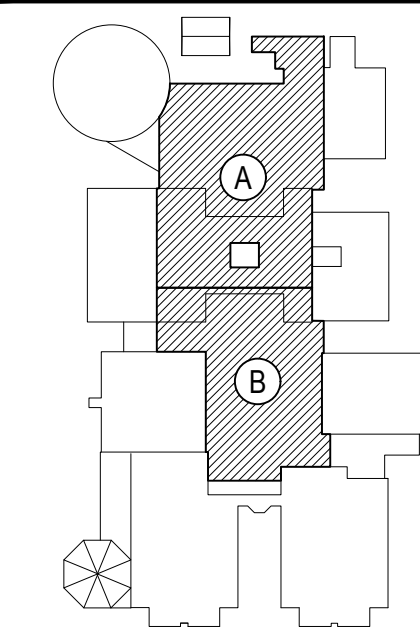
ELECTRICAL WORK UNDER MECHANICAL CONTRACT

- 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.
- 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.

REV.	DATE	ITEM
1	1/14/2022	ISSUED FOR BID

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KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

PROJECT

DRAWING BY: RDP
CHECK BY: FS

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DISTRICT: BRIARCLIFF MANOR UFSD
DISTRICT NAME:

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: GENERAL NOTES, LEGENDS AND SYMBOLS

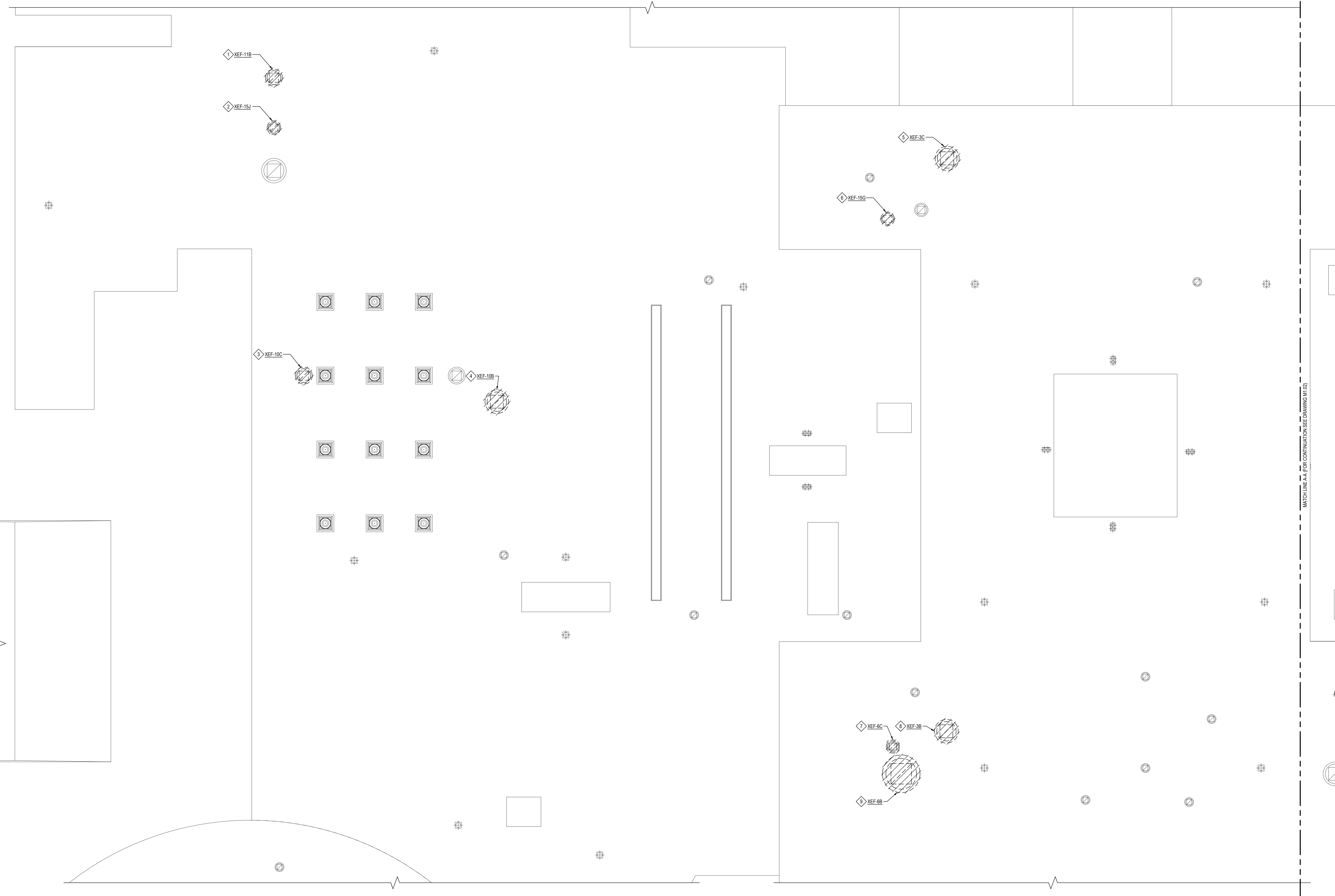
SCALE: AS NOTED

DATE: 10/8/21

BID PICK-UP: 1/17/2022

FILE No: 21-274A

M0.01



ROOF DEMOLITION PART PLAN - AREA "A"

NOTE:

EXHAUST FAN REPLACEMENT KEYED DEMOLITION NOTES:

- | | |
|--|--|
| 1 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 22-1/2x22-1/2 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. | 8 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 18x18 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. |
| 2 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 18x18 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. | 7 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 17-1/2x17-1/2 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. |
| 3 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 22-1/2x22-1/2 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. | 8 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 31-1/2x31-1/2 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. |
| 4 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 31-1/2x31-1/2 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. | 9 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 50x50 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. |
| 5 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 32x32 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. | |

PRE-CONSTRUCTION NOTE:

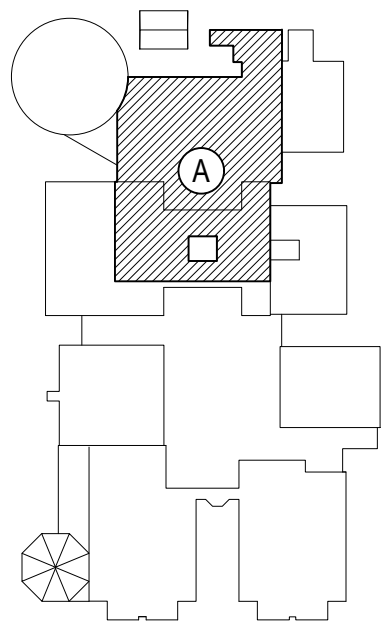
M.C. TO VERIFY EXISTING VOLTS, PHASE & HERTZ OF EXISTING FANS AND COORDINATE SUBMITTALS WITH EXISTING FIELD VERIFICATIONS. M.C. TO FIELD VERIFY EXISTING CURB DIMENSIONS PRIOR TO REMOVAL OF EXISTING CURBS.

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

REV.	DATE	ITEM
1	1/14/2022	ISSUED FOR BID

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KEY PLAN

NOT TO SCALE

PROJECT
BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

DWG TITLE
ROOF DEMOLITION PART PLAN
AREA "A"

DRAWING BY:

RDP

CHECK BY:

FS

NOTICE

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SED No:

66-14-02-02-0-004-022

DISTRICT

BRIARCLIFF MANOR UFSD

DISTRICT NAME

PROJECT

BOND IMPROVEMENTS

PHASE 1

DWG TITLE

ROOF DEMOLITION PART PLAN

AREA "A"

SCALE:

AS NOTED

DATE:

10/8/21

BID PICK-UP:

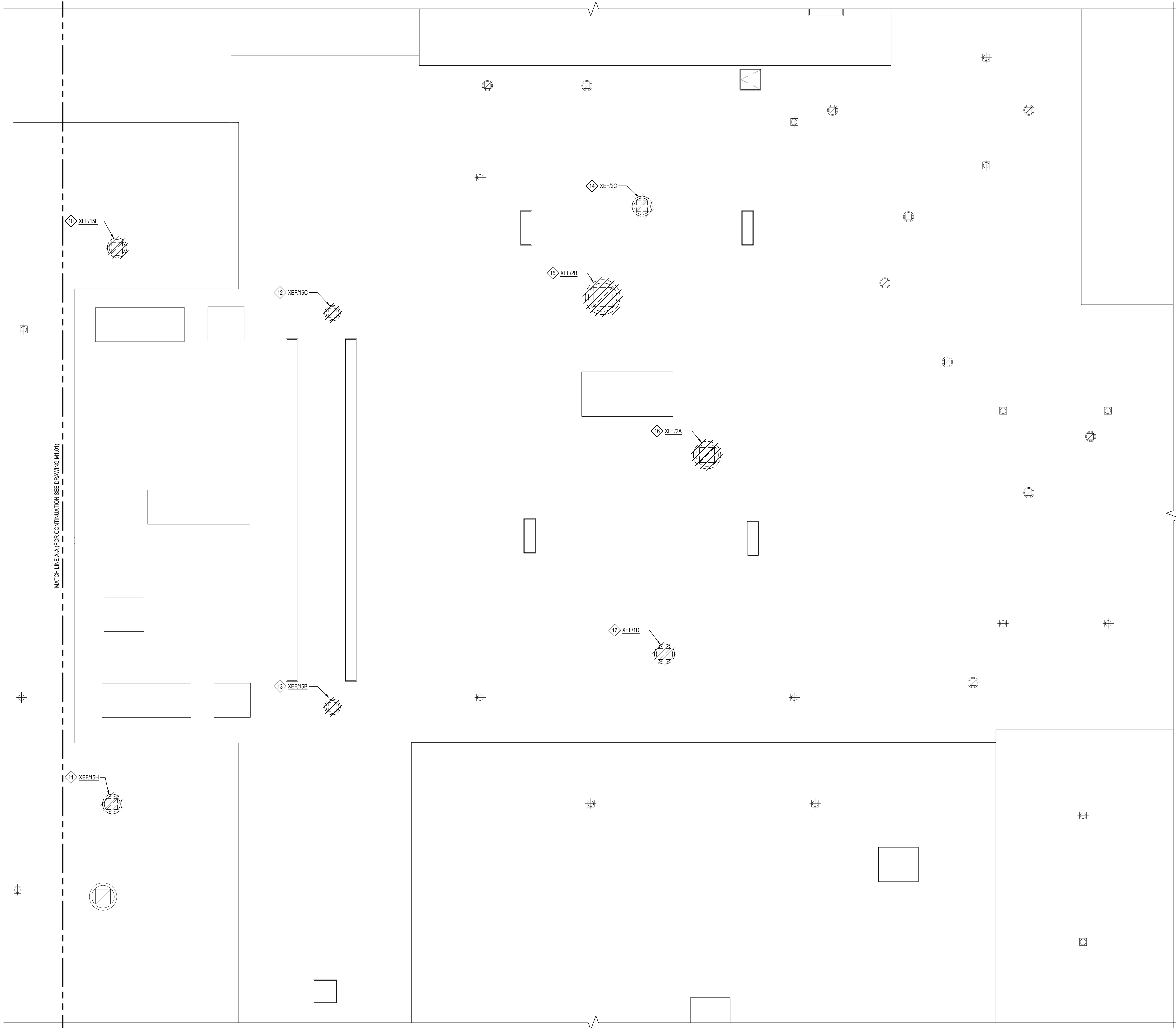
BID P/D DATE

FILE No:

21-274A

M1.01

OF ---



ROOF DEMOLITION PART PLAN - AREA "B"

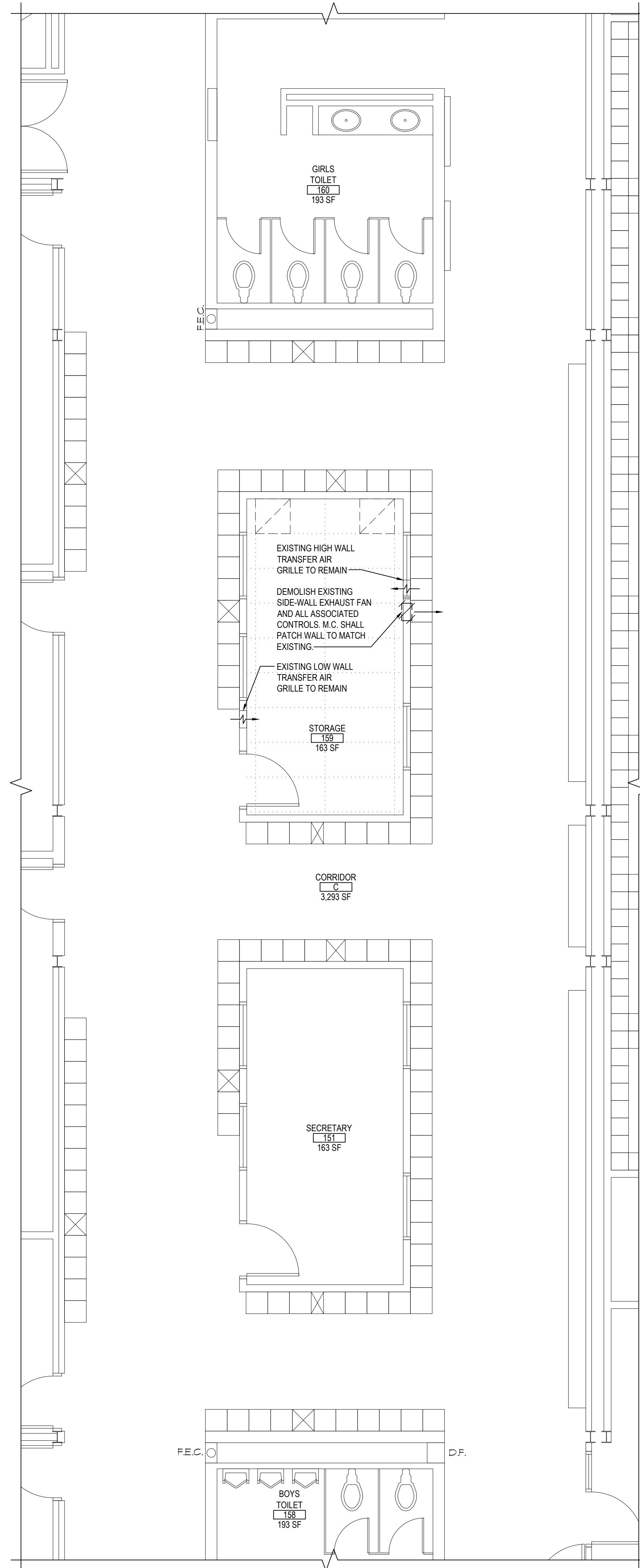
NOTE: SCALE: 1/8" = 1'-0"

EXHAUST FAN REPLACEMENT KEYED DEMOLITION NOTES:

- 10 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 22-1/2x22-1/2 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.
- 11 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 22-1/2x22-1/2 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.
- 12 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 18x18 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.
- 13 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 18x18 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.
- 14 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 23x23 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.
- 15 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 40x40 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.
- 16 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 31-1/2x31-1/2 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.
- 17 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, 23x23 ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.

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.



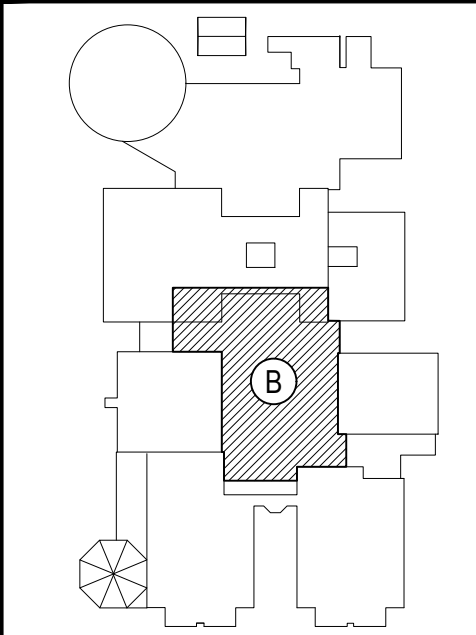
FIRST FLOOR DEMOLITION PART PLAN - AREA "B"

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

REV.	DATE	ITEM
1	1/14/2022	ISSUED FOR BID

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KEY PLAN

NOT TO SCALE

PROJECT
BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

DWG TITLE
ROOF & FIRST FLOOR DEMOLITION PART PLANS
AREA "B"

DRAWING BY: RDP
CHECK BY: FS

NOTICE

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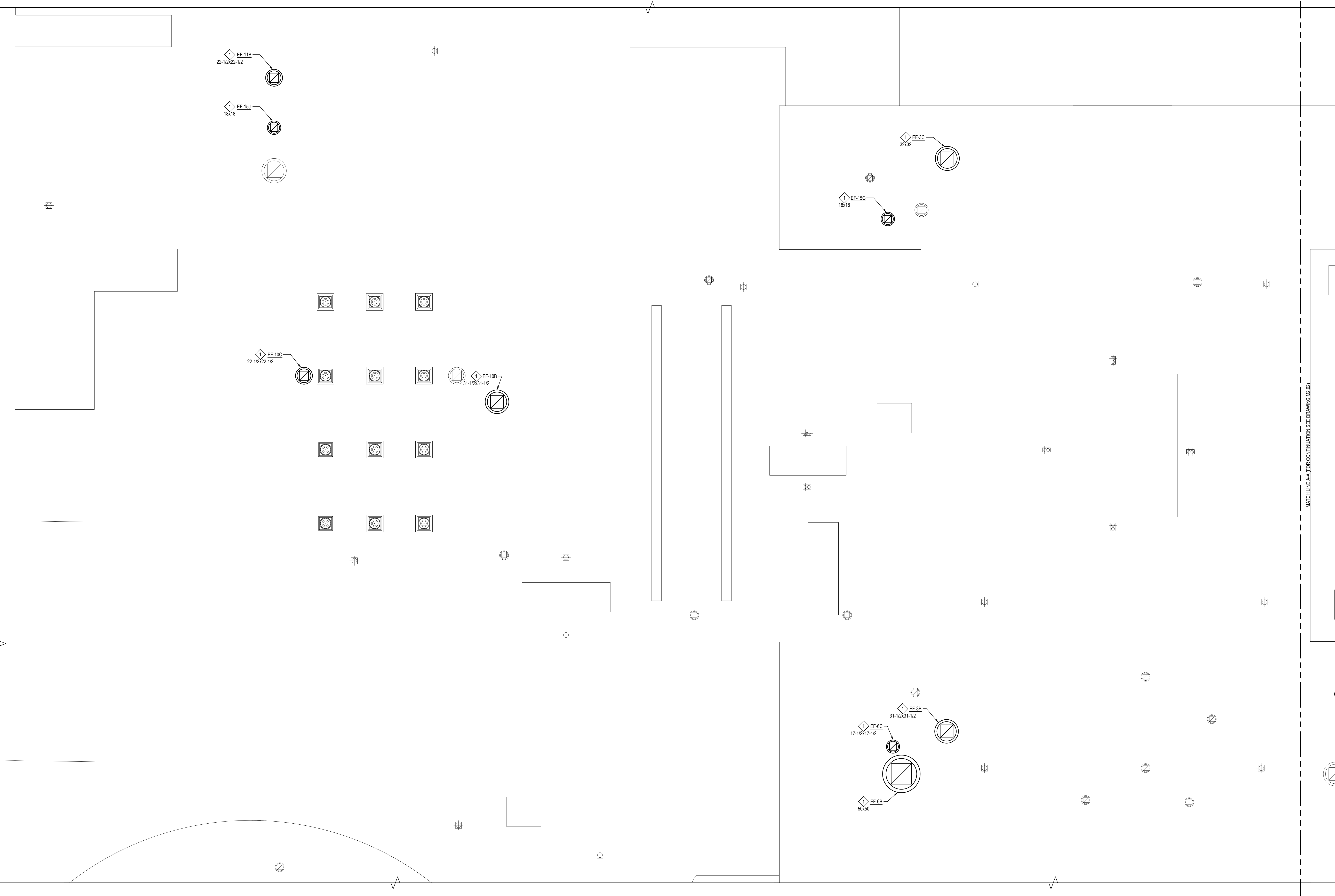
DISTRICT: BRIARCLIFF MANOR UFSD
DISTRICT NAME:

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: ROOF & FIRST FLOOR DEMO
PART PLANS AREA "B"

SCALE: AS NOTED
DATE: 10/8/21
BID PICK-UP: 1/17/2022
FILE No: 21-274A

M1.02 OF ---



ROOF HVAC PART PLAN - AREA "A"

NOTE:

NEW WORK KEYED NOTES:

M.C. SHALL COORDINATE EXHAUST FAN REPLACEMENT WORKSCOPE WITH R.C. & E.C. E.C. SHALL DISCONNECT FAN POWER PRIOR TO REMOVAL OF EXISTING EXHAUST FAN. M.C. SHALL REMOVE EXISTING FAN AND REPLACE WITH FAN ON EXHAUST FAN SCHEDULE. REFER TO EXHAUST FAN SCHEDULE AND MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. EXISTING ROOF CURB DIMENSIONS SHOWN ON PLANS. M.C. SHALL BE RESPONSIBLE FOR VERIFYING IN THE FIELD ALL EXISTING CONDITIONS & THE EXACT DIMENSIONS OF ALL EXISTING ROOF CURBS. EXISTING ROOF CURB DIMENSION SHOWN UNDER EACH KEYED NOTE SYMBOL ON DRAWING. M.C. SHALL REPLACE EXISTING ROOF CURB IN-KIND. R.C. SHALL INSTALL NEW ROOF CURB & FLASH IT IN PRESENCE OF M.C.

NOTE "ATC"

(NEW AUTOMATIC TEMPERATURE CONTROL WORK)

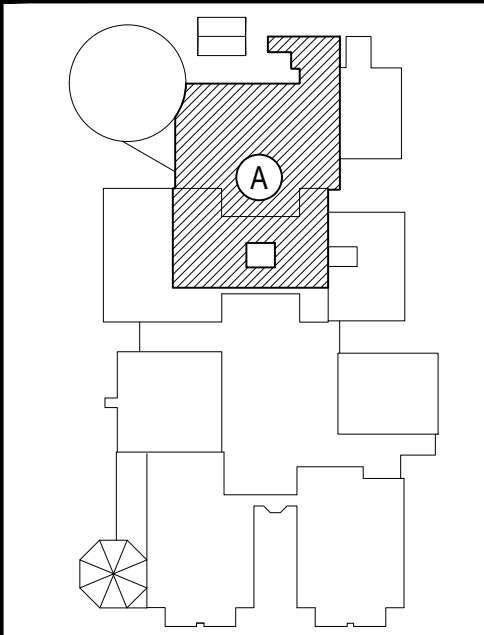
MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION & INSTALLATION OF ALL WIRING, CONTROL DEVICES, PROGRAMMING, ETC. AS REQUIRED TO CONNECT ALL NEW EXHAUST FANS (REPLACED UNDER THIS CONTRACT) TO THE EXISTING BUILDING MANAGEMENT SYSTEM. NOTE THAT THE EXISTING BMS IS AN "ANALOG" CONTINUUM BRAND, CURRENTLY SERVICED BY "AUTOMATED CONTROL LOGIC, INC., 578 COMMERCE ST., THORNWOOD NY, 10984. TEMPERATURE CONTROL WORK SHALL BE PERFORMED BY A FACTORY AUTHORIZED SERVICE PERSON TRAINED IN THIS SYSTEM. ALL CONTROLS USED MUST BE FULLY COMPATIBLE WITH THIS SYSTEM. WORK SHALL BE AS FOLLOWS:

- PROVIDE CONTROLS AS REQUIRED TO CONNECT / MAP EACH NEW EXHAUST FAN SHOWN ON THESE DRAWINGS TO THE EXISTING HEAD END. ALL NEW CONTROLS SHALL BE FULLY COMPATIBLE WITH THE EXISTING HEAD END. CONTRACTOR SHALL MODIFY THE EXISTING SYSTEM DATABASE AS REQUIRED. IF THE EXISTING SYSTEM HAS ENOUGH POINTS TO ACCOMMODATE THE NEW EQUIPMENT / CONTROLLERS, IT MAY BE USED. IF THE SYSTEM REQUIRES EXPANSION, PROVIDE EXPANSION CONTROLLER AS REQUIRED. IF EXPANSION IS REQUIRED, NEW EXPANSION CONTROLLERS SHALL BE LARGE ENOUGH TO ACCOMMODATE (25) ADDITIONAL FANS FOR FUTURE CONNECTION TO SYSTEM. PROVIDE ALL BUSS WIRING FROM MAIN BMS HEAD END OUT TO EACH NEW FAN.
- PERFORM ALL SYSTEM PROGRAMMING AS REQUIRED TO SHOW FAN RUN STATUS / OCCUPIED UNOCCUPIED STATUS / FAN FAN SHUTDOWN STATUS / ALARM STATUS, SHOWING AN ALARM AT THE HEAD END WHEN FAN IS COMMANDED "ON" & DOES NOT RUN. FANS SHALL APPEAR ON THE HEAD END COMPUTER GRAPHICALLY. ANY NEW GRAPHICS CREATED SHALL MATCH THE EXISTING GRAPHICS IN APPEARANCE AND FUNCTION. IF THERE ARE NO EXISTING GRAPHICS, CONTRACTOR SHALL CREATE A GRAPHIC SHOWING EACH FAN INDIVIDUALLY WITH POINTS AS LISTED ABOVE. PROVIDE A GRAPHIC SHOWING THE BUILDING ROOF PLAN WITH EACH FAN (NEW & EXISTING) SHOWN. MAIN PLAN SHALL SHOW RUN / STOP STATUS OF CONNECTED FANS. CLICKING ON A CONNECTED FAN SHALL OPEN A GRAPHIC PAGE SHOWING ALL OF THE CONNECTED POINTS FOR THAT FAN.
- PROVIDE & MOUNT NEW FAN STARTERS & DISCONNECT SWITCHES FOR EACH FAN BEING REPLACED. COORDINATE LOCATIONS WITH THE ELECTRICAL CONTRACTOR. NEW STARTERS TO BE CAPABLE OF INTERFACE WITH THE BMS. ALL DISCONNECT SWITCHES MAY BE UNFUSED TYPE. ALL ELECTRICAL HARDWARE TO BE NEMA-1 (INDOOR) OR NEMA-3R (IF USED OUTDOORS). STARTERS, DISCONNECT SWITCH & FAN POWER WIRING SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, WHETHER LOW OR LINE VOLTAGE, SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.

