EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL BOND PROJECT PHASE 4

MEMASI PROJECT # 102-2301

EASTCHESTER MIDDLE SCHOOL / HIGH SCHOOL

2 STEWART PLACE, EASTCHESTER, NY 10709

SED # 66-03-01-03-0-003-033

ANNE HUTCHINSON ELEMENTARY SCHOOL

60 MILL RD, EASTCHESTER, NY 10709

SED # 66-03-01-03-0-001-024

MIDDLE / HIGH SCHOOL

NTS

ANNE HUTCHINSON

NTS

ISSUED FOR BID: 11/06/2024

THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

MEMASI

2 Lyon Place
White Plains, NY 10601
memasidesign.com

EASTCHESTER
UNION FREE SCHOOL DISTRICT
SOARING TO EXCELLENCE

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADD	ADDENDUM
ADMIN	ADMINISTRATIVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIO VISUAL
BLDG	BUILDING
BOT OR B/	BOTTOM OF
BSMT	BASEMENT
CJ	CONTROL / CONSTRUCTION JOINT
CL	CENTERLINE
CLG / CLNG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ED	EDUCATION
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FE	FIRE EXTINGUISHER
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDENT-TREATED MATERIAL
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZE(D)
GC	GENERAL CONTRACT(OR)
GND	GROUND
GWB	GYPSUM WALL BOARD
GWBS	GYPSUM WALL BOARD SOFFIT
HC	HANDICAPPED ACCESSIBLE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH / INCHES
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
LAB	LABORATORY
LB	POUND
LIN	LINEAR
LVL	LEVEL
MAN	MANUAL
MAS	MASONRY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OHD	OVERHEAD
OPT	OPTIONAL
OZ	OUNCE
PERIM	PERIMETER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
PR	PAIR
PREP	PREPARATORY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
RB	RUBBER / RUBBER WALL BASE
REQD	REQUIRED
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
SCH	SCHEDULED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
SAC	SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEMP	TEMPORARY
TMPD	TEMPERED
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
U.O.N	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WPT	WOOD PRESERVED-TREATED MATERIAL
WT	WEIGHT
YD	YARD

ARCHITECTURAL LEGEND

MATERIAL INDICATIONS

EARTH
GRANULAR FILL
BRICK
CONCRETE MASONRY UNIT
CONCRETE
GROUT
ROUGH WOOD BLOCKING
SHIM
FINISH WOOD
PLYWOOD
SHEATHING
RIGID INSULATION
BATT INSULATION
SPRAY FOAM INSULATION
EPS INSULATION
STEEL

DIMENSIONING CONVENTIONS

FACE OF STUD OR CMU
COLUMN CENTER LINE

SYMBOLS

CLASSROOM / 100 / 000 S.F. — ROOM NAME / ROOM NUMBER / AREA OF ROOM
A100 — DOOR NUMBER, REFER TO A900 DRAWINGS
1 — WINDOW TAG, REFER TO A900 DRAWINGS
BL11 — BORROWED LIGHT NUMBER, REFER TO A900 DRAWINGS
S1 — STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
1 — COLUMN GRID DESIGNATION
1 / M — PARTITION TAG, REFER TO A700 DRAWINGS
ADDITIONAL NOTES FOR PARTITION
1 — REVISION NUMBER
1 — KEY NOTE, NEW WORK
1 — KEY NOTE, DEMOLITION WORK
+0'-0" — ELEVATION TAG
ACCESSIBILITY SIGN
WALL FINISH / BASE FINISH / FLOOR FINISH / CEILING FINISH — INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS
CHANGE IN FINISH MATERIAL

DETAIL INDICATOR LEGEND

SECTION INDICATOR

DRAWING SHEET NUMBER SECTION IS DRAWN ON — A100 — SECTION NUMBER / DIRECTION OF VIEW

DETAIL INDICATOR (SECTION)

DRAWING SHEET NUMBER SECTION IS DRAWN ON — A100 — SECTION NUMBER / DIRECTION OF VIEW

ENLARGED DETAIL INDICATOR

DRAWING AREA REQUIRING DETAIL — A100 — DETAIL NUMBER / DRAWING SHEET NUMBER DETAIL IS DRAWN ON

DETAIL TITLE

DETAIL TYPE / NAME — FLOOR PLAN — 1/8" = 1'-0" — DETAIL TYPE / NAME: 10 — SCALE

EXTERIOR ELEVATION INDICATOR

DIRECTION OF VIEW — A100 — ELEVATION NUMBER / DRAWING SHEET NUMBER DETAIL IS DRAWN ON

INTERIOR ELEVATION INDICATOR

BLANK ARROW INDICATES ELEVATIONS NOT DETAILED — A600 — B / A — ELEVATION NUMBER / DRAWING SHEET NUMBER DETAIL IS DRAWN ON / DIRECTION OF VIEWS

GENERAL NOTES

1. DIMENSIONS ARE GIVEN THUS (UNLESS OTHERWISE NOTED)
   A. TO FACE OF MASONRY WALL
   B. TO FACE OF GYPSUM WALL BOARD
   C. TO COLUMN CENTERLINES
   D. TO FINISH FACE OF SOFFIT OR CEILING
   E. FACE OF EXISTING CONSTRUCTION
2. DO NOT SCALE DRAWINGS. IF A DIMENSION IS NOT SHOWN, BRING IT TO THE ATTENTION OF THE ARCHITECT FOR VERIFICATION BEFORE PROCEEDING WITH THE ASSOCIATED WORK
3. WALLS ON COLUMN LINES ARE CENTERED, U.O.N.
4. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.
5. LAYOUT OF TOILET FIXTURES AND ACCESSIBILITY CLEARANCES ARE SHOWN AS CLEAR DIMENSION. CONTRACTORS ARE REQUIRED TO COORDINATE LAYOUTS OF PARTITIONS, UTILITY CONNECTIONS, AND THICKNESS OF FINISHES TO ALLOW THESE CLEAR DIMENSIONS.
6. ALL ELEVATIONS (X'-X") ARE REFERENCE FROM FIRST FLOOR ELEVATION.
7. ALL WOOD BLOCKING WITHIN ROOFING SYSTEM AND WITHIN 2'-0" OF GRADE SHALL BE PRESSURE TREATED
8. ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND / OR FIRE STOPPED. COORDINATE WITH 'H' DWGS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
9. ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
10. PROVIDE PATCH TO MATCH EXISTING FINISHES AT ALL WALL REMOVAL AREAS, COORDINATE WITH DEMOLITION DRAWINGS AND SPECIFICATIONS.
11. FOR ALL MATERIAL TESTING, REFER TO SPECIFICATION DIVISION 000220.
12. ALL CONSTRUCTION SHOWN IS NEW UNLESS NOTED OTHERWISE.

DEMOLITION SCOPE OF WORK NOTES:

DEMOLITION NOTES:

1. CONTRACTOR SHALL PERFORM ALL OPERATIONS OF DEMOLITION AND ANY REMOVAL INDICATED ON THE DWGS. AS MAY BE REQUIRED TO FACILITATE NEW WORK. ALL DEMOLITION WORK SHALL BE DONE CAREFULLY, NEATLY IN A SYSTEMATIC MANNER.
2. ALL DEMOLITION WORK SHALL BE COORDINATED WITH ASBESTOS, MEP AND ANY STRUCTURAL DEMOLITION REQUIREMENTS. CONTRACTOR SHALL ADHERE TO ALL FEDERAL AND STATE LEAD BASED PAINT REMOVAL REQUIREMENTS AS OUTLINED IN THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS. THE CONTRACTOR IS TO PROVIDE ALL ABATEMENT WASTE MANIFESTS, PRE- AND POST- DEMOLITION CLEAN UP TEST RESULTS, AND ANY LEAD SPECIALIST CERTIFICATION CARDS AS REQUIRED IN A TIMELY MANNER.
3. ALL EXISTING SURFACES, EQUIPMENT AND OWNER ITEMS, AND/OR FURNITURE SCHEDULED TO REMAIN SHALL BE FULLY PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES AND SHALL MAKE REPAIRS OR PROVIDE REPLACEMENTS PROMPTLY AT NO ADDITIONAL COST TO THE OWNER.
4. ANY FIXTURES, APPLIANCES, HARDWARE, DOORS OR CASINGS THAT ARE SCHEDULED TO BE SALVAGED MUST BE REMOVED FROM THE SITE PRIOR TO THE START OF DEMOLITION. COORDINATE STORAGE REQUIREMENTS WITH THE OWNER.
5. ANY DISCREPANCIES DISCOVERED DURING DEMOLITION FROM EXISTING CONDITIONS DEPICTED ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER OF RECORD BEFORE ANY WORK CAN PROCEED.
6. UNLESS OTHERWISE NOTED IN THE DRAWINGS, NO STRUCTURAL MEMBERS SHALL BE REMOVED UNLESS PORTIONS AFFECTED ARE ADEQUATELY SUPPORTED BY EITHER TEMPORARY SHORING OR NEW STRUCTURAL ELEMENTS AS REQUIRED TO PROTECT THE INTEGRITY AND SUPPORT OF THE EXISTING STRUCTURE. REFER TO STRUCTURAL DEMOLITION DRAWINGS FOR MORE INFORMATION. CHANELLING OF FLOOR SLABS OR EXISTING STRUCTURAL WALLS IS GENERALLY PROHIBITED UNLESS OTHERWISE NOTED.
7. COORDINATE NEW MASONRY OPENINGS AS REQUIRED TO PROVIDE STEEL LINTELS. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTION FOR THE BUILDING AND ITS CONTENTS THROUGHOUT THE DURATION OF THE WORK. ALL OPENINGS IN ANY WALL, ROOF, FLOOR OR CEILING SHALL BE PROTECTED FROM ANY FORM OF WEATHER OR WATER PENETRATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES AND SHALL MAKE REQUIRED REPAIRS OR PROVIDE REPLACEMENTS PROMPTLY AT NO ADDITIONAL COST TO THE OWNER.
9. PROPERTY IS TO BE KEPT SECURE AT ALL TIMES.
10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARTITION FIRE RATINGS THROUGHOUT THE DURATION OF THE WORK. ANY HOLES OR DAMAGE CREATED IN RATED PARTITIONS SHALL BE IMMEDIATELY REPAIRED TO MATCH EXISTING CONSTRUCTION TO MAINTAIN FIRE RATINGS. PROPERLY FIRESTOP ALL NEW PENETRATIONS AND EXISTING PENETRATIONS NOT PROPERLY FIRESTOPPED.
11. DISCONNECT AND SEAL ALL UTILITIES SERVING ITEMS AFFECTED BY CONSTRUCTION, PRIOR TO START OF DEMOLITION WORK. COORDINATE ANY REQUIRED SHUTDOWNS WITH THE OWNER.
12. REMOVE OR RELOCATE ALL WIRING, PLUMBING, MECHANICAL EQUIPMENT, ETC. AFFECTED BY REMOVAL OF PARTITIONS. REMOVED PIPES AND/OR LINES SHALL BE CUT TO A POINT OF CONCEALMENT BEHIND OR BELOW FINISHED SURFACES AND SHALL BE PROPERLY CAPPED, PLUGGED OR DISCONNECTED. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
13. ANY EXISTING VENTILATION SHAFTS/GRILLES TO REMAIN IN OPERATION ARE TO BE PROTECTED AND COVERED IN ORDER TO CONTAIN DUST, ODORS, AND DEBRIS FROM ENTERING THE SYSTEM. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

14. FLOORING:

a. IN AREAS WITH FLOOR FINISHES SCHEDULED TO BE REMOVED, ALL EXISTING FINISHES ARE TO BE REMOVED TO EXPOSE THE EXISTING SUBSTRATE BELOW. ALL DEBRIS AND ADHESIVES ARE TO BE SCRAPED FROM SUBFLOOR IN PREPARATION FOR NEW FINISHES. THE CONTRACTOR IS TO BRING TO THE ATTENTION OF THE ARCHITECT ANY DEFICIENT EXISTING CONDITIONS IN EXISTING CONSTRUCTION BEYOND EASILY OBSERVED FINISHES UNCOVERED DURING DEMOLITION.

b. FOR AREAS WHERE EXISTING FLOOR FINISHES AND FLOOR CONSTRUCTION BELOW IS SCHEDULED TO BE REMOVED REFER TO DEMO NOTE 6 AND STRUCTURAL DRAWINGS FOR MORE INFORMATION. COORDINATE REMOVALS AS REQUIRED WITH NEW CONSTRUCTION.

15. WALL FINISHES:

a. WHERE EXISTING WALL TILE OR STONE FINISHES ARE SCHEDULED TO BE REMOVED, THE CONTRACTOR IS TO PERFORM INVESTIGATION PROBES TO DETERMINE THE EXISTING SUBSTRATE BEYOND EASILY OBSERVED FINISHES. ANY EXISTING CEMENT BOARD OR GWB SUBSTRATE IS TO BE REMOVED TOGETHER WITH THE TILE FINISH. CEMENT BLOCK OR MASONRY SUBSTRATES ARE TO BE SCRAPED AS REQUIRED IN PREPARATION TO RECEIVE NEW FINISHES. OTHER EXISTING SUBSTRATE CONDITIONS ARE TO BE FURTHER INVESTIGATED IN THE FIELD AND THE ARCHITECT IS TO BE NOTIFIED OF EXISTING SUBSTRATE CONDITIONS ONCE PROBES HAVE BEEN COMPLETED. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE TO THE ARCHITECT SO AS NOT TO DELAY THE PROGRESS OF THE WORK.

b. WHERE OTHER EXISTING WALL FINISHES (WOOD, METAL CLADDING ETC) ARE SCHEDULED TO BE REMOVED, THE CONTRACTOR IS TO REMOVE THE FINISHES ONLY. SUBSTRATE IS TO REMAIN, AND CONDITION IS TO BE VERIFIED IN THE FIELD AFTER PROBES ARE PERFORMED, ON A CASE BY CASE BASIS. CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE SO AS NOT TO DELAY THE WORK.

16. CEILING FINISHES:

a. WHERE EXISTING CEILING FINISHES ARE SCHEDULED TO BE REMOVED, DEMOLITION WORK IS TO BE PERFORMED AS FOLLOWS:

i. REMOVE EXISTING ACOUSTIC CEILING TILE SYSTEM IN ITS ENTIRETY INCUDING ALL MAIN RUNNERS, TEES AND SUPPORTS UNLESS OTHERWISE NOTED.
ii. REMOVE EXISTING SUSPENDED GWB SYSTEM IN ITS ENTIRETY AS INDICATED ON PLANS UNLESS OTHERWISE NOTED.
iii. REMOVE EXISTING PLASTER FINISH AND ANY MESH BEYOND AS REQUIRED IN PREPARATION TO RECEIVE NEW FINISHES IN AREAS INDICATED IN PLANS.

b. PERFORM PROBES AS REQUIRED TO CLARIFY EXISTING SUBSTRATES AND SYSTEMS BEYOND IN AREAS WHERE EXISTING SYSTEMS ARE NOT EASILY IDENTIFIED BY OBSERVATION.

17. PATCH AND REPAIR ALL SURFACES, SUBSTRATES AND FINISHES IN AREAS AFFECTED BY REMOVALS TO AS-NEW CONDITION TO MATCH EXISTING ADJACENT CONDITIONS. IF FLOOR-MOUNTED EQUIPMENT IS REMOVED AND NOT REPLACED, PROVIDE AND INSTALL NEW FLOORING TO MATCH EXISTING ADJACENT CONDITIONS.
18. REMOVE FROM SITE ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION WORK AND AS REQUIRED DURING THE COURSE OF NEW CONSTRUCTION WORK. THE WORK SITE IS TO BE KEPT CLEAN WITH NO DEBRIS PERMITTED TO ACCUMULATE ON SITE. THE CONTRACTOR SHALL LEAVE THE SITE BROOM CLEAN AT THE END OF DEMOLITION.

19. UNCOVERED CONDITIONS DURING DEMOLITION:

a. ALL WALLS SCHEDULED TO BE REMOVED HAVE BEEN INSPECTED TO DETERMINE WHETHER THEY ARE LOAD BEARING. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION. IF ANY EXISTING STRUCTURAL MEMBER OR LOAD BEARING WALL IS UNCOVERED DURING THE COURSE OF DEMOLTION IT IS NOT TO BE DISTURBED. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY SO THAT ANY DESIGN CHANGES CAN BE MADE TO ACCOMMODATE PROPOSED WORK WITHOUT DISTURBING EXISTING STRUCTURE. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE SO AS NOT TO DELAY THE WORK.

b. ANY MECHANICAL OR PLUMBING CHASES UNCOVERED DURING THE COURSE OF DEMOLITION ARE NOT TO BE DISTURBED UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONTRACTOR IS TO NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY EXISTING CONDITION NOT DEPICTED IN THE DRAWINGS FOR ARCHITECT/ENGINEER TO ASSESS THE EXISTING SYSTEM AND ACCOMMODATE PROPOSED WORK WITHOUT DISTURBING EXISTING BUILDING SYSTEMS. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE SO AS NOT TO DELAY THE WORK.

c. IN AREAS WHERE EXISTING CEILING FINISHES OR CEILINGS ARE SCHEDULED TO BE REMOVED OR REPLACED, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FROM EXISTING CONDITIONS DEPICTED IN THE DRAWINGS, AND OF ANY EXISTING STRUCTURAL MEMBER, MEP SERVICES OR EQUIPMENT UNCOVERED DURING DEMOLITION.

d. CONTRACTOR IS TO IDENTIFY ANY EXISTING CONDITIONS BEYOND EASILY OBSERVED FINISHES, OR PROPOSED FINISHES AFFECTING ALL WORK DURING THE COURSE OF DEMOLITION, AND NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH NEW CONSTUCTION, SO THAT ANY DESIGN CHANGES CAN BE MADE TO ACCOMMODATE UNCOVERED CONDITIONS. THE CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE SO AS NOT TO DELAY THE WORK.

e. AT DEMOLITION COMPLETION, A SITE MEETING IS TO BE SCHEDULED TO REVIEW EXISTING CONDITIONS WITH THE ARCHITECT AND ENGINEER SO THAT ANY UNFORSEEN AND UNCOVERED CONDITIONS CAN BE INCLUDED IN THE DESIGN AND CHANGES CAN BE MADE IN A TIMELY MANNER.

20. CONTRACTOR IS TO PROTECT ALL BUILDING COMMON AREAS THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL AFFECTED AREAS ARE TO BE KEPT DUST FREE AND CLEANED DAILY. CONTRACTOR SHALL ADHERE TO ALL OWNER REQUIREMENTS RELATIVE TO THE PROTECTION OF WORK AREAS AS OUTLINED IN THE PROJECT SPECS AND CONTRACT.

ANNE HUTCHINSON ELEMENTARY SCHOOL

60 MILL ROAD, EASTCHESTER, NY 10709

SED NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

ISSUED FOR BID: 11/06/2024

2020 EXISTING BUILDING CODE OF NEW YORK STATE ANALYSIS - CLASSIFICATION OF WORK

EBC 603	**ALTERATION - LEVEL 2**	
EBC 603.1	SCOPE	LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, AND THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM. OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

2020 BUILDING CODE OF NEW YORK STATE - ANALYSIS CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE CHAPTER 6 - TYPES OF CONSTRUCTION

BC 302.1	OCCUPANCY CLASSIFICATION	3. EDUCATIONAL (SECTION 305): **GROUP E**
BC 305.1	EDUCATIONAL GROUP E	EDUCATIONAL GROUP E OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.
TABLE 601	FIRE-RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS EXISTING BUILDING	PRIMARY STRUCTURAL FRAME, BEARING WALLS AND PARTITIONS, NONBEARING WALLS AND PARTITIONS, FLOOR CONSTRUCTION, AND ROOF CONSTRUCTION. **TYPE I-B AND II-B** FIRE-RESISTANCE (HOURS): **0**

2020 BUILDING CODE OF NYS CHAPTER 29: PLUMBING FIXTURES

TABLE 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

TOTAL OCCUPANT LOAD (FOR PLUMBING PURPOSES) : 1,170

	WATER CLOSETS REQ. / EXIST. / PROV.*	URINALS REQ. / EXIST. / PROV.	LAVATORIES REQ. / EXIST. / PROV.	DRINKING FOUNTAINS REQ. / EXIST. / PROV.	SERVICE SINKS REQ. / EXIST. / PROV.
FEMALE 585 1:50	12 / 20 / X	- / - / -	1:50 12 / 15 / X	1:100 12 / 5 / 5	1 / 5 / X
MALE 585 1:50	12 / 17 / X	NA / 5 / X	1:50 12 / 11 / X		

* REQ. / EXIST. / PROV. = REQUIRED BY CODE / EXISTING IN THE BUILDING / PROVIDED BY THIS PROJECT

NOTES.
1. OCCUPANT LOAD DETERMINED AS PER NYS BC 2020 TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT [...] 'FOR THE AREAS OF THOSE INSTRUCTIONAL CLASSROOMS THAT ARE LOGICALLY OCCUPIED AT HOMERUN.' AS PER SED BULLETIN 'RESTROOM AVAILABILITY' DATED MARCH 2019. THE OCCUPANT LOAD IS 1,170.
2. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67 (%) PERCENT OF THE REQUIRED WATER CLOSETS FOR MALES.

PLAN GRAPHICS LEGEND

EXISTING CONSTRUCTION TO REMAIN
EXISTING CONSTRUCTION TO BE REMOVED
NEW CONCRETE MASONRY WALL
NEW METAL STUD WALL
NEW BRICK VENEER
EXISTING DOOR TO REMAIN
EXISTING DOOR TO BE REMOVED
NEW DOOR

FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW U.O.N. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.

18" MIN — 6" — 12"

DRAWING LIST

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

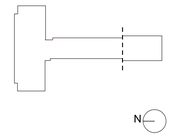
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

BID DOCUMENTS	11/06/2024
ISSUE	DATE

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
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GENERAL INFORMATION

AH G001

PARTITION NOTES

1A — PARTITION TYPE NUMBER

NOM. CMU SIZE	STC RATING	FIRE RATING	SIDE ONE FINISH
		TEST DESIGN	SIDE TWO FINISH

GENERAL PARTITION NOTES

1. THIS PARTITION TYPE SCHEDULE IS GENERIC IN NATURE. NOT ALL OF THE PARTITION TYPES ILLUSTRATED ON THIS SHEET HAVE BEEN UTILIZED IN THIS PROJECT. SEE FLOOR PLANS FOR LOCATIONS OF PARTITION TYPES USED.
2. ALL INTERIOR PARTITIONS INDICATED ON THE FLOOR PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY PARTITION SHOWN ON THE FLOOR PLANS WITHOUT A PARTITION TAG. THE ARCHITECT WILL DETERMINE THE PARTITION TYPE TO BE USED AT SUCH LOCATIONS.

FIRE RATED SYSTEMS

1. PROVIDE FIRE RATED JOINT SYSTEMS AT ALL INTERSECTIONS OF FIRE RATED PARTITION ASSEMBLIES AND FIRE RATED FLOOR/ROOF ASSEMBLIES. THE FIRE RATED JOINT SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE PARTITION IN WHICH IT IS BEING USED. THIS JOINT SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
2. PROVIDE THROUGH-PENETRATION FIRE STOP SYSTEM AT ALL PENETRATIONS THROUGH FIRE RATED PARTITION, FLOOR AND ROOF ASSEMBLIES. THE THROUGH-PENETRATION FIRE STOP SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE ASSEMBLY THAT IT IS BEING USED IN. THIS FIRE STOP SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
3. ANY PRODUCT THAT EMITS ODOR MUST MEET THE REQUIREMENTS OF THE NEW YORK STATE EDUCATION DEPARTMENT.
4. CONCEALED VERTICAL SPACES IN PARTITIONS SHALL BE FILLED WITH NON COMBUSTIBLE MATERIAL, OR FIRE-STOPPED AT EACH FLOOR LEVEL AND AT THE CEILING OF THE UPPERMOST STORY, SO THAT SUCH SPACES WILL NOT BE CONTINUOUS FOR MORE THAN ONE STORY, OR COMMUNICATE WITH CONCEALED HORIZONTAL SPACES IN THE FLOOR OR ROOF CONSTRUCTION.
5. ALL PARTITION TYPE DIAGRAMS ARE GRAPHICAL IN NATURE. IN THE CASE WHERE A DIAGRAM DOES NOT SHOW ALL MATERIALS REQUIRED BY A FIRE-RATED PARTITION, THE PARTITION TYPE DESCRIPTION GOVERNS.