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KEY PLAN

NOT TO SCALE

PROJECT
BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

DWG TITLE
ROOF NEW HVAC PART PLAN
AREA "A"

DRAWING BY: RDP
CHECK BY: FS

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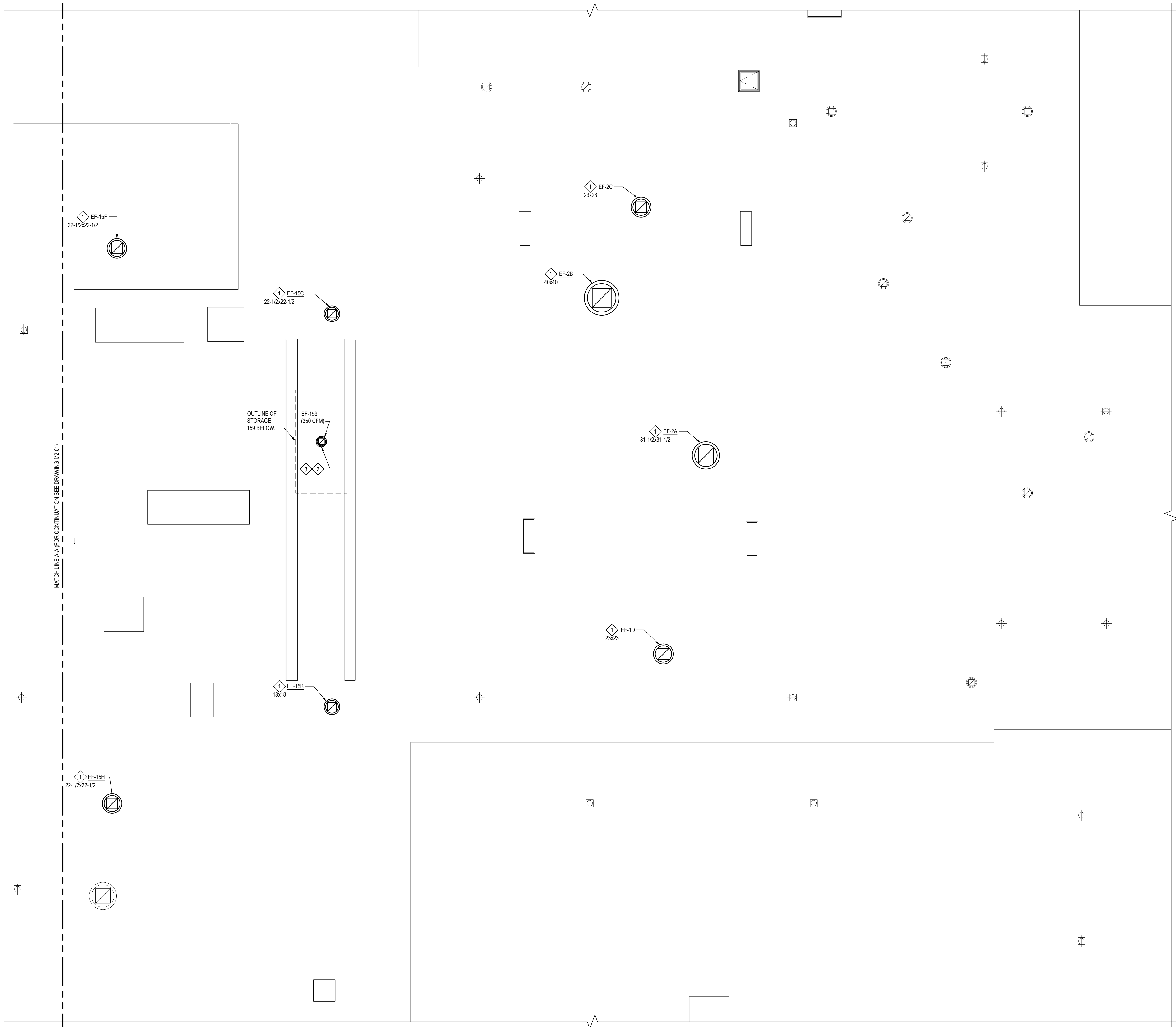
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SED No.	66-14-02-02-0-004-022
DISTRICT	BRIARCLIFF MANOR UFSD DISTRICT NAME
PROJECT	BOND IMPROVEMENTS PHASE 1
DWG TITLE	ROOF NEW HVAC PART PLAN AREA "A"
SCALE	AS NOTED
DATE	10/8/21
BID PICK-UP	BID P/U DATE
FILE No.	21-274A

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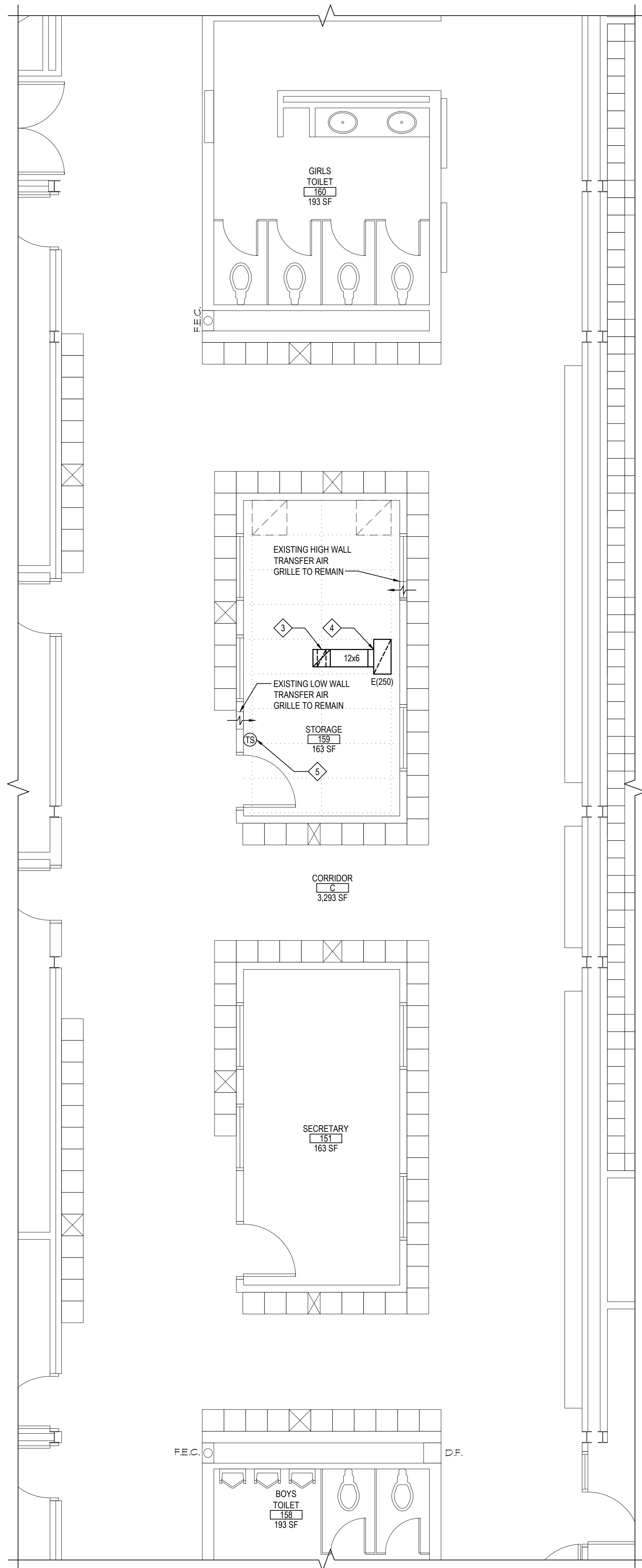


ROOF HVAC PART PLAN (2 OF 2)

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

NEW WORK KEYED NOTES:

- M.C. SHALL COORDINATE EXHAUST FAN REPLACEMENT WORKSCOPE WITH R.C. & E.C. E.C. SHALL DISCONNECT FAN POWER PRIOR TO REMOVAL OF EXISTING EXHAUST FAN. M.C. SHALL REMOVE EXISTING FAN AND REPLACE WITH FAN ON EXHAUST FAN SCHEDULE. REFER TO EXHAUST FAN SCHEDULE AND MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. EXISTING ROOF CURB DIMENSIONS SHOWN ON PLANS. M.C. SHALL BE RESPONSIBLE FOR VERIFYING IN THE FIELD ALL EXISTING CONDITIONS & THE EXACT DIMENSIONS OF ALL EXISTING ROOF CURBS. EXISTING ROOF CURB DIMENSION SHOWN UNDER EACH KEYED NOTE SYMBOL ON DRAWING. M.C. SHALL REPLACE EXISTING ROOF CURBS IN-KIND. M.C. SHALL PROVIDE R.C. WITH NEW ROOF CURB FOR FAN. R.C. SHALL INSTALL NEW ROOF CURB & FLASH IT IN PRESENCE OF M.C.
- M.C. SHALL COORDINATE EXHAUST FAN INSTALLATION WORKSCOPE WITH R.C. & E.C. M.C. SHALL PROVIDE R.C. WITH NEW ROOF CURB FOR FAN. R.C. SHALL CUT OPENING IN ROOF IN PRESENCE OF M.C. R.C. SHALL INSTALL NEW ROOF CURB & FLASH IT IN PRESENCE OF M.C. M.C. SHALL INSTALL NEW EXHAUST FAN (EF-159) SHOWN ON DRAWING AND E.C. SHALL PROVIDE NEW ELECTRICAL CONNECTIONS FOR FAN.
- RUN NEW 10x10 EXHAUST DUCT FROM NEW EXHAUST FAN (EF-159) AND TRANSITION TO 12x6 IN DROP.
- CLINCH NEW 12x6 EXHAUST DUCT INTO SIDE OF NEW 24"x12"Wx10"H EXHAUST PLENUM ABOVE EXHAUST GRILLE.
- NEW 1-HOUR DIAL TIMER SWITCH TO CONTROL NEW EXHAUST FAN (EF-159) ON ROOF ABOVE.



FIRST FLOOR HVAC PART PLAN

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

AIR DEVICE SCHEDULE					
TAG	SIZE	NC	CFM	ACCESSORIES	KRUGER MODEL NO.
E(CFM)	24"x12"	<10	0-250	-	S80
NOTES: 1) MECHANICAL CONTRACTOR TO COORDINATE BORDER TYPES WITH CLG. CONSTRUCTION. 2) ALL BALANCING TO BE PERFORMED VIA SPEED CONTROLLER MOUNTED IN FAN HOUSING. Model S80;					
Model S80, The exhaust grille shall be a Kruger model S80 (steel). This grille must have 35° deflection (H and V models) blades on 3/4" centers made of 22 gage steel (S80). The blades must be held in place by mullions placed behind the grille and welded to the frame. The frame of the grille must be constructed of 22 gage steel (S80) for sizes less than and equal to 24"x24" and extruded aluminum with nominal thickness 0.040 - 0.050" for sizes greater than 24"x24" with countersunk screw holes. This frame must also produce a border of 1 1/4" around all sides of the grille with mitered corners. FINISH The paint finish shall be #44 British White and be an anodic acrylic paint, baked at 315°F for 30 minutes. The paint thickness shall be 0.8 - 1.0 mils, gloss at 60° per ASTM D523-89 of 50 - 85%, pencil hardness per ASTM D3363-92A of HB - H, crosshatch adhesion per ASTM D3359-83 of 4B - 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours					

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KEY PLAN NOT TO SCALE		
PROJECT BRIARCLIFF MANOR UFSD BOND IMPROVEMENTS - PHASE 1 MIDDLE/HIGH SCHOOL BRIARCLIFF MANOR/WESTCHESTER		
DRAWING BY: RDP CHECK BY: FS		
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SED No: 66-14-02-02-0-004-022		
DISTRICT: BRIARCLIFF MANOR UFSD DISTRICT NAME		
PROJECT: BOND IMPROVEMENTS PHASE 1		
DWG TITLE: ROOF HVAC PART PLAN AREA "B"		
SCALE: AS NOTED		
DATE: 10/8/21		
BID PICK-UP: 1/17/2022		
FILE No: 21-274A		
M2.02 OF - - -		

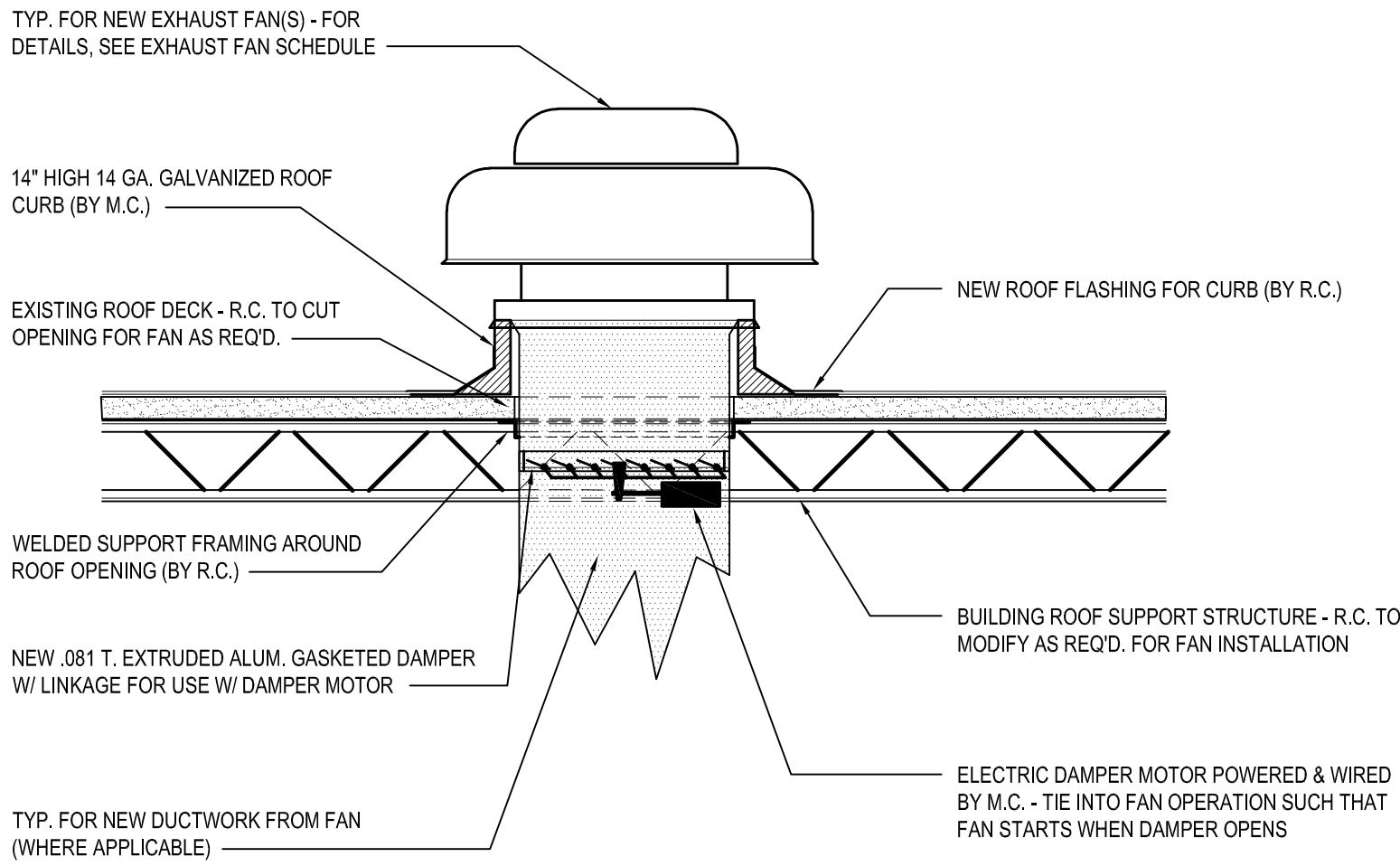
EXHAUST FAN SCHEDULE											GREENHECK AS STD.
TAG	SERVICE	MODEL	CFM	ESP	FAN RPM	MOTOR (HP)	INLET SONES	VOLT/PH	WEIGHT (LBS)	OPTIONS AND ACCESSORIES	NOTES
EF-1D	STORAGE ROOMS A102 & A103	G-100-VG	1000	0.75	1619	1/4	8.9	115/1	75.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-2A	OFFICE A111, TOILET A114, SHOWER RMS. A118, A119 & A120 & TOILET A115	GB-180-VGD-15	3790	0.75	1162	1 1/2	16.0	230/3	167.0	1,2,3,5,6,7	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-2B	DRYING ROOM A121, SHOWER RM. A117, FOOTBALL LOCKERS & TOILETS	GB-220-VGD-10	4000	0.75	738	1.0	12.9	208/3	197.0	1,2,3,5,6,7	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-2C	STOR. A105, CLEAT RM. A106, LAUNDRY A126 & STOR. A125	G-100-VG	1000	0.75	1619	1/4	8.9	115/1	75.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-3B	LIB. OFFICE B154, OFFICE B234, SECY B233, CLASSROOM B213 & AV STOR. B235	GB-180-VGD-7	2500	0.75	924	3/4	10.7	208/3	169.0	1,2,3,5,6,7	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-3C	CONF., FACULTY, PROF. LIB., SEMINAR & CLASSROOM B166	G-140-VG	2510	0.75	1601	1.0	16.0	115/1	97.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-6B	SCIENCE STUDY AREA B121 & CHEM. STOR. B135	GB-330-VGD-15	7150	0.5	418	1 1/2	10.3	208/3	261.0	1,2,3,5,6,7	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-6C	FUME HOODS	CUE-099-VG	700	0.75	1529	1/4	8.8	115/1	51.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-10B	HOME ARTS C117/GRAPHICS C121	GB-220HP-VGD-10	3400	0.75	773	1.0	10.9	208/3	169.0	1,2,3,5,6,7	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-10C	FINE ARTS C138	G-100-VG	900	0.75	1543	1/4	8.1	115/1	75.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-11B	DISHWASHER C131	CUE-120-VG	1000	0.75	1292	1/4	10.5	115/1	85.0	1,2,3,4,6,7,13,14	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-15B	BOYS TOILET B169	G-098-VG	450	0.75	1488	1/4	8.4	115/1	40.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-15C	GIRLS TOILET B170	G-098-VG	450	0.75	1488	1/4	8.4	115/1	40.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-15F	GIRLS TOILET B275, MENS TOILET B176 & CUST. B188	G-099-VG	600	0.75	1425	1/4	8.9	115/1	75.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-15G	CUST. B189 & BOYS TOILET B220	G-099-VG	600	0.75	1425	1/4	8.9	115/1	75.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-15H	CUST. B137, TOILET B173 & BOOYS TOILET B221	G-099-VG	700	0.75	1496	1/4	9.7	115/1	75.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-15I	LOCKER/TOILET	G-099-VG	600	0.75	1425	1/4	8.9	115/1	75.0	1,2,3,4,6,7,13	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-159	COPY ROOM	G-099-VG	300	0.375	1520	1/10	7.1	115/1	48.0	2,3,4,6,13	PROVIDE W/VCD-43 MOTORIZED DAMPER

- Options / Accessories:**
- Aluminum roof curb adapter (factory mounted), contractor to field verify existing curb dimensions prior to fabrication
 - UL-705 Listing
 - Disconnect Switch
 - Varigreen motor w/balancing dial, soft start and thermal overload protection
 - Varigreen drive (factory mounted, wired and programmed) w/fan mounted speed adjustment dial. Field mounted VFDs will not be accepted
 - Roof Curb w/damper tray
 - Roof curb extension (aluminum construction) w/damper tray and access panel

- ADDITIONAL SCHEDULE NOTES:**
- REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
 - PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
 - FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
 - PROVIDE A 24" HEIGHT ROOF CURB.
 - PROVIDE BIRDSCREEN WITH FAN.
 - PROVIDE ALL SINGLE PHASE FANS WITH A GREENHECK VARIGREEN H.O.A. CONTROLLER.
 - NEW DISHWASHER FAN SHALL HAVE THE EXISTING ON/OFF SWITCH AND EXISTING INTERLOCKS TIED INTO NEW FAN.

DAMPER SCHEDULE						GREENHECK AS STD.
TAG	SERVICE	MODEL	DUCT SIZE	ACTUATOR VOLTAGE	NOTES	
EF-1D	STORAGE ROOMS A102 & A103	VCD-43	16x16	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-2A	OFFICE A111, TOILET A114, SHOWER RMS. A118, A119 & A120 & TOILET A115	VCD-43	21x21	24 VDC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-2B	DRYING ROOM A121, SHOWER RM. A117, FOOTBALL LOCKERS & TOILETS	VCD-43	28x28	24 VDC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-2C	STOR. A105, CLEAT RM. A106, LAUNDRY A126 & STOR. A125	VCD-43	16x16	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-3B	LIB. OFFICE B154, OFFICE B234, SECY B233, CLASSROOM B213 & AV STOR. B235	VCD-43	21x21	24 VDC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-3C	CONF., FACULTY, PROF. LIB., SEMINAR & CLASSROOM B166	VCD-43	21x21	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-6B	SCIENCE STUDY AREA B121 & CHEM. STOR. B135	VCD-43	39x39	24 VDC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-6C	FUME HOODS	VCD-43	11x11	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-10B	HOME ARTS C117/GRAPHICS C121	VCD-43	21x21	24 VDC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-10C	FINE ARTS C138	VCD-43	11x11	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-11B	DISHWASHER C131	VCD-43	16x16	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-15B	BOYS TOILET B169	VCD-43	16x16	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-15C	GIRLS TOILET B170	VCD-43	16x16	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-15F	GIRLS TOILET B275, MENS TOILET B176 & CUST. B188	VCD-43	16x16	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-15G	CUST. B189 & BOYS TOILET B220	VCD-43	16x16	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-15H	CUST. B137, TOILET B173 & BOOYS TOILET B221	VCD-43	16x16	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-15I	LOCKER/TOILET	VCD-43	11x11	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	
EF-159	COPY ROOM	VCD-43	10x10	120 VAC	ALUMINUM CONSTRUCTION w/AUX SWITCHES	

- Options / Accessories:**
- Aluminum roof curb adapter (factory mounted), contractor to field verify existing curb dimensions prior to fabrication
 - UL-705 Listing
 - Disconnect Switch
 - Varigreen motor w/balancing dial, soft start and thermal overload protection
 - Varigreen drive (factory mounted, wired and programmed) w/fan mounted speed adjustment dial. Field mounted VFDs will not be accepted

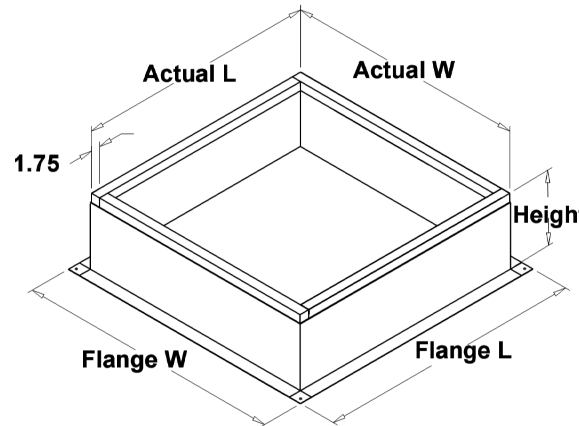


NEW ROOF MOUNTED EXHAUST FAN INSTALLATION

SCALE: N.T.S.

ROOF CURB - (BASIS: GREENHECK)

Roof Curb
Model: GPI



Standard Construction Features:

- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of either 18 ga galvanized steel or 0.084 in. aluminum - Straight Stiled without a cant - 2 in. mounting flange - 3 lb density insulation - Height - Available from 12 in. to 42 in. as specified in 0.5 in. increments.

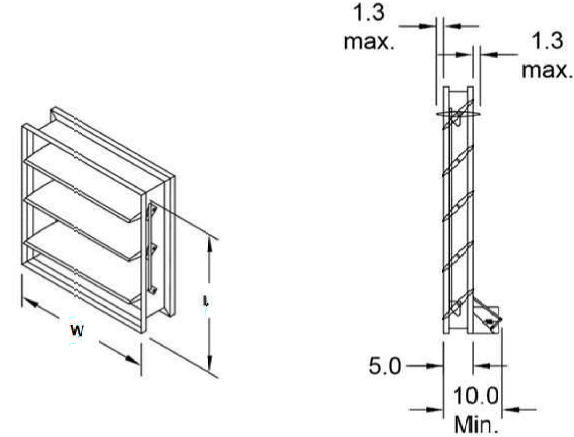
- Notes:
- The maximum roof opening dimension should not be greater than the "Actual" top outside dimension minus 2 in.
 - The minimum roof opening dimension should be at least 2.5 in. more than the damper dimension or recommended duct size.
 - The Roof Opening Dimension may or may not be the same as the Structural Opening Dimension.
 - Damper Tray is optional and must be specified. Tray size is same as damper size.
 - Security bars are optional and must be specified. Frames and gridwork are all 12 ga steel. Gridwork is welded to the frame and the frame is welded to the curb.

CONTROL DAMPER - (BASIS: GREENHECK)

Control Damper
Model: VCD-43

Standard Construction Features:

- Model VCD-43 is an extremely low leakage control damper for commercial control dampers - Aluminum channel frame - Heavy gauge extruded aluminum blades, airfoil shape - Side mounted steel linkage is out of airstream, concealed in frame - Extruded silicone rubber blade seals - Axles are steel and 0.5 in. dia. - Synthetic axle bearings - Width and height furnished approximately 0.25 in. undersize - Field wiring is required to individual components



Damper Configuration:

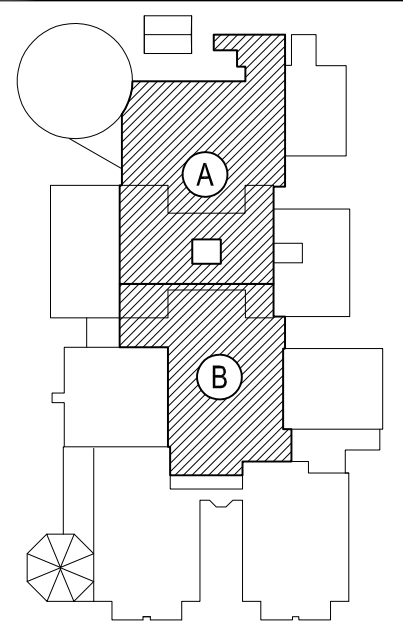
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2	EF-1D	12	12	12	1	MS4104F1210
3	EF-2A	1	36	18	1	VF824-S
4	EF-2B	1	24	24	1	VF824-S
5	EF-2C	1	12	12	1	MS4104F1210
6	EF-3B	1	18	18	1	VF824-S
7	EF-3C	1	18	18	1	MS4104F1210
8	EF-6B	1	36	36	1	MS4104F1210
9	EF-6C	1	12	12	1	MS4104F1210
10	EF-10B	1	24	24	1	VF824-S
11	EF-10C	1	12	12	1	MS4104F1210
12	EF-11B	1	12	12	1	MS4104F1210
13	EF-15B	1	12	12	1	MS4104F1210
14	EF-15C	1	12	12	1	MS4104F1210
15	EF-15F	1	12	12	1	MS4104F1210
16	EF-15G	1	12	12	1	MS4104F1210
17	EF-15H	1	12	12	1	MS4104F1210
18	EF-15I	1	12	12	1	MS4104F1210
21	EF-NEW	1	10	10	1	MS4104F1210

Notes: All dimensions shown are in units of in.
Width And height furnished approximately 0.25 in. undersize

REV.	DATE	ITEM
1	1/14/2022	ISSUED FOR BID

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KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

SCHEDULES AND DETAILS

PROJECT

DWG TITLE

DRAWING BY: RDP

CHECK BY: FS

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SED No: 66-14-02-02-0-004-022

DISTRICT: BRIARCLIFF MANOR UFSD DISTRICT NAME

PROJECT: BOND IMPROVEMENTS PHASE 1

DWG TITLE: SCHEDULES AND DETAILS

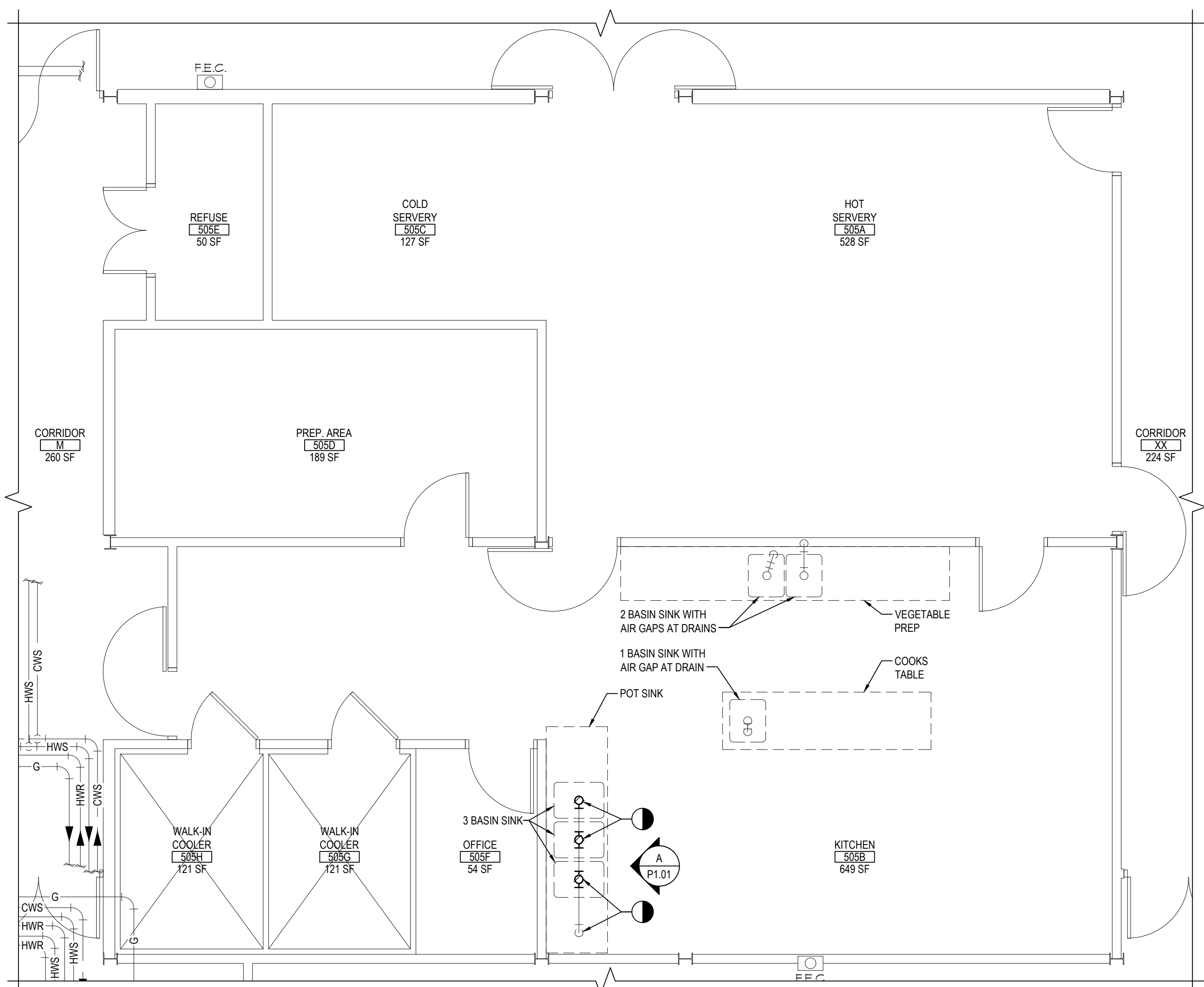
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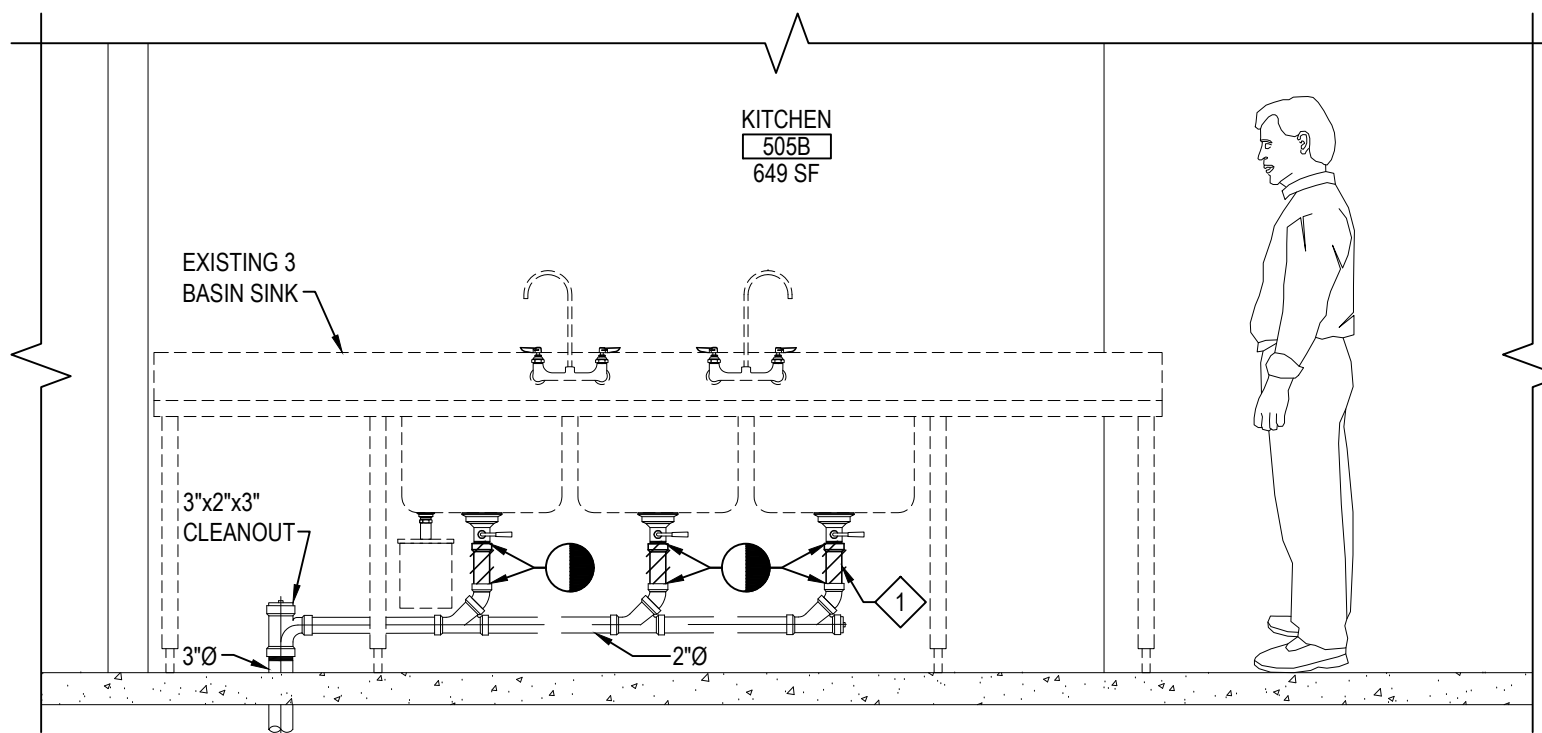
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FIRST FLOOR HIGH SCHOOL KITCHEN DEMOLITION PART PLAN

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



KITCHEN KEYED DEMOLITION NOTES:

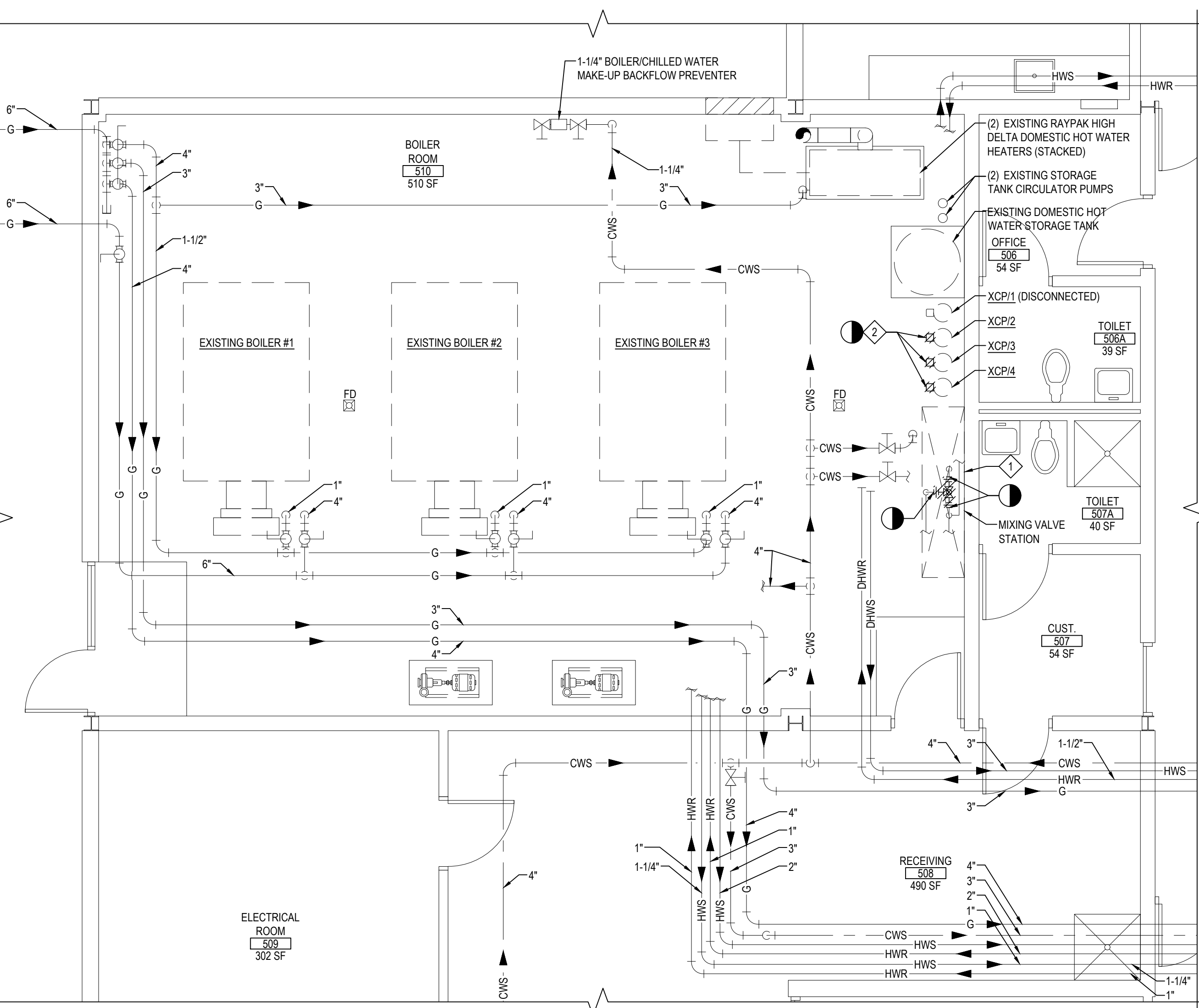
- ◇ P.C. TO REMOVE SECTION OF 2"Ø COPPER DRAIN PIPE AS INDICATED (TYPICAL FOR 3).

ELEVATION - A

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

GENERAL NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
- 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.
- PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
- 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.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
- PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
- 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.
- 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.
- 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.
- "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 PIECE OF EQUIPMENT & TURN OVER TO OWNER.
- 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.
- MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PIECE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PIECE 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 PIECE OF EQUIPMENT USED.



BOILER ROOM DEMOLITION PART PLAN

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

BOILER ROOM KEYED DEMOLITION NOTES:

- ◇ P.C. TO REMOVE EXISTING HOT WATER MIXING VALVE AND REPLACE WITH NEW. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ◇ P.C. TO REPLACE EXISTING HOT WATER AQUASTAT, LIKE-IN-KIND.

PLUMBING LEGEND

EXISTING DOMESTIC COLD WATER PIPING	EXISTING DOMESTIC HOT WATER PIPING	EXISTING DOMESTIC HOT WATER RETURN PIPING	EXISTING SANITARY WASTE PIPING	EXISTING STORM WATER PIPING	NEW STORM WATER PIPING	EXISTING NATURAL GAS PIPING	NEW NATURAL GAS PIPING	NEW DOMESTIC COLD WATER PIPING	NEW DOMESTIC HOT WATER PIPING	NEW DOMESTIC HOT WATER RETURN PIPING	EXISTING SANITARY WASTE PIPING	NEW SANITARY WASTE PIPING	NEW ACID WASTE VENT PIPING	EXISTING ACID WASTE PIPING	NEW ACID WASTE PIPING	NEW TEMPERED DOMESTIC HOT WATER SUPPLY	DENOTES NEW CLEAN OUT DECK PLATE
CHECK VALVE IN PIPING	BALL VALVE IN PIPING	GATE VALVE IN PIPING	DENOTES PIPE RISE	DENOTES PIPE DROP	POINT OF DISCONNECTION TO BE DONE	CONNECTION POINT OF NEW WORK TO BE DONE	DEMOLITION WORK TO BE DONE	WASTE PIPING	ACID WASTE PIPING	HWS	HWR	CWS	TWS	T			

GENERAL UTILITY NOTES

PIPING LOCATIONS ARE SCHEMATIC AND EACH TRADE SHALL RUN PIPING IN ORDER TO USE THE LEAST AMOUNT OF MATERIAL.

PLUMBING CONTRACTOR SHALL PROVIDE VENT PIPING FOR ALL PLUMBING FIXTURES AS PER CODE.

PLUMBING NOTE: PIPING SIZES SEE SCHEDULE THIS SHEET.

EACH TRADE CONTRACTOR TO VERIFY SIZE OF SERVICE REQUIRED, SIZE AND EXACT LOCATION OF CONNECTIONS TO EACH PIECE OF EQUIPMENT.

FLOOR & WALL PENETRATION NOTES FOR PLUMBING CONTRACTOR

PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PIPING WALL, FLOOR, & CEILING PENETRATIONS & PATCHING. IF TEST RESULTS INDICATE POSSIBILITY OF LEAD-CONTAINING AND/OR ASBESTOS-CONTAINING MATERIALS AT THE PENETRATION LOCATIONS, THE P.C. SHALL CARRY THE ASSOCIATED ABATEMENT COSTS WITHIN HISHER BASE BID SUBMITTED.

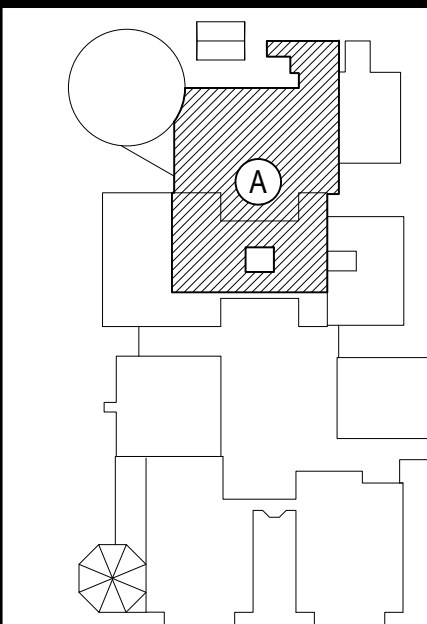
ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	No. / #	NUMBER
B.D.	BACKDRAFT DAMPER	NOM.	NOMINAL
CWS	COLD WATER SUPPLY	N.T.S.	NOT TO SCALE
CFM	CUBIC FEET OF AIR PER MINUTE	O.A.	OUTSIDE AIR
D.	DEEP / DEPTH	O.C.	ON CENTER
DIA.	DIAMETER	O.D.	OUTSIDE DIAMETER
F&T	FLOAT & THERMOSTATIC	O.S. & Y.	OUTSIDE SOREW & YOKE
FPM	FEET PER MINUTE	O.C.	ON CENTER
FSD	FIRE DAMPER - DUCT MOUNTED	PE	PNEUMATIC / ELECTRIC
FLEX	FLEXIBLE	PREFAB	PREFABRICATED
FD	FLAT OVAL DUCTWORK	PRV	PRESSURE REDUCING VALVE
GAL	GALLONS	PSI	POUNDS PER SQUARE INCH
GPH	GALLONS PER HOUR	R.A.	RETURN AIR
GPM	GALLONS PER MINUTE	REQD	REQUIRED
H.	HIGH	RPM	REVOLUTIONS PER MINUTE
H.C.	HANDICAPPED	S.A.	SUPPLY AIR
HWS	HEATING SYSTEM HOT WATER SUPPLY	SCH.	SCHEDULE
HWR	HEATING SYSTEM HOT WATER RETURN	S.P.	STATIC PRESSURE
HP	HORSEPOWER	STD	STANDARD
I.D.	INSIDE DIAMETER	T	TEMPERATURE
KW	KILOWATT	TXV	THERMAL EXPANSION VALVE
L	LONG	TYP.	TYPICAL
LAT	LEAVING AIR TEMPERATURE	VOL	VOLUME
LWT	LEAVING WATER TEMPERATURE	V.D.	VOLUME DAMPER
MAX.	MAXIMUM	VEL	VELOCITY
MIN.	MINIMUM	VFD	VARIABLE FREQUENCY DRIVE
MBH	BTU x 1,000	W.	WIDE
MFR.	MANUFACTURER	W.	WITH
M.H.	MANHOLE	WO	WITHOUT
MISC.	MISCELLANEOUS	WB	WET BULB TEMPERATURE
MTD	MOUNTED	WTD	WATER TEMPERATURE DROP
G	NATURAL GAS	WTR	WATER TEMPERATURE RISE
N.I.C.	NOT IN CONTRACT	WPD	WATER PRESSURE DROP

REV.	DATE	ITEM
1	1/14/2022	ISSUED FOR BID

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KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER
FIRST FLOOR DEMOLITION PART PLANS
AREA "A"

PROJECT

DWG TITLE

DRAWING BY: RDP
CHECK BY: FS

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SED No: 66-14-02-02-004-022

DISTRICT: BRIARCLIFF MANOR UFSD

DISTRICT NAME:

PROJECT: BOND IMPROVEMENTS

PHASE 1

DWG TITLE: FIRST FLOOR DEMOLITION

PART PLANS AREA "A"

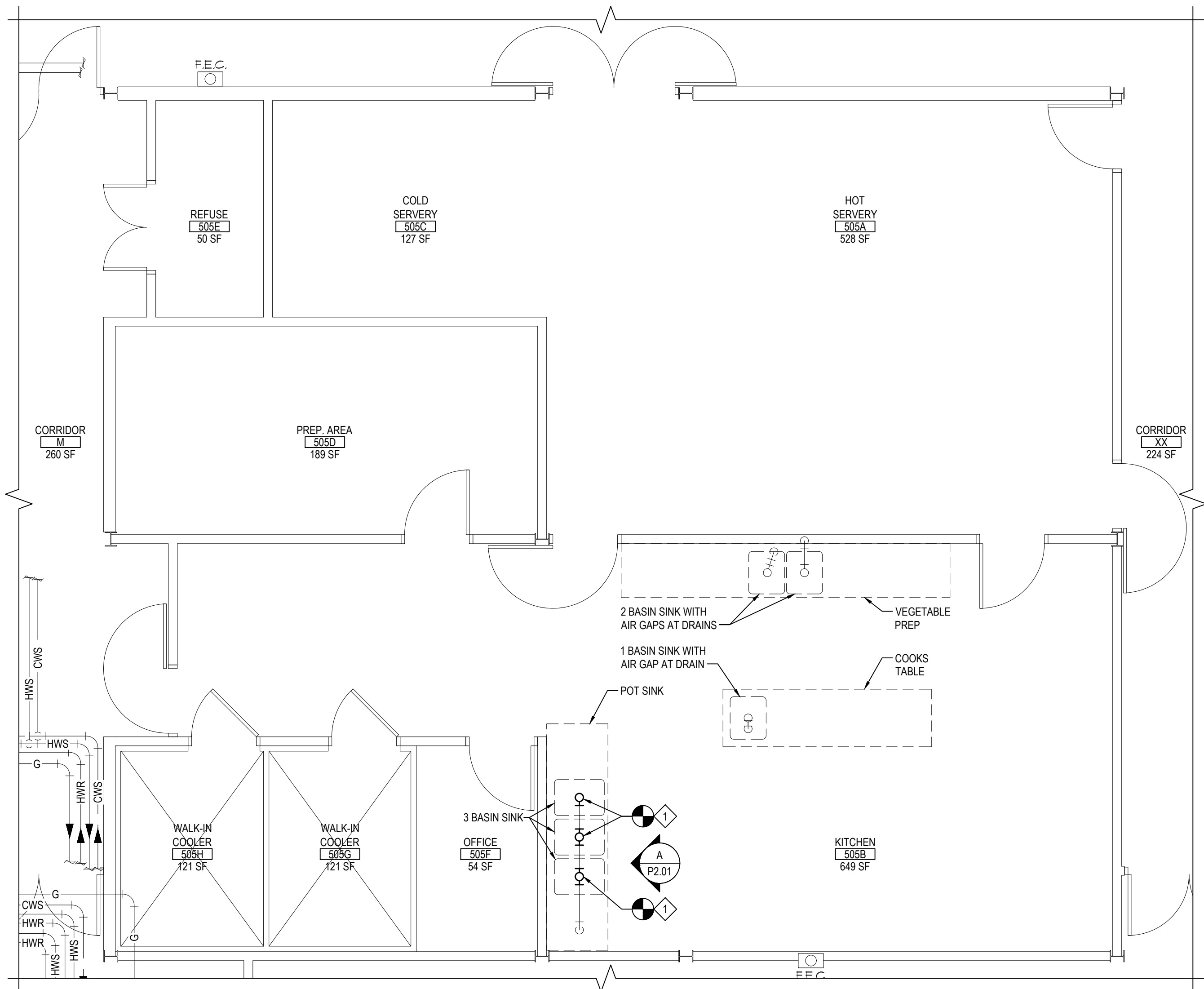
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DATE: 10/8/21

BID PICK-UP: BID PU DATE

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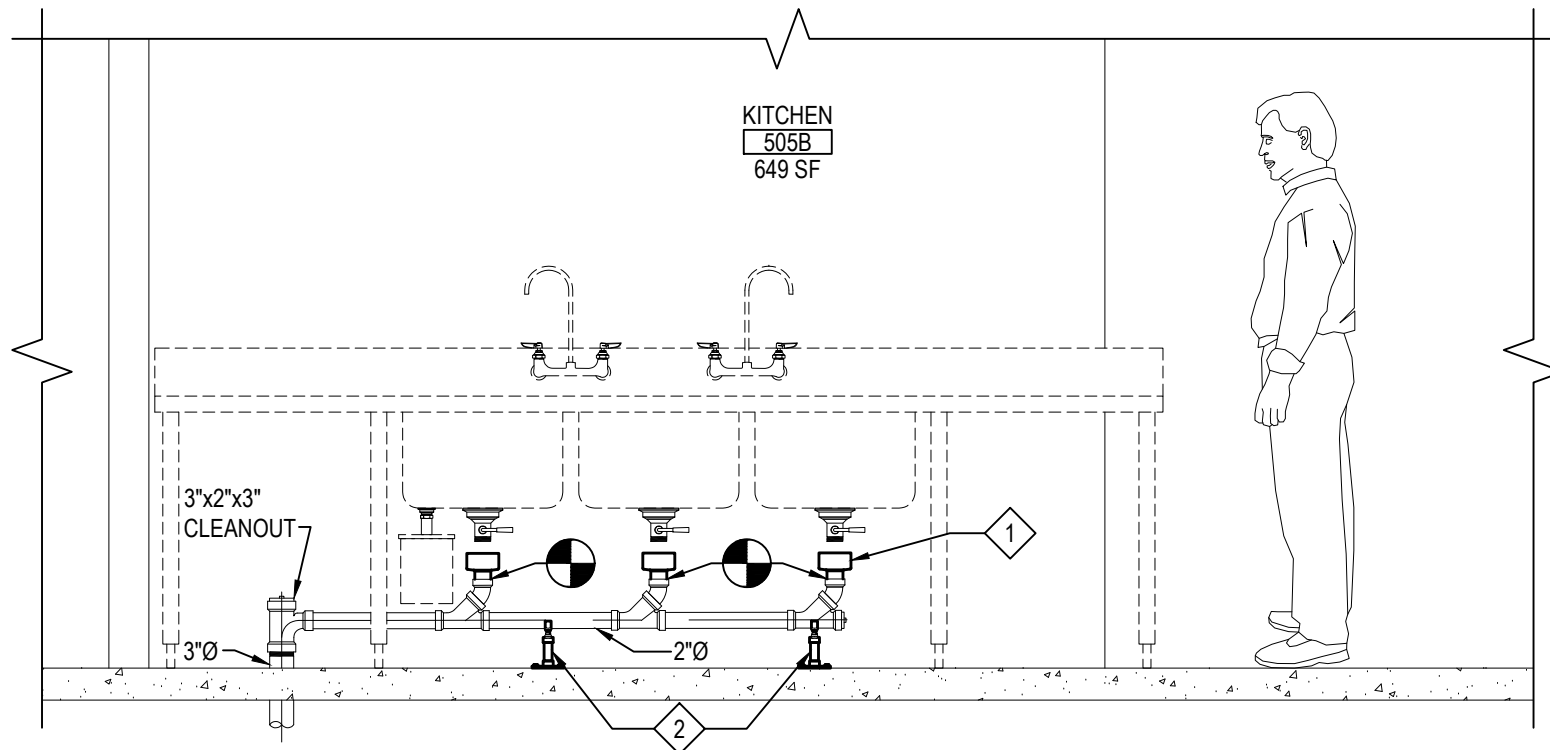
P1.01 OF ---



FIRST FLOOR HIGH SCHOOL KITCHEN NEW WORK PART PLAN

NOTE:

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



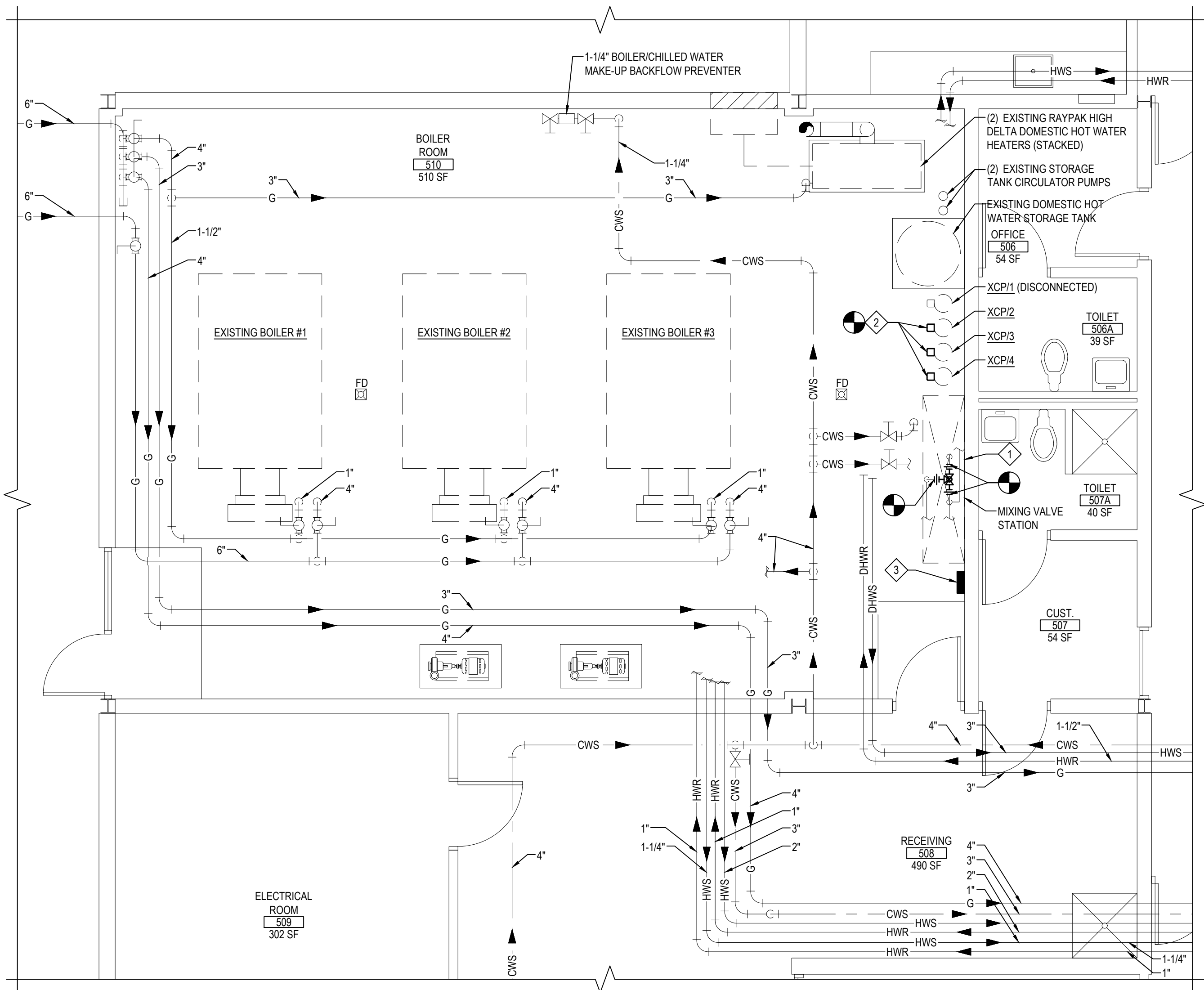
ELEVATION - A

NOTE:

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

KITCHEN KEYED NEW WORK NOTES:

- P.C. TO PROVIDE & INSTALL 2" x 4" COPPER REDUCER. P.C. TO PROVIDE A MINIMUM OF 1" AIR-GAP BETWEEN TOP OF REDUCER AND BOTTOM OF SINK DRAIN PIPE (TYPICAL FOR 3).
- P.C. TO PROVIDE & INSTALL STAINLESS STEEL FLOOR MOUNTED CLAMP-STYLE PIPE SUPPORTS. ANCHOR TO FLOOR TO ENSURE THAT DRAIN PIPE IS IMMOBILIZED IN ALL DIRECTIONS (TYPICAL FOR 2).



BOILER ROOM NEW WORK PART PLAN

NOTE:

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

BOILER ROOM KEYED NEW WORK NOTES:

- P.C. TO REMOVE EXISTING HOT WATER MIXING VALVE AND REPLACE WITH NEW. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS, DRAWING NO. P7.01.
- P.C. TO REPLACE EXISTING HOT WATER AQUASTAT, LIKE-IN-KIND. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS, DRAWING NO. P7.01.
- PROVIDE NEW 4-CHANNEL TIME-CLOCK.