NOTES FOR SEALING OPENINGS IN FIRE RATED WALLS
IF ANY FIRE RATED WALL IS OPENED UP FOR ANY PART OF THE WORK, THEY MUST BE RECONSTRUCTED SO THAT THEY MEET ALL LOCAL CODE REQUIREMENTS AS FOLLOWS:

1. AT A MINIMUM THE OPENINGS MUST BE CLOSED WITH A FIREPROOF PATCHING COMPOUND OR THE AFFECTED WALL SIDE SHALL BE REBUILT WITH TWO LAYERS OF TYPE "X" FIRE RATED GYPSUM WALL BOARD, PLACED IN SUCH A WAY THAT THE SEAMS ARE STAGGERED. THE GYPSUM WALL BOARD WHICH COME IN CONTACT WITH THE FLOOR AND CEILING SHALL BE SEALED USING AN APPROVED FIRE RATED SEALANT.
2. CHASE WALLS MUST BE COMPLETELY SEALED AND SOUNDPROOFED TO REDUCE AIR, DUST, SMOKE AND NOISE TRANSFER
3. ALL OUTLETS, SWITCHE AND OTHER COVERS SHALL HAVE GASKETS AND ALL BOARDS SHALL BE STAGGERED IN THE LAYERING.
4. THE TOP AND BOTTOM OF JOINTS FOR THE SHEET BOARDS WHERE THEY MEET THE FLOOR AND CEILING MUST BE FULLY SEALED WITH ACOUSTIC FIRE RATED CAULKING.

REFER TO DEMOLITION AND CONSTRUCTION NOTES ON SHEET G002 FOR MORE INFORMATION

CMU WALL SYSTEMS

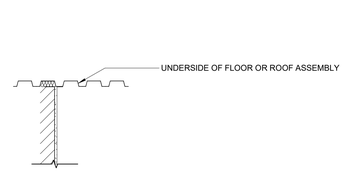
1. ALL PLAN DIMENSIONS ARE TO FACE OF CMU, UNLESS NOTED OTHERWISE.
2. PROVIDE HORIZONTAL JOINT REINFORCEMENT EVERY OTHER CMU COURSE.
3. PROVIDE (2) VERTICAL #4 BARS IN FULLY GROUTED CORES AT THE FOLLOWING LOCATIONS:
   A) PARTITION INTERSECTIONS (REINFORCE FULL HEIGHT)
   B) DOOR OPENINGS (REINFORCE FULL HEIGHT OFDOOR)
   C) WINDOW OPENINGS (REINFORCE FLOOR TO WINDOW HEAD)
   D) WALL ENDS (REINFORCE FULL HEIGHT)
4. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REINFORCING AND ANCHORING REQUIREMENTS.
5. PROVIDE BULLNOSE MASONRY UNITS ON ALL OUTSIDE CORNERS OF WALLS UNLESS NOTED OTHERWISE.

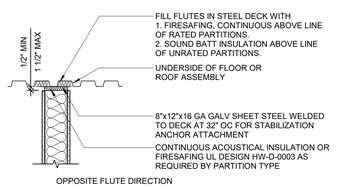
METAL STUD PARTITION AND CEILING SYSTEMS

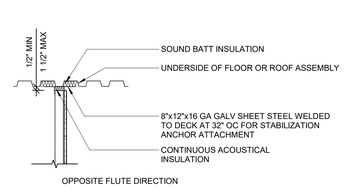
1. ALL DIMENSIONS ARE TO THE FACE OF GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.
2. PROVIDE METAL BRACING AT THIRD POINTS AT THE INTERIOR OF METAL STUD CHASE PARTITIONS. BRACING SHALL NOT EXCEED 48" OC.
3. PROVIDE METAL L.C. BEAD, BACKER ROD AND SEALANT AT THE INTERSECTION OF GYP BD PARTITIONS AND MASONRY PARTITIONS.
4. PROVIDE ACOUSTICAL SEALANT IN THE FOLLOWING LOCATIONS:
   A) PERIMETER OF PARTITIONS
   B) RUNNERS
   C) ELECTRICAL OUTLETS
   D) PARTITION PENETRATIONS AND OPENINGS
5. PROVIDE BLOCKING WITHIN PARTITIONS TO SUPPORT PARTITION MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES. COORDINATE WITH CABINETRY DETAILS AND MEP DRAWINGS.
6. ALL INTERIOR METAL STUDS AND METAL FURRING AT PARTITIONS ARE 20 GAUGE UNLESS OTHERWISE NOTED. ALL INTERIOR METAL STUDS AND FURRING FOR CEILING SOFFITS ARE 25 GAUGE UNLESS NOTED OTHERWISE.
7. ANCHOR INSULATION TO STUD SYSTEM WITH WIRE SUPPORT SYSTEM IF INSULATION IS NOT SUPPORTED ON BOTH SIDES BY GYPSUM BOARD. WHERE DOUBLE STUD PARTITIONS ARE USED TO FORM CHASE PARTITIONS ONLY PROVIDE SOUND ATTENUATION BLANKETS ON ONE SIDE OF CHASE
8. GYPSUM BOARD SCHEDULE
   - 5/8" TYPE "X" GYPSUM BOARD UNLESS NOTED OTHERWISE.
   - CORRIDOR AND STUDENT OCCUPIED SPACES FROM FLOOR TO 8'-0" ABOVE FINISHED FLOOR: 5/8" TYPE "X" ABUSE RESISTANT GYPSUM BOARD
   -SUSPENDED GYPSUM BOARD CEILINGS: 5/8" TYPE "X" SAG RESISTANT GYPSUM BOARD
   -EXTERIOR CEILINGS AND SOFFITS: 5/8" GLASS-MAT GYPSUM SHEATHING
   -PARTITIONS TO RECEIVE TILE FINISH: 5/8" TYPE "X"GLASS-MAT WATER RESISTANT BACKING BOARD
   - TOILET ROOMS, KITCHENS & JANITOR CLOSETS: PARTITIONS & CEILINGS THAT DO NOT RECEIVE TILE SHALL RECEIVE 5/8" TYPE "X" MOISTURE & MOLD RESISTANT GYPSUM BOARD

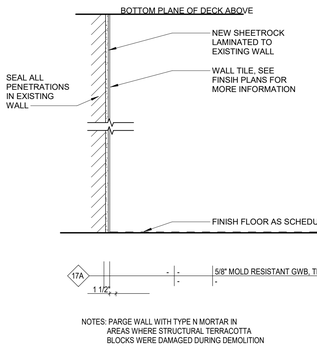
MAXIMUM SPACING - GYPSUM BOARD CONTROL JOINTS

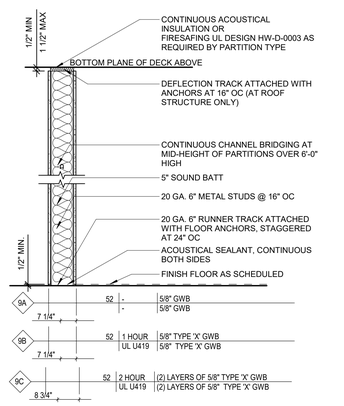
CONSTRUCTION AND LOCATION	MAX SINGLE DIMENSION	MAX SINGLE AREA
	FEET	FEET
PARTITION - INTERIOR	30	-
CEILING - INTERIOR		
W/ PERIMETER RELIEF	50	2500
W/O PERIMETER RELIEF	30	900

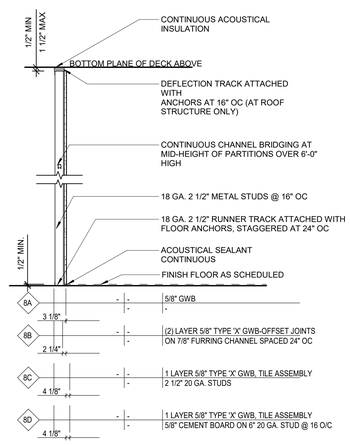








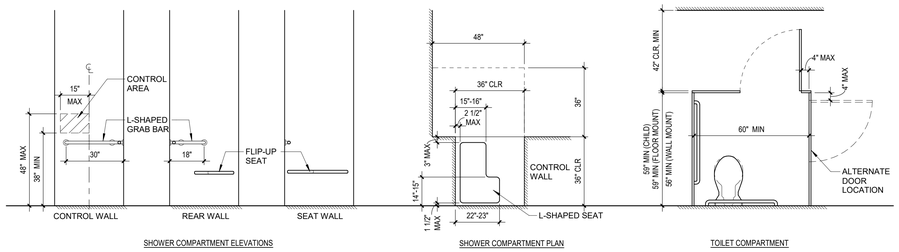


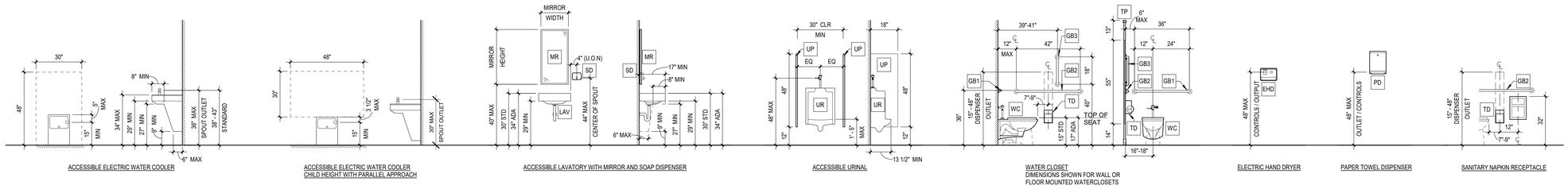


PARTITION TYPES

3/4" = 1'-0"

20





TOILET ROOM EQUIPMENT MOUNTING DETAILS 1

3/8" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

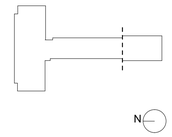
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

PARTITION TYPES

AH G002

LIFE SAFETY LEGEND

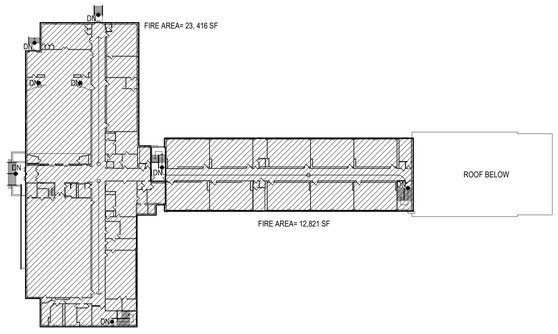
RW RESCUE WINDOW

EGRESS PATH END / START

ONE-HOUR RATED PARTITION

2020 BUILDING CODE OF NEW YORK STATE ANALYSIS - CHAPTER 10 MEANS OF EGRESS

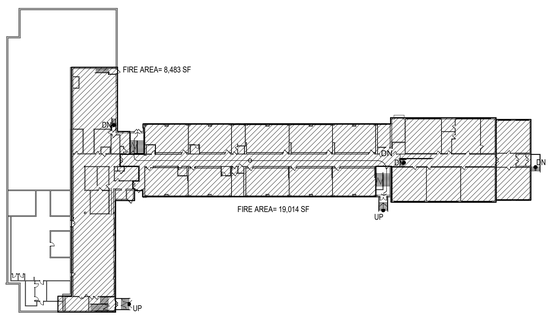
BC 1004.1	DESIGN OCCUPANT LOAD	IN DETERMINING MEANS OF EGRESS, THE NUMBER OF OCCUPANTS FOR WHOM MEANS OF EGRESS FACILITIES ARE PROVIDED SHALL BE DETERMINED IN ACCORDANCE WITH THIS SECTION.
TABLE 1004.5 OCC	MAX. FLOOR AREA PER OCC.	ACCESSORY STORAGE AREAS, MECHANICAL EQUIP. RM 300 SF. GROSS/ ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED 15 SF. NET / OCC. WITH FIXED SEATS (1004.4) INSTALLED SEATS (THE TOTAL NUMBER OF INSTALLED SEATS AT ANNE HUTCHINSON ES IS 400) BUSINESS AREAS 150 SF. GROSS/ CONCENTRATED BUSINESS AREAS > 50 SF/OCC EDUCATIONAL CLASSROOM AREA 20 SF. NET / OCC. SHOPS AND OTHER VOCATIONAL 50 SF. NET / OCC. EXERCISE ROOMS 50 SF. GROSS /
OCC..		LIBRARY READING ROOMS 50 SF. NET / OCC. STACK AREA 100 SF. GROSS/
OCC.		STAGES AND PLATFORMS 15 SF. NET / OCC.
BC 1004.7	OUTDOOR AREAS	YARD, PATIOS, OCCUPIED ROOFS, COURTS AND SIMILAR OUTDOOR AREAS ACCESSIBLE TO AND USABLE BY THE BUILDING OCCUPANTS SHALL BE PROVIDED .MEANS OF EGRESS AS REQUIRED BY THIS CHAPTER. THE OCCUPANT LOAD SHALL BE ASSIGNED BY THE BUILDING OFFICIAL.
BC 1005.3.1	STAIRWAYS	THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAY BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT.
BC 1005.3.2	OTHER EGRESS COMPONENTS	THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT.
TABLE 1006.2.1	MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 75 FEET
TABLE 1006.3.1	MIN.NUMBER OF EXITS OR ACCESS TO EXITS PER STORY	OCCUPANT LOAD PER STORY MIN. NUMBER OF EXITS OR ACCESS TO EXITS 1-500 2 501-1,000 3 > 1,000 4
BC 1007.1.1	TWO EXITS OR EXIT	WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS [...] THE ACCESS DOORWAYS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED IN A STRAIGHT LINE BETWEEN THEM.
BC 1007.1.2	THREE OR MORE EXITS OR	WHERE ACCESS TO THREE OR MORE EXITS IS REQUIRED [...] ADDITIONAL REQUIRED EXIT OR EXIT ACCESS DOORWAYS ACCESS DOORWAYS SHALL BE ARRANGED A REASONABLE DISTANCE A SHALL BE ARRANGED A REASONABLE DISTANCE APART SO THAT ONE BECOMES BLOCKED THE OTHERS WILL BE AVAILABLE.
BC 1008.1	MEANS OF EGRESS	ILLUMINATION SHALL BE PROVIDED IN THE MEANS OF EGRESS IN ACCORDANCE TO SECTION ILLUMINATION 1008.2 UNDER EMERGENCY POWER, MEANS OF EGRESS ILLUMINATION SHALL COMPLY WITH SECTION 1008.3.
BC 1009.1 BY	ACCESSIBLE MEANS OF EGRESS REQUIRED	[...] WHERE MORE THAN ONE MEANS OF EGRESS ARE REQUIRED [...] EACH ACCESSIBLE EGRESS REQUIRED PORTION OF THE SPACE SHALL BE SERVED NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS. EXCEPTION: 1. ACCESSIBLE MEANS OF EGRESS ARE NOT REQUIRED TO PROVIDED IN EXISTING BUILDINGS.
TABLE 1017.2	EXIT ACCESS TRAVEL DISTANCE	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 200 FEET
TABLE 1020.1	CORRIDOR FIRE-RESISTANCE RATING	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 1 (HOUR)
BC 1020.4	DEAD ENDS	WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS WITH MORE THAN 20 FEET IN LENGTH.
BC 1028.1	EXIT DISCHARGE	EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER THE BUILDING.



FIRE AREA PLAN - FIRST FLOOR

1" = 50'-0"

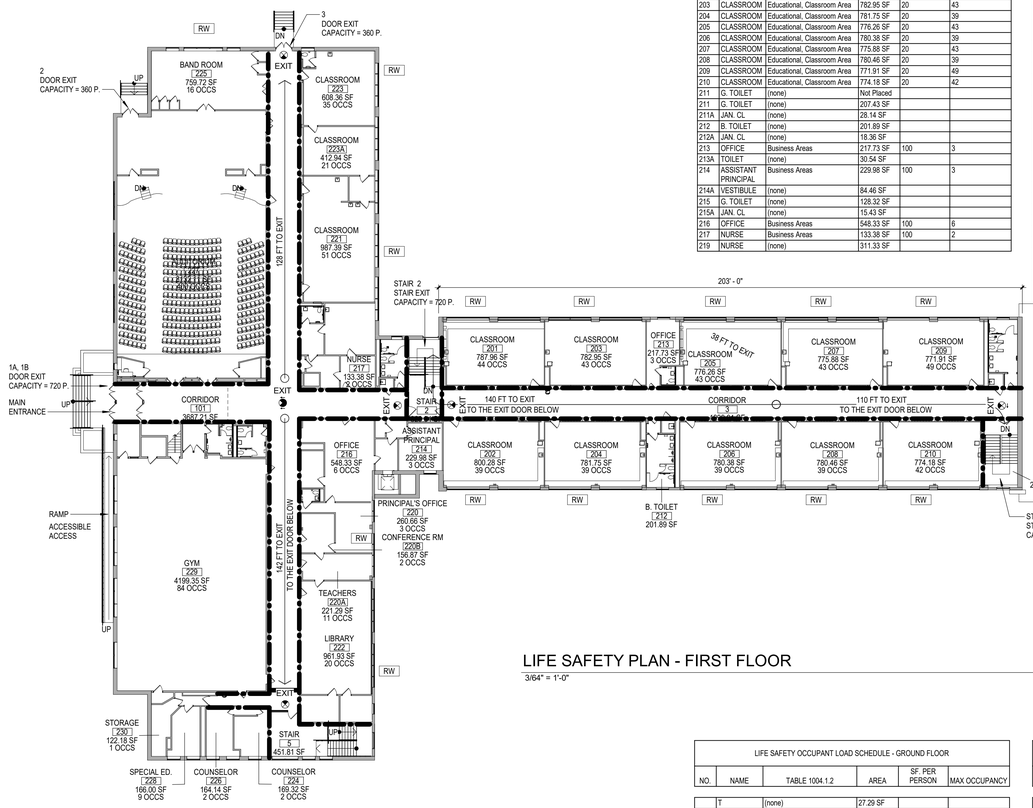
21



FIRE AREA PLAN - GROUND FLOOR

1" = 50'-0"

11



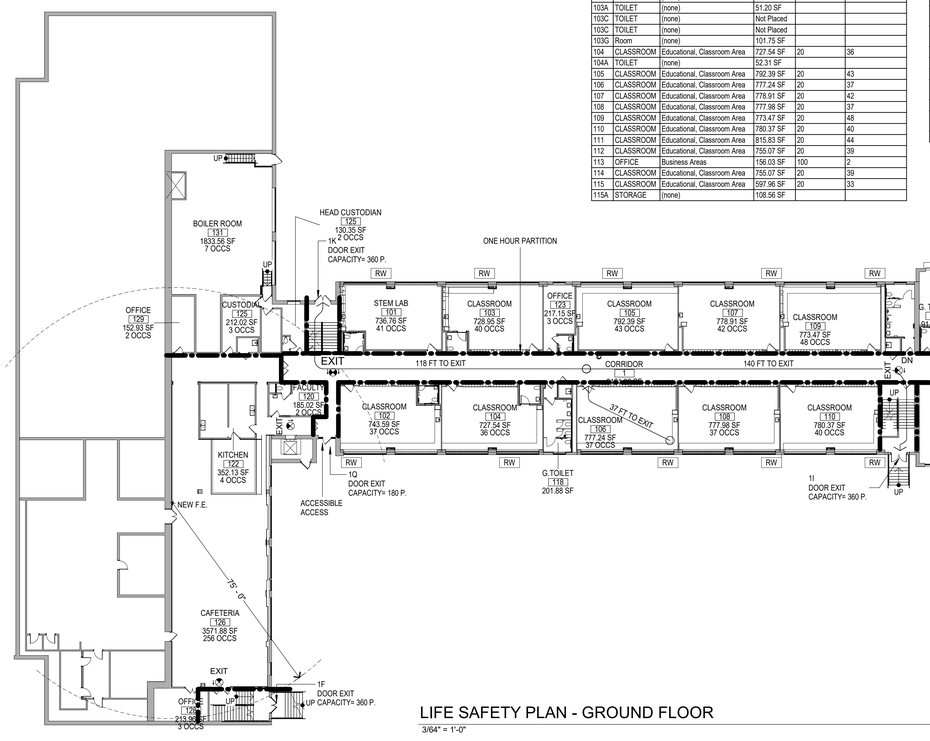
LIFE SAFETY PLAN - FIRST FLOOR

3/64" = 1'-0"

30

LIFE SAFETY OCCUPANT LOAD SCHEDULE - FIRST FLOOR					
NO.	NAME	TABLE 1004.1.2	AREA	SF. PER PERSON	MAX OCCUPANCY
201	CLASSROOM	Educational, Classroom Area	787.96 SF	20	44
202	CLASSROOM	Educational, Classroom Area	800.28 SF	20	39
203	CLASSROOM	Educational, Classroom Area	782.95 SF	20	43
204	CLASSROOM	Educational, Classroom Area	781.75 SF	20	39
205	CLASSROOM	Educational, Classroom Area	776.26 SF	20	43
206	CLASSROOM	Educational, Classroom Area	780.38 SF	20	39
207	CLASSROOM	Educational, Classroom Area	775.88 SF	20	43
208	CLASSROOM	Educational, Classroom Area	780.46 SF	20	39
209	CLASSROOM	Educational, Classroom Area	771.91 SF	20	49
210	CLASSROOM	Educational, Classroom Area	774.18 SF	20	42
211	G. TOILET	(none)	Not Placed		
211	G. TOILET	(none)	207.43 SF		
211A	JAN. CL	(none)	28.14 SF		
212	B. TOILET	(none)	201.89 SF		
212A	JAN. CL	(none)	18.36 SF		
213	OFFICE	Business Areas	217.73 SF	100	3
213A	TOILET	(none)	30.54 SF		
214	ASSISTANT PRINCIPAL	Business Areas	229.98 SF	100	3
214A	VESTIBULE	(none)	84.46 SF		
215	G. TOILET	(none)	128.32 SF		
215A	JAN. CL	(none)	15.43 SF		
216	OFFICE	Business Areas	548.33 SF	100	6
217	NURSE	Business Areas	133.38 SF	100	2
219	NURSE	(none)	311.33 SF		

LIFE SAFETY OCCUPANT LOAD SCHEDULE - FIRST FLOOR					
NO.	NAME	TABLE 1004.1.2	AREA	SF. PER PERSON	MAX OCCUPANCY
219A	TOILET	(none)	45.00 SF		
220	PRINCIPAL'S OFFICE	Business Areas	260.66 SF	100	3
220A	TEACHERS	Educational, Classroom Area	221.29 SF	20	11
220B	CONFERENCE RM	Business Areas	156.87 SF	100	2
220C	TOILET	(none)	27.30 SF		
221	CLASSROOM	Educational, Classroom Area	987.39 SF	20	51
221A	TOILET	(none)	Not Placed		
221B	STORAGE	(none)	74.39 SF		
222A	STORAGE	(none)	121.27 SF		
222B	OFFICE	(none)	101.98 SF		
223	CLASSROOM	Educational, Classroom Area	698.36 SF	20	35
223A	CLASSROOM	Educational, Classroom Area	412.94 SF	20	21
223T	TOILET	(none)	25.64 SF		
224	COUNSELOR	Business Areas	169.32 SF	100	2
225	BAND ROOM	Educational, Shops and other vocational room areas	759.72 SF	50	16
226	COUNSELOR	Business Areas	164.14 SF	100	2
227	AUDITORIUM	(none)	3132.11 SF		400
227A	SEC. OFFICE	Business Areas	50.79 SF	100	1
227B	STAGE	(none)	1476.36 SF	15	99
227C	Room	(none)	Not Placed		
228	SPECIAL ED.	Educational, Classroom Area	166.00 SF	20	9
229	GYM	Exercise rooms	4199.35 SF	50	84
229A	GYM OFFICE	Business Areas	88.79 SF	100	1
229B	TOILET	(none)	93.59 SF		
229C	TOILET	(none)	107.71 SF		
230	STORAGE	Accessory storage areas, mechanical equipment room	122.18 SF	300	1
TOTAL OCCUPANCY					1172



LIFE SAFETY PLAN - GROUND FLOOR

3/64" = 1'-0"

10

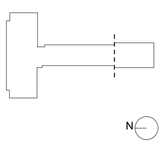
LIFE SAFETY OCCUPANT LOAD SCHEDULE - GROUND FLOOR					
NO.	NAME	TABLE 1004.1.2	AREA	SF. PER PERSON	MAX OCCUPANCY
	T	(none)	27.29 SF		
	T	(none)	24.92 SF		
-	STORAGE	Accessory storage areas, mechanical equipment room	42.78 SF	300	1
-	IT CL.	(none)	22.27 SF		
-	STORAGE	(none)	195.30 SF		
100	SECURE VESTIBULE	(none)	131.77 SF		
101	STEM LAB	Educational, Classroom Area	736.76 SF	20	41
101B	TOILET	(none)	51.55 SF		
102	CLASSROOM	Educational, Classroom Area	743.59 SF	20	37
102A	TOILET	(none)	43.86 SF		
102B	TOILET	(none)	Not Placed		
103	CLASSROOM	Educational, Classroom Area	728.95 SF	20	40
103A	TOILET	(none)	Not Placed		
103A	TOILET	(none)	51.20 SF		
103C	TOILET	(none)	Not Placed		
103C	TOILET	(none)	Not Placed		
103G	Room	(none)	101.75 SF		
104	CLASSROOM	Educational, Classroom Area	727.54 SF	20	36
104A	TOILET	(none)	52.31 SF		
105	CLASSROOM	Educational, Classroom Area	792.39 SF	20	43
106	CLASSROOM	Educational, Classroom Area	777.24 SF	20	37
107	CLASSROOM	Educational, Classroom Area	778.91 SF	20	42
108	CLASSROOM	Educational, Classroom Area	777.98 SF	20	37
109	CLASSROOM	Educational, Classroom Area	773.47 SF	20	48
110	CLASSROOM	Educational, Classroom Area	780.37 SF	20	40
111	CLASSROOM	Educational, Classroom Area	815.83 SF	20	44
112	CLASSROOM	Educational, Classroom Area	755.07 SF	20	39
113	OFFICE	Business Areas	156.03 SF	100	2
114	CLASSROOM	Educational, Classroom Area	755.07 SF	20	39
115	CLASSROOM	Educational, Classroom Area	597.96 SF	20	33
115A	STORAGE	(none)	108.56 SF		