REV.	DATE	ITEM
1	1/14/2022	ISSUED FOR BID

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

DWG TITLE

FIRST FLOOR NEW WORK PART PLANS
AREA "A"

DRAWING BY:

RDP

CHECK BY:

FS

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SED No:

66-14-02-02-0-004-022

DISTRICT

BRIARCLIFF MANOR UFSD
DISTRICT NAME

PROJECT

BOND IMPROVEMENTS
PHASE 1

DWG TITLE

FIRST FLOOR NEW WORK
PART PLANS AREA "A"

SCALE:

AS NOTED

DATE:

10/8/21

BID PICK-UP:

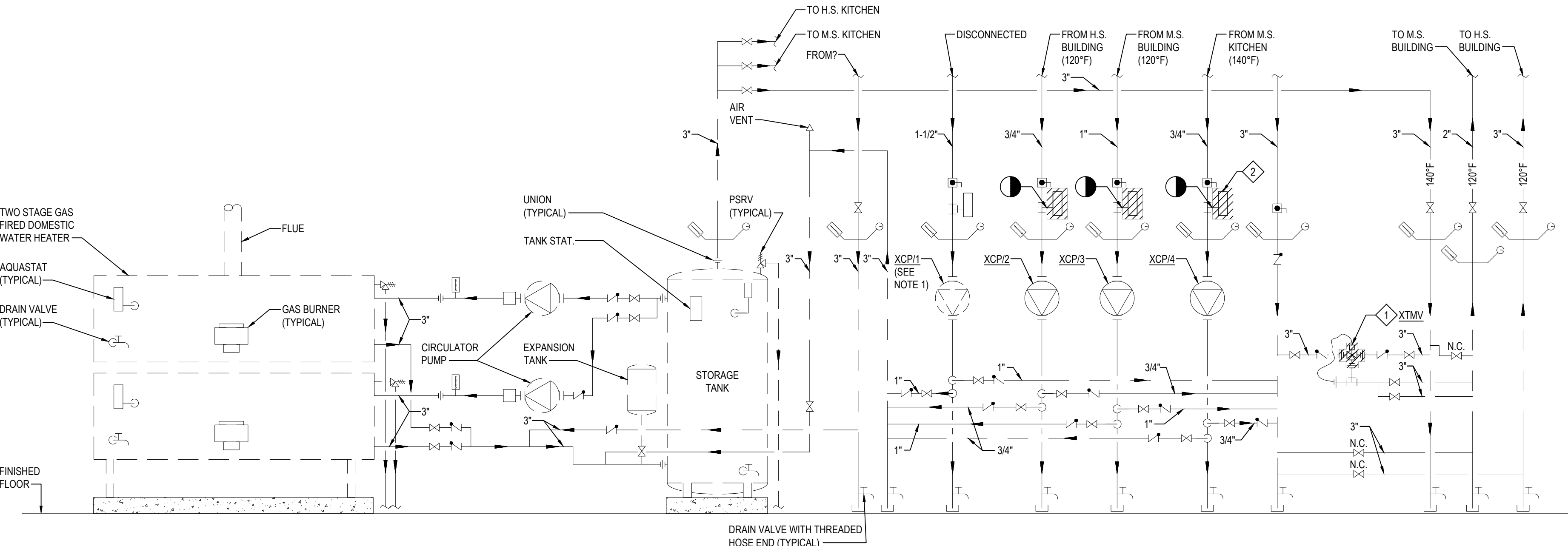
BID PU DATE

FILE No:

21-274A

P2.01

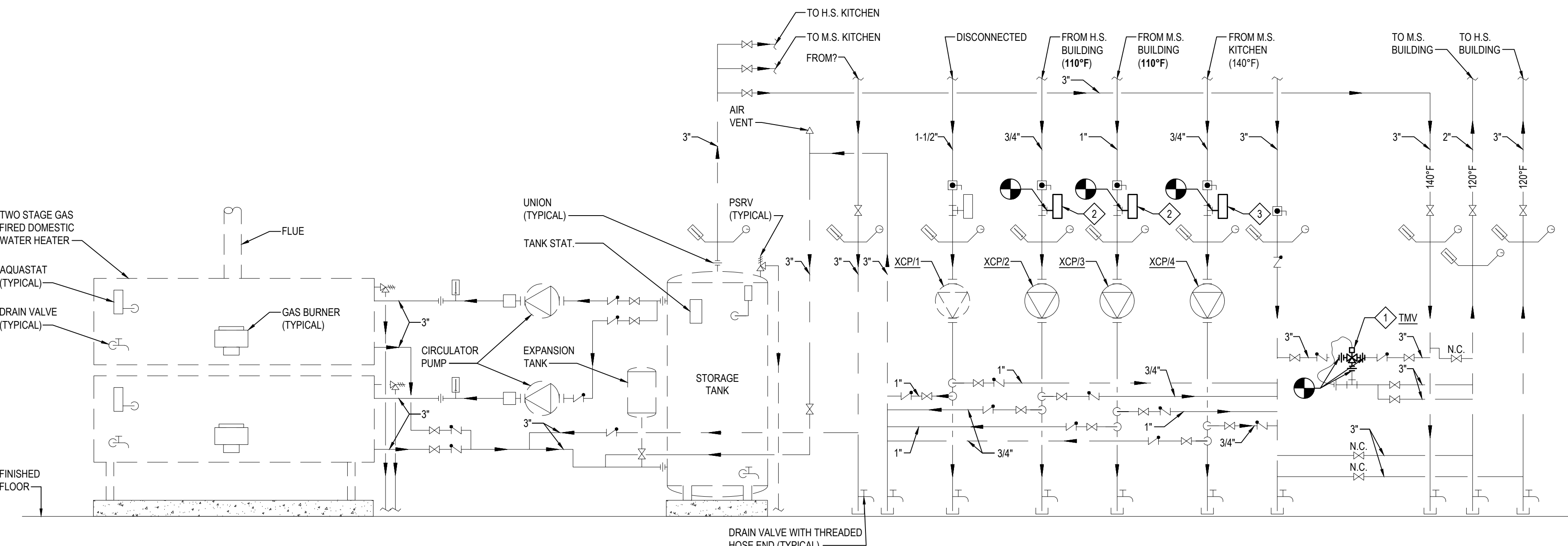
OF - - -



DOMESTIC HOT WATER SCHEMATIC PIPING DIAGRAM - DEMOLITION

NOTE:
1. XCP1 HAS BEEN PARTIALLY REMOVED FROM SYSTEM AND VALVED OFF.

NOT TO SCALE



DOMESTIC HOT WATER SCHEMATIC PIPING DIAGRAM - NEW WORK

NOTE:
NOT TO SCALE

KEYED DEMOLITION NOTES:

- P.C. TO REMOVE EXISTING HOT WATER THERMOSTATIC MIXING VALVE.
- P.C. TO REPLACE EXISTING HOT WATER AQUASTAT, LIKE-IN-KIND. (TYPICAL FOR 3)

KEYED NEW WORK NOTES:

- P.C. TO REPLACE WITH NEW HOT WATER THERMOSTATIC MIXING VALVE. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- P.C. TO REPLACE EXISTING HOT WATER AQUASTAT, LIKE-IN-KIND. P.C. TO SET AQUASTAT TO 110°F
- P.C. TO REPLACE EXISTING HOT WATER AQUASTAT, LIKE-IN-KIND. P.C. TO SET AQUASTAT TO 140°F

NEW THERMOSTATIC MIXING VALVE SCHEDULE (BASIS OF DESIGN: LAWLER)



SUBMITTAL DATA SHEET

temperedwater.com
6330 East 25th St.
Indianapolis, IN 46216
Phone (317) 281-1212
Fax (317) 281-1208

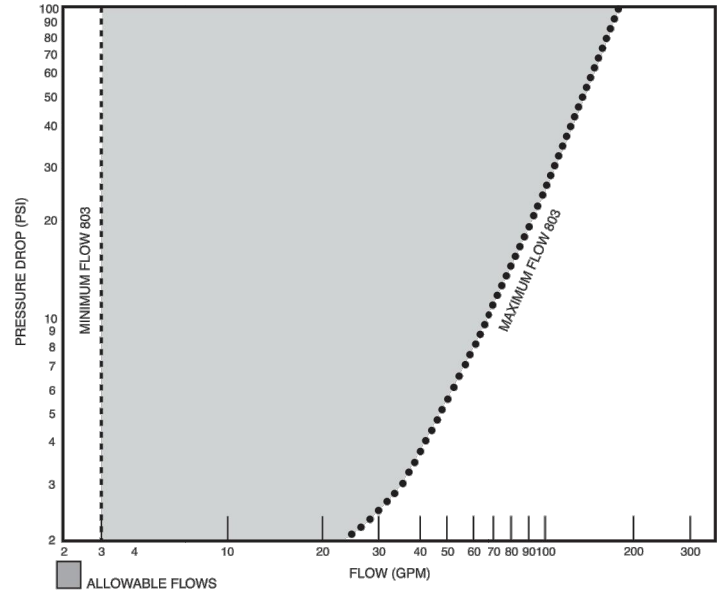


Model 803
Thermostatic Water
Controller
High-Low Water Mixer
Unit No. 73004

CAPACITIES - MODEL 803

Pressure Drop PSI	5	10	20	30	45	60	80
Valve Number	Capacity						
803-GPM	43	60	85	103	125	144	165
803-LFM	163	227	322	390	473	545	624

1/2 gpm when properly installed in recirculated system.



FINISH: Brass
Rough Chrome
Other

TEMP. RANGE
70° to 100°F
90° to 120°F
110° to 140°F
Special

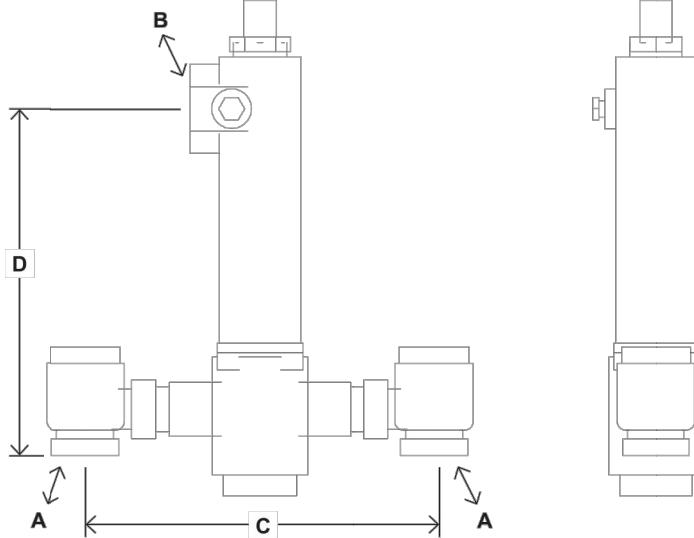
SET POINT
80°F
110°F
130°F

Optional Test Connection
Including garden hose connection,
shut-off and thermometer.
Brass
Rough Chrome

ASME 1917 Approved
ASME Lead Free Certified
Certified to CSA B125.3

Design and specifications subject to change without notice.
Please refer to temperedwater.com to ensure most
current data sheet and other design solutions.

temperedwater.com/patents
ENG. NO. 73004-A



Model 803
Unit No. 73004

Typical Installation

Install the mixing valve below the hot water tank or heater.
If this is not possible, pipe in a heat trap as shown in
Figure 1 with an approximate 2" drop.

Connect a tempered water return line as shown in
Figure 1. This allows flow through both ports of the mixing
valve during periods of no draw.

If a dual temperature system is used, a separate
recirculating loop and pump are required to return high
temperature hot water to the water heater. See Figure 2.

Install an aquastat at the tempered water return pump.

Install the water heater per manufacturer's instructions.

DIMENSIONS

Valve Number	A	N.P.T.	B	N.P.T.	C	D
803	1-7/16"	1-1/2"	13-3/4"	12-1/2"		

Dimensions are for reference purposes only. For rough-in dimensions
please refer to Lawler's Revit/BIM models found at temperedwater.com.

Figure 1

When used in a single temperature
recirculating system

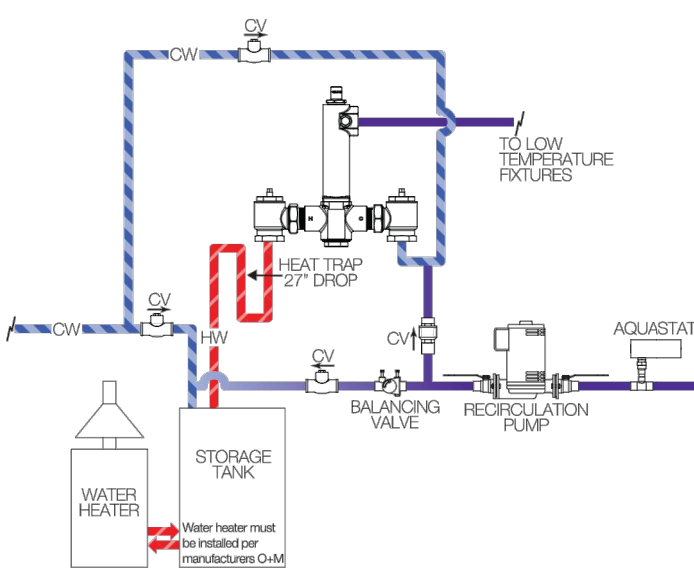
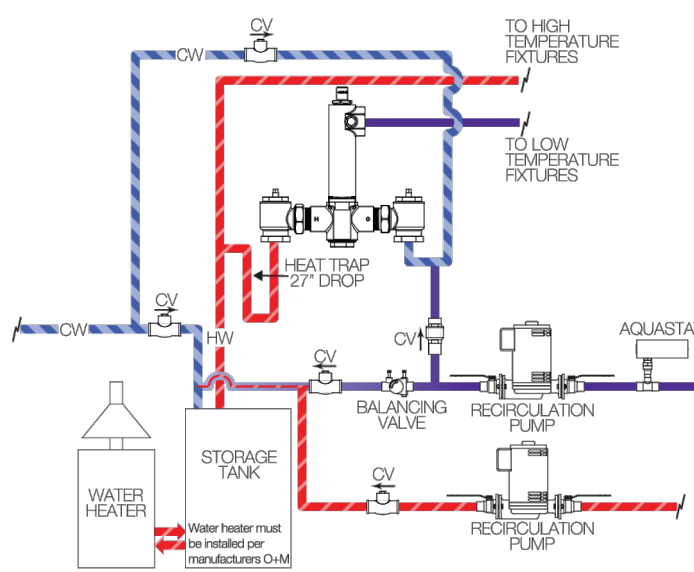


Figure 2

When used in a dual temperature
recirculating system

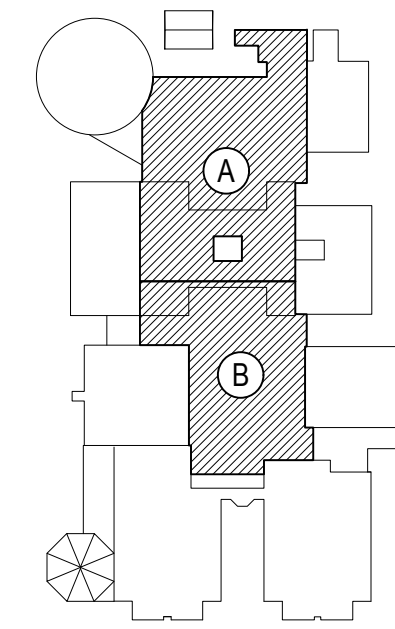


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KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

PROJECT
DWG TITLE

DRAWING BY: RDP
CHECK BY: FS

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SED No:

66-14-02-02-0-004-022

DISTRICT

BRIARCLIFF MANOR UFSD
DISTRICT NAME

PROJECT

BOND IMPROVEMENTS
PHASE 1

DWG TITLE

SCHEM. DIAGRAMS, EQUIPMENT
NOTES, SCHEDULES & DETAILS

SCALE: AS NOTED

DATE: 10/8/21

BID PICK-UP: BID PU DATE

FILE No: 21-274A

P7.01

OF ---

DEMO NOTES:

- 1 EC TO DISCONNECT POWER FOR EXISTING DOOR HOLDERS. TAG WIRING FOR RE-USE. RECONNECT EXISTING OKT. TO NEW DOOR HOLDER.
- 2 WALL AND CEILING AREAS TO BE EFFECTED BY GC SCOPE OF REVERSING DOOR SWING TOWARDS CORRIDOR. EC TO PULL BACK AND TAG ALL WIRING FOR RE-USE. REMOVE ALL ELECTRICAL ITEMS IN WALLS AND CEILINGS IN AREAS INCLUDING BUT NOT LIMITED TO LIGHTS, SWITCHES, GAS SHUT OFF PANELS, PHONES, CLOCKS, SPEAKERS, RACEWAY, JUNCTION BOXES ETC.
- 3 EXISTING SIDE WALL EXHAUST FAN TO BE REMOVED BY MC. EC TO PULL BACK CONDUIT AND WIRING FOR RE-USE. EXTEND EXISTING CIRCUIT WITH 2-#12, 1-#120 IN/TC TO NEW EF-159 ON ROOF. SEE E1.02 FOR LOCATION.

PROPOSED NOTES:

- 1 EC TO WIRE DOOR HARDWARE PROVIDED BY GC. EC TO VERIFY IN FIELD W/ GC AND MATCH VOLTAGE OF OTHER EXISTING MAGNETIC DOOR HOLDERS IN THE BUILDING. WHERE MAGNETIC DOOR HOLDERS REQUIRE 120V POWER, WIRE TO NEARBY ROOM/ CORRIDOR RECEPTACLE CIRCUIT. SEE A-SERIES DWGS. FOR ALL LOCATIONS AND INFO. FURNISH, INSTALL, AND PROGRAM NEW SMOKE DETECTORS ON ROOM SIDE 5' FROM DOOR. EXISTING HALLWAYS AND CORRIDORS HAVE COVERAGE.
- 2 EC TO FURNISH AND INSTALL NEW RECESSED BACK BOXES IN NEW WALLS FOR EXISTING DEVICES. SIZE BACK BOXES AS REQUIRED. COORDINATE LOCATIONS WITH GC.
- 3 REINSTALL ALL REMOVED DEVICES ON NEW WALL. MATCH EXISTING LAYOUT.
- 4 EC TO FURNISH AND INSTALL RECESSED BACK BOX FOR EXISTING PA SPEAKER. SIZE AS REQUIRED.
- 5 REINSTALL ALL REMOVED DEVICES FROM CEILING AND WALLS. MATCH EXISTING LAYOUT.
- 6 NEW LIGHT FIXTURES BY EC. REMOVE EXISTING LIGHT FIXTURE. SEE LIGHTING SCHEDULE ON E1.02

MAGNETIC HOLD OPEN NOTES:

THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW MAGNETIC DOOR HOLDERS ON DOORS AS SPECIFIED AND TIE INTO THE EXISTING FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORY STRUCTURES, SUPPORTS, MOUNTS, NAC PANELS OR OTHER DEVICES NEEDED TO INSTALL, POWER AND HAVE FULLY FUNCTIONAL MAGNETIC UNITS AND MATCHING DOOR PLUNGERS. CEILING TILES OR OTHER STRUCTURES DISTURBED BY THE INSTALLATION SHALL BE RESTORED/REPLACED. LOCATIONS FOR FLOOR MOUNTED MAGNETS SHALL BE SUBMITTED FOR APPROVAL. MATCH VOLTAGE OF EXISTING MAGNETIC DOOR HOLDER WHERE APPLICABLE.

SECOND FLOOR AREA A PLAN

NOTE:

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

SECOND FLOOR AREA B PLAN

NOTE:

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

SECOND FLOOR AREA B PLAN

NOTE:

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

FIRST FLOOR PLAN

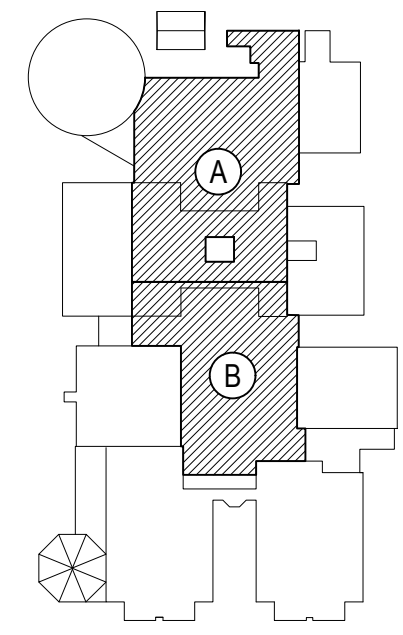
NOTE:

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLEHIGH SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

DWG TITLE

DRAWING BY: A.G.
CHECK BY: FS

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SED No: 66-14-02-02-0-004-022

DISTRICT: BRIARCLIFF MANOR UFSD
DISTRICT NAME:

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: ELECTRICAL 1ST & 2ND FLR
DEMO & PROPOSED PLANS

SCALE: AS NOTED

DATE: 10/8/21

BID PICK-UP: 1/17/2022

FILE No: 21-274A

GENERAL 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 VOLTAGE CHARACTERISTIC OF THIS SCHOOL IS 480/277VAC, 4 WIRE, 3PH, GROUND NEUTRAL WYE. ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
3. 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 NOTED.
4. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEER'S 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 DIVISION 16 CONTRACTOR. THE DIVISION 16 CONTRACTOR SHALL BID THE HIGHER SPECIFICATION FOR ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS.
5. 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.
6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED. ALL NEW ELECTRICAL MATERIAL AND EQUIPMENT SHALL CONFORM TO THE STANDARDS AND BEAR THE INSPECTION LABEL OF THE UNDERWRITERS LABORATORIES AND SHALL BE APPROVED FOR USE BY ALL LOCAL AUTHORITIES HAVING JURISDICTION.
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. CONTRACTOR TO COORDINATE ALL LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER. THE EC IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL. UNLESS IT IS SPECIFIED ON THE DRAWINGS, THE EC SHALL REFER TO THE MECHANICAL 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.
9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE OWNER.
10. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN APPROVED ELECTRICAL INSPECTION CERTIFICATE FROM THE LOCAL AHA AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION. SUBMIT A COPY OF THIS CERTIFICATE TO THE OWNER.
11. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN THE PROJECT MANUAL.
12. IF ADDITIONAL POLE POSITIONS ARE REQUIRED FOR NEW CIRCUITS IN EXISTING PANELS SERVICING RENOVATED AREAS, REMOVE (3) ADJACENT 1 POLE BREAKERS PROVIDE AND INSTALL 3P, 60A BREAKER FOR SUB FEED TO A SURFACE MOUNTED 100A, 3PH, 18 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH A 1P, 20A BREAKER. PROVIDE (3) 1P, 20A BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3Ø + 1Ø(N) + 1Ø(G) IN 1" C.
13. 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 DISCONNECT SUCH ELECTRICAL SOURCES UPON COMPLETION. 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. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NORMALLY NOT IN CONTRACT, SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S CONTRACT.
14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER TO ALL TRADES FOR THE DURATION OF THE PROJECT. SERVICE SHALL BE SUPPLIED TO CONTRACTOR'S CONSTRUCTION TRAILERS WHERE SUCH IS REQUESTED. USE THE EXISTING POWER PANELS FOR SUCH SUPPLY. POWER COSTS WILL BE PAID BY THE OWNER. ALL CONSTRUCTION POWER RECEPTACLES SHALL BE GFI PROTECTED.
15. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES FROM DAMAGES DURING CONSTRUCTION. THIS INCLUDES DEVICES 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, RECEPTACLES, 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.
16. 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. SAFETY OFF THE CIRCUIT(S) AS REQUIRED TO SAFELY PERFORM THE WORK, AND RE-ENERGIZE UPON COMPLETION. UPDATE PANEL DIRECTORIES UPON COMPLETION.
17. ALL WIRING TO BE 1Ø12-1Ø12(N)-1Ø12(G)-3/4" EMT, OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE. ALL DEVICES LOCATED OUTSIDE THE BUILDING SHALL BE WEATHERPROOF.
18. RUN WIRING & CONDUITS IN DROPPED CEILINGS, VOIDS, & CHASES. ALL DEVICES, WIRING & CONDUITS ON NEW CONSTRUCTION MUST BE RECESSED. FOR EXISTING SURFACES: MECHANICAL/WORK SPACES: DEVICES, WIRING & CONDUITS MAY BE SURFACE MOUNTED. EXISTING PUBLISHED FINISHED AREAS: CONDUITS SHALL BE CONCEALED WHEREVER POSSIBLE (IN HUNG CEILINGS, VOIDS/CHASES, FLOOR BELOW OR BEHIND WALLS) ALL WIRING THAT CANNOT BE CONCEALED IN MUST BE RUN IN FINISHED SURFACE RACEWAY SUCH AS: WIREMOLD (V-500/700), COLOR PER ARCHITECT. USE OF ADHESIVE IS PROHIBITED. SURFACE RACEWAY MUST BE SECURED USING MECHANICALLY FASTENED CLIPS. WIRING IN DROPPED CEILINGS SHALL BE SUSPENDED FROM BUILDING STEEL EVERY 5 FT. USE EMT IN AREAS WHERE CONDUIT WOULD BE SUBJECT TO POTENTIAL PHYSICAL DAMAGE SUCH AS GYMNASIUMS, WORK CUSTODIAL AREAS, BOILER ROOMS, ETC.

ABBREVIATIONS

SP = SPARE
EX = EXISTING
N.I.C. = NOT IN CONTRACT
A = AMPS
EC = ELECTRICAL CONTRACTOR
CB = CIRCUIT BREAKER
V.I.F. = VERIFY IN FIELD
ETR = EXISTING TO REMAIN
(E) = EXISTING
WP = WEATHER PROOF
EF = EXHAUST FAN
FA = FIRE ALARM

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-667 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, GP-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL APPLIED 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.

NEW WORK NOTES

1. ALL CONTRACTORS ON THE WORK SITE SHALL COORDINATE THEIR RESPECTIVE WORK SHOWN IN THE DRAWING SET. THE MC HAS PRIORITY OVER WORK CONDUCT ISSUES AS LOCATIONS, SCHEDULES, AND OTHER MATTERS THAT MAY INTERACT WITH THE EC.
2. EC SHALL WIRE EXHAUST FANS VIA VFD'S/MOTOR STARTERS FURNISHED BY MC. EC TO MOUNT AND WIRE POWER FOR VFD'S/MOTOR STARTERS. COORDINATE LOCATION WITH MC. ALL CONTROL WIRING BY MC.
3. EC TO REMOVE AND REINSTALL EXISTING FA MOTOR SHUTDOWN RELAYS.
4. COORDINATE WI MC FOR ALL ROOF PENETRATIONS. SINGLE PENETRATIONS FOR ELECTRICAL AND REFRIGERANT PIPE BY MC.
5. EC TO WIRE ALL LINE VOLTAGE. COORDINATE WI MC.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	MOTOR DISCONNECT FURNISHED BY MC, WIRED AND INSTALLED BY EC
	EXISTING CIRCUIT
	ONE POLE CIRCUIT 2-Ø12, 1-Ø12G, 3/4" C UNLESS OTHERWISE NOTED.
	DOOR HOLDER

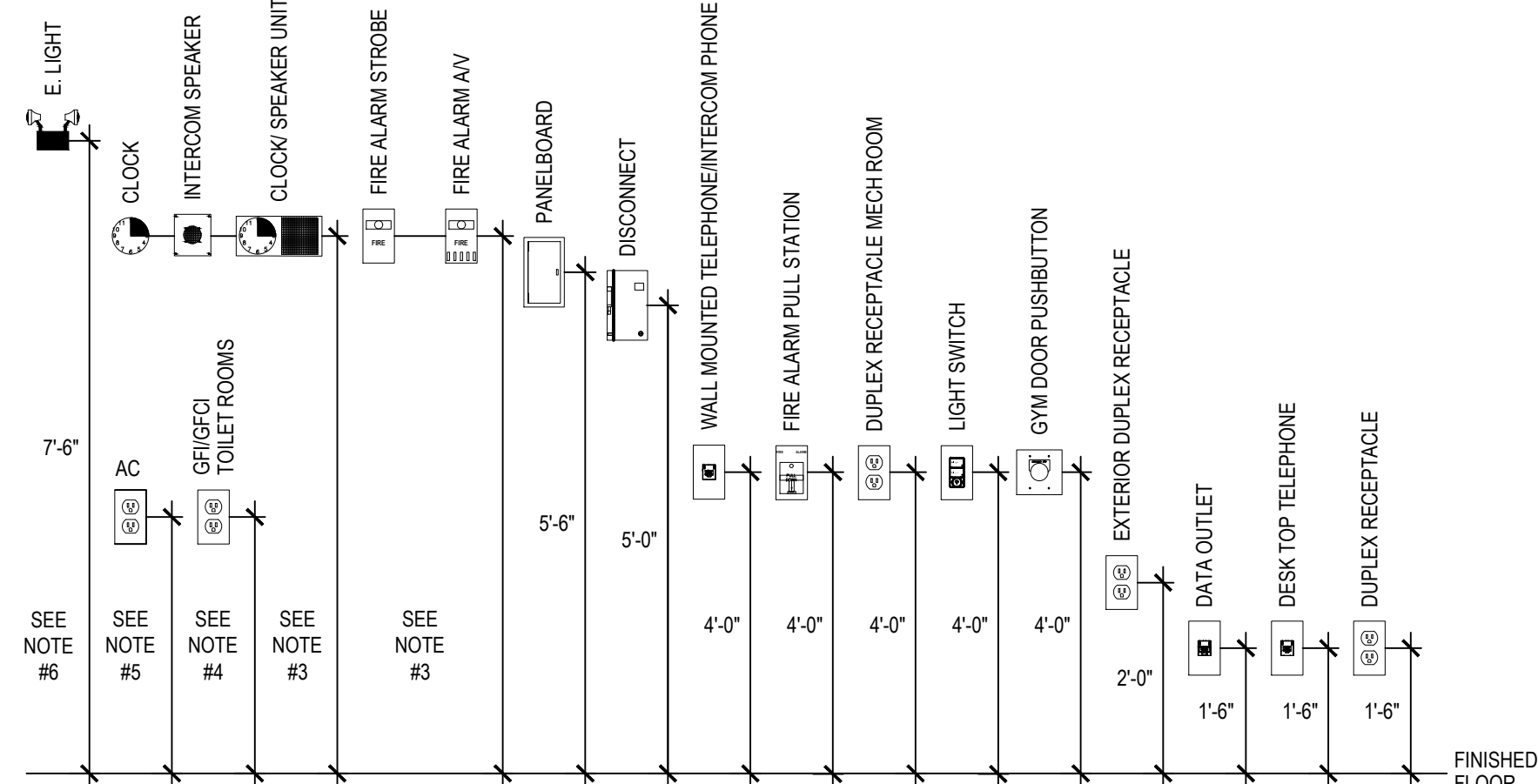
LIGHTING SCHEDULE

CODE	SYMBOL	DESCRIPTION
		NEW EMERGENCY LED LIGHT FIXTURE W/ 90-MINUTE NICAD BATTERY EXITRONIX #LED-90-G2 OR EQUAL.
		SUBSCRIPT V/G - PROVIDE WI POLYCARBONATE VANDAL GUARD.
		NEW EMERGENCY LED LIGHT FIXTURE W/ 90-MINUTE NICAD BATTERY EXITRONIX #LED-90-G2 OR EQUAL.
		SUBSCRIPT V/G - PROVIDE WI POLYCARBONATE VANDAL GUARD.

TYPICAL LIGHTING NOTES:
1. EC SHALL CONNECT EMERGENCY INVERTER/ EMERGENCY LIGHT BATTERY/ EXIT SIGN LEADS DIRECTLY TO THE EXISTING AREA LIGHTING CIRCUIT UPSTREAM OF SWITCHES, CONTACTORS, CONTROLS ETC.

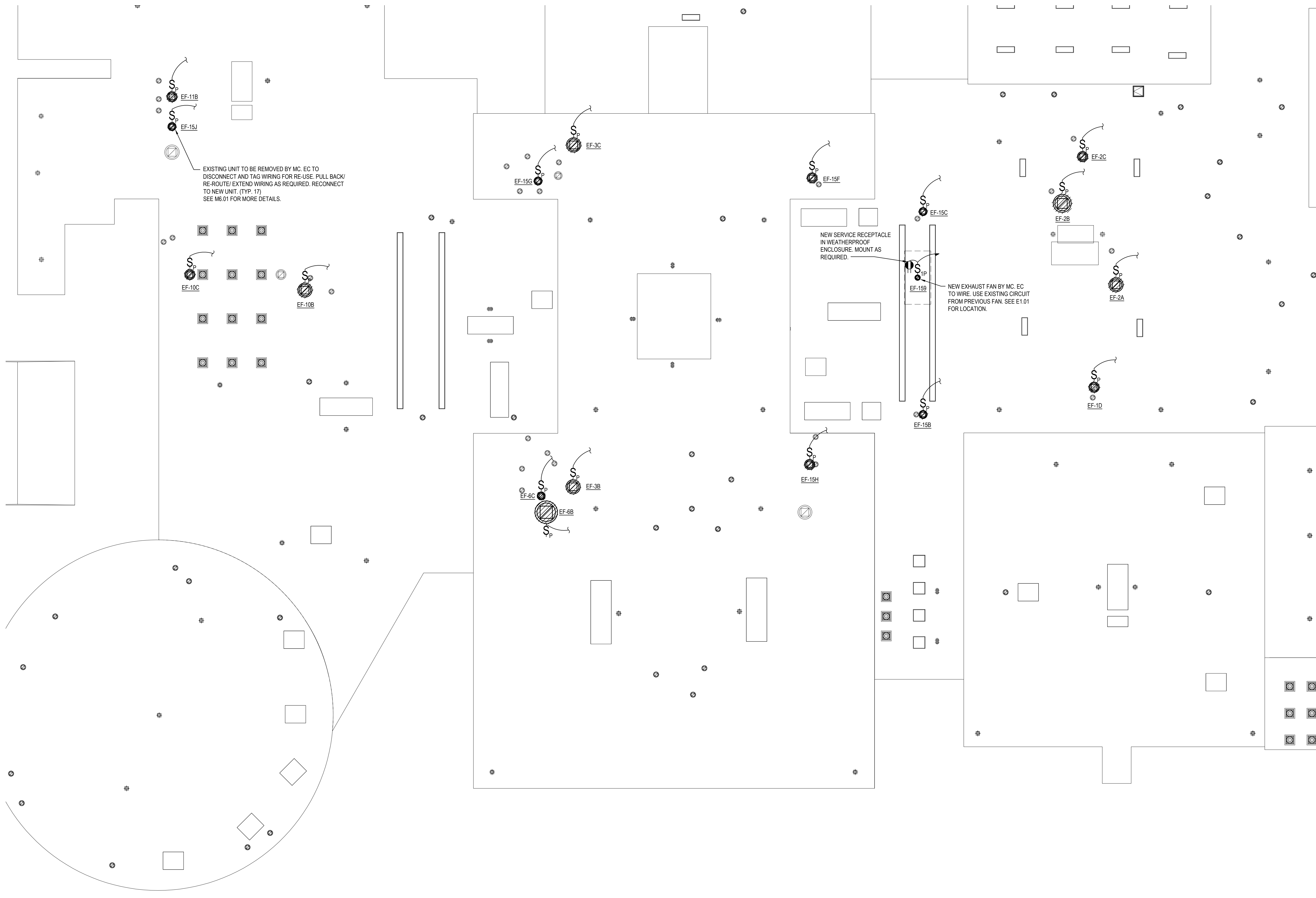
GENERAL FA NOTES:

1. ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH THE EXISTING FACP.
2. CONTRACTOR MAY UTILIZE EXISTING BACKBOXES WHEN CODE AND ADA REQUIREMENTS ARE MET AND COMPATIBLE WITH NEW FIRE ALARM DEVICES. COVER ALL UNUSED REMAINING BACKBOXES WITH STAINLESS STEEL 302 BLANK FACE PLATES. IF BOXES ARE RE-USED DEVICES SHALL BE SWAPPED AT THE TIME OF LOOP SWITCH-OVERS TO ENSURE SYSTEM IS OPERATIONAL FOR THE DURATION OF THE PROJECT.
3. ALL BACK BOXES SHALL BE SIZED TO COMPLETELY FIT THE RESPECTIVE DEVICE AND WIRING WITH NO GAPS, SPACES, OR EXTRA UNNECESSARY ROOM. WIREMOLD BOXES IN FINISHED AREAS ARE REQUIRED, AND SHALL BE RECESSED WHERE POSSIBLE. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DEVICES ARE COMPATIBLE WITH THE APPROPRIATE BACKBOXES.
4. ANY OPENINGS LEFT WHEN DEVICES/CABINETS/PANELS ARE REMOVED SHALL BE COMPLETELY COVERED WITH BLANK METAL PLATES, COLOR TO MATCH ADJACENT. EC IS RESPONSIBLE TO PATCH/PAINT ALL AREAS DISTURBED BY DEMO & INSTALLATION WORK TO MATCH ADJACENT. ALL FINISH WORK IS THE RESPONSIBILITY OF THE EC UNLESS OTHERWISE NOTED.
5. DIVISION 16 CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER SUPPLIES, AUXILIARY CABINETS/BOXES, NAC PANELS, EXPANSION MODULES, BRANCH CIRCUITS ETC. AS REQUIRED BY THE FIRE ALARM MANUFACTURER TO MAINTAIN A FULLY OPERATIONAL SYSTEM. THESE ITEMS ARE NOT SHOWN ON THE PLANS AND ARE THE RESPONSIBILITY OF THE FIRE ALARM VENDOR TO LOCATE AND THE EC TO POWER. LOCATIONS OF ANY TERMINAL CABINETS, BOOSTER POWER SUPPLIES, OR SIMILAR COMPONENTS MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL DURING THE SHOP DRAWINGS PHASE. ANY SMOKE HEADS OR INCIDENTAL DEVICES REQUIRED TO PROTECT SAID CABINETS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE. EC TO INCLUDE IN BID NAC PANEL(S), POWER SUPPLIES, EXPANSION MODULES, ETC. AS REQUIRED TO EXPAND THE EXISTING FACP SYSTEMS PER PLANS.
6. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
7. WHERE EXISTING FIRE ALARM SYSTEMS ARE MODIFIED DURING THE COURSE OF THE PROJECT, CONTRACTOR SHALL PROVIDE OWNER WITH UPDATED COMPLETION RECORD DOCUMENTATION PER NFPA 72, ARTICLE 10.18. INCLUDE COPY OF UPDATED SITE SPECIFIC SOFTWARE. ANY ADDITIONAL DEVICES SHALL BE MAPPED INTO THE SYSTEM WITH THE APPROPRIATE ADDRESSES/LABELS.
8. FIRE ALARM WIRING FOR NEW DEVICES SHALL BE NEW, PLENUM RATED, AND PER MFG INSTRUCTIONS.



DEVICE MOUNTING HEIGHT DETAIL

SCALE: N.T.S.



ROOF PLAN

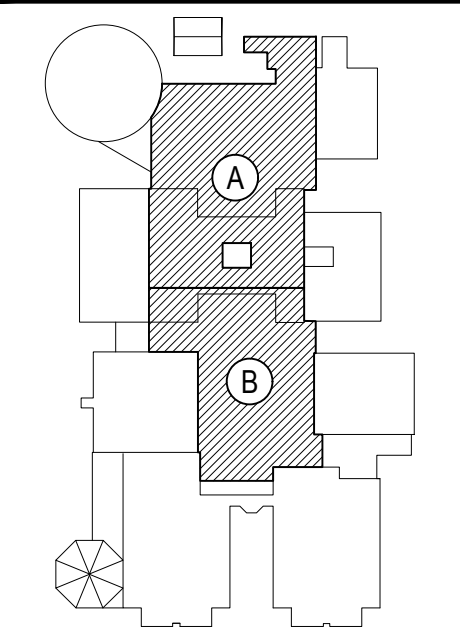
NOTE:

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

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
MIDDLE/HIGH SCHOOL
BRIARCLIFF MANOR WEST/CHESTER

GENERAL NOTES AND ROOF PLAN

PROJECT
DRAWING BY: A.G.
CHECK BY: F.S.

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66-14-02-02-0-004-022

DISTRICT

BRIARCLIFF MANOR UFSD

DISTRICT NAME

PROJECT

BOND IMPROVEMENTS

PHASE 1

DWG TITLE

ELECTRICAL

GEN. NOTES AND ROOF PLAN

SCALE:

AS NOTED

DATE:

10/8/21

BID PICK-UP:

11/7/2022

FILE No:

21-274A

E1.02



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DATE

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KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WESTCHESTER

ROOF DEMOLITION PLAN

DRAWING BY: GEO

CHECK BY: GEO

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DISTRICT

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PROJECT

BOND IMPROVEMENTS
PHASE 1

DWG TITLE

ROOF DEMOLITION PLAN

SCALE:

AS NOTED

DATE:

10/08/21

BID PICK-UP:

BID P/U DATE

FILE No:

21-2748

A3.01



REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WEST CHESTER

DWG TITLE

PROPOSED DEMOLITION PLAN

DRAWING BY: GEO
CHECK BY: GEO

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SED No: 66-14-02-0-002-020

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: PROPOSED DEMOLITION PLAN

SCALE: AS NOTED
DATE: 10/08/21
BID PICK-UP: BID PU DATE
FILE No: 21-2748

A3.02 TES



NOTICE

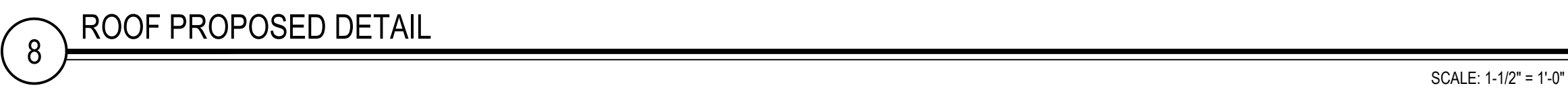
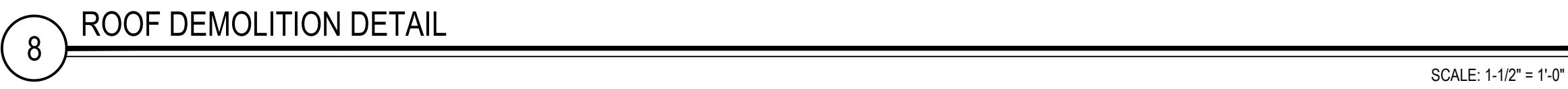
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KEY PLAN

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WESTCHESTER

ROOF DETAILS



-
- NEW CAST IRON DOME STRAINER
- NEW CAST IRON CLAMPING RING
- EPDM SEALING MASTIC
- NEW CAST IRON 2" STATIC EXTENSION RING
- NEW 4"x4" TAPERED DRAIN SUMP
- NEW EPDM MEMBRANE
- NEW ROOF COVER BOARD AS SPEC'ED
- NEW TAPERED INSULATION
- T2
- 3
- NEW VAPOR BARRIER OVER GYPSUM SUBSTRATE (TYP.)
- EXISTING ROOF DECK TO REMAIN. A DECK TYPE MAY VARY BY LOCATION. REFER TO ROOF COMPOSITION OR FOR ADDITIONAL INFO. (TYP.)
- EXISTING ROOF DRAIN BOWL ASSEMBLY TO REMAIN (TYP.)
- G.C. SHALL VERIFY ATTACHMENT OF ROOF DRAIN LINES TO DRAIN BODY & REATCHAT IF NECESSARY. G.C. SHALL CLEAR ALL DRAIN LINES OF DEBRIS.



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<u>DISTRICT</u>	BRIARCLIFF MANOR UFSD
<u>PROJECT</u>	BOND IMPROVEMENTS PHASE 1
<u>DWG TITLE</u>	ROOF DETAILS
<u>SCALE:</u>	AS NOTED
<u>DATE:</u>	10/08/21
<u>BID PICK-UP:</u>	BID PU DATE
<u>FILE No:</u>	21-274B

A3.03 TES

PIPING SYMBOL LEGEND		
SYMBOL	DESCRIPTION	
	PIPING TO RISE UP	
	PIPING TO DROP DOWN	
	PIPING ANCHOR	
	PIPING GUIDE	
	COLD WATER SUPPLY PIPING	
	HEATING SYSTEM SUPPLY PIPING	
	HEATING SYSTEM RETURN PIPING	
	CHILLED WATER SUPPLY PIPING	
	CHILLED WATER RETURN PIPING	
	CONDENSER WATER SUPPLY PIPING	
	CONDENSER WATER RETURN PIPING	
	CONDENSATE DRAINAGE PIPING	
	FUEL OIL SUPPLY PIPING	
	FUEL OIL RETURN PIPING	
	LOW PRESSURE NATURAL GAS PIPING	
	ELEVATED PRESSURE NATURAL GAS PIPING	
	GAS COCK	
	DIRT LEG IN PIPING	
	LIQUEFIED PETROLEUM GAS PIPING	
	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	

MECHANICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	
	RECTANGULAR GALVANIZED DUCTWORK - DIMENSIONS W x H	
	NEW EXHAUST DUCTWORK TO RISE UP	
	NEW EXHAUST DUCTWORK TO DROP DOWN	
	TRANSITION IN DUCTWORK	
	ELBOW IN DUCTWORK w/ TURNING VANES	
	ELBOW IN DUCTWORK (RADIUS + 1.5 x D)	
	45 DEG. TAKEOFF FITTING	
	90 DEG. TAKEOFF w/ BELLMOUTH FITTING	
	CEILING RETURN AIR REGISTER	
	ROOF MOUNTED EXHAUST FAN	

- DUCTWORK NOTES:**
- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, AND IN CONFORMANCE WITH "SMACNA" SPECIFICATIONS.
 - IF A DUCT ELBOW IS SHOWN TO BE RADIUS'D, THEN RADIUS'D ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUS'D ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
 - 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.
 - 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.
 - MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

- GENERAL NOTES**
- 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.
 - 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 & PROVIDING 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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 OWNERS REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTOR'S COST.
 - CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
 - 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.
 - PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
 - 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.
 - CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
 - PAINT / TOUCH UP ALL SURFACES MARKED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
 - 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.
 - 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.
 - 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.
 - "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, MERV10 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PIECE OF EQUIPMENT & TURN OVER TO OWNER.
 - 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.
 - MAINTENANCE MANUAL - UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PIECE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PIECE 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 PIECE OF EQUIPMENT USED.

- ROOFING CONSTRUCTION NOTES:**
- ALL EXISTING DIMENSIONS AND CONDITIONS ARE APPROXIMATE. MECHANICAL CONTRACTORS MUST FIELD VERIFY ALL CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR BIDDING AND ESTIMATING. PRE-BID SITE INSPECTION IS STRONGLY RECOMMENDED. ALL CONTRACTORS SHALL CONTACT THE SCHOOL TO MAKE AN APPOINTMENT FOR SITE VISIT. UNDER NO CIRCUMSTANCES WILL ANY CONTRACTOR BE ALLOWED TO SHOW UP WITHOUT AN APPOINTMENT.
 - IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE MAINTAINED AS CLEAR, AND PROTECTED DURING THE ENTIRE CONSTRUCTION PERIOD.
 - ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE MECHANICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE OWNER, AND MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO THE OWNER.
 - THE MECHANICAL CONTRACTOR IS TO PROTECT AND MAKE WATER TIGHT ALL AREAS OF HIS WORK FROM INCMLENT WEATHER DURING AND AT THE END OF EVERY DAY OF WORK OPERATIONS.
 - ALL PROJECT WASTE MATERIAL AND RUBBISH GENERATED BY THE MECHANICAL CONTRACTOR AND / OR HIS SUB-CONTRACTORS SHALL BE DISPOSED IN CONTAINERS FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH BUILDINGS AND GROUNDS. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
 - ALL FLASHING ON MECHANICALS MUST BE INSTALLED AT A DISTANCE ABOVE THE FINISHED ROOF SURFACE TO INSURE CONFORMANCE WITH ROOFING MANUFACTURERS WARRANTY REQUIREMENTS. INCLUSIVE OF ALL CONDITIONS, NO EXCEPTIONS WILL BE MADE.
 - THE ROOFING CONTRACTOR SHALL BE SURE TO MAINTAIN ANY/ALL EXISTING ROOFING WARRANTY IN PLACE AT THOSE ROOFS WHICH CUTTING, PATCHING AND RE-FLASHING IS REQUIRED. THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY & ALL REPAIRS TO EXISTING ROOFING SYSTEM AS REQUIRED TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND SHALL MAINTAIN ALL EXISTING WARRANTIES.
 - THE ROOFING CONTRACTOR (R.C.) SHALL BE RESPONSIBLE FOR ALL NEW ROOF PENETRATIONS FOR NEW MECHANICAL UNITS ON EXISTING ROOF. R.C. SHALL COORDINATE SETTING OF CURBS WITH THE MECHANICAL CONTRACTOR (M.C.) AND R.C. SHALL BE RESPONSIBLE FOR ALL PATCHING/FLASHING OF EXISTING ROOF. THE MECHANICAL CONTRACTOR SHALL USE CERTIFIED ROOF INSTALLER AS APPROVED BY MANUFACTURER OF EXISTING ROOF AS TO NOT VOID EXISTING ROOF WARRANTY. COORDINATE WITH OWNER.
 - THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION OF ALL MECHANICAL UNITS/ EQUIPMENT WITH ALL OTHER TRADES.
 - ALL WALL & FLOOR PENETRATIONS SHALL BE DONE BY ROOFING CONTRACTOR WITH MECHANICAL CONTRACTOR PRESENT.

- GENERAL NOTES FOR ALL ROOFTOP EQUIPMENT:**
- PROVIDE DISCONNECT SWITCH FOR EACH NEW EQUIPMENT.
 - R.C. SHALL MAKE ALL ROOF PENETRATIONS IN THE PRESENCE OF THE MECHANICAL CONTRACTOR.
 - MECHANICAL CONTRACTOR SHALL FURNISH NEW ROOF CURBS TO R.C. R.C. SHALL CUT HOLES IN ROOF IN PRESENCE OF M.C. AND R.C. SHALL INSTALL NEW ROOF CURBS IN THE PRESENCE OF THE CERTIFIED M.C. R.C. SHALL BE RESPONSIBLE FOR FLASHING ALL NEW ROOF CURBS. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS OF FLASHING ROOF CURBS.

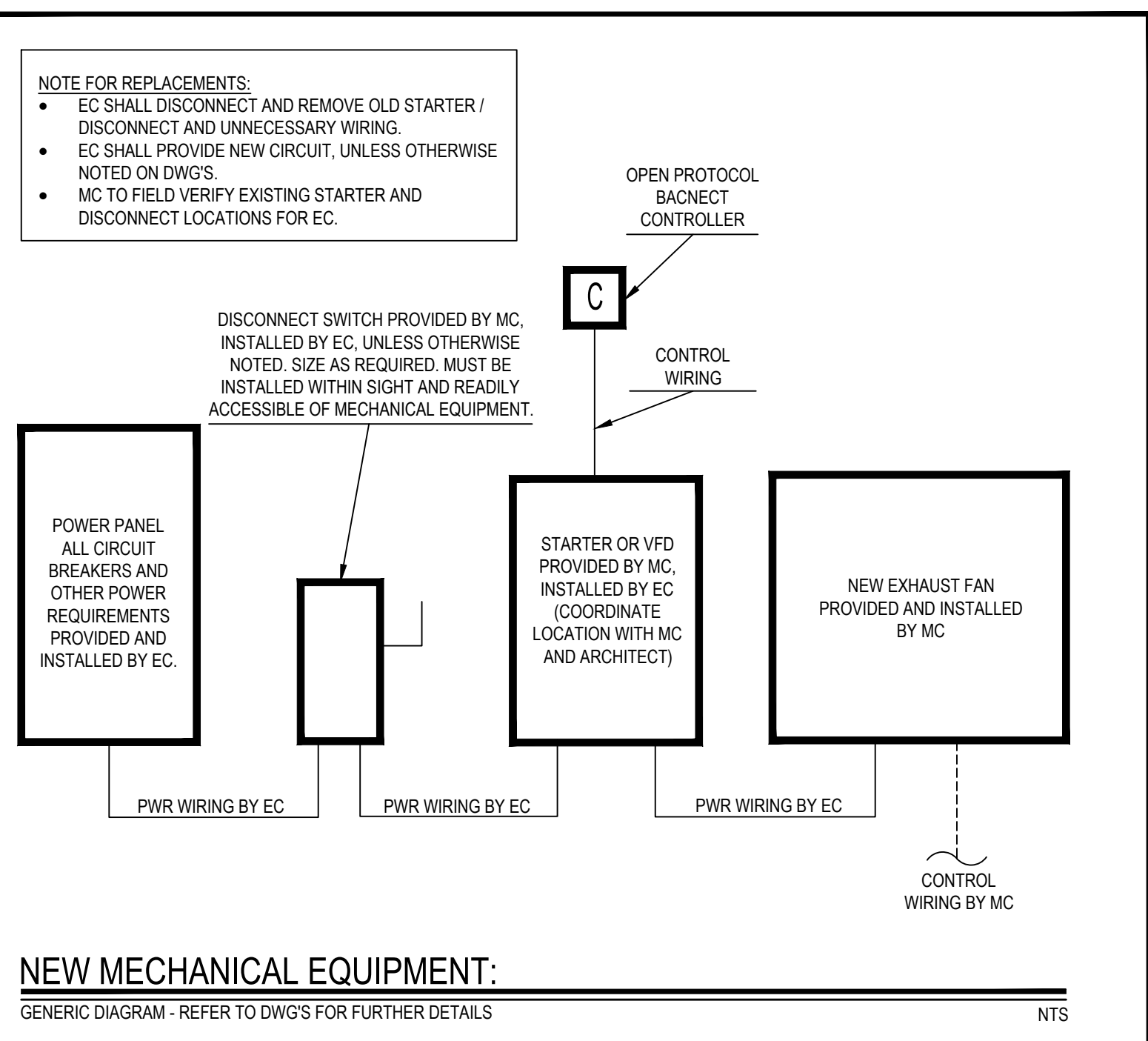
- GENERAL MECHANICAL NOTES:**
- PROVIDE AND INSTALL 2" ACOUSTIC FIBERGLASS 3-LBS. DENSITY WITHIN ROOF CURBS AND ADAPTER ROOF CURBS.
 - ALL DISCONNECT SWITCHES AND STARTERS TO BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY THE ELECTRICIAN.
 - DUCT SIZE DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
 - CONTROLS CONTRACTOR SHALL FURNISH ALL CONTROLS EQUIPMENT AND PROVIDE TO MECHANICAL CONTRACTOR TO INSTALL. CONTROLS CONTRACTOR SHALL WIRE ALL CONTROLS EQUIPMENT.
 - UNLESS OTHERWISE NOTED, THE GENERAL CONTRACTOR (G.C.) SHALL MAKE ALL INTERIOR WALL, CEILING, & FLOOR PENETRATIONS FOR PIPING & DUCTWORK. M.C. SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES. M.C. SHALL BE PRESENT WHEN G.C. MAKES PENETRATIONS FOR ALL MECHANICAL PIPING & DUCTWORK.

- GENERAL EXHAUST FAN NOTES:**
- E.C. SHALL DISCONNECT & REMOVE EXISTING STARTERS FOR ALL EXHAUST FANS SHOWN TO BE REPLACED. THEN M.C. SHALL PROVIDE NEW STARTERS & DISCONNECTS FOR THOSE EXHAUST FANS BEING REPLACED. E.C. SHALL INSTALL NEW STARTERS/ DISCONNECTS, VERIFY EXISTING LOCATIONS OF ALL EXISTING EXHAUST FAN STARTERS.
 - M.C. SHALL PROVIDE AND INSTALL NEW ADAPTER CURB ASSEMBLIES AS REQ'D. TO MOUNT NEW EXHAUST FANS IN EXIST. EXHAUST FAN LOCATIONS.
 - M.C. SHALL MODIFY AS NECESSARY ALL EXIST. EXHAUST FAN EQUIPMENT TO COMPLETELY INSTALL THE NEW REPLACEMENT EXHAUST FAN ASSEMBLIES.
 - FOR FURTHER DETAILS ON ALL MECHANICAL EXHAUST FAN EQUIPMENT REFER TO MECHANICAL DRAWINGS.