LIFE SAFETY OCCUPANT LOAD SCHEDULE - GROUND FLOOR					
NO.	NAME	TABLE 1004.1.2	AREA	SF. PER PERSON	MAX OCCUPANCY
115B	CLASSROOM	Educational, Classroom Area	318.87 SF	20	17
116	CLASSROOM	Educational, Classroom Area	755.07 SF	20	36
117	CLASSROOM	Educational, Classroom Area	716.70 SF	20	40
118	CLASSROOM	Educational, Classroom Area	703.85 SF	20	35
118	G.TOILET	(none)	201.88 SF		
119	G. TOILET	(none)	91.80 SF		
120	FACULTY	Business Areas	185.02 SF	100	2
120A	TOILET	(none)	15.74 SF		
121	B. TOILET	(none)	Not Placed		
121	B. TOILET	(none)	207.57 SF		
122	KITCHEN	Business Areas	352.13 SF	100	4
123	OFFICE	Business Areas	217.15 SF	100	3
123	Room	(none)	Not Placed		
123A	TOILET	(none)	32.09 SF		
125	CUSTODIAL	Business Areas	212.02 SF	100	3
125	HEAD CUSTODIAN	Business Areas	130.35 SF	100	2
126	CAFETERIA	Assembly, Unconcentraded (tables and chairs)	3571.88 SF	15	256
127	ELEC. CL	(none)	100.56 SF		
128	OFFICE	Business Areas	213.96 SF	100	3
129	OFFICE	Business Areas	152.93 SF	100	2
130	STORAGE	Accessory storage areas, mechanical equipment room	2296.65 SF	300	11
130A	ELEC. ROOM	(none)	150.15 SF		
131	BOILER ROOM	Accessory storage areas, mechanical equipment room	1833.56 SF	300	7
135A	TOILET	(none)	13.49 SF		
TOTAL OCCUPANCY					980

BID DOCUMENTS 11/06/2024

ISSUE DATE

KEY PLAN



PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

LIFE SAFETY PLAN - GROUND & FIRST FLOOR

AH LS001

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
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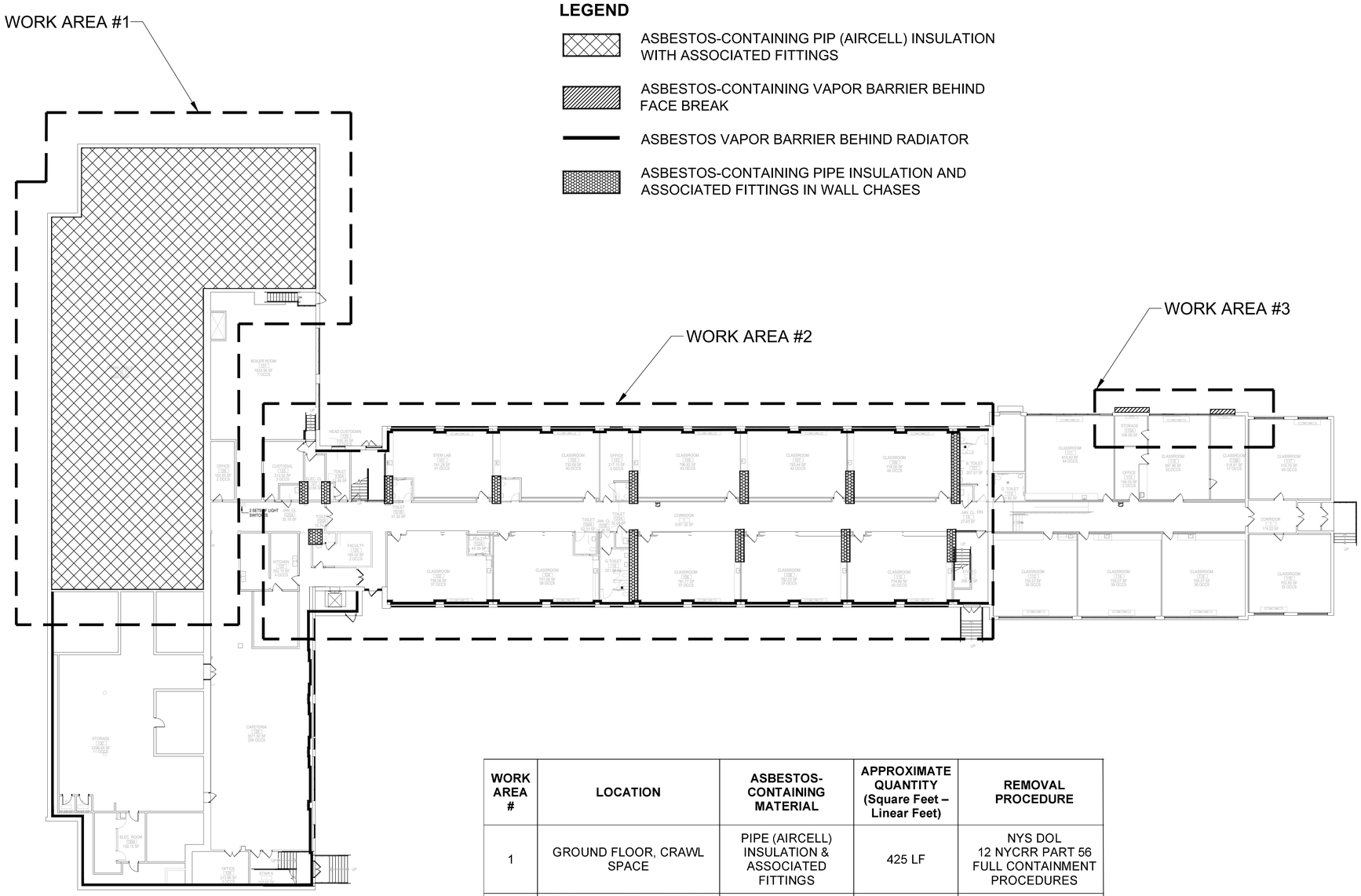


WORK AREA #	LOCATION	ASBESTOS-CONTAINING MATERIAL	APPROXIMATE QUANTITY (Square Feet – Linear Feet)	REMOVAL PROCEDURE
1	GROUND FLOOR, CRAWL SPACE	PIPE (AIRCELL) INSULATION & ASSOCIATED FITTINGS	425 LF	NYS DOL 12 NYCRR PART 56 FULL CONTAINMENT PROCEDURES
2	GROUND FLOOR, ROOMS 101, 102, 105, 106, 107, 108, 109, 110, BATHROOMS (118 & 121), 127, FACULTY ROOM 120 (WALL CHASES)	PIPE (AIRCELL) INSULATION & ASSOCIATED FITTINGS	500 LF	NYS DOL 12 NYCRR PART 56 FULL CONTAINMENT PROCEDURES
3	EXTERIOR, ANNEX	VAPOR BARRIER BEHIND FACE BRICK (LOCATIONS FOR NEW WALL OPENINGS)	6 SF	NYS DOL 12 NYCRR PART 56 §11.6 EXTERIOR PROJECT REMOVAL OF NON-FRIABLE ACM

ALL ABATEMENT IS BY GENERAL CONTRACT #1 WITH EXCEPTION OF ROOF AREAS WHICH ARE BY MECHANICAL CONTRACT #2.

GROUND FLOOR PLAN
1/16" = 1'-0"

1

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTAN
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10119

EXPIRATION DATE: XX/XX/202X

XXXXXXXXXX	XX/XX/XXXX
ISSUE	DATE

KEY PLAN

N

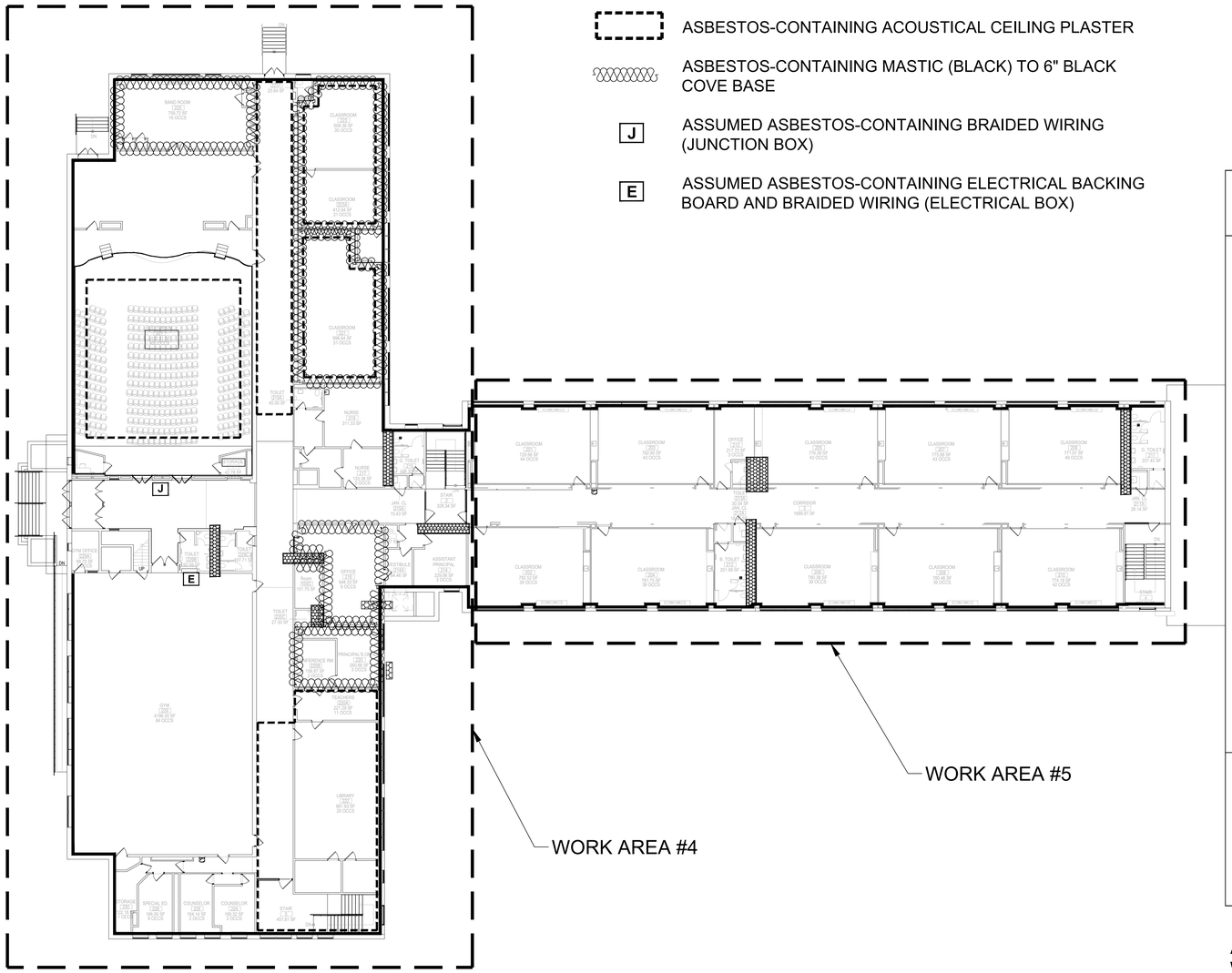
PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

ASBESTOS REMOVAL PLAN - GROUND FLOOR PLAN

H-003.00

LEGEND

- ASBESTOS-CONTAINING VAPOR BARRIER BEHIND RADIATOR
- ASBESTOS-CONTAINING PIPE INSULATION AND ASSOCIATED FITTINGS IN WALL CHASES
- ASBESTOS-CONTAINING ACOUSTICAL CEILING PLASTER
- ASBESTOS-CONTAINING MASTIC (BLACK) TO 6" BLACK COVE BASE
- [J] ASSUMED ASBESTOS-CONTAINING BRAIDED WIRING (JUNCTION BOX)
- [E] ASSUMED ASBESTOS-CONTAINING ELECTRICAL BACKING BOARD AND BRAIDED WIRING (ELECTRICAL BOX)



WORK AREA #	LOCATION	ASBESTOS-CONTAINING MATERIAL	APPROXIMATE QUANTITY (Square Feet – Linear Feet)	REMOVAL PROCEDURE
4	OFFICE 216, CLASSROOMS 218, 221, 223, 223A, 225	MASTIC (BLACK) TO 6" BLACK COVE BASE	320 SF	NYS DOL 12 NYCRR PART 56 FULL CONTAINMENT PROCEDURES
	PERIMETER WALL BEHIND RADIATORS (LOCATIONS FOR NEW WALL OPENINGS)	VAPOR BARRIER, BLACK	300 SF	
	AUDITORIUM	BRAIDED WIRING (PACM)	10 LF	
	GYM BATHROOMS, PRINCIPAL'S OFFICE BATHROOM, OFFICE 216, ASSISTANT PRINCIPAL OFFICE, GIRL'S BATHROOM (215) (WALL CHASE)	PIPE (AIRCELL) INSULATION & ASSOCIATED FITTINGS	300 LF	
	GYM	BRAIDED WIRING (PACM)	10 LF	
		ELECTRICAL BACKING BOARD (PACM)	4 SF	
	AUDITORIUM	ACOUSTICAL CEILING PLASTER	3,452 SF	
	CORRIDOR 1 AND STAIR 5		2,100 SF	
	CLASSROOMS 220, 221, 222, 223, AND 223A		3,198 SF	
5	BATHROOM IN OFFICE 213, BOYS BATHROOM (212) & GIRLS BATHROOM (211) (WALL CHASE)	PIPE (AIRCELL) INSULATION & ASSOCIATED FITTINGS	250 LF	NYS DOL 12 NYCRR PART 56 FULL CONTAINMENT PROCEDURES
	PERIMETER WALL BEHIND RADIATORS (LOCATIONS FOR NEW WALL OPENINGS)	VAPOR BARRIER, BLACK	400 SF	

ALL ABATEMENT IS BY GENERAL CONTRACT #1 WITH EXCEPTION OF ROOF AREAS WHICH ARE BY MECHANICAL CONTRACT #2.

FIRST FLOOR PLAN
1/16" = 1'-0"

1

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MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

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BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
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100 PARK BLVD, SUITE 209
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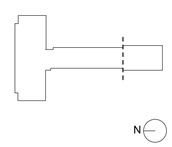
HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10119

EXPIRATION DATE: XX/XX/202X

XXXXXXXXXX	XX/XX/XXXX
ISSUE	DATE

KEY PLAN



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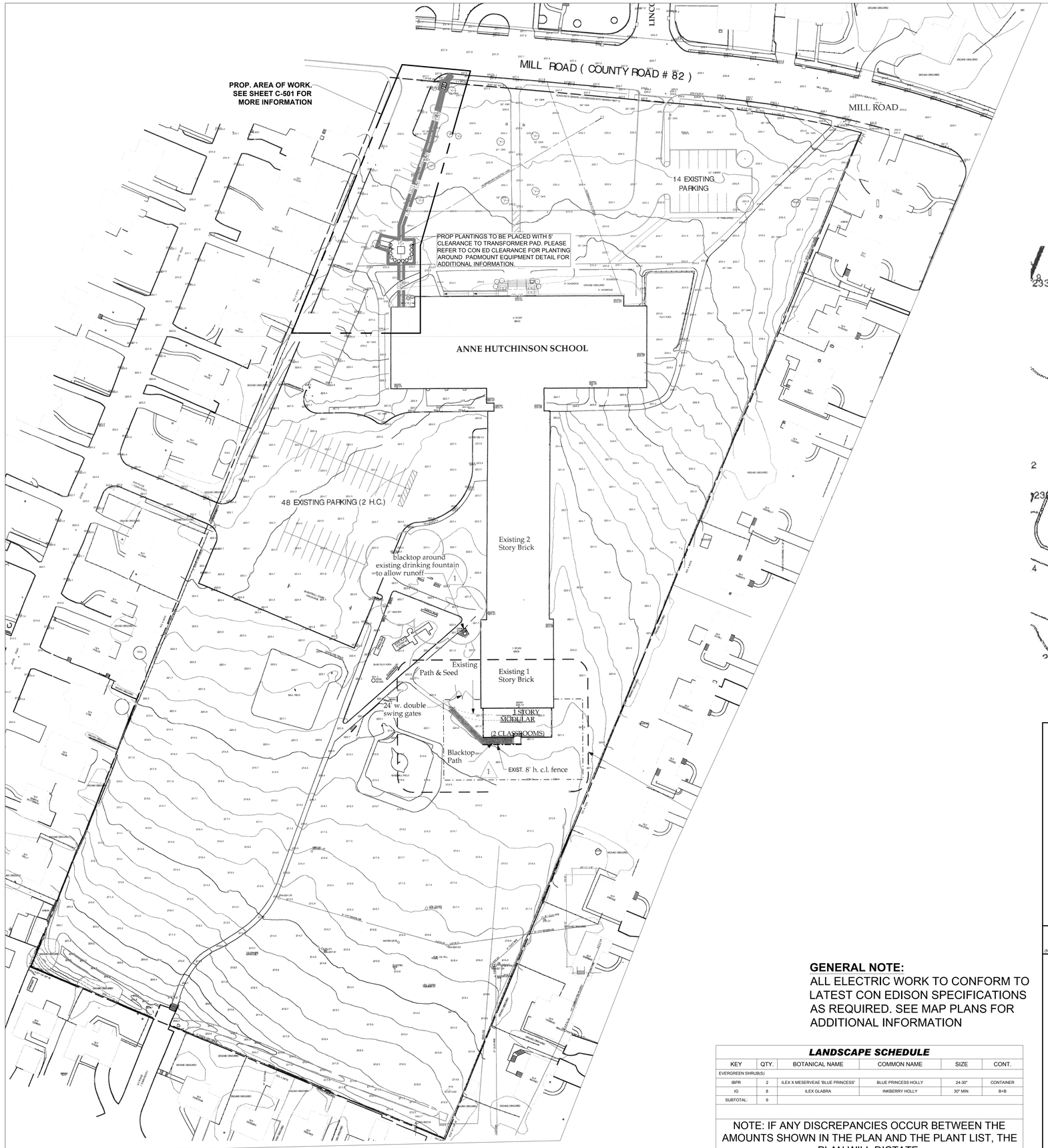
PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

ASBESTOS REMOVAL PLAN - FIRST FLOOR PLAN

H-004.00

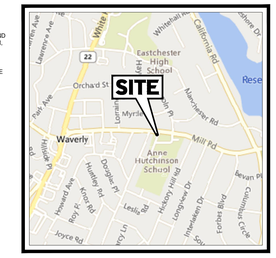


THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY

SITE LAYOUT NOTES

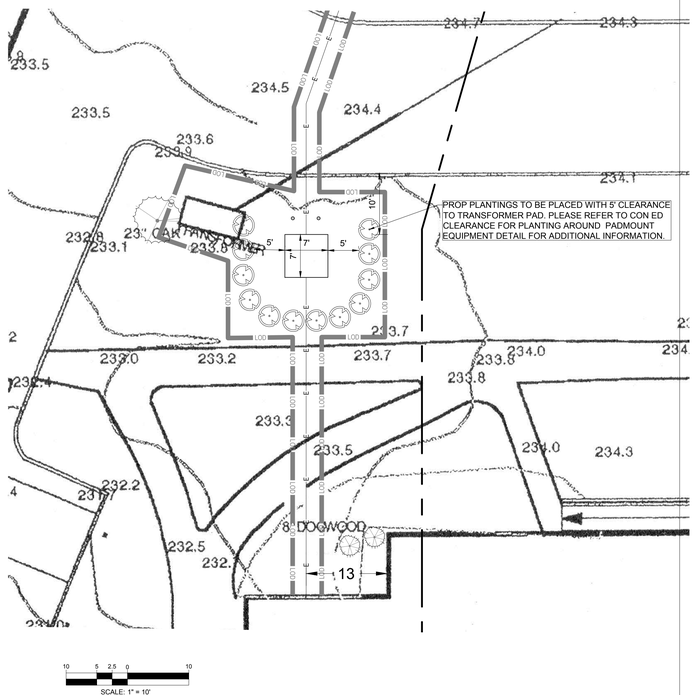
(Rev. 5/2023)

1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
2. WORK WITHIN THE RIGHT-OF-WAY OF (STREET NAME) MUST BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS AND STANDARDS OF THE NEW YORK (GOVERNING AGENCY)



SITE LOCATION MAP

SCALE: 1" = 1,000'
SOURCE: BING MAPS 2023

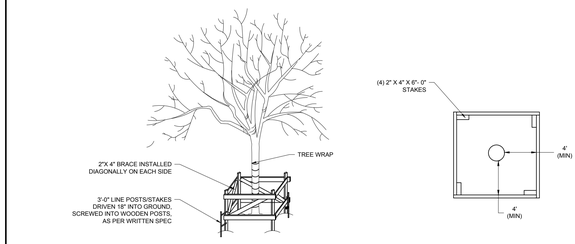


GENERAL NOTE:
ALL ELECTRIC WORK TO CONFORM TO LATEST CON EDISON SPECIFICATIONS AS REQUIRED. SEE MAP PLANS FOR ADDITIONAL INFORMATION

LANDSCAPE SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
EVERGREEN SHRUB(S)					
IBPR	2	ILEX X MESERVEAE 'BLUE PRINCESS'	BLUE PRINCESS HOLLY	24-30"	CONTAINER
IG	8	ILEX GLABRA	INKBERRY HOLLY	30" MIN.	B+B
SUBTOTAL:	9				

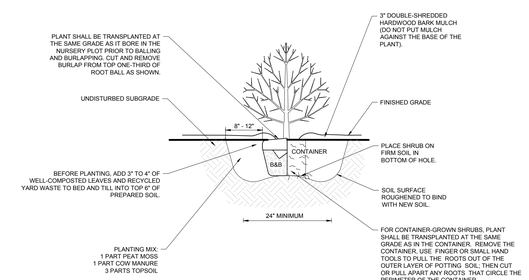
NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN THE AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN WILL DICTATE.