ABBREVIATIONS		
A.E.F.	ABOVE FINISHED FLOOR	No./#
B.D.	BACKDRAFT DAMPER	NOM.
C.W.S.	COLD WATER SUPPLY	N.T.S.
C.E.M.	CUBIC FEET OF AIR PER MINUTE	O.A.
D.	DEEP / DEPTH	O.N.CENTER
DIA./c.	DIAMETER	O.D.
E.A.T.	FLOAT & THERMOSTAT	O.S.&Y.
E.P.M.	FEET PER MINUTE	O.N.CENTER
E.S.D.	FIRE DAMPER - DUCT MOUNTED	P.E.
E.F.E.X.	FLEXIBLE	P.P.E.A.R.
E.Q.	FLAT OVAL DUCTWORK	P.R.V.
GAL.	GALLONS	P.S.I.
G.P.H.	GALLONS PER HOUR	R.A.
G.P.M.	GALLONS PER MINUTE	R.E.Q'D.
H.	HIGH	R.P.M.
H.C.	HANDICAPPED	S.A.
H.W.S.	HEATING SYSTEM HOT WATER SUPPLY	SCH.
H.W.R.	HEATING SYSTEM HOT WATER RETURN	S.P.
H.P.	HORSEPOWER	STD.
I.D.	INSIDE DIAMETER	T.
K.W.	KILOWATT	T.E.V.
L.	LONG	T.Y.P.
L.A.T.	LEAVING AIR TEMPERATURE	V.M.
L.W.T.	LEAVING WATER TEMPERATURE	V.D.
M.A.X.	MAXIMUM	V.E.I.
M.I.N.	MINIMUM	V.F.D.
M.B.H.	BTU x 1,000	V.W.F.
M.F.R.	MANUFACTURER	W.
M.H.	MANHOLE	W.O.
M.S.C.	MISCELLANEOUS	W.R.
M.T.D.	MOUNTED	W.T.D.
N.	NATURAL GAS	W.T.R.
N.L.C.	NOT IN CONTRACT	W.P.D.

- FIRESTOPPING NOTES:**
- ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED BY MECHANICAL CONTRACTOR.
 - 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.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED.
 - FIRESTOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS.

- ROOFTOP MECHANICAL EQUIPMENT DEMOLITION PLAN GENERAL NOTES:**
- MECHANICAL CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL EXISTING MECHANICAL RELATED EQUIPMENT, DUCTWORK, PIPING, LOUVERS, AND ROOFTOP EQUIPMENT PRIOR TO START OF ANY WORK.
 - MECHANICAL CONTRACTOR SHALL COORDINATE ALL ROOF DEMOLITION PLAN WORK AND WALL DEMOLITION PLAN WORK WITH GENERAL CONTRACTOR.
 - REMOVE EXISTING EQUIPMENT AS SHOWN ON PLANS. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK AND ASSOCIATED ROOF CURBS, ASSOCIATED DUCTWORK, WALL LOUVERS, WHERE CALLED OUT IN KEY PLAN NOTES. MECHANICAL CONTRACTOR SHALL COORDINATE REMOVAL OF ALL ROOF MECHANICAL EQUIPMENT WITH ROOFING CONTRACTOR.
 - ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY ROOF PENETRATION THAT SHALL NOT BE RE-USED. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS ON ROOF PATCHING.
 - GENERAL CONTRACTOR (G.C.) SHALL BE RESPONSIBLE FOR PATCHING ALL WALL PENETRATIONS; ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL ROOF PENETRATIONS AND FLASHING ALL NEW ROOF CURBS. MECHANICAL CONTRACTOR (M.C.) SHALL BE RESPONSIBLE FOR MAKING ALL WALL PENETRATIONS IN THE PRESENCE OF THE GENERAL CONTRACTOR. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ROOF PENETRATIONS AND INSTALLING ROOF CURBS.



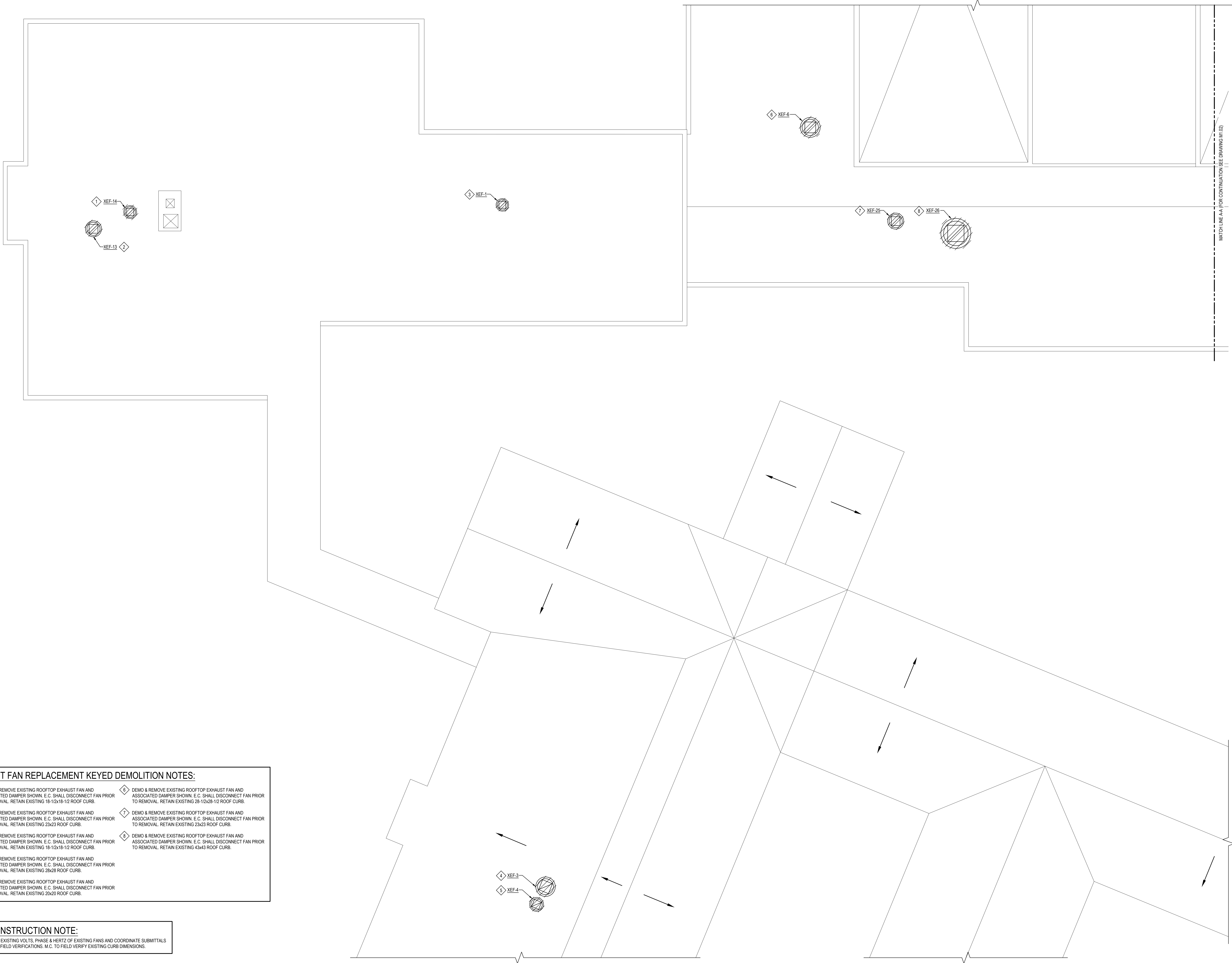
- TESTING and BALANCING NOTES**
- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15991 FOR FURTHER DETAILS.
 - 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 THE ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
 - 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.

- ELECTRICAL WORK UNDER MECHANICAL CONTRACT**
- 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.
 - 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.

- LOCK OUT-TAG OUT NOTIFICATION:**
- IN ACCORDANCE WITH OSHA REGULATIONS - ALL CONTRACTORS MUST PROPERLY LOCK-OUT & TAG OUT ALL ELECTRICAL EQUIPMENT THEY ARE WORKING ON, PRIOR TO DISMANTLING FOR SERVICE OR CLEANING.

CONTRACTOR ABBREVIATIONS:	
M.C. = MECHANICAL CONTRACTOR	P.C. = PLUMBING CONTRACTOR
C.C. = CONTROLS CONTRACTOR	E.C. = ELECTRICAL CONTRACTOR
G.C. = GENERAL CONTRACTOR	C.W.C. = CASEWORK CONTRACTOR
R.C. = ROOFING CONTRACTOR	

MECHANICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	
	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	



- EXHAUST FAN REPLACEMENT KEYED DEMOLITION NOTES:**
- 1 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 18-1/2x18-1/2 ROOF CURB.
 - 2 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 23x23 ROOF CURB.
 - 3 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 18-1/2x18-1/2 ROOF CURB.
 - 4 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 28x28 ROOF CURB.
 - 5 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 20x20 ROOF CURB.
 - 6 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 25-1/2x25-1/2 ROOF CURB.
 - 7 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 23x23 ROOF CURB.
 - 8 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 43x43 ROOF CURB.

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.

ROOF DEMOLITION PART PLAN - AREAS "A", "B" & "C"

NOTE:

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

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WESTCHESTER

DWG TITLE

ROOF DEMOLITION PART PLAN
AREAS "A", "B" & "C"

DRAWING BY: RDP
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SED No: 66-14-02-02-0-002-020

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: ROOF DEMOLITION PART PLAN
AREAS "A", "B" & "C"

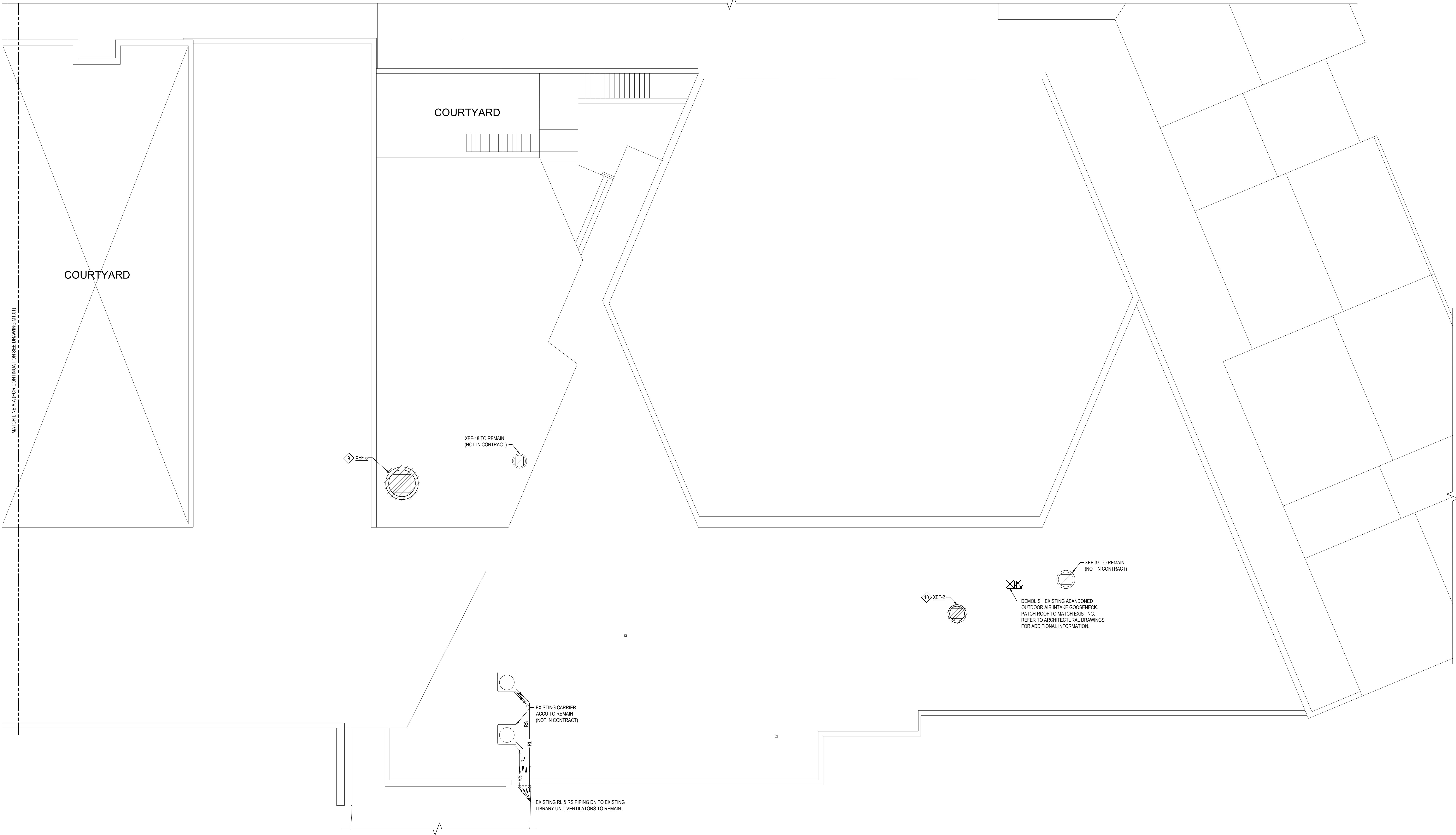
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FILE No: 21-274B

M1.01



ROOF DEMOLITION PART PLAN - AREAS "D", "E" & "F"

NOTE:

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

EXHAUST FAN REPLACEMENT KEYED DEMOLITION NOTES:

- 9 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN, ROOF CURB AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL.
- 10 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING 24x24 ROOF CURB.

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.

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KEY PLAN
NOT TO SCALE

PROJECT
BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WESTCHESTER

DWG TITLE
ROOF DEMOLITION PART PLAN
AREAS "D", "E" & "F"

DRAWING BY: RDP
CHECK BY: FS

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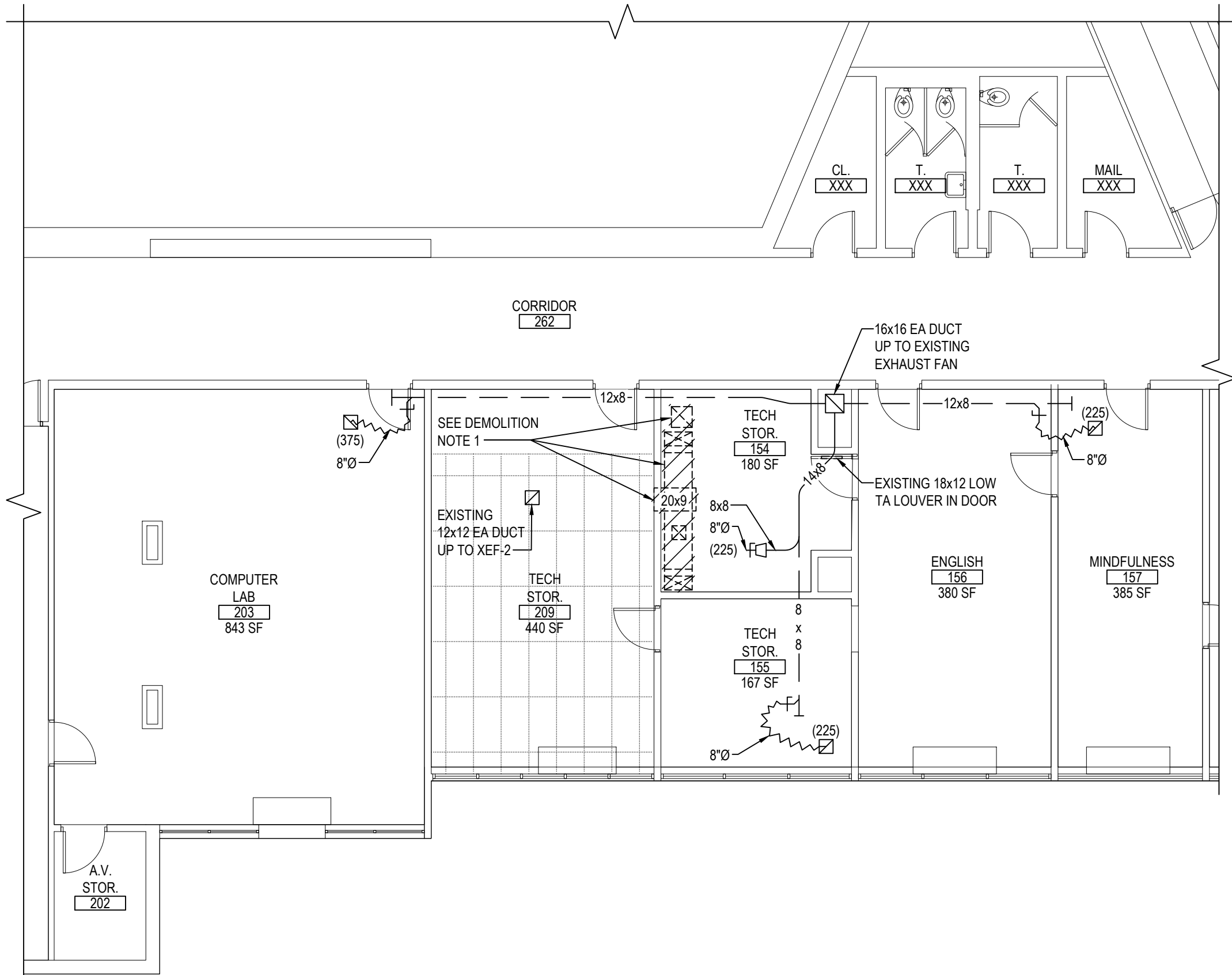
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SED No: 66-14-02-02-0-002-020
DISTRICT: BRIARCLIFF MANOR UFSD
PROJECT: BOND IMPROVEMENTS
PHASE 1
DWG TITLE: ROOF DEMOLITION PART PLAN
AREAS "D", "E" & "F"
SCALE: AS NOTED
DATE: 10/08/21
BID PICK-UP: 1/17/2022
FILE No: 21-274B

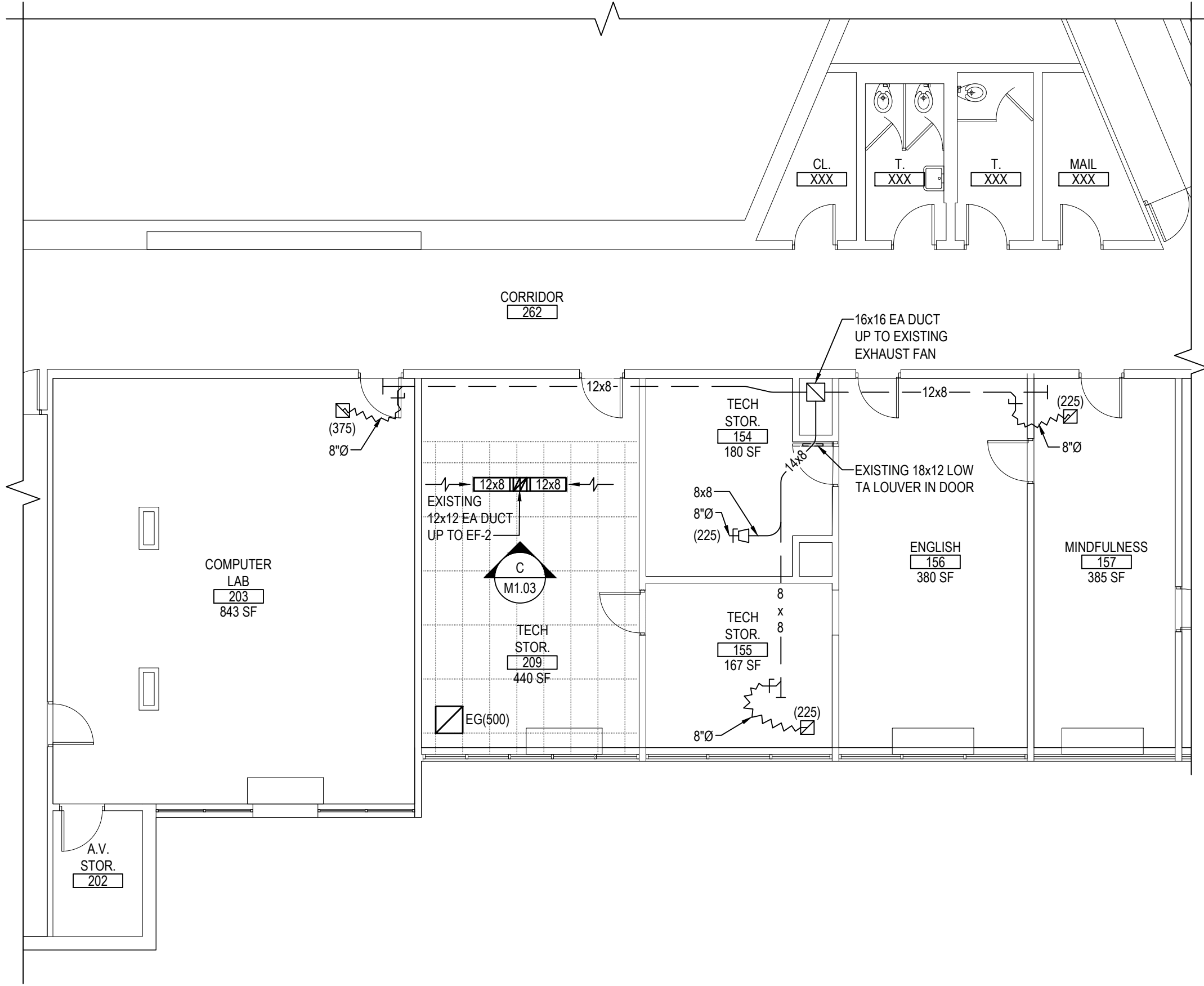
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FIRST FLOOR DEMOLITION PART PLAN - AREA "F"

DEMOLITION NOTE:
1. DEMOLISH ABANDONED DUCTWORK. M.C. SHALL PATCH WALL OPENING TO MATCH EXISTING CONDITIONS. R.C. SHALL PATCH ROOF OPENING TO MATCH EXISTING CONDITIONS. M.C. SHALL REMOVE AND REINSTALL CEILING AS REQUIRED.

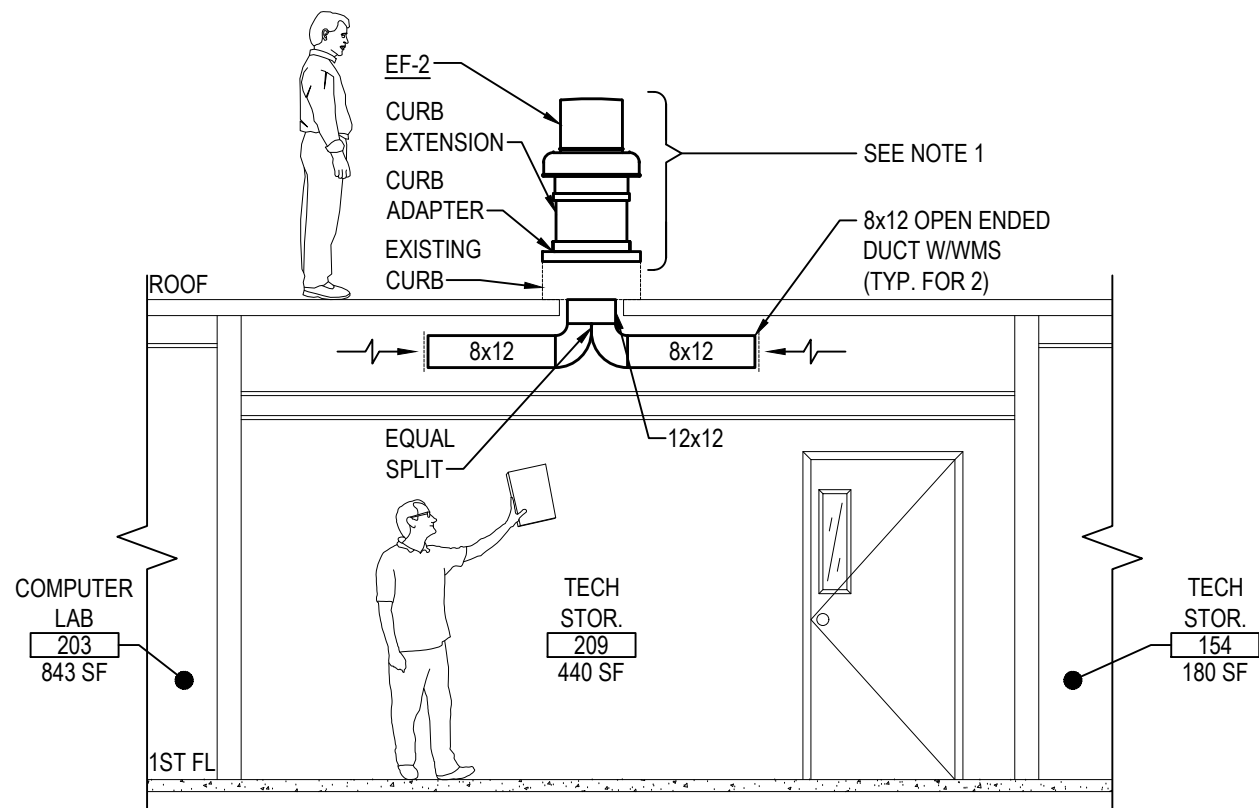
SCALE: 1/8" = 1'-0"



FIRST FLOOR NEW WORK PART PLAN - AREA "F"

NEW WORK NOTE:
1. M.C. SHALL REMOVE AND REINSTALL CEILING AS REQUIRED.

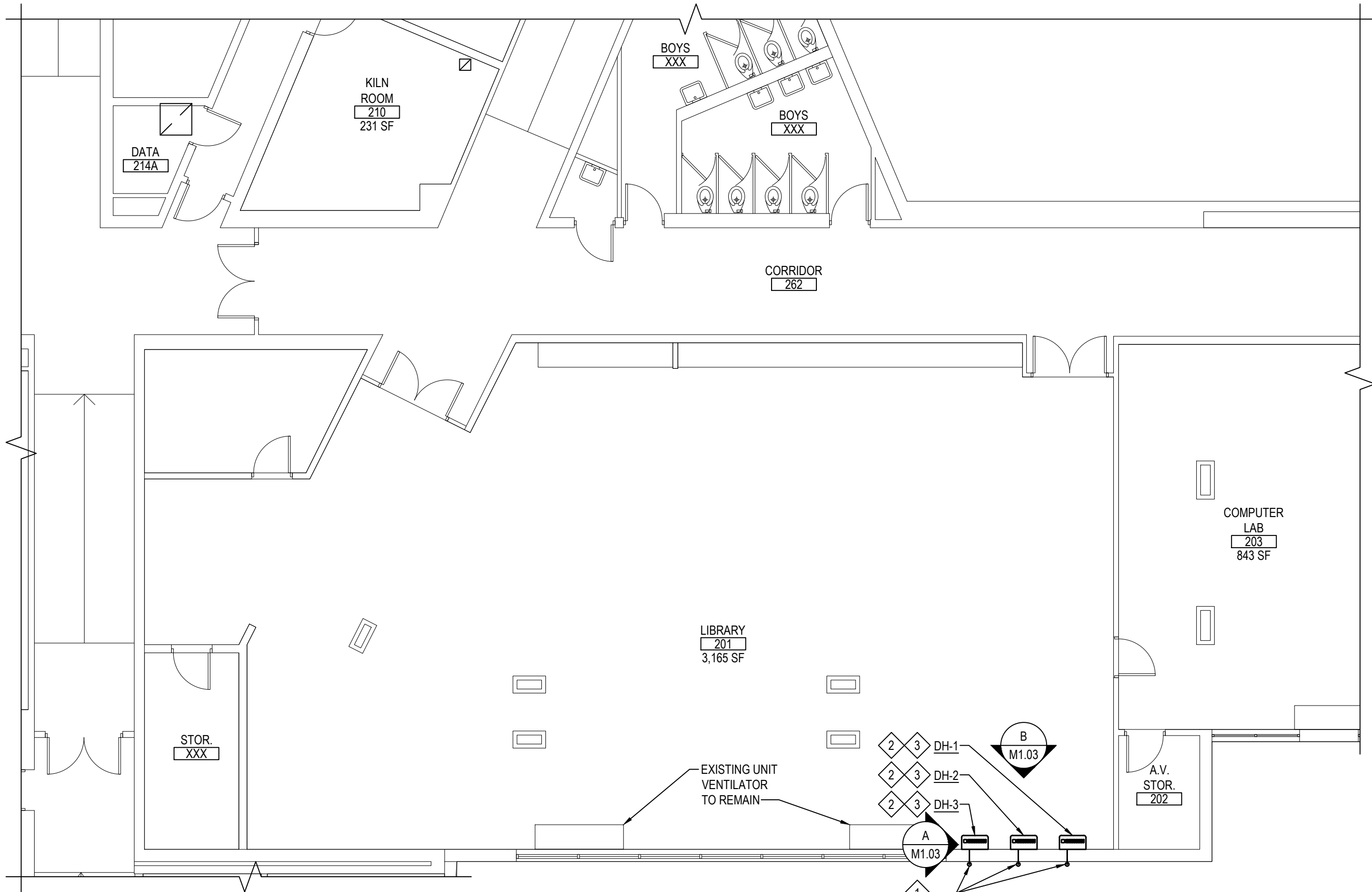
SCALE: 1/8" = 1'-0"



ELEVATION - "C"

NOTE:
1. REPRESENTS TYPICAL FAN REPLACEMENT SCENARIO THROUGHOUT THIS PROJECT. REFER TO EXHAUST FAN SCHEDULE ON DRAWING ME-01 AND MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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

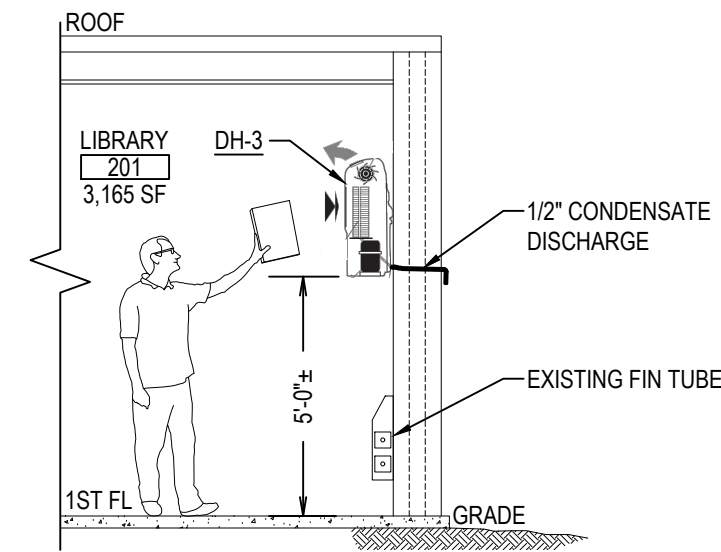


FIRST FLOOR NEW WORK PART PLAN - AREA "E"

NOTE:

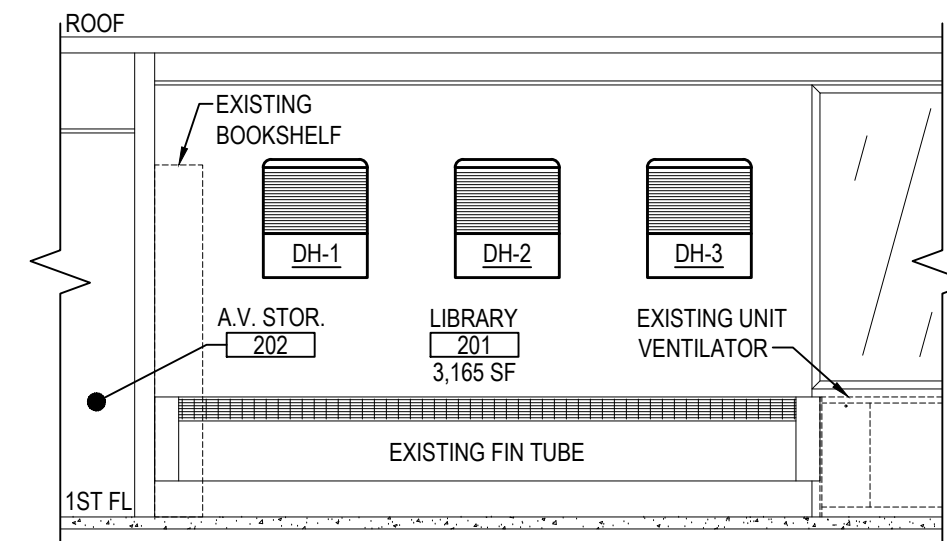
SCALE: 1/8" = 1'-0"

- LIBRARY NEW WORK KEYED NOTES:**
- ROUTE CONDENSATE PIPE THROUGH EXTERIOR WALL AND TURN DOWN WITH ELBOW. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD.
 - M.C. TO SECURE NEW DEHUMIDIFICATION UNITS TO WALL USING MANUFACTURER PROVIDED WALL MOUNTING BRACKET AND HARDWARE.
 - REMOVAL OF TACKBOARD AND PAINTING OF WALL BY M.C.