ELEVATION **PLAN**

TREE PROTECTION DURING SITE CONSTRUCTION

(NY-L060101 - 11/2023) NOT TO SCALE



SHRUB PLANTING

(NYL070103 - 10/2023) NOT TO SCALE

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW ROAD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
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100 PARK BLVD, SUITE 209
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STAMFORD, CT 06905

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WSP
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250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

SEAL

EXPIRATION DATE: 02/29/2024

BID DOCUMENTS	11/06/2024
ISSUE	DATE

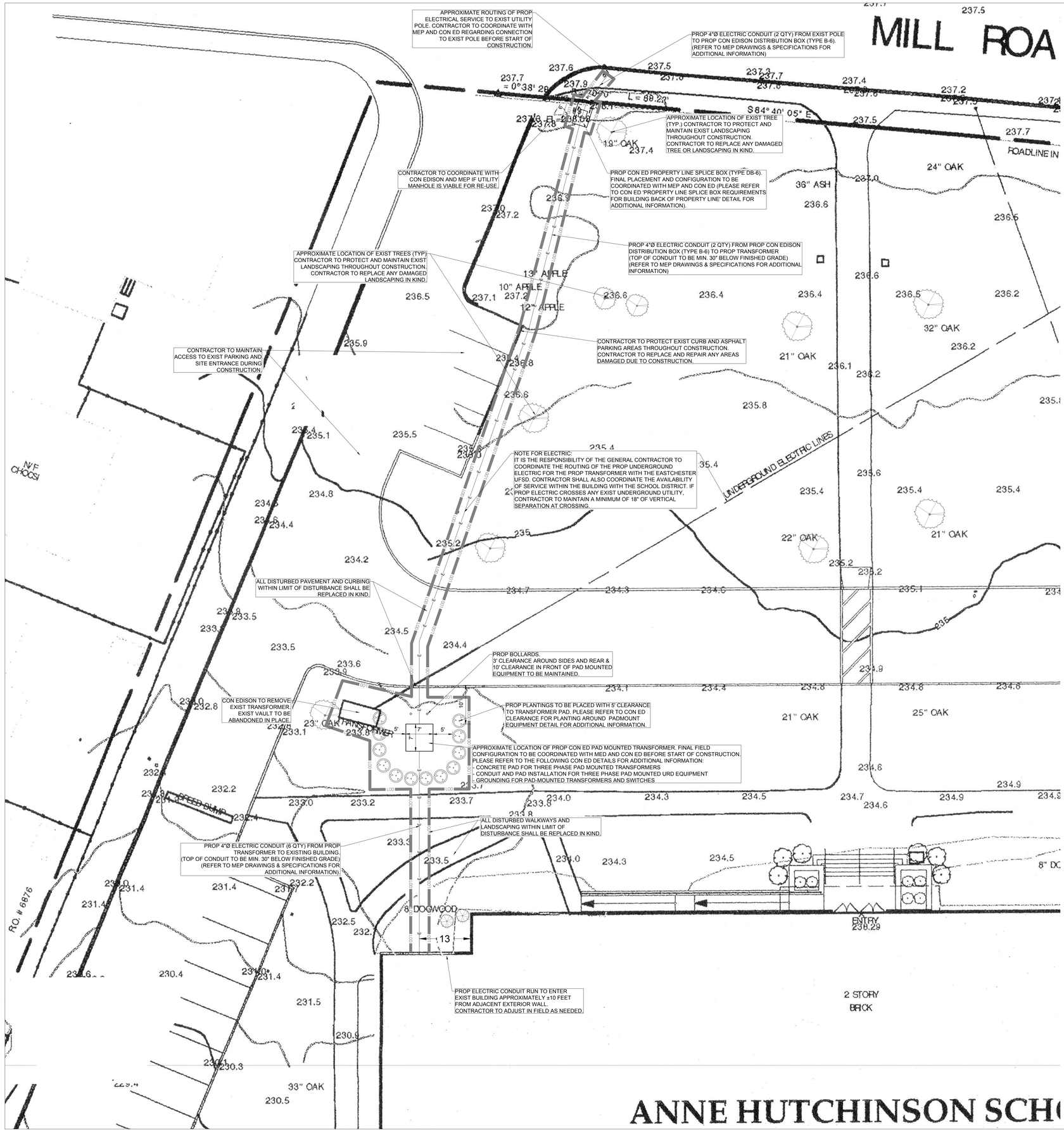
KEY PLAN

N

PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

SITE LAYOUT AND LANDSCAPE PLAN

C-301



GENERAL NOTE:
ALL ELECTRIC WORK TO CONFORM TO LATEST CON EDISON SPECIFICATIONS AS REQUIRED. SEE MAP PLANS FOR ADDITIONAL INFORMATION

10 5 2.5 0 10
SCALE: 1" = 10'

DRAINAGE AND UTILITY NOTES

(Rev. 5/2023)

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2. WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL LINES, INCLUDING BUT NOT LIMITED TO STORM, SANITARY, UTILITIES, AND IRRIGATION LINES, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. THE CONTRACTOR MUST CAP ENDS AS APPROPRIATE, MARK LOCATIONS WITH A 2X4 STAKE, AND MUST NOTE THE LOCATION OF ALL OF THE ABOVE ON A CLEAN COPY OF THE PLAN, WHICH THE CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER IMMEDIATELY UPON THE COMPLETION OF WORK.
3. STORM AND SANITARY PIPE LENGTHS INDICATED ARE NOMINAL AND ARE MEASURED FROM OUTSIDE FACE OF INLET AND/OR MANHOLES STRUCTURE TO OUTSIDE FACE OF STRUCTURE.
4. WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS, WATER MAIN PIPING MUST BE CEMENT-LINED DUCTILE IRON (DIP). MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.
5. STORMWATER RUNOFF WITHIN THE PROPERTY BOUNDARIES TO BE COLLECTED ON-SITE WITH NO OVERLAND RUNOFF ONTO RIGHT-OF-WAY OR ADJACENT PROPERTIES.
6. SANITARY PIPE MUST BE POLYVINYL CHLORIDE (PVC) SDR 35 EXCEPT WHERE CLEARLY INDICATED OTHERWISE.
   A. SEWER LINES WITH LESS THAN 2 FEET COVER, OR NOT PLACED ON VIRGIN SOIL MUST BE CONSTRUCTED OF DUCTILE IRON.
   B. SEWER LINES THAT HAVE BETWEEN 2 FEET AND 4 FEET COVER MUST BE CONSTRUCTED OF DR-18 OR DUCTILE IRON PIPE.
7. UNLESS CLEARLY INDICATED OTHERWISE, ALL STORM PIPES MUST BE HIGH-DENSITY POLYETHYLENE PIPE (HDPE) CONFORMING TO AASHTO M252 FOR PIPES 4 TO 10 INCHES AND TO AASHTO M294 FOR PIPES 12 TO 60 INCHES AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT/SOIL TIGHT JOINT. PIPE FOR ROOF DRAIN CONNECTION MUST BE HDPE SDR-26 OR PVC SCHEDULE 40 UNLESS INDICATED OTHERWISE. HDPE PIPE JOINT GASKETS MUST BE PROVIDED AND CONFORM TO ASTM F477.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
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SEAL

EXPIRATION DATE: 02/29/2024

ISSUE	DATE
BID DOCUMENTS	11/06/2024

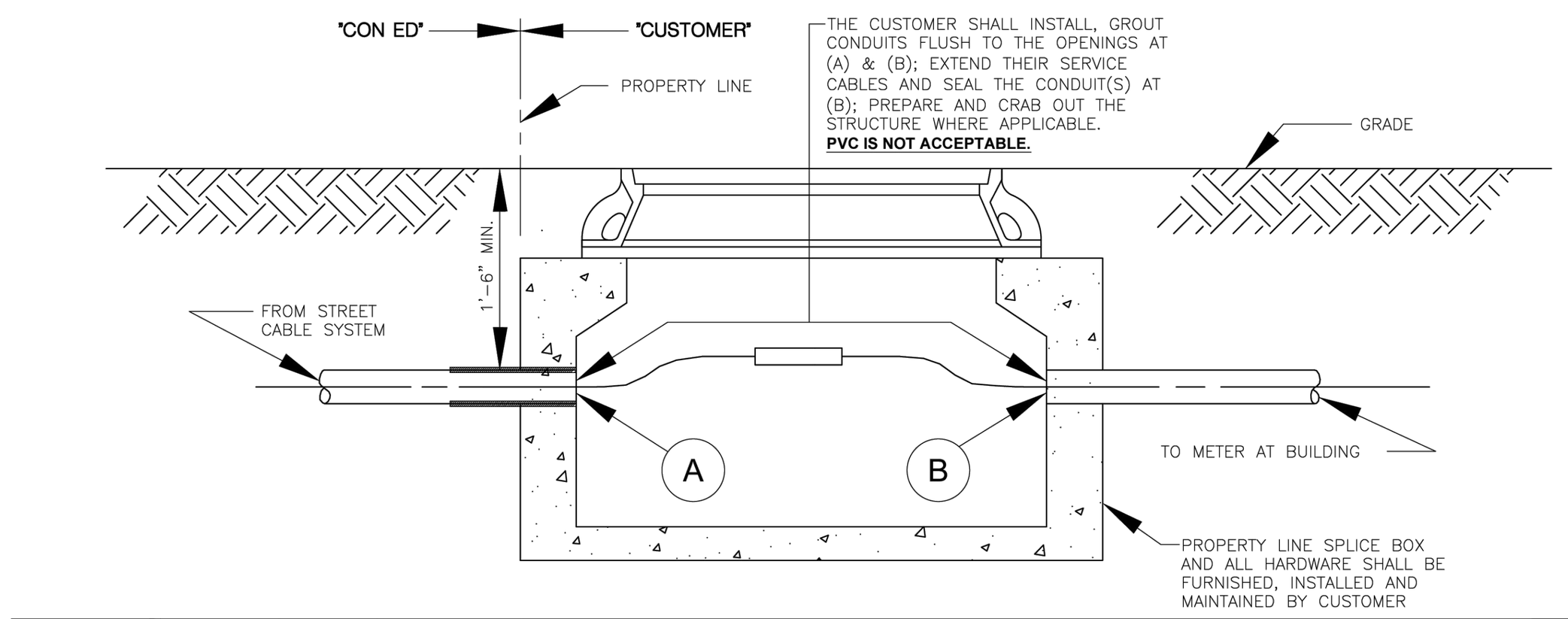
KEY PLAN

N

PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

UTILITY PLAN

C-501



"CON ED"
"CUSTOMER"
PROPERTY LINE
GRADE
FROM STREET CABLE SYSTEM
TO METER AT BUILDING
PROPERTY LINE SPLICE BOX AND ALL HARDWARE SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY CUSTOMER
THE CUSTOMER SHALL INSTALL, GROUT CONDUITS FLUSH TO THE OPENINGS AT (A) & (B), EXTEND THEIR SERVICE CABLES AND SEAL THE CONDUIT(S) AT (B). PREPARE AND CRAB OUT THE STRUCTURE WHERE APPLICABLE.
PVC IS NOT ACCEPTABLE.

TYPE	PROPERTY LINE SPLICE BOX (PRECAST) INSIDE DIMENSIONS	INSTALL METHOD	DWG NO (SEE NOTE 1)	MAX SETS	COMPANY COPPER	CUSTOMER COPPER	CUSTOMER ALUMINUM	CABLE ARRANGEMENT DWG. NO.
B3-6	3'-6" X 2'-9" X 2'-0"	FIELD POURED	EO-9700-C	4 / 3	1-4-#4/0	1 OR 2-4-4/0 / 1 OR 2-4-3/0	1 OR 2-4-350 KCMIL OR 1-8-350 KCMIL	NONE
		PRE-CAST	EO-7597-B	2	1-8-#4/0	1-8-#4/0 OR 1-8-#3/0	1-8-350 KCMIL	NONE
	3'-6" X 2'-7" X 2'-0"	PRE-CAST (DEEP-SLOTTED)	EO-10266-B	3	1-4-500 KCMIL	1-4-500 KCMIL OR 2-4-500 KCMIL	———	NONE
				4	2-4-500 KCMIL	2-4-500 KCMIL	———	EO-11626-B
DB-6	6'X4'X5'	PRE-CAST	EO-13331-B	16	8-4-500 KCMIL	8-4-500 KCMIL	10-4-750 KCMIL	EO-14608-B
				16				EO-13282-B
				18	8-4-500 KCMIL	10-4-500 KCMIL	———	EO-12466-B
				10	4-4-500 KCMIL	6-4-500 KCMIL		EO-11693-B
		PRE-CAST (SLOTTED HEADROOM)	EO-13561-B	10	4-4-500	———	6-8-350	EO-13255-B
S	4'X3'X3'	PRE-CAST	EO-9507-B	8				EO-13908-B
		FIELD POURED	EO-16820-C					
TS OR B4-6	4'-6' X 3'-6" X 3'-11"	PRE-CAST	EO-9506-B	5	2-4-500 KCMIL	3-4-500 KCMIL		EO-11626-B
		PRE-CAST (DEEP)	EO-10263-B					
		DEEP SLOTTED	EO-10264-B					
M11-6 (RATED FOR HS-25 LOAD)	11'-6" X 4'-6" X 6'-6"	PRE-CAST	341185	27	12-4-500 KCMIL	15-4-500 KCMIL	———	EO-11041-B
			EO-2468-B	36	16-4-500 KCMIL	20-4-500 KCMIL	———	EO-11934-B
	11'-6" X 4'-6" X 6'-0"	FIELD POURED	EO-11924-B	27	12-4-500 KCMIL	———	15-4-750 KCMIL	EO-12810-B
				36	16-4-500 KCMIL	———	20-4-750 KCMIL	EO-12811-B
T3	4'X4'X4'-4"MAX. HR, SHALL	FIELD CONSTRUCTED	EO-14819-C					NONE

Approved

NOTES:

1. THIS SPECIFICATION IS NOT TO BE USED FOR 460 VOLT SERVICES.
2. SPLICE BOX/CABLE SHALL BE INSTALLED AS PER EO-2055, A.C. SERVICES; DUCT SEALING AS PER EO-1100 AND EO-6217-C.
3. THE FOLLOWING CONDUIT MATERIAL TYPES ARE ACCEPTABLE: STEEL, FIBERGLASS, CONCRETE AND HDPE.
4. THE CUSTOMER SHALL LEAVE SLACK ON HIS/HER SERVICE CABLE EQUAL TO THE LENGTH OF THE PROPERTY LINE BOX IN THE FIRST 3 SPLICE BOXES.
5. THE CUSTOMER SHALL PROVIDE A SUITABLE TERMINATING DEVICE AND CONNECT HIS/HER CABLES TO IT AS PER EO-5403, UNDER ANY OF THE FOLLOWING CONDITIONS:
   A - WHERE CABLES OF A SIZE OTHER THAN THOSE LISTED ARE USED.
   B - WHERE THERE WILL BE 3 OR MORE SETS OF CUSTOMER CABLES OUT OF A PROPERTY LINE BOX.
6. CON ED WILL MAKE FINAL CONNECTIONS OF CON EDISON CABLES TO THE CUSTOMER TERMINATION DEVICES/CABLES.
7. M11-6 W/INTEGRAL FLOOR MAYBE SUITABLE FOR AREAS WITH HIGH WATER TABLES AND CONTAMINATED SOIL.
8. PC M14 (EO-5299-B) IS SUITABLE AS AN ALTERNATE TO THE M11-6.

APPROVED SETS OF CABLES WITH 3 PHASES AND NEUTRAL OCCUPYING ONE DUCT (2 PHASES AND NEUTRAL WHEN NEEDED):

COPPER	ALUMINUM EQUIVALENT
4-#6(3-#6)	4-#4(3-#4)
4-#3(3-#3)	4-#1/0(3-#1/0)
4-#2(3-#2)	4-#1/0(3-#1/0)
NONE	4-#3/0(3-#3/0)
4-#2/0(3-#2/0)	4-#4/0(3-#4/0)
4-#3/0(3-#3/0)	4-350(3-350)
4-#4/0(3-#4/0)	4-350(3-350)
8-#4/0	8-350 KCMIL
4-350(3-350)	4-500(3-500)
4-500 KCMIL	8-350 KCMIL
4-500 KCMIL	4-750 KCMIL

REFER. SPECS. & DWGS.:

- ELECTRIC SERVICE CONDUITS FOR SECONDARY AC SERVICES — EO-1032
- SPEC. FOR INSTALLATION OF CONCRETE ENCASED (MONOLITHIC) DUCT BANKS — EO-1091
- SECONDARY CABLE DISTRIBUTION BOXES — EO-1147
- AC SERVICES — EO-2055
- INSTALLATION OF DIRECT BURIED HIGH DENSITY POLYETHYLENE (HDPE) CONDUIT — EO-3036
- CABLE MANHOLE TYPE M14X5-6, PRECAST CONCRETE 14FT.-0IN. X 5FT.-6IN. X 6FT.-6IN. — EO-5299-B
- INSTALLATION OF PRECAST CONCRETE CONDUIT — EO-8007
- INSTALLATION OF STEEL CONDUITS — EO-8014
- CAST IRON COVERS TYPE Q-8-S FOR GAS AND ELECTRIC MANHOLES — EO-9359-C
- CAST IRON FRAME TYPE Q--8-9 — EO-9361-B
- CAST IRON INNER PAN TYPE Q-8-9 — EO-9362-B
- LETTERING FOR MANHOLE COVER — EO-9363-C
- CHIMNEY,COLLARS & GRADING BLOCKS FOR MANHOLE & VAULT CONSTRUCTION & INSTALLATION — EO-10321-B
- TYPE Q--8-S COVER, EPOXY COATED FOR SIDEWALK INSTALLATION — EO-13043-D
- CAST IRON FRAME TYPE Q--8-7 — EO-13465-C
- PRECAST CABLE MANHOLE TYPE M 11-6 WITH INTEGRAL FLOOR (11FT.-6 INCHES X 4FT.-6 INCHES X 6FT.-6 INCHES — 308784

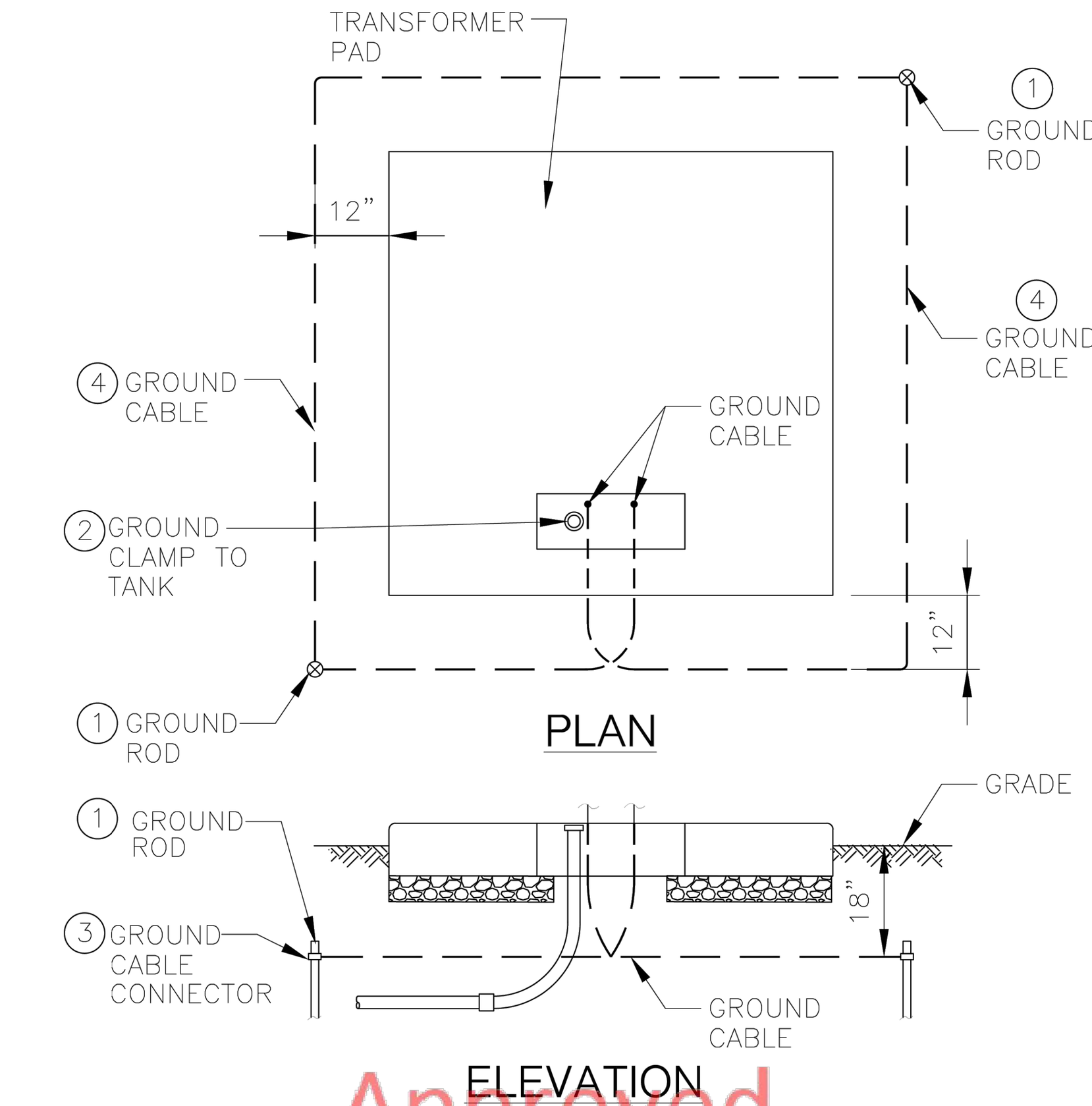
PROPERTY LINE SPLICE BOX REQUIREMENTS FOR BUILDING BACK OF PROPERTY LINE

CONSOLIDATED EDISON COMPANY OF N.Y., INC. DISTRIBUTION ENGINEERING DEPT

DATE 12-29-71 | LAST REV. 01/22/2020 | DWG. NO. EO-6210-B | REV. 26 | SH. 1 OF 1

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

DRAWN BY DIRICO 12-29-71 | DISCIPLINE CODE | CHECKED BY | SCALE | APPROVED MGR. XXXXXXXXXXXXXXX DATE



Approved

INSTALLATION PROCEDURES:

1- INSTALL 2-1/2" DIA. X 8' LONG GROUND RODS AT DIAGONAL CORNERS OF BOX PAD (C&S #007-0961) INTO UNDISTURBED SOIL MINIMUM 6'-0" APART.
2- INSTALL 20' MINIMUM LENGTH OF 2/0 BARE CU CABLE IN A TRENCH 18" DEEP AND 12" OUTSIDE THE EDGE OF THE BOX PAD (C&S #564-1333) AND BRING INTO PAD WITH SUFFICIENT SLACK TO ENSURE EASE OF DISCONNECTING CABLES FROM EQUIPMENT CASE GROUND.
3- CONNECT THE 2/0 CU CABLE AND THE GROUND RODS WITH GROUND CABLE CONNECTOR (C&S #007-8618).
4- ENSURE PROPER GROUND CLAMPS FOR EQUIPMENT CASE GROUND AS PER C&S #504-0126 OR C&S #571-0959 FOR ARRESTERS (IN EO-16898-B).
5- IF 2/0 GROUND CABLE RING CANNOT BE ACHIEVED OR IF PROPER DEPTH FOR GROUND RODS CANNOT BE ACHIEVED, TAKE GROUND RESISTANCE READINGS WITH THE APPROVED AEMC GROUND RESISTANCE TESTER MODEL 6416 OR 3 TERMINAL MEGGER TOOL. CONSULT SECTION MANAGER OF OVERHEAD STANDARDS AND PLANNING ENGINEERING FOR ALTERNATIVE METHODS OF GROUNDING.

NOTE: APPLIES TO NEW BOX PAD INSTALLATIONS. IF BOX PAD IS NOT BEING REPLACED, ENSURE, AT MINIMUM, 1 X 8' GROUND ROD INSTALLED BELOW GRADE OF BOX PAD, CONNECTED TO TANK WITH #2 COPPER GROUND CABLE (C/S# 564-0081).

REFERENCE DWGS:

- SPEC. FOR BARE AND COATED ELECTRICAL CONDUCTORS — EO-6
- PURCHASE SPECIFICATION FOR GROUND WIRES — EO-24
- ADEQUATE GROUND REQUIREMENTS AND GROUNDING OF SPACER TYPE AND METAL SHEATHED AERIAL CABLE — EO-2013
- REQUIREMENTS FOR NEUTRAL CONDUCTOR ON PRIMARY RADIAL DISTRIBUTION CIRCUITS — EO-2025
- INSTALLATION OF DRIVEN GROUND RODS — EO-8265-B
- CONCRETE PAD FOR 3 PHASE PAD-MOUNTED TRANSFORMERS — EO-13775-B
- INSTALL. OF BOX PAD SPLICE BOX AND CABLE FOR MINIPAD-MOUNTED TRANSFORMER (URD) — EO-15351-A
- TYP. URD. INSTALLATION OF SINGLE PHASE DUAL RATIO MINIPAD-MOUNTED TRANSFORMER — EO-16348-A
- INSTALL. OF PLUG-IN TYPE ELBOW ARRESTER ON ONE PHASE 7.6 kV MINIPAD-MOUNTED URD TRANSFORMER LOOP & RADIAL — EO-16898-B
- HL-45 FIBERGLASS BOX PAD FOR MINI PAD TRANSFORMER — 326199
- INSTALLATION OF 13KV THREE PHASE (PME) (PAD-MOUNTED EQUIPMENT) SWITCH — 328192

ITEM NO.	QUANTITY	DESCRIPTION	CLASS & STOCK NO.
5	AS NEEDED	GROUND CLAMP TO TANK FOR ARRESTER	571-0959
4	20' MIN.	2/0 CU BARE CABLE	564-1333
3	2	GROUND CABLE CONNECTOR TO ROD	007-8618
2	2	GROUND CLAMP TO TANK	504-0126
1	2	GROUND ROD 8'-0" X 1/2" DIA.	007-0961

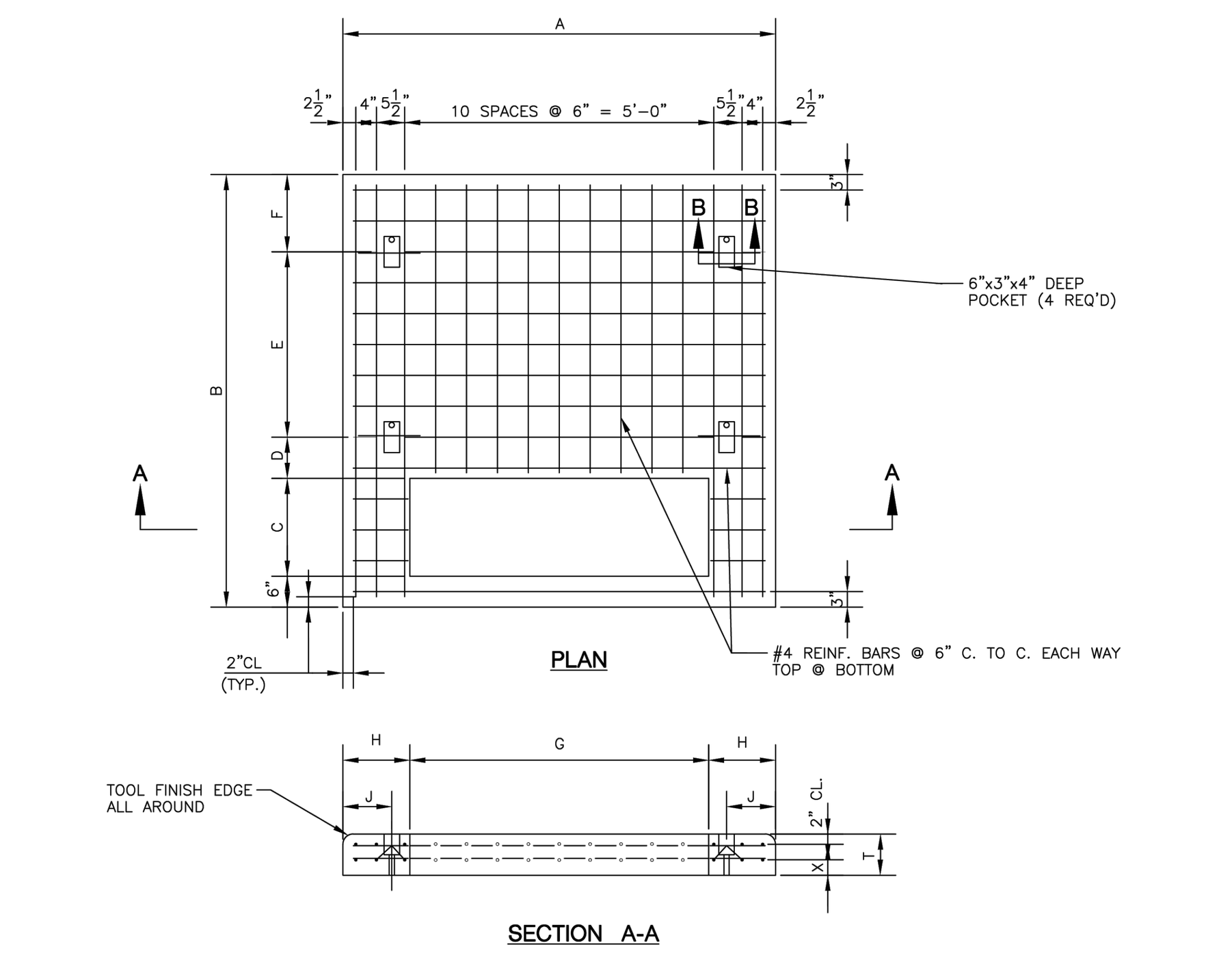
BILL OF MATERIAL

GROUNDING FOR PAD-MOUNTED TRANSFORMERS AND SWITCHES

CONSOLIDATED EDISON COMPANY OF N.Y., INC. DISTRIBUTION ENGINEERING DEPT

DATE 11/5/64 | LAST REV. 07/16/2019 | DWG. NO. EO-12181-B | REV. 8

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

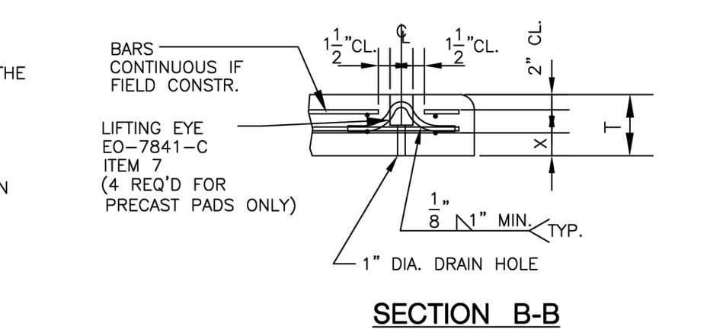


THREE PHASE TRANSFORMER SIZE (KVA)	PRIMARY VOLTAGE	CONCRETE PAD TYPE OF INSTALLATION	A	B	C	D	E	F	G	H	J	T	X	APPROX. CONC. VOL (CU. YDS.)	APPROX. PRECAST PAD WEIGHT (LBS.) REINF.	PAD
75-500	4KV & 13KV	FIELD POURED	84	72	19	—	—	—	44	20	—	8 1/2	3	0.95	—	—
		PRECAST	84	72	19	8	30	9	44	20	12	7 1/2	2	0.84	212	3395
	27KV	FIELD POURED	84	72	22	—	—	—	44	20	—	8 1/2	3	0.93	—	—
		PRECAST	84	72	22	8	27	9	44	20	12	7 1/2	2	0.82	207	3308
1000	4KV & 13KV	FIELD POURED	84	84	19	—	—	—	58	13	—	8 1/2	3	1.08	—	—
		PRECAST	84	84	19	8	36	15	58	13	10	7 1/2	2	0.96	233	3876
	27KV	FIELD POURED	84	84	22	—	—	—	58	13	—	8 1/2	3	1.05	—	—
		PRECAST	84	84	22	8	33	15	58	13	10	7 1/2	2	0.93	226	3767
2000 & 2500	4KV & 13KV	FIELD POURED	102	84	22	—	—	—	60	21	—	11	3	2	—	—

Approved

NOTES:

1. WHERE PRACTICAL, INSTALL PAD SO THE TRANSFORMER WILL FACE (BE ACCESSIBLE FROM) THE STREET.
2. REFER TO EO-6242 FOR PAD LOCATION AND CLEARANCES FROM BUILDINGS, WINDOWS, DOORWAYS AND BARRIER WALLS.
3. REFER TO EO-16696-D FOR PAD CLEARANCE FROM PLANTS.
4. INSTALL GROUND RODS IN ACCORDANCE WITH EO-12818-B INSTRUCTIONS.
5. CONSULT WITH VAULT AND BUS DESIGN GROUP FOR POSSIBLE PAD DESIGN MODIFICATIONS IN FLOOD ZONES AND AREAS WITH UNSTABLE SOIL.
6. FOR PADS LOCATED WITHIN NEW YORK CITY, REVIEW NYC DOT http://streetworksmanual.nyc/appendices/appendixb#4



CONSTRUCTION SPECIFICATIONS:

REINFORCING BARS SHALL BE WIRE TIED AT ALL CONTACT POINTS WITH PLASTIC COATED WIRE TIES.
ALL REINFORCING BARS SUPPORTED FROM FRAMEWORK SHALL REST ON COATED WIRE BAR SUPPORTS.
EPOXY COATING, DAMAGED AS A RESULT OF HANDLING OR CUTTING OF REINFORCING BARS, SHALL BE REPAIRED WITH PATCHING MATERIAL CONFORMING TO ASTM SPEC. DES A-775.
A 2" MINIMUM OF CONCRETE SHALL BE MAINTAINED OVER ALL REINFORCING BARS AND SHAPES, UNLESS OTHERWISE NOTED.
WHERE MAIN HORIZONTAL BARS ARE CUT FOR REPLACEMENT PURPOSES, SPLICE BARS OF THE SAME SIZE AND AT LEAST 2'-6" LONG SHALL BE INSTALLED ACROSS THE CUT POSITION.
PAD SHALL BE INSTALLED ON A MINIMUM OF 6" CRUSHED STONE.
TOP SURFACE OF PAD SHALL HAVE A STEEL TROWEL FINISH.
TOP OF PAD SHALL BE 6" ABOVE GRADE.
OMIT LIFTING EYES, POCKETS AND DRAIN HOLES FROM FIELD-POURED PADS.
FOR PRECAST PADS, FILL LIFTING HOLES AND OPEN AREAS AROUND CONDUITS WITH MORTAR AFTER PAD IS INSTALLED.

MATERIAL SPECIFICATIONS:

CONCRETE SHALL CONFORM TO CON EDISON SPEC. EO-1008, CLASS II.
CEMENT MORTAR SHALL CONFORM TO CON EDISON SPEC. EO-100,167 (STK # 000-0802).
ALL REINFORCING BARS SHALL BE BILLET STEEL, DEFORMED, AND SHALL CONFORM TO ASTM SPEC. A-615, GRADE 60.
ALL REINFORCING BARS SHALL BE EPOXY COATED AND SHALL CONFORM TO ASTM SPEC. A-775.
STRUCTURAL STEEL SHALL CONFORM TO ASTM SPEC. A-36.
WELD STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH EO-11320.

REF. SPECS.:

- INSTALLATION GUIDE FOR OIL-FILLED PADMOUNT TRANS. NEAR A BUILDING DOORWAY AND/OR WINDOWED WALL — EO-6242
- CLEARANCE FOR PLANTING AROUND TRANS. PADS — EO-16696-B
- INSTALLATION OF PAD AND CONDUIT — EO-12482-B
- THREE PHASE, METAL ENCLOSED PAD MOUNTED XFORMERS — EO-5015
- REQUIREMENTS FOR THE INSTALLATION OF SINGLE AND THREE PHASE PAD MOUNTED TRANS. — EO-6229
- GROUNDING FOR PAD-MOUNTED TRANSFORMERS AND SWITCHES — EO-12181-B

THIS DWG. SUPERSEDES DWG. EO-12180-C, EO-12541-C, EO-13757-C.

CONCRETE PAD FOR THREE PHASE PAD MOUNTED TRANSFORMERS

CONSOLIDATED EDISON COMPANY OF N.Y., INC. DISTRIBUTION ENGINEERING DEPT.

DATE 1/29/70 | LAST REV. 7/24/19 | DWG. NO. EO-13775-B | REV. 11

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

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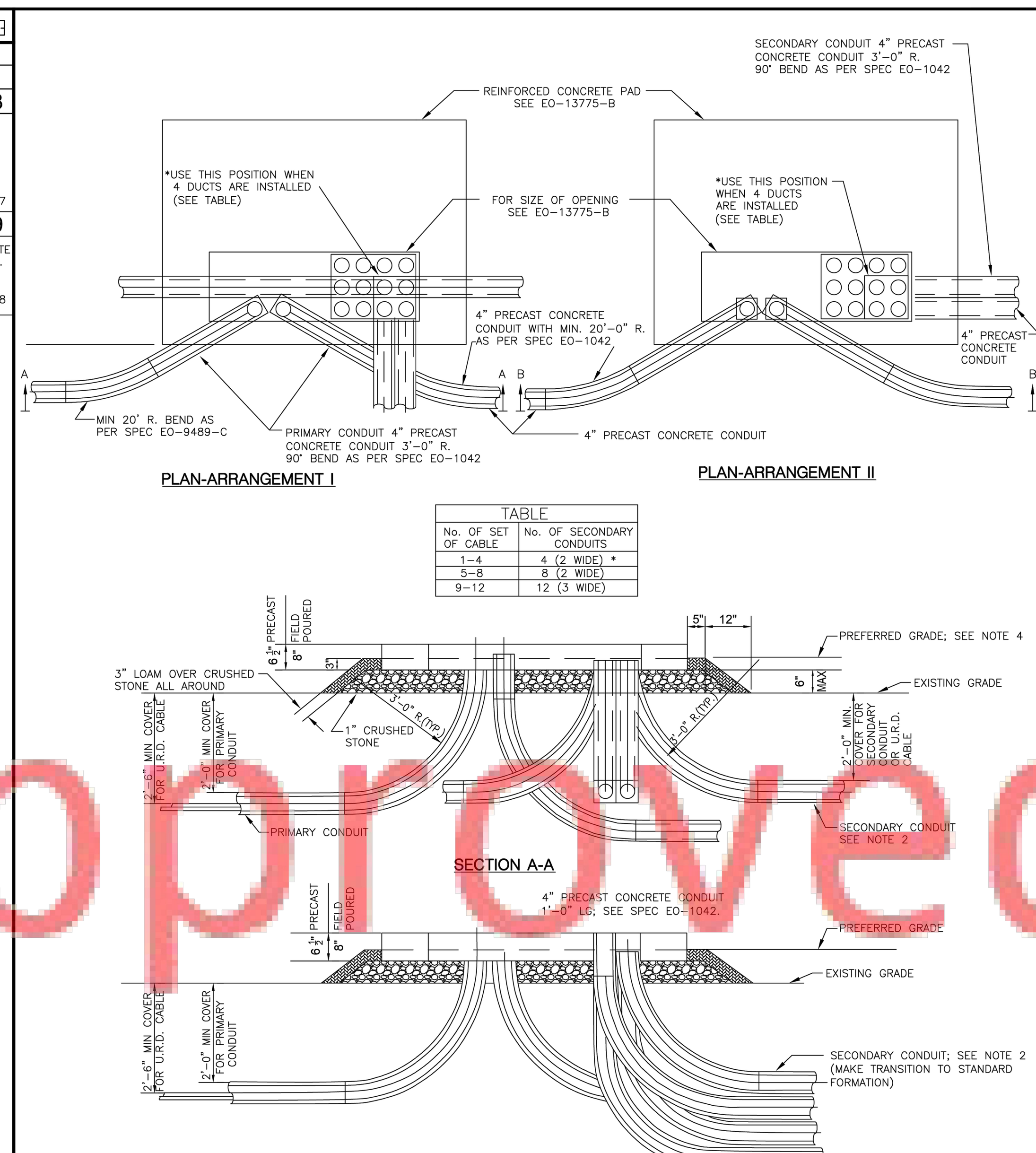

REINFORCED CONCRETE PAD SEE EO-13775-B
SECONDARY CONDUIT 4" PRECAST CONCRETE CONDUIT 3'-0" R. 90° BEND AS PER SPEC EO-1042
*USE THIS POSITION WHEN 4 DUCTS ARE INSTALLED (SEE TABLE)
FOR SIZE OF OPENING SEE EO-13775-B
4" PRECAST CONCRETE CONDUIT WITH MIN. 20'-0" R. AS PER SPEC EO-1042
MIN 20' R. BEND AS PER SPEC EO-9489-C
PRIMARY CONDUIT 4" PRECAST CONCRETE CONDUIT 3'-0" R. 90° BEND AS PER EO-1042
4" PRECAST CONCRETE CONDUIT
PLAN-ARRANGEMENT I
PLAN-ARRANGEMENT II
PREFERRED GRADE; SEE NOTE 4
EXISTING GRADE
3" LOAM OVER CRUSHED STONE ALL AROUND
1" CRUSHED STONE
PRIMARY CONDUIT
SECONDARY CONDUIT SEE NOTE 2
SECTION A-A
PREFERRED GRADE
EXISTING GRADE
2'-6" MIN COVER FOR U.R.D. CABLE
2'-0" MIN COVER FOR PRIMARY CONDUIT
SECONDARY CONDUIT; SEE NOTE 2 (MAKE TRANSITION TO STANDARD FORMATION)
SECTION B-B

TABLE

No. OF SET OF CABLE	No. OF SECONDARY CONDUITS
1-4	4 (2 WIDE) *
5-8	8 (2 WIDE)
9-12	12 (3 WIDE)

Approved

NOTES:

1. 4" AND 5" CONDUITS ARE REQUIRED FOR PRIMARY CABLES. APPROPRIATE CONDUIT SIZE WILL BE DETERMINED BY REGIONAL ENGINEERING BASED ON FIELD CONDITIONS.
2. QUANTITY AND ARRANGEMENT OF SECONDARY CONDUITS AND CABLES SHALL BE IN ACCORDANCE WITH JOB LAYOUT. REFER TO TABLE ABOVE AND EO-6229 FOR CONDUIT ARRANGEMENTS.
3. PRIMARY CONDUIT(S) SHALL BE CENTERED WITHIN REMAINING SPACE AFTER SECONDARY CONDUITS ARE INSTALLED. CONDUITS SHALL NOT PROTRUDE BEYOND TOP OF CONCRETE PAD.
4. INSTALL PADS IN BEST DRAINAGE POSITION IN RESPECT TO TERRAIN. PAD SHALL BE INSTALLED ABOVE 3/4" CLEAN WELL-COMPACTED CRUSHED STONE.
5. PRECAST CONCRETE CONDUIT SHALL CONFORM TO EO-1042 REQUIREMENTS. REFER TO EO-8007 FOR INSTALLATION INSTRUCTIONS FOR CONCRETE CONDUITS.
6. REFER TO EO-3036 FOR INSTALLATION OF HDPE CONDUIT.
7. AFTER TRANSFORMER IS INSTALLED, FILL ANY EXPOSED SECTIONS OF THE PAD WITH CLASS II CONCRETE.
8. REFER TO EO-12181-B FOR GROUNDING INSTRUCTIONS FOR PAD MOUNTED EQUIPMENT.

SPECIFICATIONS:

- PRECAST CONCRETE CONDUIT — EO-1042
- REQUIREMENTS FOR THE INSTALLATION OF SINGLE AND THREE PHASE TRANSFORMERS — EO-6229
- CONCRETE PAD FOR THREE PHASE PADMOUNTED TRANSFORMERS — EO-13775-B
- PRECAST CONCRETE CONDUIT BENDS, THICK MALE ENDS — EO-9489-C
- GROUNDING FOR PADMOUNTED TRANSFORMERS AND SWITCHES — EO-12181-B

CONDUIT AND PAD INSTALLATION FOR THREE PHASE PAD MOUNTED URD EQUIPMENT

CONSOLIDATED EDISON COMPANY OF N.Y., INC. DISTRIBUTION ENGINEERING DEPT

DATE 6/17/65 | LAST REV. 8/3/2018 | DWG. NO. EO-12482-B | REV. 9

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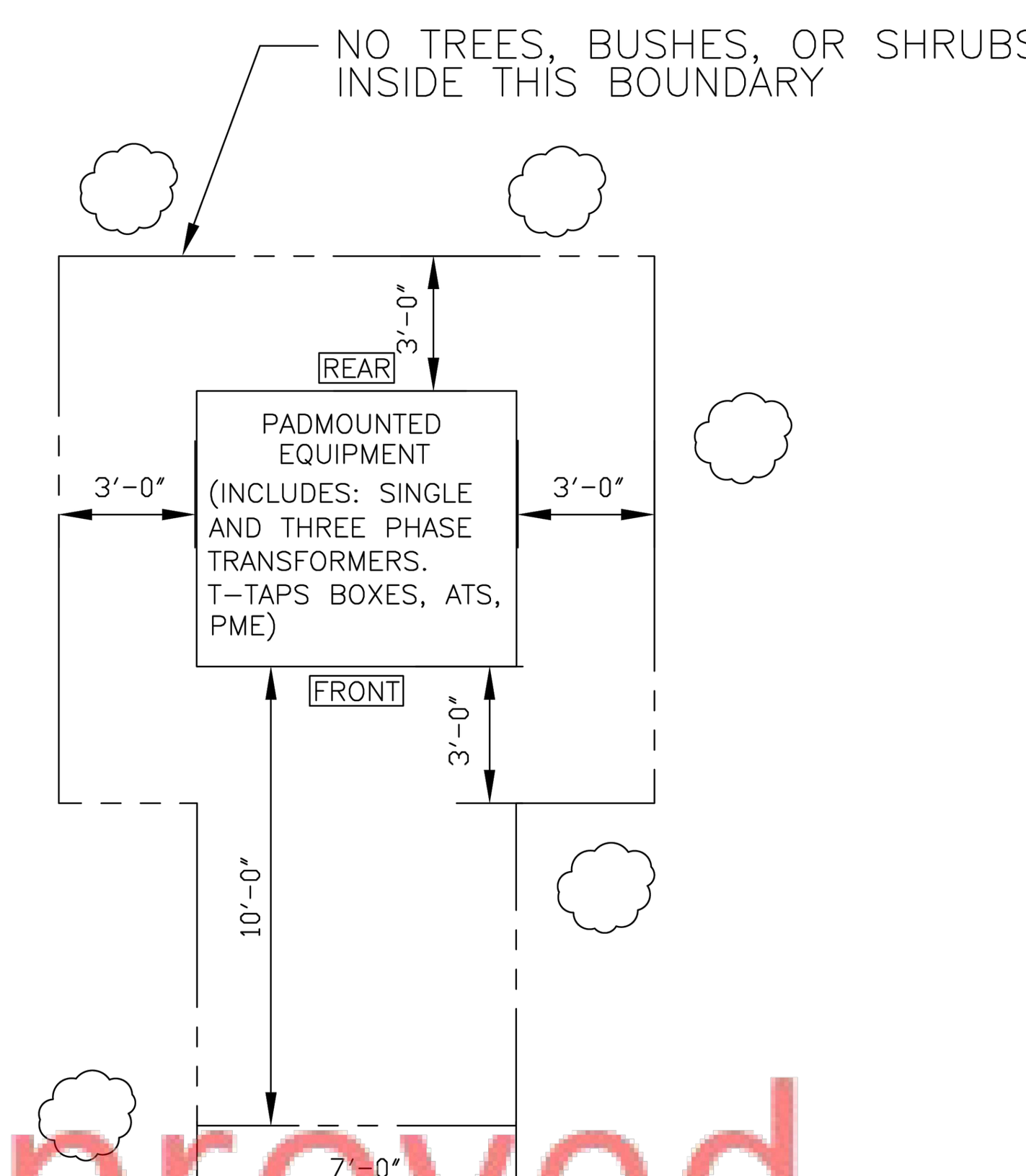

Approved

NOTES:

1. THE AREA IN FRONT OF THE FRONT DOOR SHALL BE CLEAR OF ALL ROCKS, STUMPS AND OTHER OBSTRUCTIONS SO THAT THE OPERATOR HAS A SAFE WORKING AREA.
2. THE COMPANY SHALL HAVE THE RIGHT TO CUT BACK GROWING BUSHES TO WITHIN STATED CLEARANCES.

REFERENCE SPECS:

- PURCHASE REQUIREMENT FOR EQUIPMENT SAFETY LABELS OR WARNING TAGS — EO-3101
- CONCRETE PAD FOR THREE PHASE PAD MOUNTED TRANSFORMERS — EO-13775-B
- HL-45 FIBERGLASS BOX PAD FOR MINIPAD TRANSFORMERS — 326199
- INSTALLATION OF 13KV THREE PHASE PME (PAD-MOUNTED EQUIPMENT) SWITCHES — 328192
- CLEARANCE REQUIREMENTS FOR OIL-FILLED PADMOUNT TRANSFORMER NEAR BUILDING DOORWAYS AND/OR WINDOWED WALLS — EO-6242
- INSTALLATION OF 13KV, 200A, URD PADMOUNTED DISCONNECT SWITCHGEAR (T-TAP BOX) — EO-14038-B

CLEARANCE FOR PLANTING AROUND PADMOUNT EQUIPMENT

CONSOLIDATED EDISON COMPANY OF N.Y., INC. DISTRIBUTION ENGINEERING DEPT

DATE 6/19/85 | LAST REV. 9/25/18 | DWG. NO. EO-16696-D | REV. 2

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EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW ROAD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

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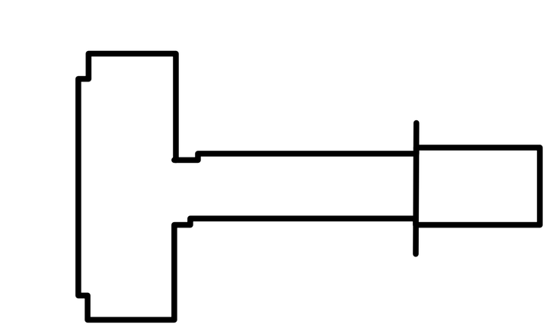
ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

UTILITY DETAIL SHEET

C-502

SHEET NOTES

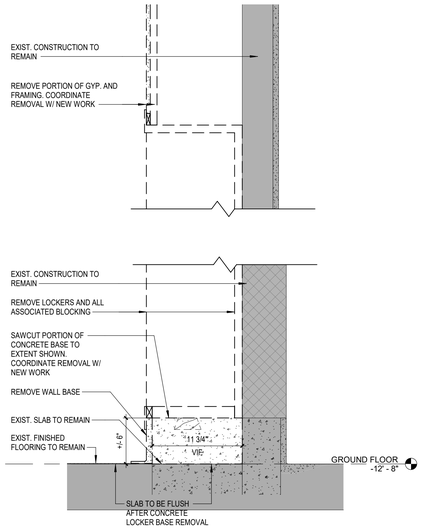
A. REMOVAL OF WINDOW AC UNIT AND WINDOW PANEL BY OWNER.

KEY NOTES

A2 REMOVE CASEWORK IN ITS ENTIRETY, INCLUDING ALL BLOCKING, FASTENERS, AND BASE. REFER TO MEP FOR ADDITIONAL REMOVALS.

P1 REFER TO PLUMBING DRAWINGS FOR REMOVALS.

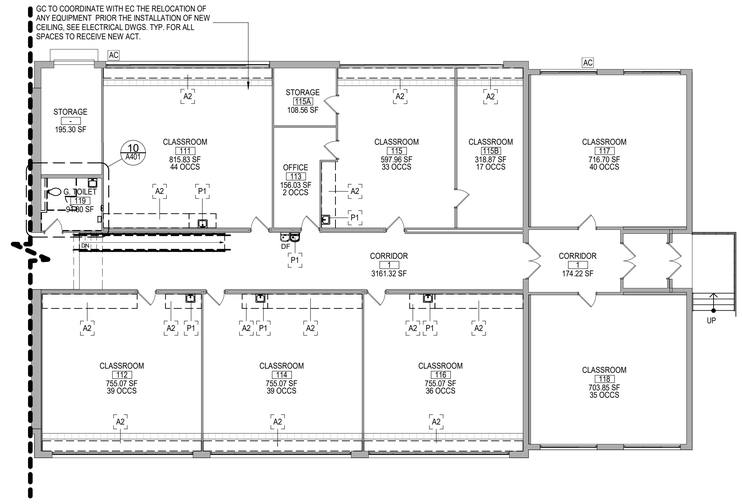
TD5 GC TO REMOVE AND REPLACE EXISTING CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWING FOR EQUIPMENT REMOVALS.