ELEVATION - "A"

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



ELEVATION - "B"

NOTE:

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

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WEST CHESTER

DWG TITLE

FIRST FLOOR DEMOLITION AND NEW WORK PART PLANS
AREAS "E" & "F"

DRAWING BY: RDP

CHECK BY: FS

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SED No: 66-14-02-02-0-002-020

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: FIRST FLOOR DEMO & NEW
WORK PART PLANS - AREAS E&F

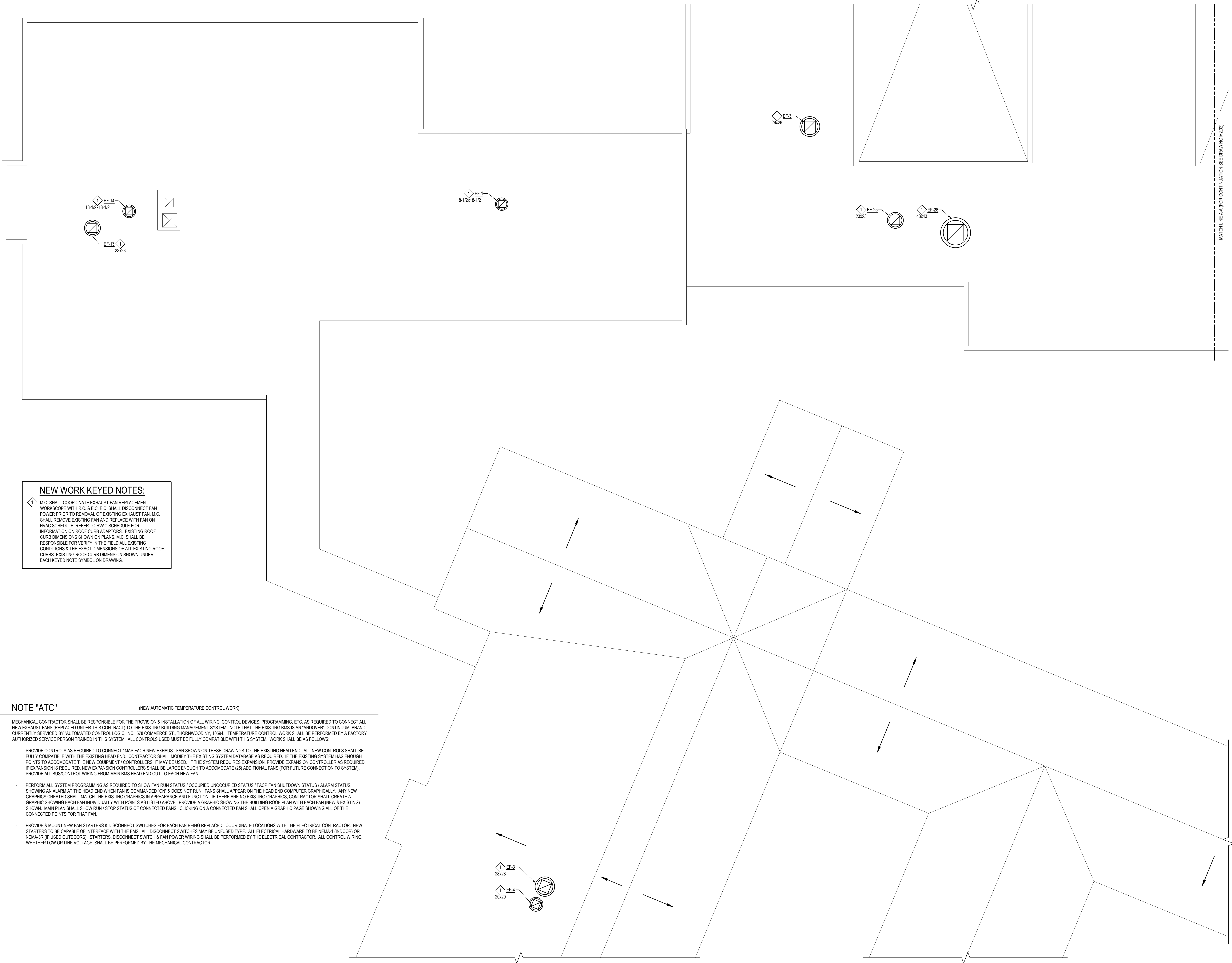
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M1.03



ROOF NEW HVAC PART PLAN - AREAS "A", "B" & "C"

NOTE:

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

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KEY PLAN
NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR/WESTCHESTER

ROOF NEW HVAC PART PLAN
AREAS "A", "B" & "C"

PROJECT
DWG TITLE

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DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: ROOF NEW HVAC PART PLAN
AREAS "A", "B" & "C"

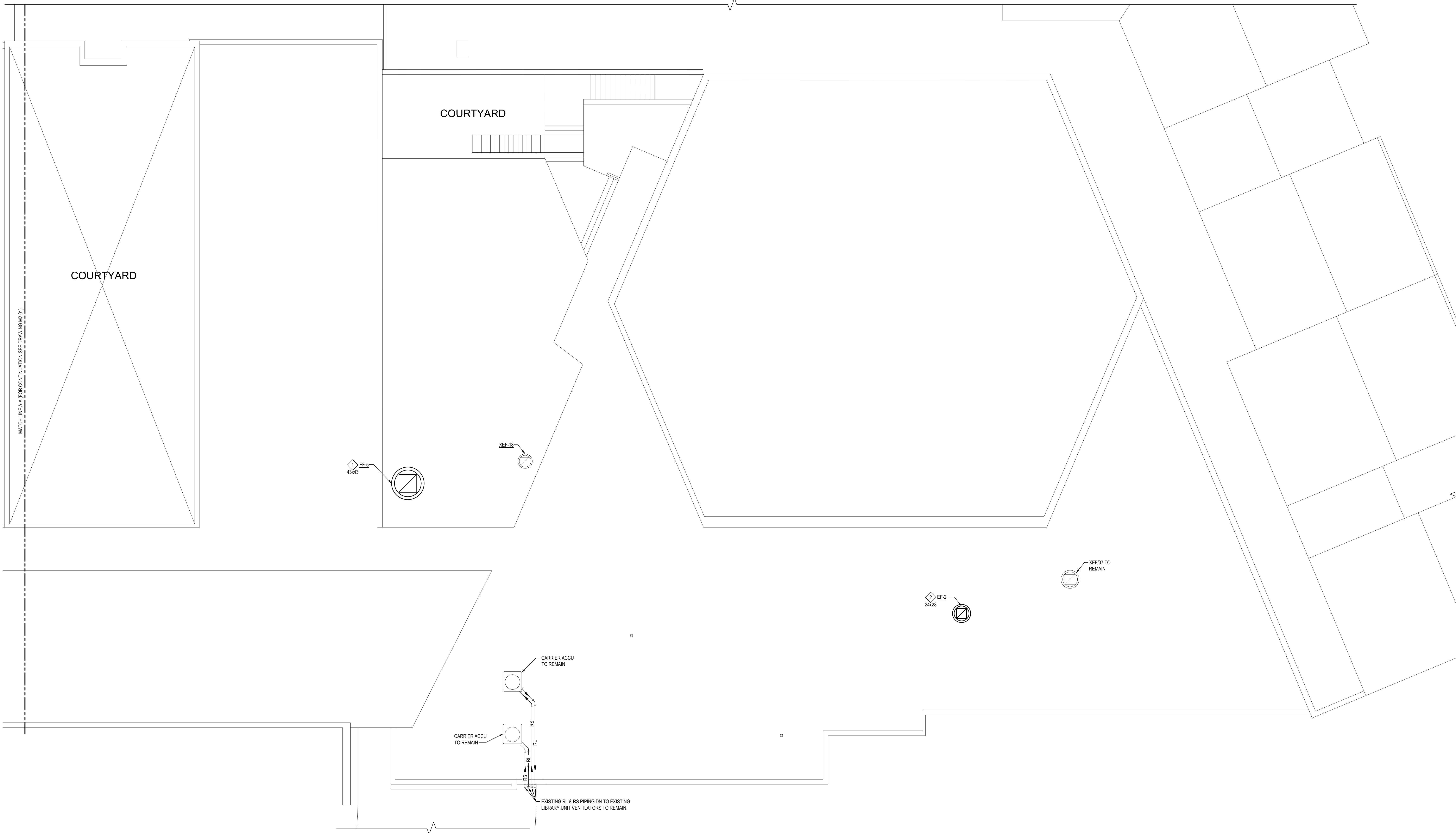
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BID PICK-UP: 1/17/2022

FILE No: 21-274B

M2.01



ROOF NEW HVAC PART PLAN - AREAS "D", "E" & "F"

NOTE:

NEW WORK KEYED NOTES:

◆ M.C. SHALL COORDINATE EXHAUST FAN REPLACEMENT WORKSCOPE WITH R.C. & E.C. E.C. SHALL DISCONNECT FAN POWER PRIOR TO REMOVAL OF EXISTING EXHAUST FAN. M.C. SHALL REMOVE EXISTING FAN AND REPLACE WITH FAN ON HVAC SCHEDULE. EXISTING ROOF CURB SHALL BE REPLACED IN KIND. REFER TO HVAC SCHEDULE FOR INFORMATION ON NEW ROOF CURB AND ADAPTER. M.C. SHALL BE RESPONSIBLE FOR VERIFYING IN THE FIELD ALL EXISTING CONDITIONS & THE EXACT DIMENSIONS OF ROOF CURB. EXISTING ROOF CURB DIMENSION SHOWN UNDER EACH KEYED NOTE SYMBOL ON DRAWING.

◆ M.C. SHALL COORDINATE EXHAUST FAN REPLACEMENT WORKSCOPE WITH R.C. & E.C. E.C. SHALL DISCONNECT FAN POWER PRIOR TO REMOVAL OF EXISTING EXHAUST FAN. M.C. SHALL REMOVE EXISTING FAN AND REPLACE WITH FAN ON HVAC SCHEDULE. REFER TO HVAC SCHEDULE FOR INFORMATION ON ROOF CURB ADAPTER. M.C. SHALL BE RESPONSIBLE FOR VERIFYING IN THE FIELD ALL EXISTING CONDITIONS & THE EXACT DIMENSIONS OF EXISTING ROOF CURB. EXISTING ROOF CURB DIMENSION SHOWN UNDER EACH KEYED NOTE SYMBOL ON DRAWING.

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WESTCHESTER

DWG TITLE

ROOF NEW HVAC PART PLAN
AREAS "D", "E" & "F"

DRAWING BY: RDP
CHECK BY: FS

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SED No: 66-14-02-02-0-002-020

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: ROOF NEW HVAC PART PLAN
AREAS "D", "E" & "F"

SCALE: AS NOTED
DATE: 10/08/21
BID PICK-UP: 1/17/2022
FILE No: 21-274B

M2.02

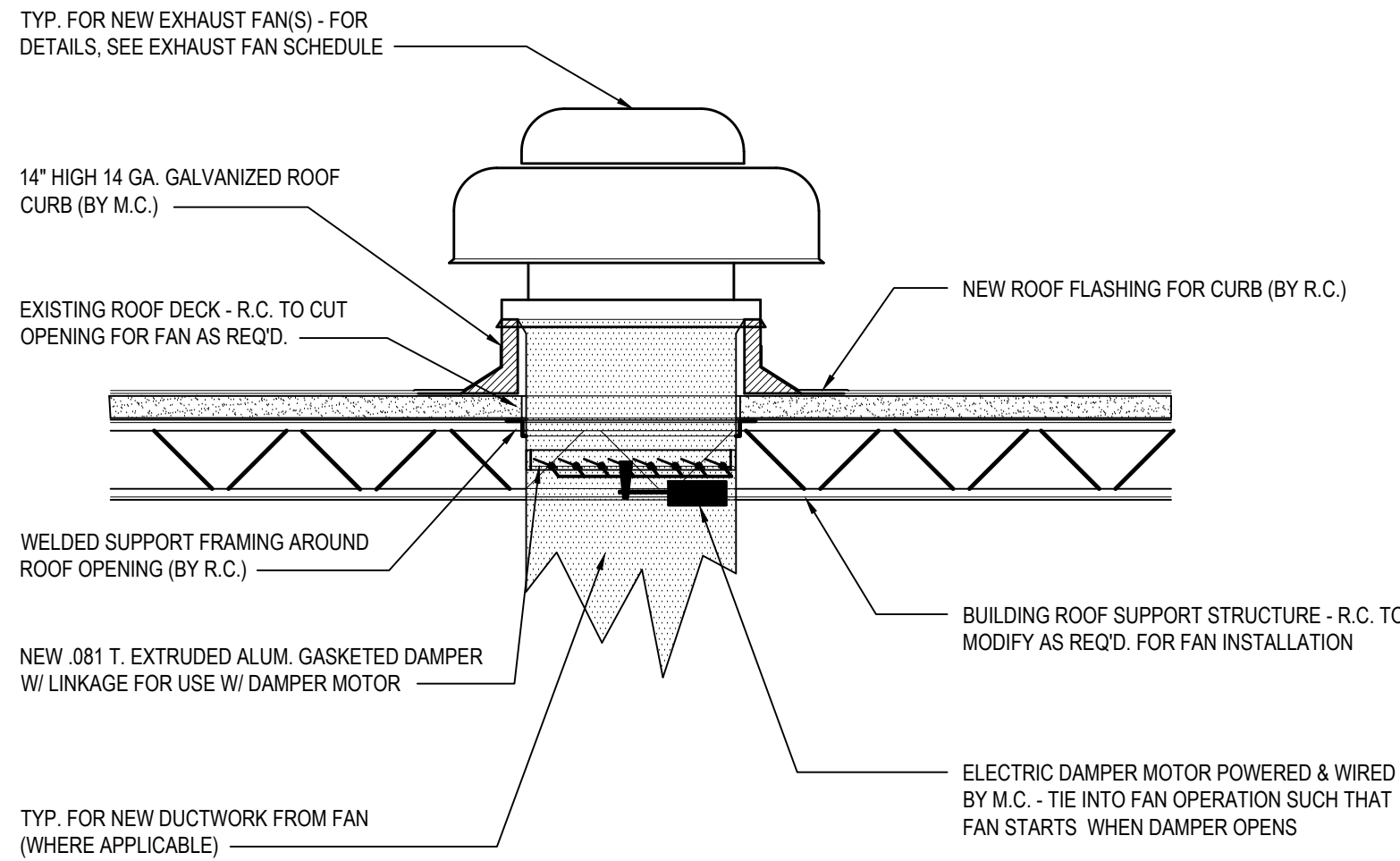
EXHAUST FAN SCHEDULE											GREENHECK AS STD.
TAG	SERVICE	MODEL	CFM	ESP	FAN RPM	MOTOR (HP)	INLET SONES	VOLT/PH	WEIGHT (LBS)	OPTIONS AND ACCESSORIES	NOTES
EF-1	2 CLASSROOM 231, 232 & ASSOC. TOILETS (BG)	G-097-VG	100	0.375	1000	1/4	3.6	115/1	61.0	1,2,3,4,6	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-2	TECH. STOR. 209	G-098-VG	500	0.75	1535	1/4	8.9	115/1	96.0	1,2,3,4,6	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-3	CLASSROOM 118 & 119	G-095-VG	600	0.375	1400	1/6	7.2	115/1	84.0	1,2,3,4,6	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-4	CLASSROOM 118 & 119 TOILETS	G-097-VG	150	0.5	1236	1/4	5.7	115/1	96.0	1,2,3,4,6	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-5	ART CLASSROOM 212, OFFICE 213, ART STOR. 211 & 214	GB-180-VGD-7	2500	0.75	924	3/4	10.1	208/3	138.0	1,2,3,5,6,7	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-6	READING 225, MATH/YMCA 226 & YMCA 227 (BG)	G-100-VG	800	0.5	1308	1/4	6.7	115/1	96.0	1,2,3,4,6	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-13	INNOVATION CLASSROOM 230	G-080-VG	225	0.5	1534	1/10	7.5	115/1	80.0	1,2,3,4,6	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-14	INNOVATION CLASSROOM TOILET	G-097-VG	75	0.375	954	1/4	3.2	115/1	61.0	1,2,3,4,6	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-25	TOILETS BETWEEN READING CLASSROOM 232A & 3 CLASSROOM 233 (BG)	G-095-VG	300	0.5	1333	1/6	7.0	115/1	84.0	1,2,3,4,6	PROVIDE W/VCD-43 MOTORIZED DAMPER
EF-26	3 CLASSROOMS 233, 234, 235(CT) & FACULTY 236 (BG)	GB-180-VGD-5	1500	0.75	904	1/2	9.4	208/3	183.0	1,2,3,5,6	PROVIDE W/VCD-43 MOTORIZED DAMPER

- Options / Accessories:**
- Aluminum roof curb adapter (factory mounted), contractor to field verify existing curb dimensions prior to fabrication
 - UL-705 Listing
 - Disconnect Switch
 - Varigreen motor w/balancing dial, soft start and thermal overload protection
 - Varigreen drive (factory mounted, wired and programmed) w/fan mounted speed adjustment dial. Field mounted VFDs will not be accepted
 - Roof curb extension (aluminum construction) w/damper tray and access panel
 - 24" High Roof Curb w/damper tray

- ADDITIONAL SCHEDULE NOTES:**
- REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
 - PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
 - FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
 - PROVIDE BIRDSCREEN WITH FAN
 - PROVIDE ALL SINGLE PHASE FANS WITH A GREENHECK VARIGREEN H.O.A. CONTROLLER

DEHUMIDIFIER SCHEDULE											
TAG	SERVICE	MANUFACTURER	MODEL	CFM	WATER EXTRACTION (GPH)	MCA	MOCP	VOLT/PH	WEIGHT (LBS)	DIMS. W X H X D (IN.)	DBA
DH-1	LIBRARY	EIPL	AD850E	294	0.5	10	20	115/1	86.0	26x29.5x13.6	50.0
DH-2	LIBRARY	EIPL	AD850E	294	0.5	10	20	115/1	86.0	26x29.5x13.6	50.0
DH-3	LIBRARY	EIPL	AD850E	294	0.5	10	20	115/1	86.0	26x29.5x13.6	50.0

- OPTIONS/ACCESSORIES:**
- Wall mount kit
 - UL-474 Listing
 - Disconnect Switch

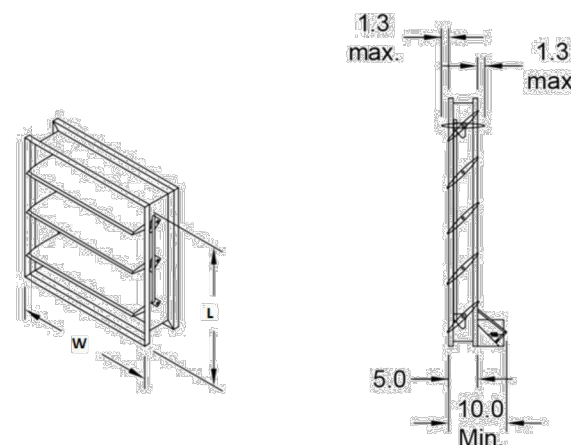


1 NEW ROOF MOUNTED EXHAUST FAN INSTALLATION

SCALE: N.T.S.

CONTROL DAMPER - (BASIS: GREENHECK)

Control Damper
Model: VCD-43



- Standard Construction Features:**
- Model VCD-43 is an extremely low leakage control damper for commercial control dampers - Aluminum channel frame - Heavy gauge extruded aluminum blades, airfoil shape - Side mounted steel linkage is out of airstream, concealed in frame - Extruded silicone rubber blade seals - 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

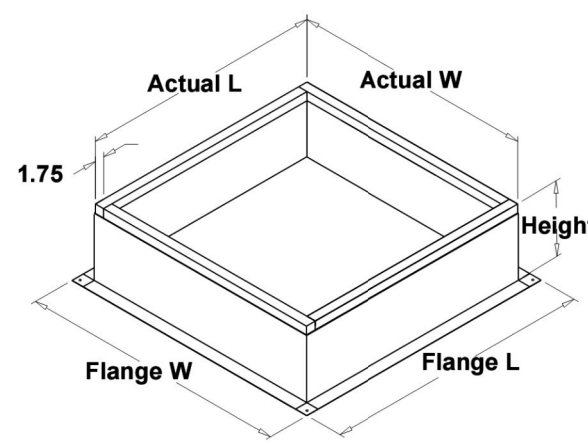
Damper Configuration:

ID #	Type	Quantity	W (in.)	H (in.)	Act Qty	Actuator Model
2	EF-4	1	12	12	1	MS4106P1210
3	EF-5	1	18	18	1	TFB2L-S
4	EF-6	1	12	12	1	MS4106P1210
5	EF-13	1	10	10	1	TFB2L-S
6	EF-14	1	12	12	1	TFB2L-S
7	EF-25	1	10	10	1	TFB2L-S
8	EF-26	1	18	18	1	TFB2L-S
9	EF-1	1	12	12	1	TFB2L-S
10	EF-2	1	12	12	1	TFB2L-S
11	EF-3	1	18	10	1	TFB2L-S

Notes: All dimensions shown are in units of in.
Width And height furnished approximately 0.25 in. undersize

ROOF CURB - (BASIS: GREENHECK)

Roof Curb
Model: GPI



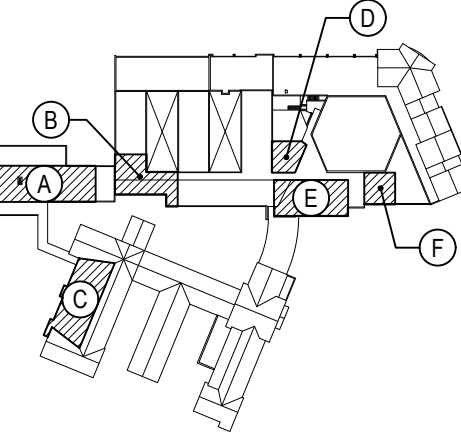
Standard Construction Features:

- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of either 18 ga galvanized steel or 0.064 in. aluminum - Straight Sided without a cant - 2 in. mounting flange - 3 lb density insulation - Height - Available from 12 in. to 42 in. as specified in 0.5 in. increments.
- Notes:
 - The maximum roof opening dimension should not be greater than the "Actual" top outside dimension minus 2 in.
 - The minimum roof opening dimension should be at least 2.5 in. more than the damper dimension or recommended duct size.
 - The Roof Opening Dimension may or may not be the same as the Structural Opening Dimension
 - Damper Tray is optional and must be specified. Tray size is same as damper size.
 - Security bars are optional and must be specified. Frames and gridwork are all 12 ga steel. Gridwork is welded to the frame and the frame is welded to the curb.