TYP. CLASSROOM LOCKER REMOVAL DTL.

1 1/2" = 1'-0"

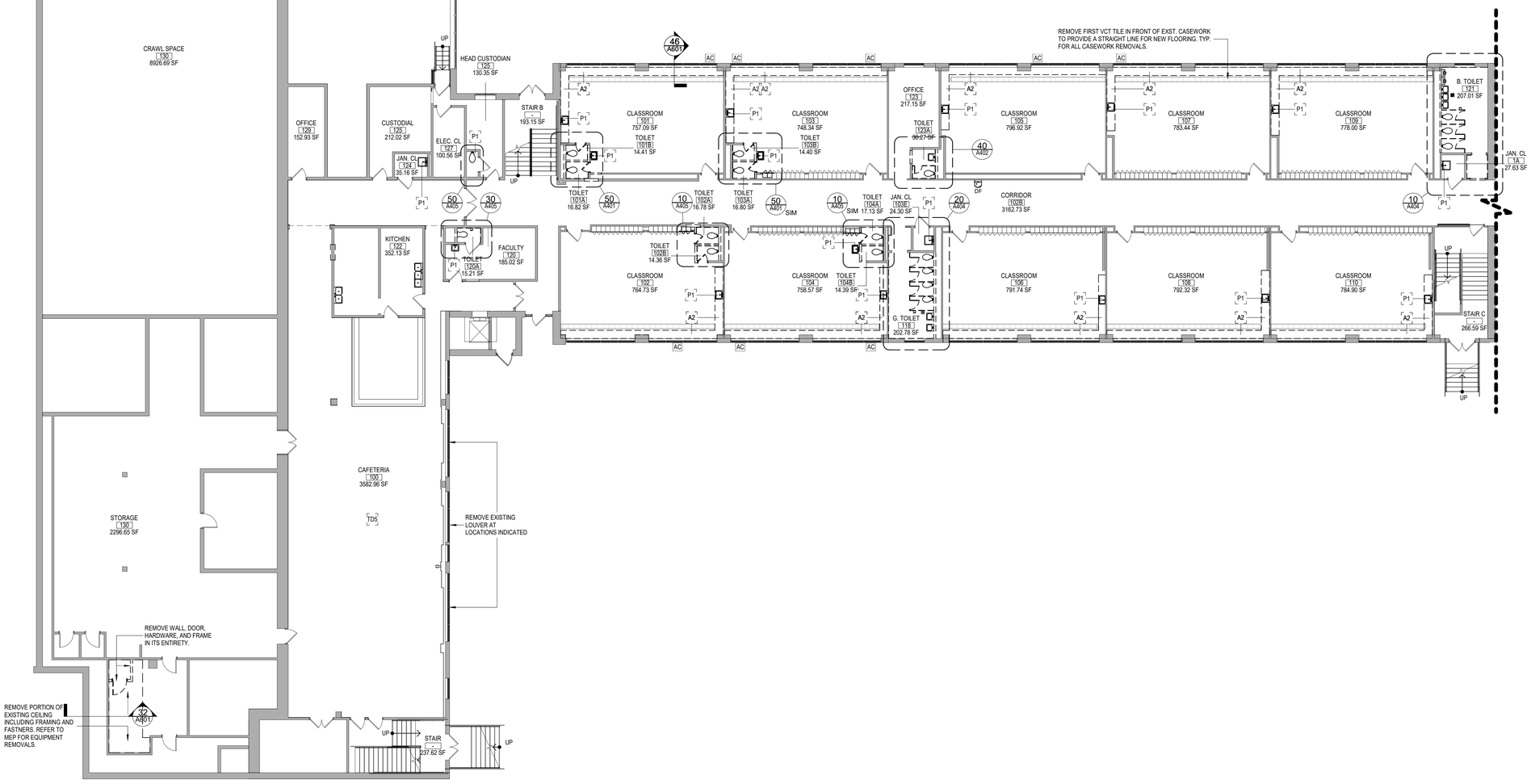
21



DEMOLITION PART PLAN - GROUND FLOOR - AREA B

3/32" = 1'-0"

20



DEMOLITION PART PLAN - GROUND FLOOR - AREA A

3/32" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
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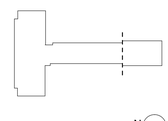
KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

DEMOLITION PART PLAN - GROUND FLOOR

AH AD101

SHEET NOTES

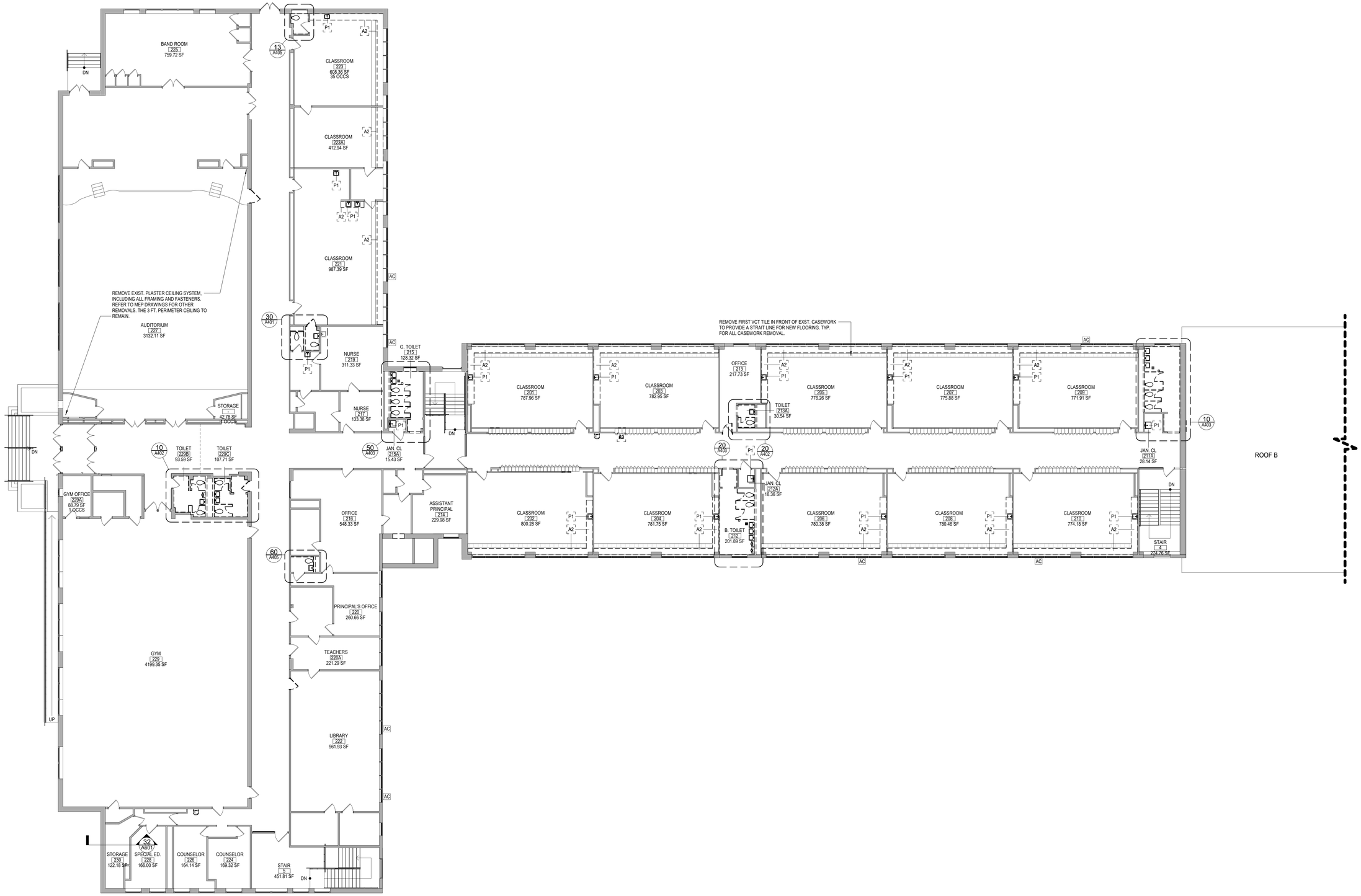
A. REMOVAL OF WINDOW AC UNIT AND WINDOW PANEL BY OWNER.

KEY NOTES

A2 REMOVE CASEWORK IN ITS ENTIRETY, INCLUDING ALL BLOCKING, FASTENERS, AND BASE. REFER TO MEP FOR ADDITIONAL REMOVALS.

C3 REMOVE EXISTING SUSPENDED CEILING SYSTEM IN ITS ENTIERETY, (EITHER ACOUSTIC TILE/GRID, OR PLASTER) INCLUDING ALL HANGERS AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT REMOVALS.

P1 REFER TO PLUMBING DRAWINGS FOR REMOVALS.



DEMOLITION PART PLAN - FIRST FLOOR - AREA A

3/32" = 1'-0"

10

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ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
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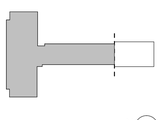


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

DEMOLITION PLAN - FIRST FLOOR

AH AD102

SHEET NOTES

KEY NOTES

CW INSTALL NEW CASEWORK AND FINISH CARPENTRY PLUB, LEVEL, TRUE AND STRAIGHTWITH NO DISTORTIONS OR WRAPS. PROVIDE SUPPORT FOR COUNTERTOPS AS NECESSARY TO ENSURE INSTALLATION.

DF DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS

MILLWORK LEGEND

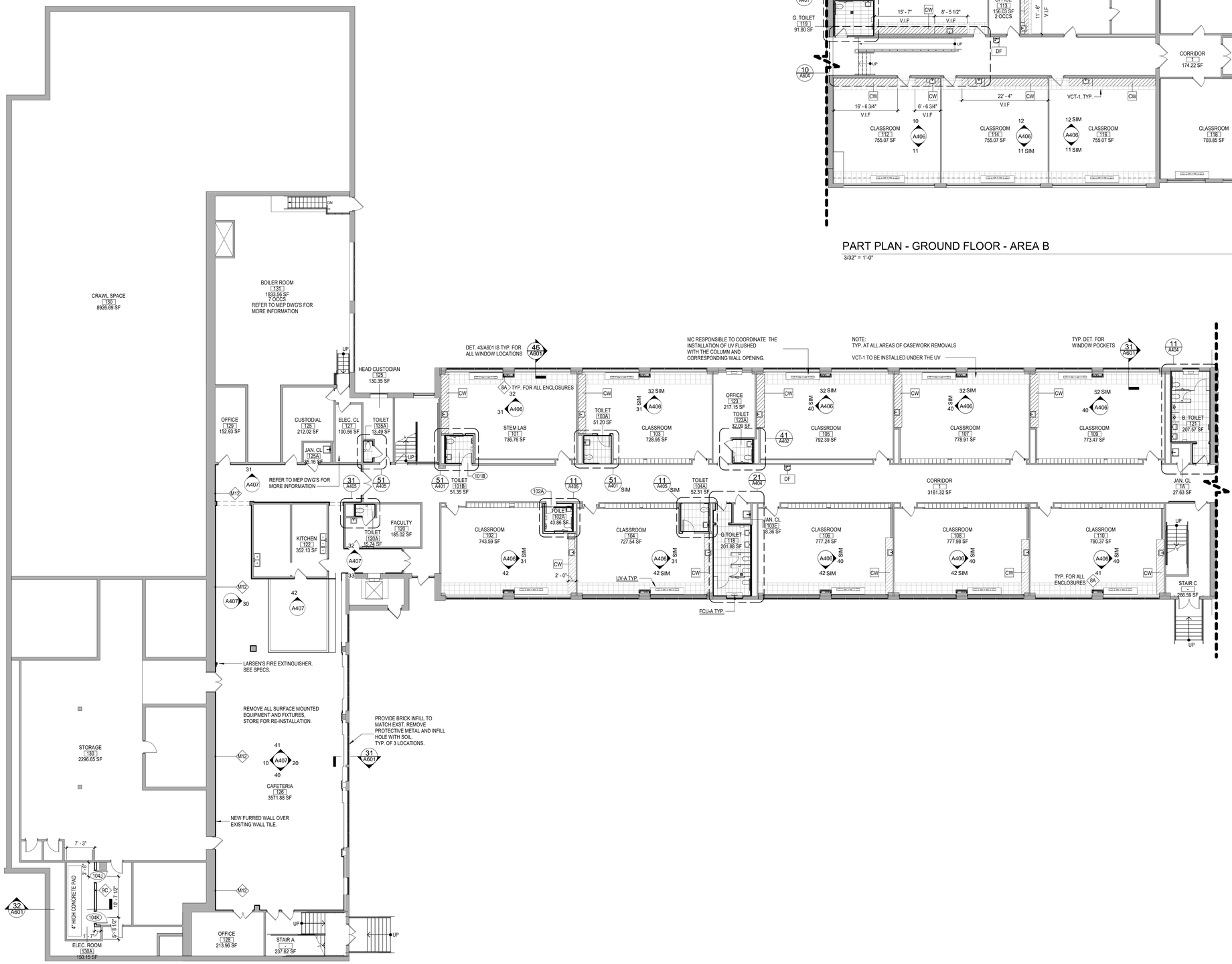
CASEWORK

CARPET

MECHANICAL LEGEND

FAN COIL UNIT

UNIT VENTILATOR



OVERALL PLAN - GROUND FLOOR - AREA A

3/32" = 1'-0"

10

PART PLAN - GROUND FLOOR - AREA B

3/32" = 1'-0"

20

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

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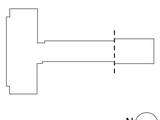
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

OVERALL PLAN - GROUND FLOOR

AH A101

SHEET NOTES

A. ADD ALTERNATE IS FOR AUDITORIUM SEATING REPLACEMENT, CARPET REPLACEMENT AND FLOOR REPAIR.

KEY NOTES

CW INSTALL NEW CASEWORK AND FINISH CARPENTRY PLUB, LEVEL, TRUE AND STRAIGHTWITH NO DISTORTIONS OR WRAPS. PROVIDE SUPPORT FOR COUNTERTOPS AS NECESSARY TO ENSURE INSTALLATION.

MILLWORK LEGEND

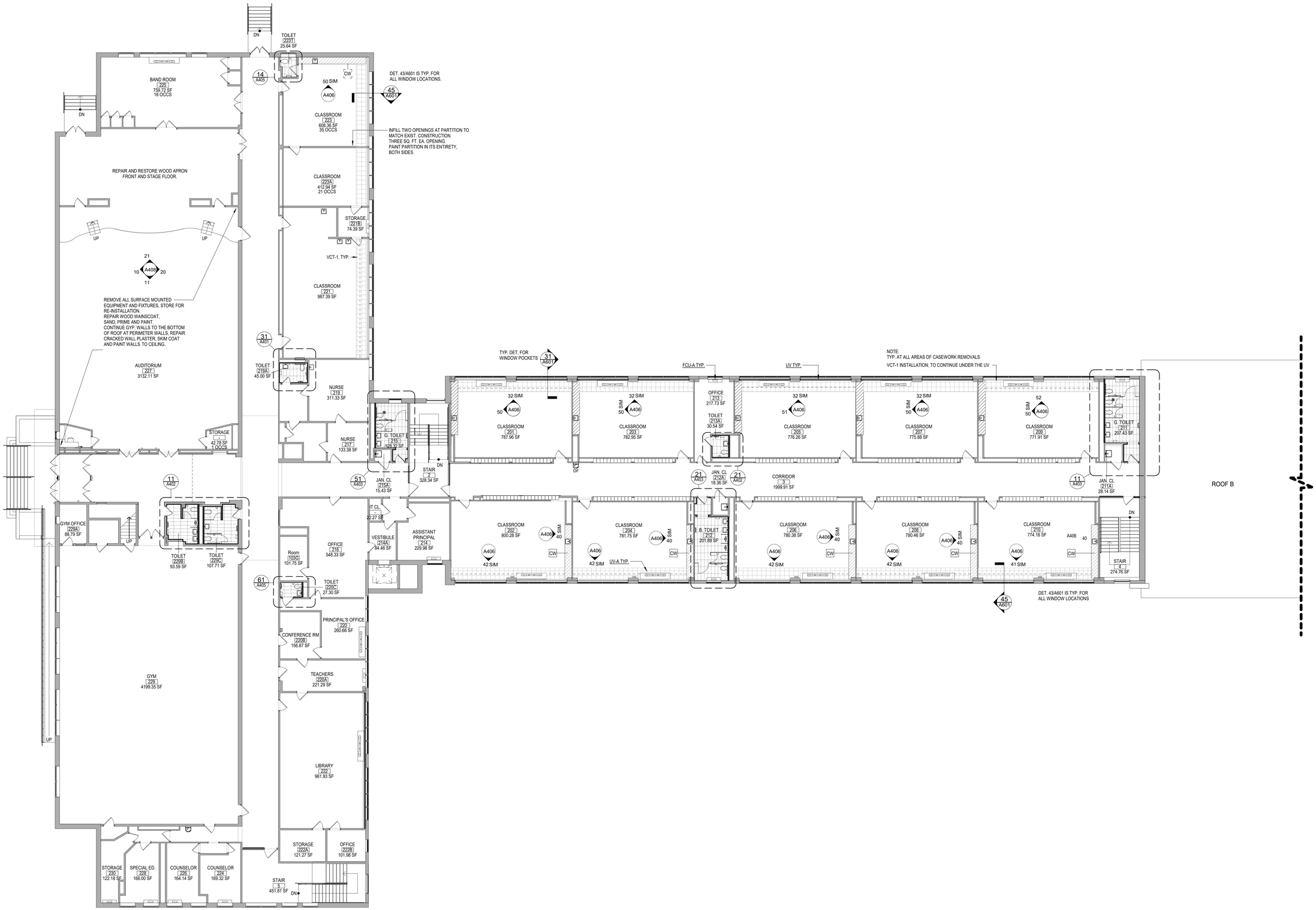
CASEWORK

CARPET

MECHANICAL LEGEND

FAN COIL UNIT

UNIT VENTILATOR



PART PLAN - FIRST FLOOR - AREA A

3/32" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT

REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT

STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT

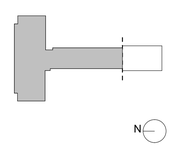
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT

GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

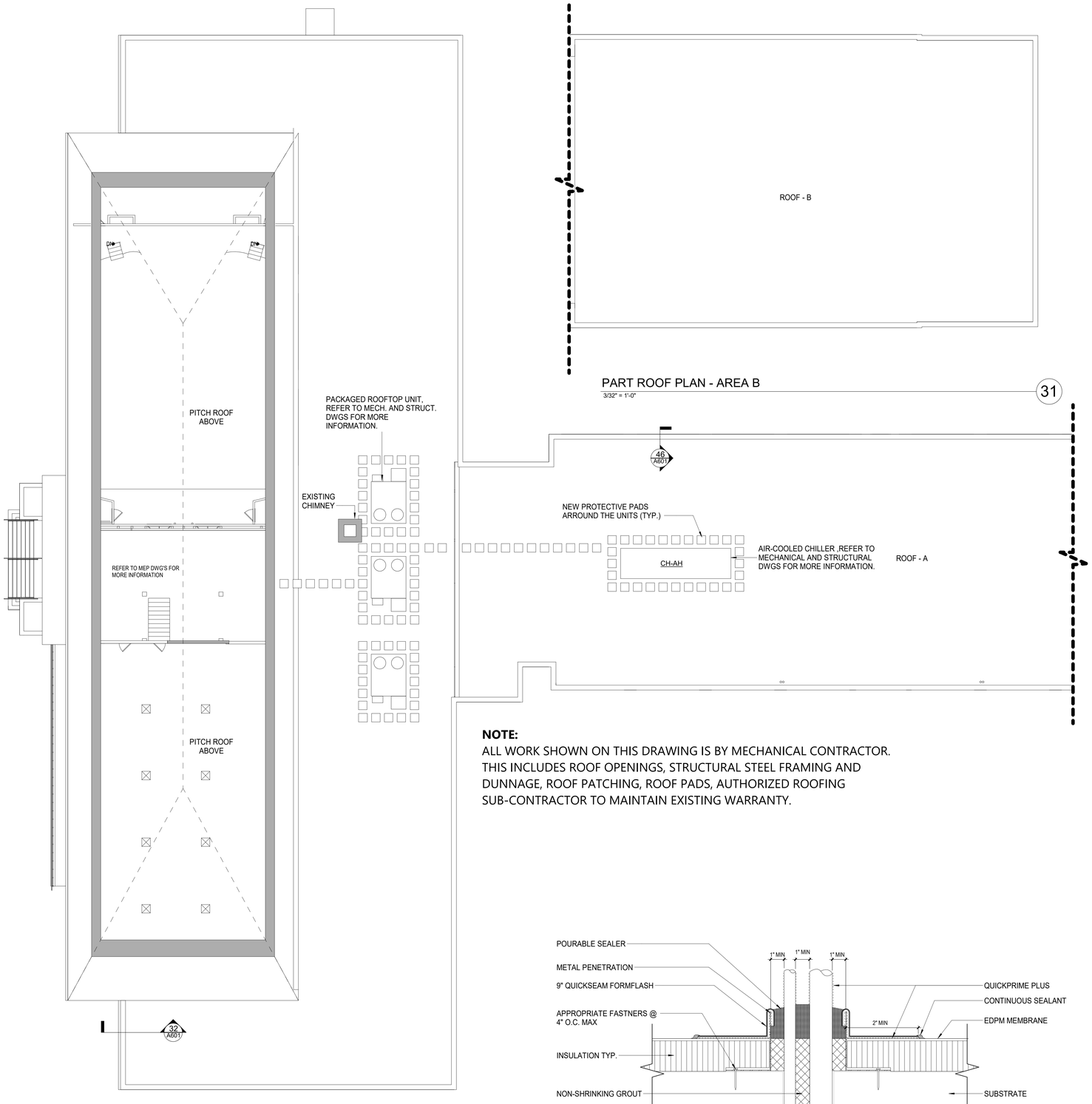
OVERALL PLAN - FIRST FLOOR

AH A102

SHEET NOTES

A. REFER TO MECHANICAL DWGS FOR DETAILED SCOPE OF WORK. MECHANICAL EQUIPMENT /FIXTURES SHOWN IN ARCHITECTURAL DRAWING ARE FOR REFERENCE ONLY.

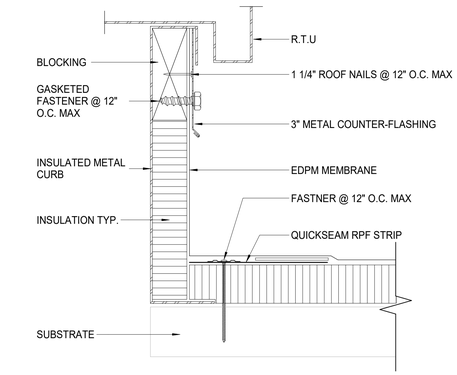
KEY NOTES



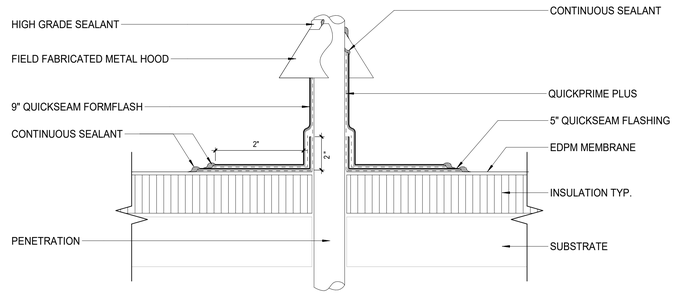
PART ROOF PLAN - AREA B
3/32" = 1'-0" 31

PART ROOF PLAN - AREA A
3/32" = 1'-0" 12

NOTE:
ALL WORK SHOWN ON THIS DRAWING IS BY MECHANICAL CONTRACTOR. THIS INCLUDES ROOF OPENINGS, STRUCTURAL STEEL FRAMING AND DUNNAGE, ROOF PATCHING, ROOF PADS, AUTHORIZED ROOFING SUB-CONTRACTOR TO MAINTAIN EXISTING WARRANTY.