REV.	DATE	ITEM
1	1/14/2022	ISSUED FOR BID

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WEST CHESTER

DWG TITLE

DRAWING BY: RDP
CHECK BY: FS

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SED No: 66-14-02-02-0-002-020

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: BOND IMPROVEMENTS
PHASE 1

DWG TITLE: SCHEDULES, EQUIPMENT NOTES
AND DETAILS

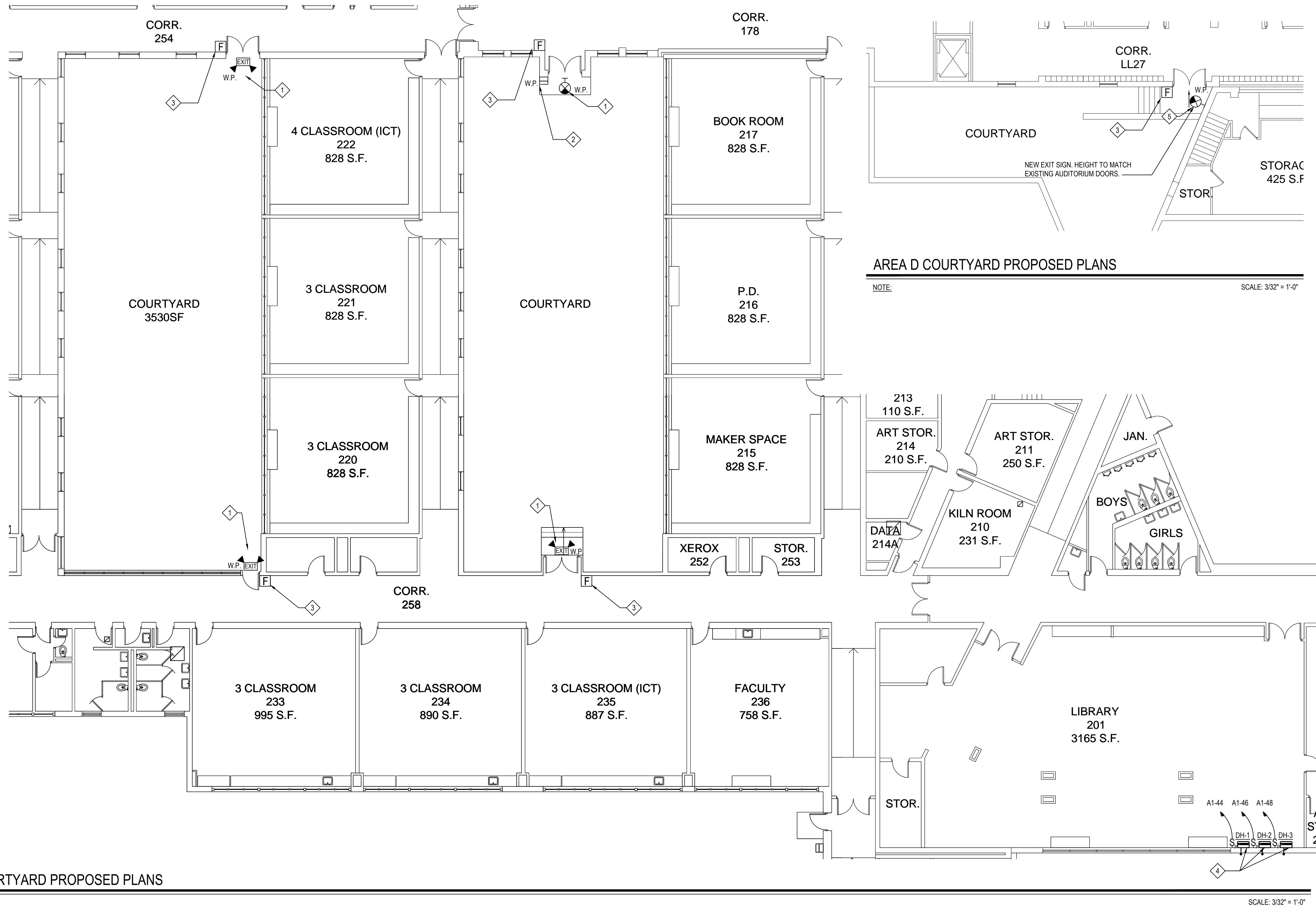
SCALE: AS NOTED

DATE: 10/08/21

BID PICK-UP: 1/17/2022

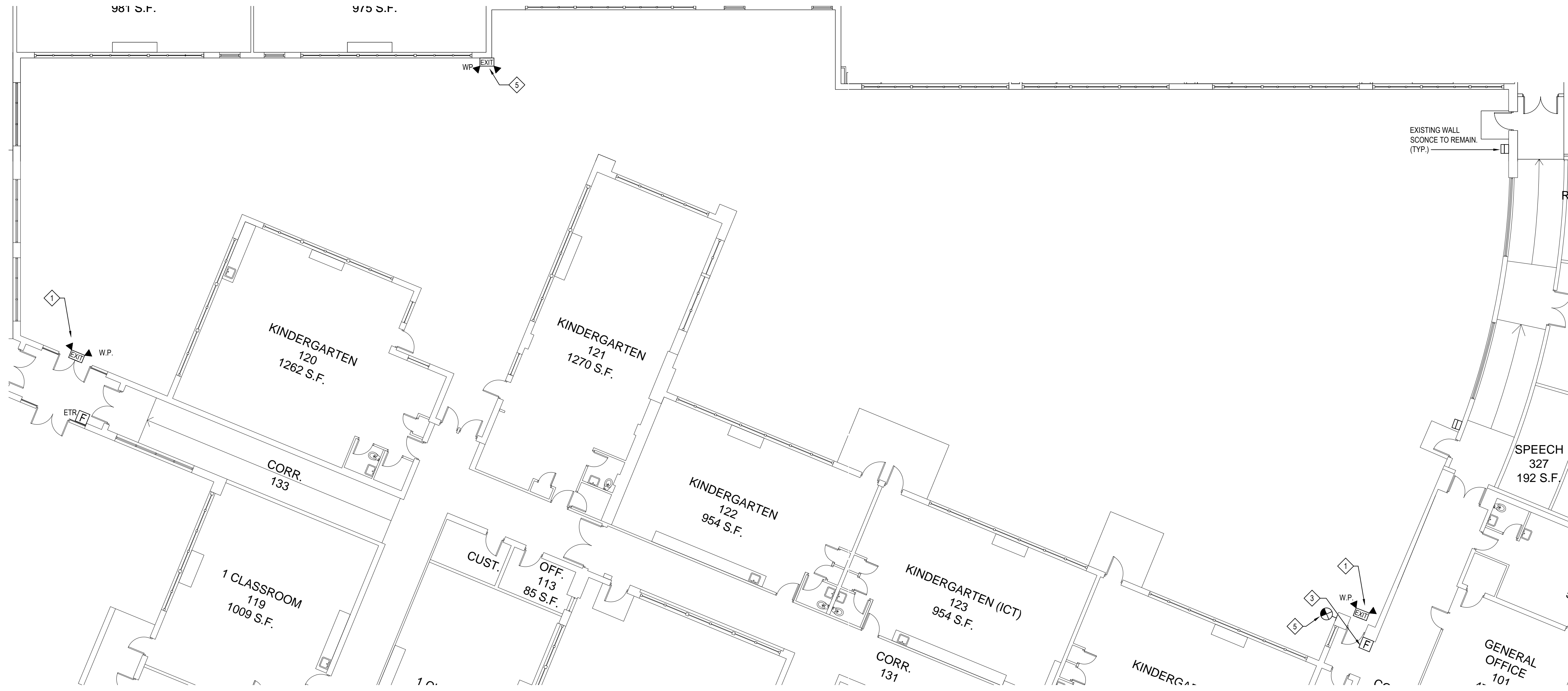
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AREA B & C COURTYARD PROPOSED PLANS

NOTE:



AREA A COURTYARD PROPOSED PLAN

NOTE:

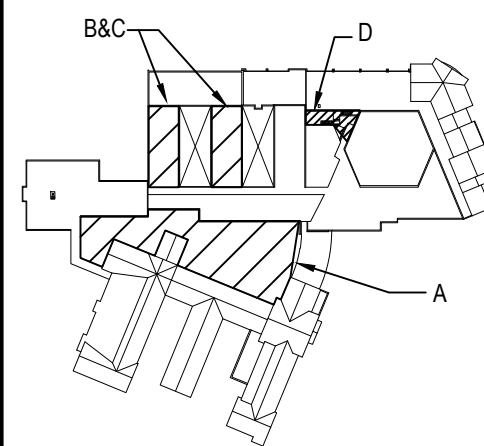
PROPOSED NOTES:

1. EC TO DISCONNECT AND TAG EXISTING EXIT SIGN CIRCUIT FOR RE-USE. REMOVE AND DISPOSE OF EXISTING EXIT SIGN. FURNISH AND INSTALL NEW EMERGENCY EXIT LIGHT FIXTURE.
2. MOUNT NEW LIGHT 10' A.F.F. OR IN LINE WITH NEW EXIT SIGN. PATCH EXISTING OPENING. MAKE NEW PENETRATION FROM INSIDE BUILDING TO OUTDOORS. PITCH SINGLE LED WALL SCONCE BY TECH LIGHTING (ELS) MODEL # 700WSPT-S-I-LED830
3. NEW PULL STATIONS WITH NON ALARMED COVER. PROVIDE AND INSTALL NEW WIRING AND PROGRAMING (TYP. 5)
4. COORDINATE DISCONNECT HEIGHT IN FIELD.
5. EC TO RUN 2-#12, 1#12S, IN 3/4" AND CONNECT TO EXISTING COURTYARD EXIT SIGN CIRCUIT. FURNISH AND INSTALL NEW EMERGENCY EXIT LIGHT FIXTURE.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WESTCHESTER

FIRST FLOOR PROPOSED PLAN

PROJECT

DWG TITLE

DRAWING BY: A.G.
CHECK BY: F.S.

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SED No.	66-14-02-02-0-002-020
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	BOND IMPROVEMENTS PHASE 1
DWG TITLE	ELECTRICAL FIRST FLOOR PROPOSED PLANS
SCALE:	AS NOTED
DATE:	10/08/21
BID PICK-UP:	1/17/2022
FILE No.	21-2748

E1.01

GENERAL 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 VOLTAGE CHARACTERISTIC OF THIS SCHOOL IS 120/208VAC, 3 WIRE, 3PH, GROUNDED NEUTRAL, WYE. ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
3. 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.
4. 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/ENGINEER'S 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 DIVISION 16 CONTRACTOR. THE DIVISION 16 CONTRACTOR SHALL BID THE HIGHER SPECIFICATION FOR ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS.
5. 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.
6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED. ALL NEW ELECTRICAL MATERIAL AND EQUIPMENT SHALL CONFORM TO THE STANDARDS AND BEAR THE INSPECTION LABEL OF THE UNDERWRITERS LABORATORIES AND SHALL BE APPROVED FOR USE BY ALL LOCAL AUTHORITIES HAVING JURISDICTION.
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. CONTRACTOR TO COORDINATE ALL LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES.

8. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER. THE EC IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE EC SHALL REFER TO THE MECHANICAL 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.

9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE OWNER.

10. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN APPROVED ELECTRICAL INSPECTION CERTIFICATE FROM THE LOCAL AIA AND PAY ASSOCIATED FEE. SUBMIT A PHOTOGRAPHY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION. SUBMIT A COPY OF THIS CERTIFICATE TO THE OWNER.

11. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN THE PROJECT MANUAL.

12. IF ADDITIONAL POLE POSITIONS ARE REQUIRED FOR NEW CIRCUITS IN EXISTING PANELS SERVICING RENOVATED AREAS, REMOVE (3) ADJACENT 1 POLE BREAKERS PROVIDE AND INSTALL 3P 60A BREAKER FOR SUB FEED TO A SURFACE MOUNTED 100A 3PH 18 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH A 1P, 20A BREAKER. PROVIDE (3) 1P, 20A BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3WG + 16G(N) + 1410(G) IN 1" C.

13. 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 UPON COMPLETION. 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. 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.

14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER TO ALL TRADES FOR THE DURATION OF THE PROJECT. SERVICE SHALL BE SUPPLIED TO CONTRACTOR'S CONSTRUCTION TRAILERS WHERE SUCH IS REQUESTED. USE THE EXISTING POWER PANELS FOR SUCH SUPPLY. POWER COSTS WILL BE PAID BY THE OWNER. ALL CONSTRUCTION POWER RECEPTACLES SHALL BE GFI PROTECTED.

15. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES FROM DAMAGES DURING CONSTRUCTION. THIS INCLUDES DEVICES 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, RECEPTACLES, 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.

16. 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. SAFETY OF THE CIRCUIT(S) AS REQUIRED TO SAFELY PERFORM THE WORK, AND RE-ENERGIZE UPON COMPLETION. UPDATE PANEL DIRECTORIES UPON COMPLETION.

17. ALL WIRING TO BE #12-1410(N)-1410(G)-3/4" EMT, OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE. ALL DEVICES LOCATED OUTSIDE THE BUILDING SHALL BE WEATHERPROOF.

18. RUN WIRING & CONDUITS IN DROPPED CEILINGS, VOIDS, & CHASES. ALL DEVICES, WIRING & CONDUITS ON NEW CONSTRUCTION MUST BE RECESSED. FOR EXISTING SURFACES: MECHANICAL/WORK SPACES: DEVICES, WIRING & CONDUITS MAY BE SURFACE MOUNTED. EXISTING PUBLIC FINISHED AREAS: CONDUITS SHALL BE CONCEALED WHEREVER POSSIBLE (IN HUNG CEILINGS, VOIDS/CHASES, FLOOR BELOW OR BEHIND WALLS) ALL WIRING THAT CANNOT BE CONCEALED IN MUST BE RUN IN FINISHED SURFACE RACEWAY SUCH AS WIREMOLD (1/500/700), COLOR PER ARCHITECT. USE OF ADHESIVE IS PROHIBITED. SURFACE RACEWAY MUST BE SECURED USING MECHANICALLY FASTENED CLIPS. WIRING IN DROPPED CEILINGS SHALL BE SUSPENDED FROM BUILDING STEEL EVERY 5 FT. USE EMT IN AREAS WHERE CONDUIT WOULD BE SUBJECT TO POTENTIAL PHYSICAL DAMAGE SUCH AS GYMNASIUMS, WORK CUSTODIAL AREAS, BOILER ROOMS, ETC.

ABBREVIATIONS

SP = SPARE
EX = EXISTING
N.L.C. = NOT IN CONTRACT
A = AMPS
EC = ELECTRICAL CONTRACTOR
CB = CIRCUIT BREAKER
V.I.F. = VERIFY IN FIELD
ETR = EXISTING TO REMAIN
(E) = EXISTING
WP = WEATHER PROOF
EF = EXHAUST FAN
FA = FIRE ALARM

NEW WORK NOTES

1. ALL CONTRACTORS ON THE WORK SITE SHALL COORDINATE THEIR RESPECTIVE WORK SHOWN IN THE DRAWING SET. THE MC HAS PRIORITY OVER WORK CONDUCT ISSUES AS LOCATIONS, SCHEDULES, AND OTHER MATTERS THAT MAY INTERACT WITH THE EC.
2. EC SHALL WIRE EXHAUST FANS VIA VFD/MOTOR STARTERS FURNISHED BY MC. EC TO MOUNT AND WIRE POWER FOR VFD/MOTOR STARTERS. COORDINATE LOCATION WITH MC. ALL CONTROL WIRING BY MC.
3. EC TO REMOVE AND REINSTALL EXISTING FA MOTOR SHUTDOW RELAYS.
4. COORDINATE W/ MC FOR ALL ROOF PENETRATIONS. SINGLE PENETRATIONS FOR ELECTRICAL AND REFRIGERANT PIPE BY MC.
5. EC TO WIRE ALL LINE VOLTAGE. COORDINATE W/ MC.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	MOTOR DISCONNECT FURNISHED BY MC. WIRED AND INSTALLED BY EC
	EXISTING CIRCUIT
	ONE POLE CIRCUIT 2#12, 1#12G, 3/4" C UNLESS OTHERWISE NOTE.
	DOOR HOLDER

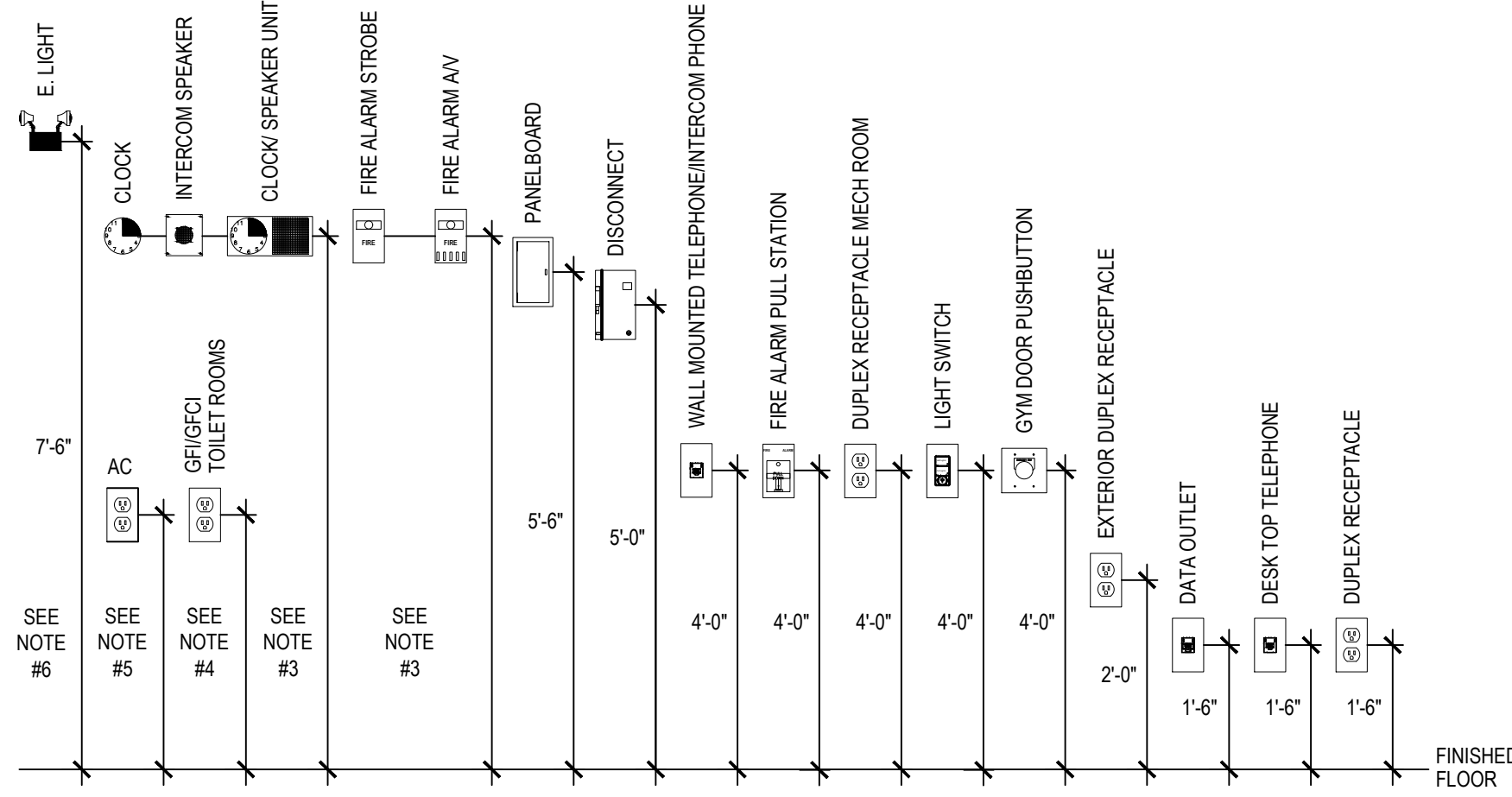
LIGHTING SCHEDULE

CODE	SYMBOL	DESCRIPTION
		NEW EMERGENCY LED LIGHT FIXTURE, WET LOCATION, INTERNAL BATTERY HEATER W/ 90-MINUTE INICAD BATTERY EXITRONIX #VEX-WPC-1-R-B-H SUBSCRIPT 'VG' - PROVIDE W/ POLYCARBONATE VANDAL GUARD

TYPICAL LIGHTING NOTES:
1. EC SHALL CONNECT EMERGENCY INVERTER/ EMERGENCY LIGHT BATTERY/ EXIT SIGN LEADS DIRECTLY TO THE EXISTING AREA LIGHTING CIRCUIT UPSTREAM OF SWITCHES, CONTACTORS, CONTROLS ETC.

GENERAL FA NOTES:

1. ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH THE EXISTING FACP.
2. CONTRACTOR MAY UTILIZE EXISTING BACKBOXES WHEN CODE AND ADA REQUIREMENTS ARE MET AND COMPATIBLE WITH NEW FIRE ALARM DEVICES. COVER ALL UNUSED REMAINING BACKBOXES WITH STAINLESS STEEL 302 BLANK FACE PLATES. IF BOXES ARE RE-USED DEVICES SHALL BE SWAPPED AT THE TIME OF LOOP SWITCH-OVERS TO ENSURE SYSTEM IS OPERATIONAL FOR THE DURATION OF THE PROJECT.
3. ALL BACK BOXES SHALL BE SIZED TO COMPLETELY FIT THE RESPECTIVE DEVICE AND WIRING WITH NO GAPS, SPACES, OR EXTRA UNNECESSARY ROOM. WIREMOLD BOXES IN FINISHED AREAS ARE REQUIRED, AND SHALL BE RECESSED WHERE POSSIBLE. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DEVICES ARE COMPATIBLE WITH THE APPROPRIATE BACKBOXES.
4. ANY OPENINGS LEFT WHEN DEVICES/CABINETS/PANELS ARE REMOVED SHALL BE COMPLETELY COVERED WITH BLANK METAL PLATES, COLOR TO MATCH ADJACENT. EC IS RESPONSIBLE TO PATCH/PAINT ALL AREAS DISTURBED BY DEMO & INSTALLATION WORK TO MATCH ADJACENT. ALL FINISH WORK IS THE RESPONSIBILITY OF THE EC UNLESS OTHERWISE NOTED.
5. DIVISION 16 CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER SUPPLIES, AUXILIARY CABINETS/BOXES, NAC PANELS, EXPANSION MODULES, BRANCH CIRCUITS ETC. AS REQUIRED BY THE FIRE ALARM MANUFACTURER TO MAINTAIN A FULLY OPERATIONAL SYSTEM. THESE ITEMS ARE NOT SHOWN ON THE PLANS AND ARE THE RESPONSIBILITY OF THE FIRE ALARM VENDOR TO LOCATE AND THE EC TO POWER. LOCATIONS OF ANY TERMINAL CABINETS, BOOSTER POWER SUPPLIES, OR SIMILAR COMPONENTS MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL DURING THE SHOP DRAWINGS PHASE. ANY SMOKE HEADS OR INCIDENTAL DEVICES REQUIRED TO PROTECT SAID CABINETS SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE. EC TO INCLUDE IN BID NAC PANEL(S), POWER SUPPLIES, EXPANSION MODULES, ETC. AS REQUIRED TO EXPAND THE EXISTING FACP SYSTEMS PER PLANS.
6. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
7. WHERE EXISTING FIRE ALARM SYSTEMS ARE MODIFIED DURING THE COURSE OF THE PROJECT, CONTRACTOR SHALL PROVIDE OWNER WITH UPDATED COMPLETION RECORD DOCUMENTATION PER NFPA 72, ARTICLE 10.18. INCLUDE COPY OF UPDATED SITE SPECIFIC SOFTWARE. ANY ADDITIONAL DEVICES SHALL BE MAPPED INTO THE SYSTEM WITH THE APPROPRIATE ADDRESSES/LABELS.
8. FIRE ALARM WIRING FOR NEW DEVICES SHALL BE NEW, PLENUM RATED, AND PER MFG INSTRUCTIONS.

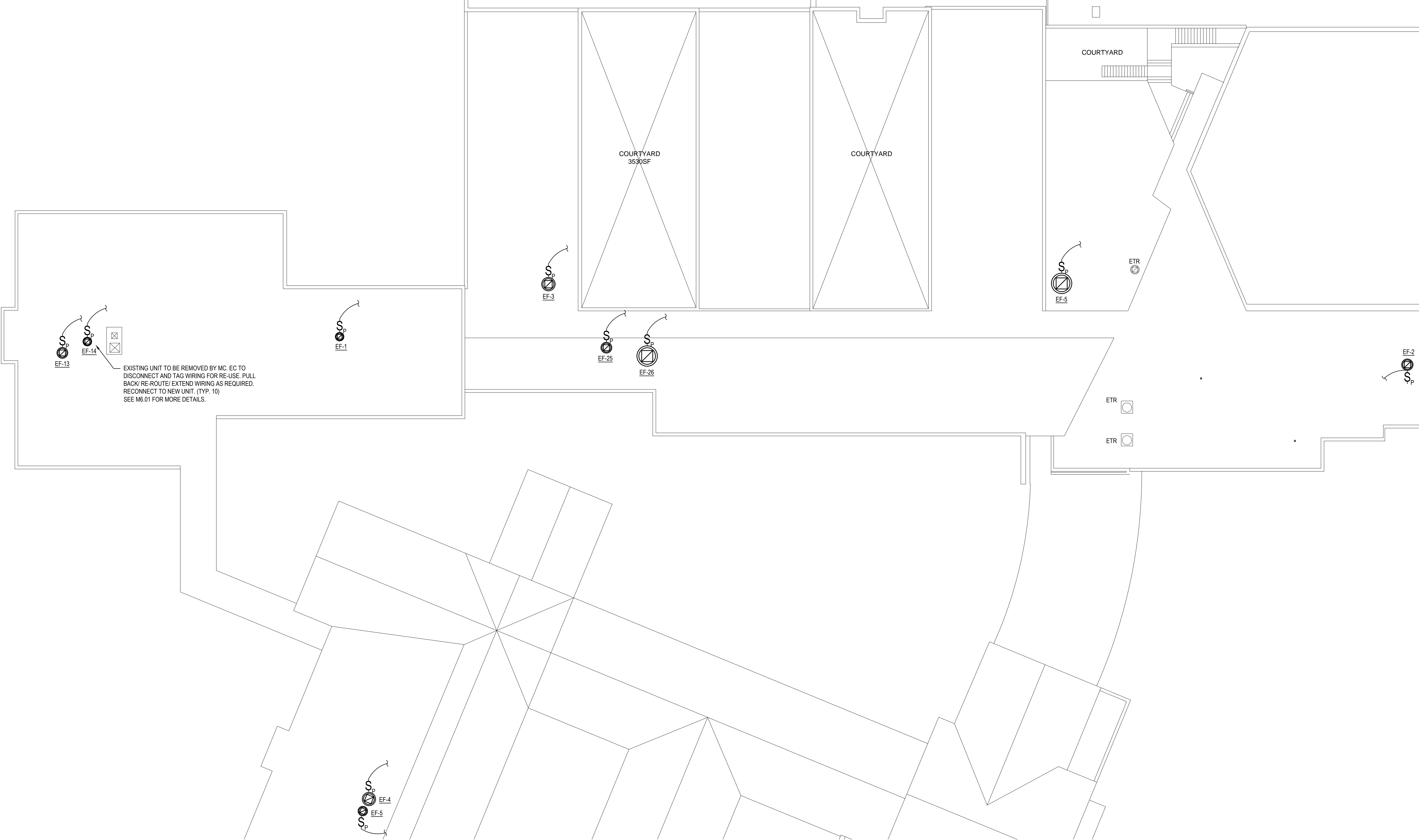


NOTES:

1. IN LOCATIONS WHERE SIMILAR DEVICES ARE MOUNTED AT THE SAME HEIGHT, DEVICES SHALL BE PROPERLY "GANGED" AND SHALL HAVE A SINGLE COVER PLATE.
2. IN LOCATIONS WHERE DIFFERENT DEVICES ARE MOUNTED AT DIFFERENT HEIGHTS WITHIN FOUR FEET OF ONE ANOTHER, DEVICES SHALL BE MOUNTED SUCH THAT THEY HAVE A COMMON CENTERLINE. IF THERE ARE THREE OR MORE DEVICES, THE CONTRACTOR SHALL REQUEST A DETAIL FROM THE ARCHITECT.
3. 80" TO BOTTOM, OR AT SHALLOW CEILING INSTALLATIONS, WITHIN 6" OF FINISHED CEILING. VERIFY WITH ENGINEER.
4. IN TOILET ROOMS WITH BACK SPLASH AT VANITY, MOUNT CENTER AT 4" ABOVE BACK SPLASH. IF NO BACK SPLASH, MOUNT 4" ABOVE COUNTER. IF NO COUNTER, MOUNT AT 42" AFF. COORDINATE WITH ARCHITECTURAL PLANS. REFER TO ELEVATIONS AND FURNITURE PLANS.
5. RECEPTACLE IN PLAN WITH THE NOTATION 'AC' INDICATES MOUNTING HEIGHT OF 4" ABOVE COUNTER OR 4" ABOVE BACK SPLASH. COORDINATE WITH ARCHITECTURAL PLANS. REFER TO ELEVATIONS AND FURNITURE PLANS.
6. MOUNT AT 7'-6" ABOVE CLOSEST FLOOR LEVEL (LANDINGS, STEPPED FLOORS, ETC.) UNLESS OTHERWISE NOTED.

DEVICE MOUNTING HEIGHT DETAIL

SCALE: N.T.S.



PROPOSED ROOF PLAN

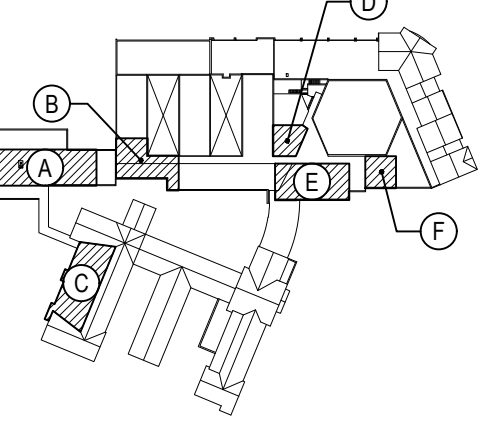
NOTE:

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

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

BRIARCLIFF MANOR UFSD
BOND IMPROVEMENTS - PHASE 1
TODD ELEMENTARY SCHOOL
BRIARCLIFF MANOR WESTCHESTER

GENERAL NOTES AND ROOF PLAN

PROJECT	DWG TITLE
DRAWING BY: A.G.	
CHECK BY: F.S.	

NOTICE

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SED No:	66-14-02-02-0-002-020
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	BOND IMPROVEMENTS PHASE 1
DWG TITLE	ELECTRICAL GENERAL NOTES & ROOF PLAN
SCALE:	AS NOTED
DATE:	10/08/21
BID PICK-UP:	1/17/2022
FILE No:	21-2748

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