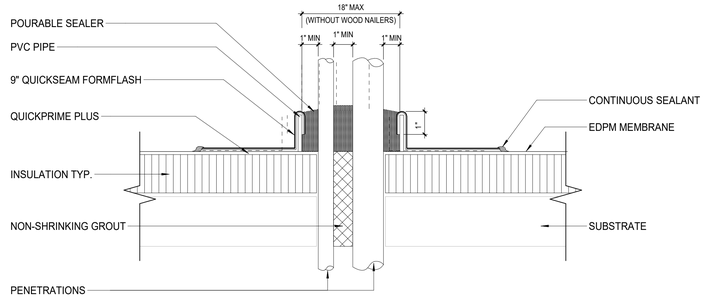


DETAIL @ ROOF EQUIPMENT SUPPORT
NTS 30



DETAIL @ SINGLE PENETRATION WITH FIELD FABRICATED FLASHING
NTS 20

DETAIL @ DOUBLE PENETRATION WITH METAL PENETRATION TO DECK
NTS 11



DETAIL @ DOUBLE PENETRATION WITH FIELD FABRICATED PVC
NTS 10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
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MASSAPEQUA PARK, NY 11762

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STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

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WSP
ONE PENN PLAZA
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ISSUE	DATE
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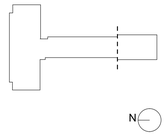
KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ROOF PLAN

AH A103

SHEET NOTES

KEY NOTES

3	NEW TILE TO BE INSTALLED OVER EXISTING TERRAZO FLOORING.
D1	REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
EHD	ELECTRIC HAND DRYER SURFACE MOUNTING KIT
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SEE ELECTRICAL DRAWING FOR MORE INFORMATION
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
MR1	18"x30" CHANNEL FRAMED GLASS MIRROR
P1	REFER TO PLUMBING DRAWINGS FOR REMOVALS.
PD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
SD	SOAP DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD	TOILET TISSUE DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD1	DEMOLISH TOILET PARTITION.
TD2	REMOVE ALL LAYERS OF WALL TILE,PARGE WALL WITH TYPE N-MORTAR IN AREAS WHERE TERRACOTTA TILE WAS DAMAGED DURING DEMOLITION.
TD4	REFER TO PLUMBING AND ELECTRICAL DRAWING FOR NEW FIXTURES.
TD5	GC TO REMOVE AND REPLACE EXISTING CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWING FOR EQUIPMENT REMOVALS.
W4	REMOVE PARTITION WALL IN ITS ENTIRETY.
W5	SAWCUT AND REMOVE WALL FOR EXTENT SHOWN, COORDINATE REMOVAL WITH NEW WORK.
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS
WR	WASTE RECEPTACLE

HATCH LEGEND

CWT-1

CWT-2

CWT-3

CEILING LEGEND

GYPSUM BOARD CEILING

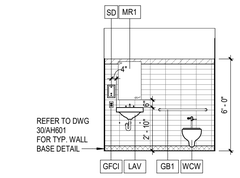
2' X 2' ACOUSTICAL CEILING TILE

+X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR

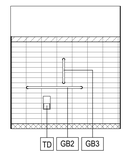
ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2'X2' LIGHT FIXTURE

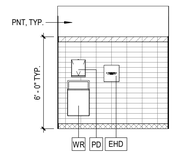
2'X4' LIGHT FIXTURE



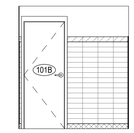
WEST EL. - CR. 101 TOILET ROOM 63
1/4" = 1'-0"



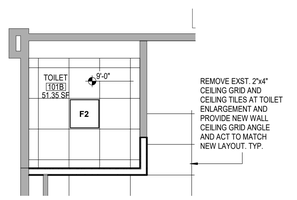
SOUTH EL. - CR. 101 TOILET ROOM 62
1/4" = 1'-0"



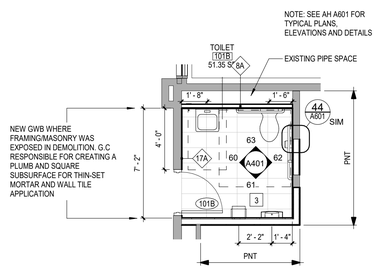
EAST EL. - CR - 101 TIOLET ROOM 61
1/4" = 1'-0"



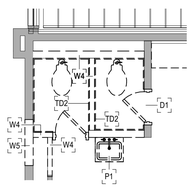
NORTH EL. - CR - 101 TOILET ROOM 60
1/4" = 1'-0"



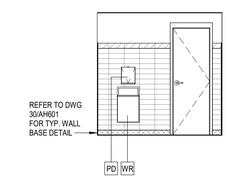
RCP - CR - 101 - TOILET ROOM 52
1/4" = 1'-0"



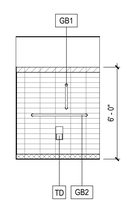
CR - 101 -TOILET ROOM 51
1/4" = 1'-0"



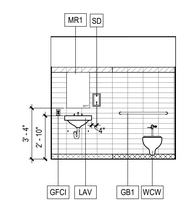
DEMO PLAN - CR - 101 - TOILET ROOM 50
1/4" = 1'-0"



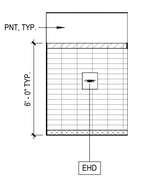
WEST ELEVATION - TOILET 219A 43
1/4" = 1'-0"



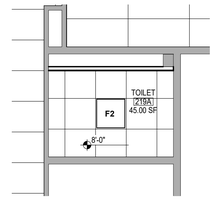
SOUTH ELEVATION - TOILET 219A 42
1/4" = 1'-0"



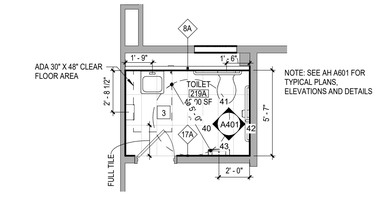
EAST ELEVATION - TOILET 219A 41
1/4" = 1'-0"



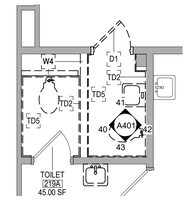
NORTH ELEVATION - TOILET 219A 40
1/4" = 1'-0"



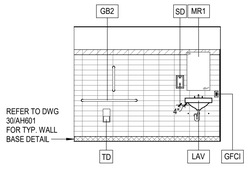
RCP - TOILET 219 A 32
1/4" = 1'-0"



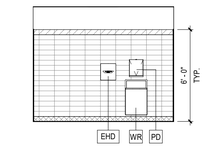
ENLARGED PLAN - TOILET 219A 31
1/4" = 1'-0"



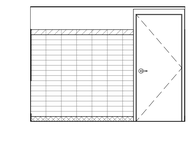
DEMO PLAN - TOILET 219A 30
1/4" = 1'-0"



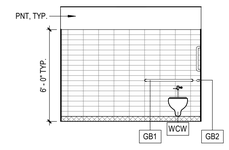
WEST ELEVATION - G. TOILET 119 23
1/4" = 1'-0"



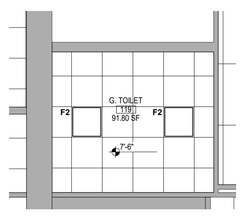
SOUTH ELEVATION - G. TOILET 119 22
1/4" = 1'-0"



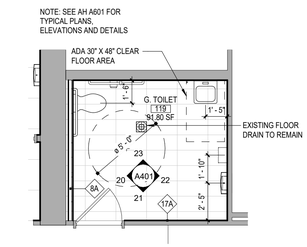
EAST ELEVATION - G. TOILET 119 21
1/4" = 1'-0"



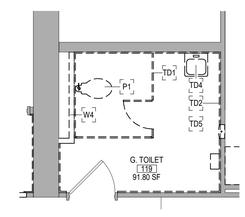
NORTH ELEVATION - G. TOILET 119 20
1/4" = 1'-0"



RCP - G. TOILET 119 12
1/4" = 1'-0"



ENLARGED PLAN - G. TOILET 119 11
1/4" = 1'-0"



DEMO PLAN - G.TOILET 119 10
1/4" = 1'-0"

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
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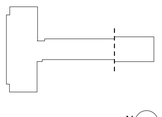


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ENLARGED PLANS AND ELEVATIONS - TOILET ROOMS

AH A401

SHEET NOTES

KEY NOTES

3	NEW TILE TO BE INSTALLED OVER EXISTING TERRAZO FLOORING.
EHD	ELECTRIC HAND DRYER SURFACE MOUNTING KIT
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SEE ELECTRICAL DRAWING FOR MORE INFORMATION
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
MR1	18"x30" CHANNEL FRAMED GLASS MIRROR
PD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
SD	SOAP DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD	TOILET TISSUE DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD1	DEMOLISH TOILET PARTITION.
TD2	REMOVE ALL LAYERS OF WALL TILE.PARGE WALL WITH TYPE N-MORTAR IN AREAS WHERE TERRACOTTA TILE WAS DAMAGED DURING DEMOLITION.
TD4	REFER TO PLUMBING AND ELECTRICAL DRAWING FOR NEW FIXTURES.
TD5	GC TO REMOVE AND REPLACE EXISTING CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWING FOR EQUIPMENT REMOVALS.
TP	TOILET PARTITION
UP	URINAL PARTITION
UR	URINAL, REFER TO PLUMBING DRAWINGS
W4	REMOVE PARTITION WALL IN ITS ENTIRETY.
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS
WR	WASTE RECEPTACLE

HATCH LEGEND

CWT-1

CWT-2

CWT-3

CEILING LEGEND

GYPSUM BOARD CEILING

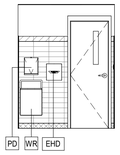
2' X 2' ACOUSTICAL CEILING TILE

+X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR

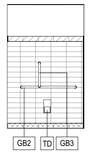
ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2'X2' LIGHT FIXTURE

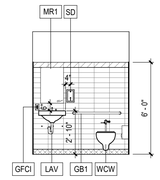
2'X4' LIGHT FIXTURE



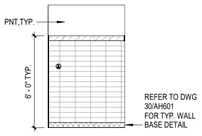
WEST EL. - TOILET 123A 54
1/4" = 1'-0"



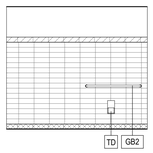
SOUTH EL. - TOILET 123A 52
1/4" = 1'-0"



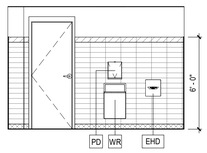
EAST EL. - TOILET 123A 51
1/4" = 1'-0"



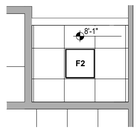
NORTH EL. - TOILET 123A 50
1/4" = 1'-0"



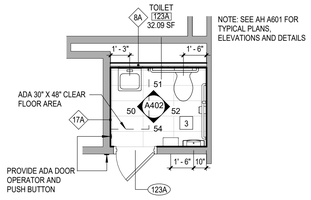
WEST EL. - TOILET 229C 45
1/4" = 1'-0"



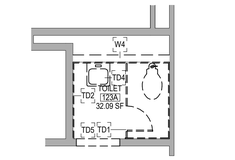
SOUTH EL. - TOILET 229C 44
1/4" = 1'-0"



RCP - TOILET 123A 42
1/4" = 1'-0"



OFFICE - 123A - TOILET ROOM 41
1/4" = 1'-0"



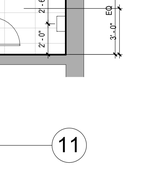
DEMO PLAN - 123A -TOILET ROOM 40
1/4" = 1'-0"

EAST EL. - TOILET 229C 35
1/4" = 1'-0"

NORTH EL. - TOILET 229C 34
1/4" = 1'-0"

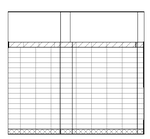
WEST EL. - TOILET 213A 33
1/4" = 1'-0"

SOUTH EL. - TOILET 213A 32
1/4" = 1'-0"

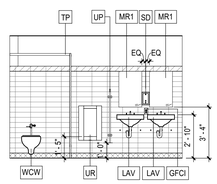


EAST EL. - TOILET 213A 31
1/4" = 1'-0"

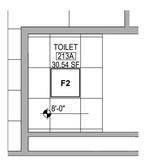
NORTH EL. - TOILET 213A 30
1/4" = 1'-0"



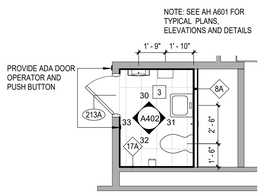
WEST EL. - TOILET 229B 25
1/4" = 1'-0"



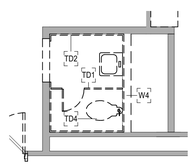
SOUTH EL. - TOILET 229B 24
1/4" = 1'-0"



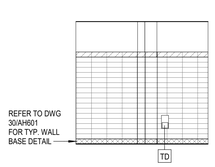
RCP - TOILET 213A 22
1/4" = 1'-0"



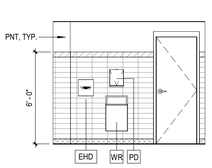
ENLARGED PLAN - TOILET 213A 21
1/4" = 1'-0"



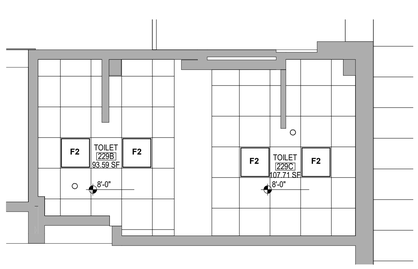
DEMO PLAN - TOILET 213A 20
1/4" = 1'-0"



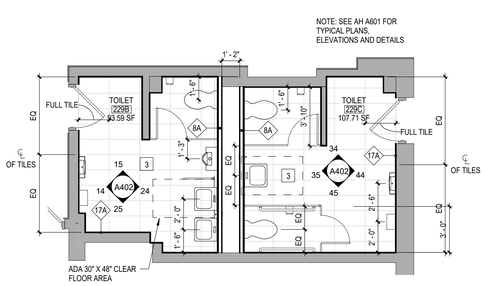
EAST EL. - TOILET 229B 15
1/4" = 1'-0"



NORTH EL. - TOILET 229B 14
1/4" = 1'-0"



RCP - TOILET ROOM 229B - 229C 12
1/4" = 1'-0"



ENLARGED PLAN - TOILET 229B 11
1/4" = 1'-0"

DEMO PLAN - TOILET 229B 10
1/4" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

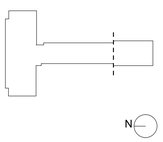
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ENLARGED PLANS AND ELEVATION - TOILET ROOMS

AH A402

SHEET NOTES

KEY NOTES

3	NEW TILE TO BE INSTALLED OVER EXISTING TERRAZO FLOORING.
EHD	ELECTRIC HAND DRYER SURFACE MOUNTING KIT
GB1	36" GRAB BAR
GB3	18" VERTICAL GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SEE ELECTRICAL DRAWING FOR MORE INFORMATION
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
MR1	18"x30" CHANNEL FRAMED GLASS MIRROR
PD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
SD	SOAP DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD	TOILET TISSUE DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD1	DEMOLISH TOILET PARTITION.
TD2	REMOVE ALL LAYERS OF WALL TILE,PARGE WALL WITH TYPE N-MORTAR IN AREAS WHERE TERRACOTTA TILE WAS DAMAGED DURING DEMOLITION.
TD4	REFER TO PLUMBING AND ELECTRICAL DRAWING FOR NEW FIXTURES.
TD5	GC TO REMOVE AND REPLACE EXISTING CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWING FOR EQUIPMENT REMOVALS.
TP	TOILET PARTITION
UP	URINAL PARTITION
UR	URINAL, REFER TO PLUMBING DRAWINGS
W4	REMOVE PARTITION WALL IN ITS ENTIRETY.
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS
WR	WASTE RECEPTACLE

HATCH LEGEND

CWT-1

CWT-2

CWT-3

CEILING LEGEND

GYPSUM BOARD CEILING

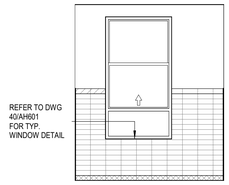
2' X 2' ACOUSTICAL CEILING TILE

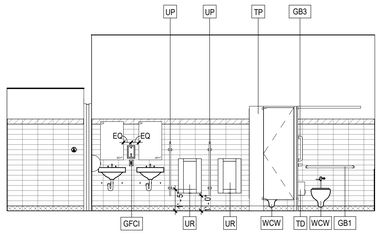
+X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR

ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2'X2' LIGHT FIXTURE

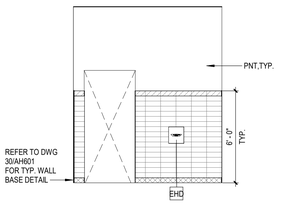
2'X4' LIGHT FIXTURE

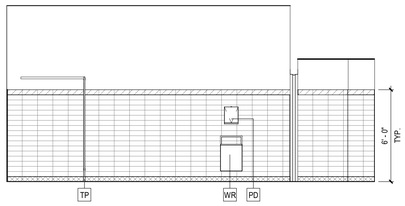




EAST ELEVATION - B. TOILET 212 — 1/4" = 1'-0" — 44

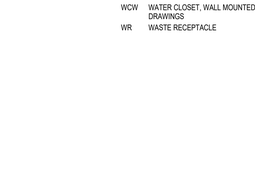
NORTH ELEVATION - B. TOILET 212 — 1/4" = 1'-0" — 43

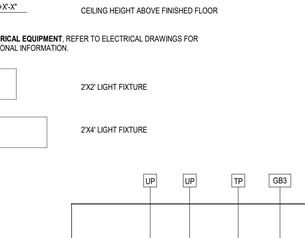




WEST ELEVATION - B. TOILET 212 — 1/4" = 1'-0" — 34

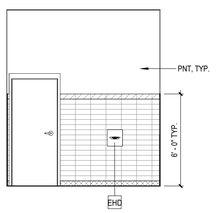
SOUTH ELEVATION - B. TOILET 212 — 1/4" = 1'-0" — 33

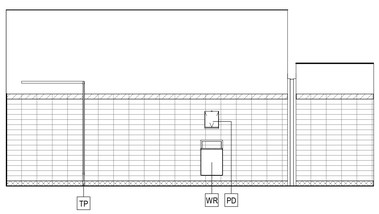




EAST ELEVATION - G. TOILET 211 — 1/4" = 1'-0" — 24

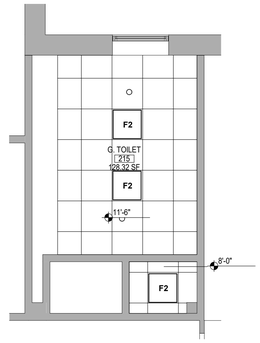
NORTH ELEVATION - G. TOILET 211 — 1/4" = 1'-0" — 23





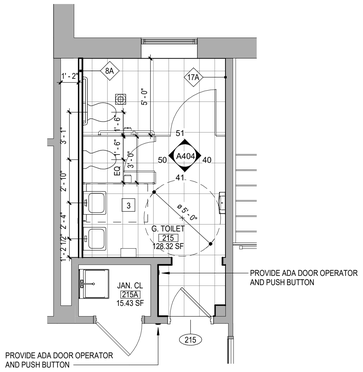
WEST ELEVATION - G. TOILET 211 — 1/4" = 1'-0" — 14

SOUTH ELEVATION - G. TOILET 211 — 1/4" = 1'-0" — 13

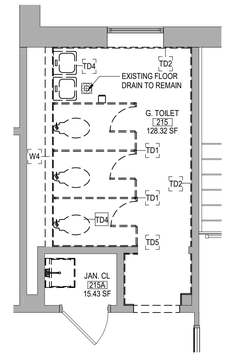


RCP - TOILET 215 — 1/4" = 1'-0" — 52

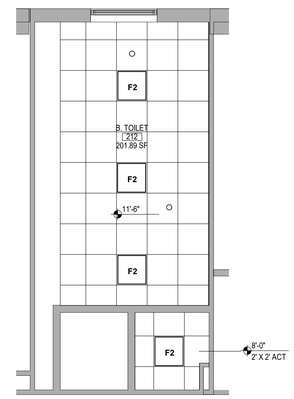
NOTE: SEE AH A601 FOR TYPICAL PLANS, ELEVATIONS AND DETAILS



ENLARGED PLAN - TOILET 215 — 1/4" = 1'-0" — 51

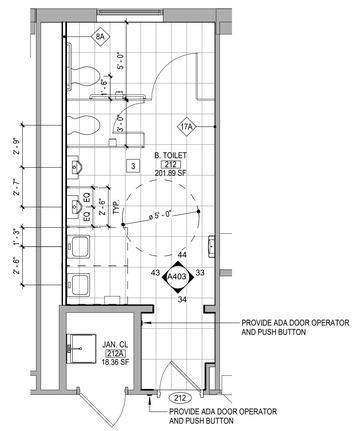


DEMO PLAN - TOILET 215 — 1/4" = 1'-0" — 50

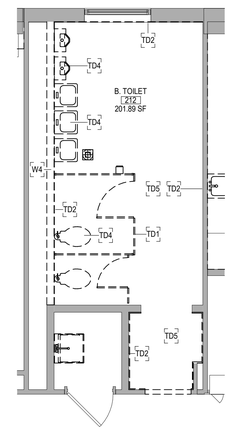


RCP - B. TOILET 212 — 1/4" = 1'-0" — 22

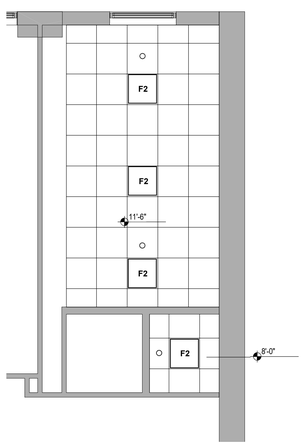
NOTE: SEE AH A601 FOR TYPICAL PLANS, ELEVATIONS AND DETAILS



ENLARGED PLAN - B. TOILET 212 — 1/4" = 1'-0" — 21

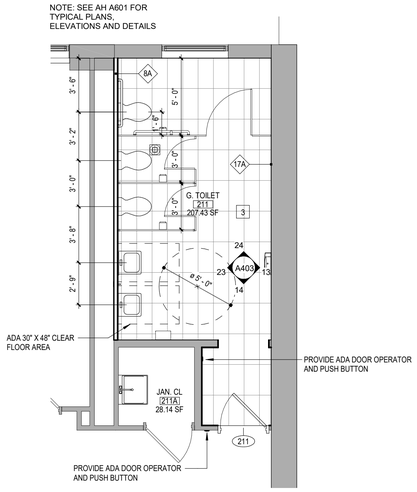


DEMO PLAN - B. TOILET 212 — 1/4" = 1'-0" — 20

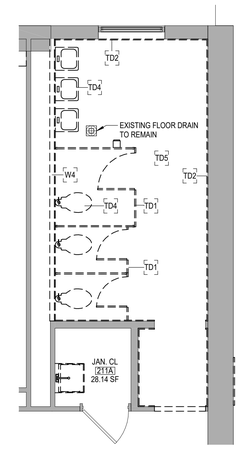


RCP - G. TOILET 211 — 1/4" = 1'-0" — 12

NOTE: SEE AH A601 FOR TYPICAL PLANS, ELEVATIONS AND DETAILS



ENLARGED PLAN - G. TOILET 211 — 1/4" = 1'-0" — 11



DEMO PLAN - G. TOILET 211 — 1/4" = 1'-0" — 10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
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STANTEC
30 OAK STREET, SUITE 400
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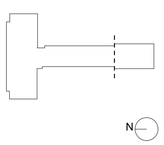
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

BID DOCUMENTS	11/06/2024
ISSUE	DATE

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ENLARGED PLANS AND ELEVATION - TOILET ROOMS

AH A403

SHEET NOTES

KEY NOTES

3	NEW TILE TO BE INSTALLED OVER EXISTING TERRAZO FLOORING
EHD	ELECTRIC HAND DRYER SURFACE MOUNTING KIT
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SEE ELECTRICAL DRAWING FOR MORE INFORMATION
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
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SD	SOAP DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
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TD1	DEMOLISH TOILET PARTITION.
TD2	REMOVE ALL LAYERS OF WALL TILE,PARGE WALL WITH TYPE N MORTAR IN AREAS WHERE TERRACOTTA TILE WAS DAMAGED DURING DEMOLITION.
TD4	REFER TO PLUMBING AND ELECTRICAL DRAWING FOR NEW FIXTURES.
TD5	GC TO REMOVE AND REPLACE EXISTING CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWING FOR EQUIPMENT REMOVALS.
TP	TOILET PARTITION
UP	URINAL PARTITION
UR	URINAL, REFER TO PLUMBING DRAWINGS
W4	REMOVE PARTITION WALL IN ITS ENTIRETY.
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS
WR	WASTE RECEPTACLE

HATCH LEGEND

CWT-1

CWT-2

CWT-3

CEILING LEGEND

GYPSUM BOARD CEILING

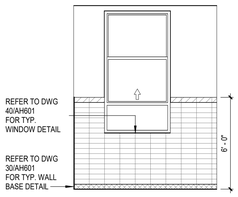
2' X 2' ACOUSTICAL CEILING TILE

+X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR

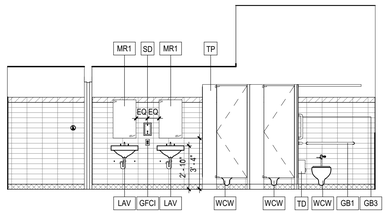
ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2'X2' LIGHT FIXTURE

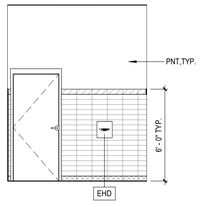
2'X4' LIGHT FIXTURE



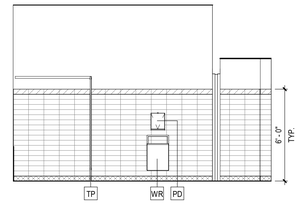
EAST ELEVATION - G. TOILET 118 — 1/4" = 1'-0" — 44



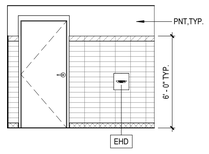
NORTH ELEVATION - G. TOILET 118 — 1/4" = 1'-0" — 43



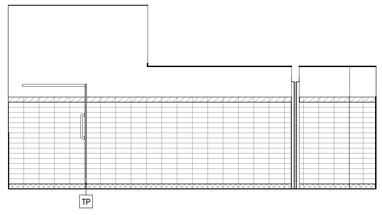
WEST ELEVATION - TIOLET 215 — 1/4" = 1'-0" — 41



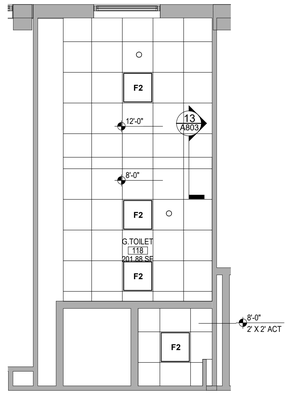
SOUTH ELEVATION - TIOLET 215 — 1/4" = 1'-0" — 40



WEST ELEVATION - G. TOILET 118 — 1/4" = 1'-0" — 34

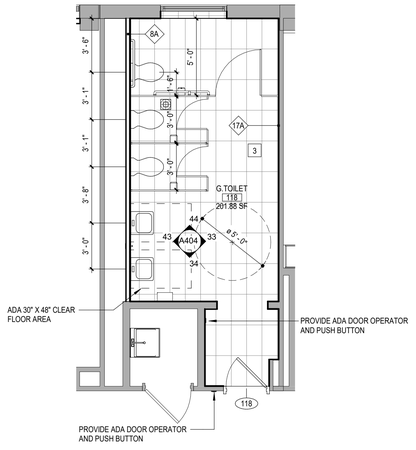


SOUTH ELEVATION - G. TOILET 118 — 1/4" = 1'-0" — 33

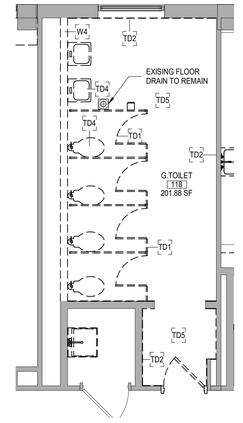


RCP - G. TOILET 118 — 1/4" = 1'-0" — 22

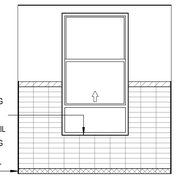
NOTE: SEE AH A601 FOR TYPICAL PLANS, ELEVATIONS AND DETAILS



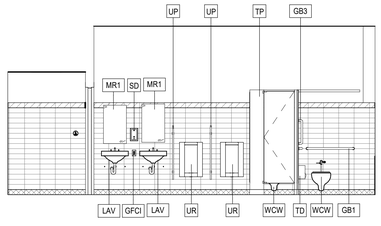
ENLARGED PLAN - G. TOILET 118 — 1/4" = 1'-0" — 21



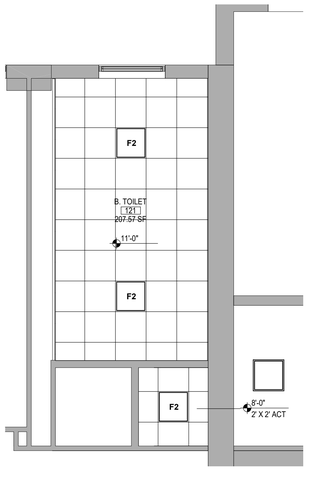
DEMO PLAN - G. TOILET 118 — 1/4" = 1'-0" — 20



EAST ELEVATION - B. TOILET 121 — 1/4" = 1'-0" — 24

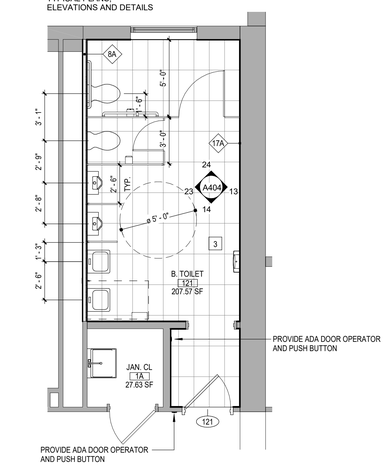


NORTH ELEVATION - B. TOILET 121 — 1/4" = 1'-0" — 23

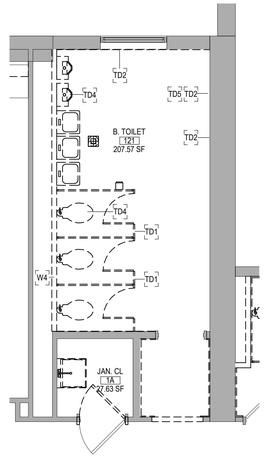


RCP - B. TOILET 121 — 1/4" = 1'-0" — 12

NOTE: SEE AH A601 FOR TYPICAL PLANS, ELEVATIONS AND DETAILS



ENLARGED PLAN - B. TOILET 121 — 1/4" = 1'-0" — 11



DEMO PLAN - B. TOILET 121 — 1/4" = 1'-0" — 10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

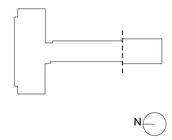
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ENLARGED PLANS AND ELEVATION - TOILET ROOMS

AH A404

SHEET NOTES

KEY NOTES

3	NEW TILE TO BE INSTALLED OVER EXISTING TERRAZO FLOORING.
A3	REMOVE LOCKERS AND ALL ASSOCIATED BLOCKING AND BASE BELOW. SAWCUT FLOOR AT EDGE OF BASE TO PROVIDE CLEAN EDGE.
C2	REMOVE EXISTING PLASTER CEILING SYSTEM INTIS ENTIERETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT REMOVALS.
D1	REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
EHD	ELECTRIC HAND DRYER SURFACE MOUNTING KIT
F1	REMOVE FLOOR FINISH, INCLUDING ALL PADDING, ADHESIVES AND WALL BASE, TO SLAB BELOW
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SEE ELECTRICAL DRAWING FOR MORE INFORMATION
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
MR1	18"x30" CHANNEL FRAMED GLASS MIRROR
P1	REFER TO PLUMBING DRAWINGS FOR REMOVALS.
PD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
SD	SOAP DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD	TOILET TISSUE DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD2	REMOVE ALL LAYERS OF WALL TILE,PARGE WALL WITH TYPE N-MORTAR IN AREAS WHERE TERRACOTTA TILE WAS DAMAGED DURING DEMOLITION.
TD4	REFER TO PLUMBING AND ELECTRICAL DRAWING FOR NEW FIXTURES.
TD5	GC TO REMOVE AND REPLACE EXISTING CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWING FOR EQUIPMENT REMOVALS.
W2	SAWCUT AND REMOVE MASONRY WALL FOR EXTENT SHOWN, COORDINATE REMOVAL WITH NEW WORK.
W4	REMOVE PARTITION WALL IN ITS ENTIRETY.
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS
WR	WASTE RECEPTACLE

HATCH LEGEND

CWT-1

CWT-2

CWT-3

CEILING LEGEND

GYPSUM BOARD CEILING

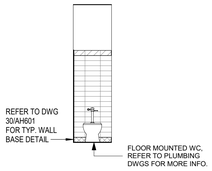
2' X 2' ACOUSTICAL CEILING TILE

+X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR

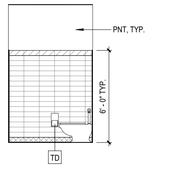
ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2'X2' LIGHT FIXTURE

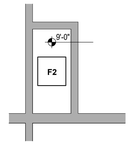
2'X4' LIGHT FIXTURE



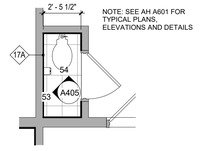
EAST EL. - TOILET 135A 54
1/4" = 1'-0"



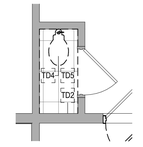
NORTH EL. - TOIELT 135A 53
1/4" = 1'-0"



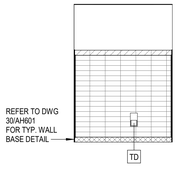
RCP - TOILET 135A 52
1/4" = 1'-0"



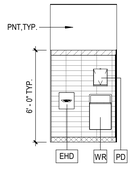
TOILET 135A - FLOOR PLAN 51
1/4" = 1'-0"



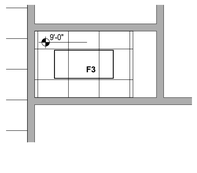
DEMO PLAN - TOILET 135A 50
1/4" = 1'-0"



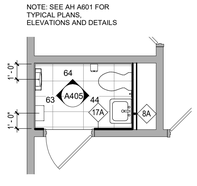
EAST EL. - TOILET 220C 64
1/4" = 1'-0"



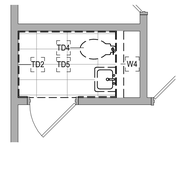
NORTH EL. - TOILET 220C 63
1/4" = 1'-0"



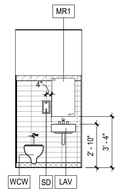
RCP - TOILET 220C 62
1/4" = 1'-0"



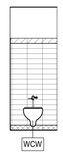
TOILET 220C - FLOOR PLAN 61
1/4" = 1'-0"



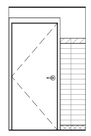
DEMO PLAN - TOILET 220C 60
1/4" = 1'-0"



SOUTH EL. - TOILET 220C 44
1/4" = 1'-0"

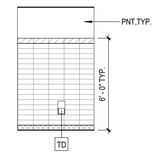


WEST EL. - FACULTY 120 43
1/4" = 1'-0"

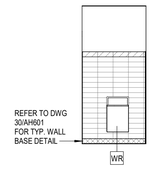


SOUTH EL. - FACULTY 120 42
1/4" = 1'-0"

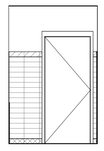
EAST EL. - FACULTY 120 41
1/4" = 1'-0"



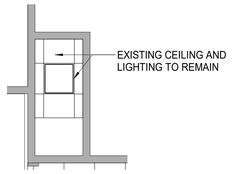
NORTH EL. - FACULTY 120 40
1/4" = 1'-0"



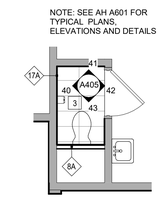
WEST EL. TOILET 223 34
1/4" = 1'-0"



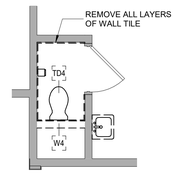
SOUTH EL. TOILET 223 33
1/4" = 1'-0"



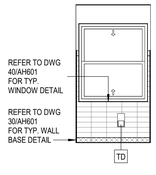
RCP - FACULTY 120 32
1/4" = 1'-0"



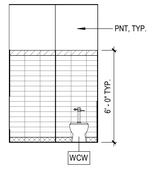
FACULTY 120 - TOILET 31
1/4" = 1'-0"



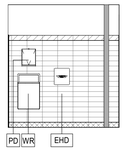
DEMO PLAN - FACULTY 120 30
1/4" = 1'-0"



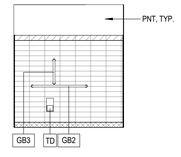
EAST EL. TOILET 223 25
1/4" = 1'-0"



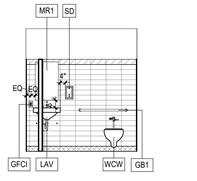
NORTH EL. TOILET 223 24
1/4" = 1'-0"



WEST EL. TOILET 102A 23
1/4" = 1'-0"

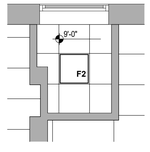


SOUTH EL. TOILET 102A 22
1/4" = 1'-0"

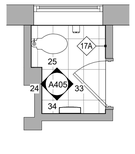


EAST EL. - TOILET 102A 21
1/4" = 1'-0"

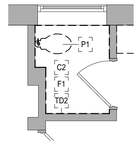
NORTH EL. - TOILET 102A 20
1/4" = 1'-0"



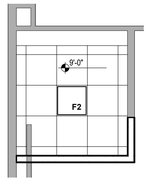
RCP - TOILET ROOM 223 15
1/4" = 1'-0"



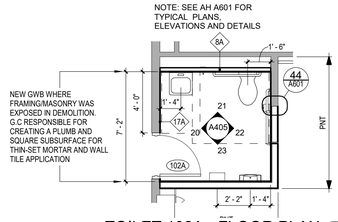
TOILET ROOM 223 - PLAN 14
1/4" = 1'-0"



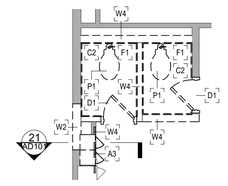
DEMO PLAN - TOILET 223 13
1/4" = 1'-0"



RCP - TOILET 102A 12
1/4" = 1'-0"



TOILET 102A - FLOOR PLAN 11
1/4" = 1'-0"



DEMO PLAN - TOILET 102A 10
1/4" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
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STANTEC
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NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
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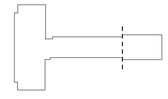
VALHALLA, NY 10595

BID DOCUMENTS	11/06/2024
ISSUE	DATE

KEY PLAN



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PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ENLARGED PLANS AND ELEVATION - TOILET ROOMS

AH A405

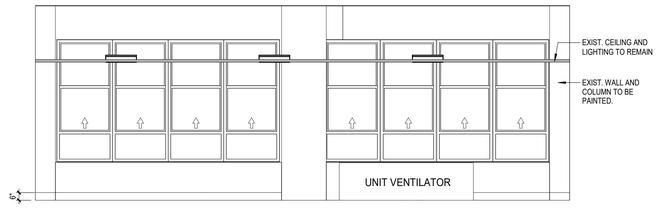
SHEET NOTES

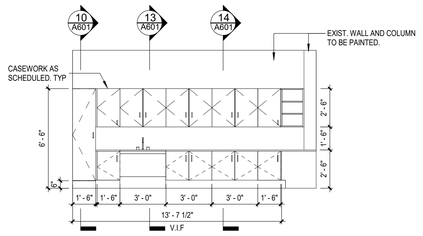
A. HEIGHT OF TOE-KICK AND CABINET BASE TO MATCH THE HEIGHT OF EXISTING ADJACENT BASE. GC TO V.I.F

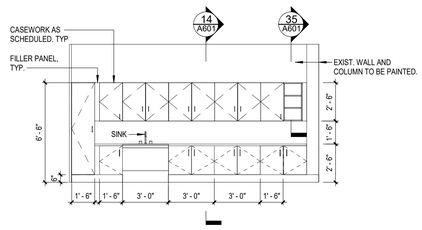
B. ALIGN CASEWORK WITH EXIST. WINDOW MULLION

C. NEW PAINT TO MATCH EXIST.

KEY NOTES

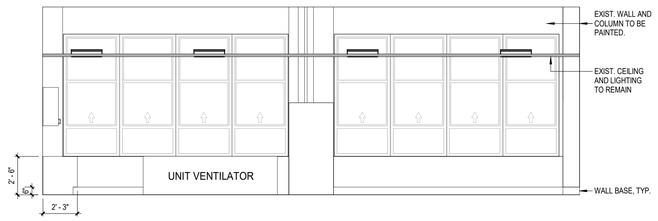






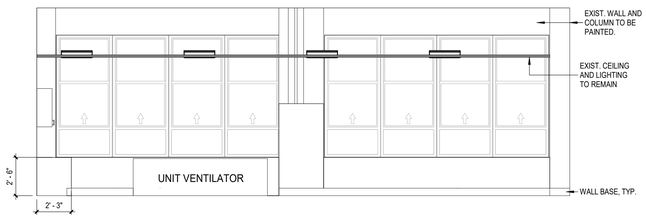
WINDOW WALL ELEVATION @ CLASSROOM 109, 209 — 52

1/4" = 1'-0"



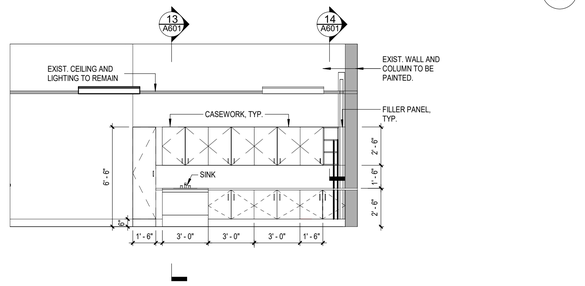
NORTH ELEVATION @ CLASSROOM 205 — 51

1/4" = 1'-0"



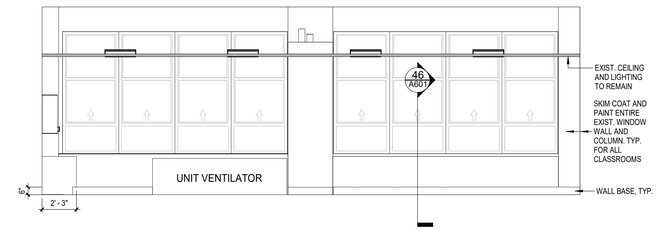
NORTH ELEVATION @ CLASSROOMS 201, 203, 207 — 50

1/4" = 1'-0"



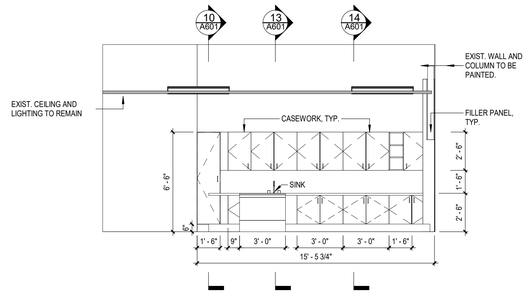
WINDOW WALL ELEV. @ CLASS. - 102, 104,106, 108, 202, 204, 206, 208 — 42

1/4" = 1'-0"



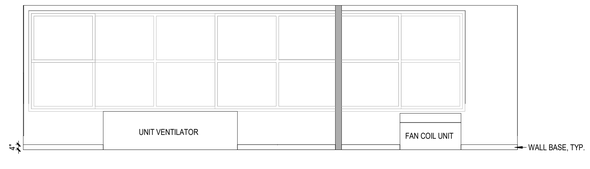
WINDOW WALL ELEVATION @ CLASSROOM 110, 210 — 41

1/4" = 1'-0"



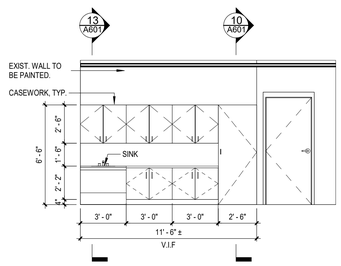
NORTH ELEVATION @ CLASSROOMS 105, 106, 107, 108, 109, 110 — 40

1/4" = 1'-0"



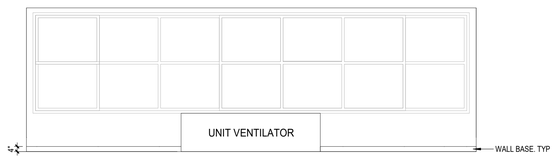
WINDOW WALL ELEV.@ CLASS. 101,103,105, 107, 201, 203, 205, 207 — 32

1/4" = 1'-0"



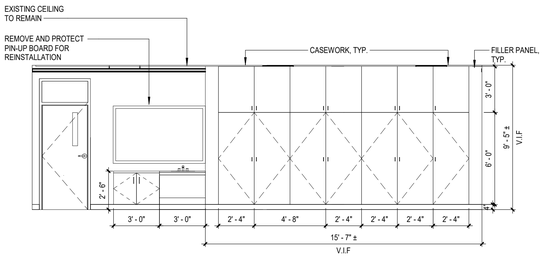
NORTH ELEVATION @ CLASSROOMS 101,102,103,104 — 31

1/4" = 1'-0"



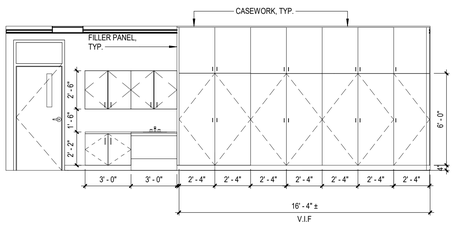
WINDOW WALL ELEVATION @ CLASSROOM 115 & 115B — 30

1/4" = 1'-0"



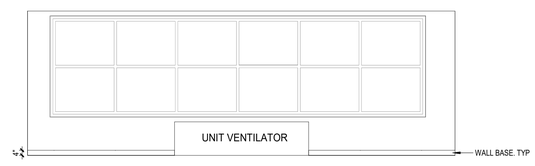
NORTH ELEVATION @ CLASSROOM 115 — 22

1/4" = 1'-0"



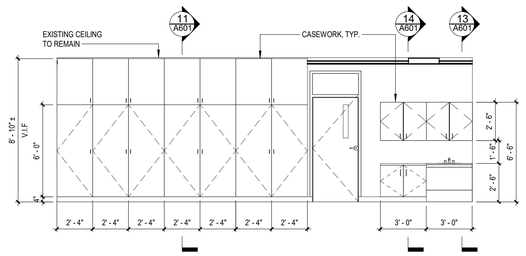
WINDOW WALL ELEVATION @ CLASSROOM 111 — 21

1/4" = 1'-0"



WEST ELEVATION @ CLASSROOM 111 — 20

1/4" = 1'-0"



EAST ELEVATION @ CLASSROOM 114, 116 — 12

1/4" = 1'-0"

WINDOW WALL ELEVATION @ CLASSROOMS 112, 114, 116 — 11

1/4" = 1'-0"

EAST ELEVATION @ CLASSROOM 112 — 10

1/4" = 1'-0"

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ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

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WSP
ONE PENN PLAZA
2ND FLOOR
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LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

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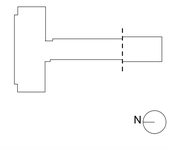
KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

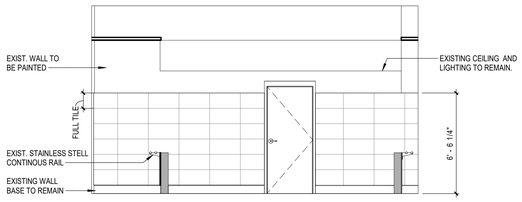
CLASSROOM ELEVATIONS

AH A406

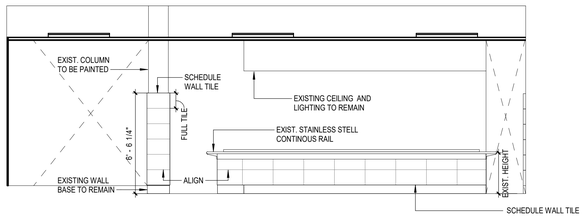
SHEET NOTES

A. REMOVE AND PROTECT ALL SURFACE MOUNTED EQUIPMENTS AND FIXTURES, STORE FOR RE- INSTALLATION.
B. SCRAPE AND PREP WALLS, TRIM FOR NEW PAINTED FINISH.

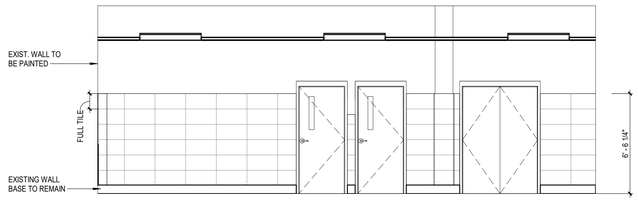
KEY NOTES



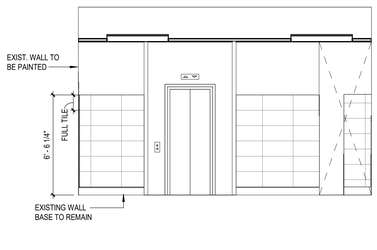
WEST ELEVATION @ KITCHEN 42
1/4" = 1'-0"

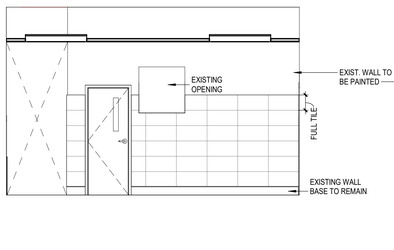


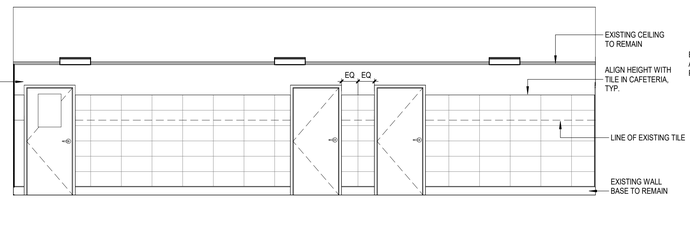
EAST ELEVATION @ CAFETERIA 41
1/4" = 1'-0"

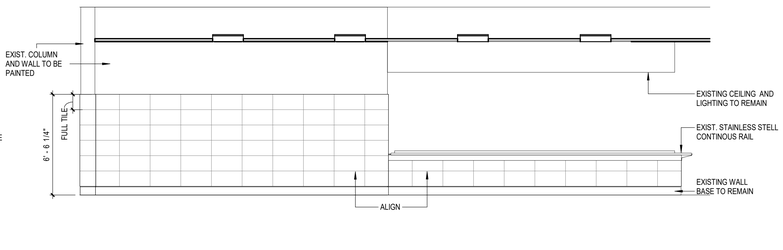


WEST ELEVATION @ CAFETERIA 40
1/4" = 1'-0"







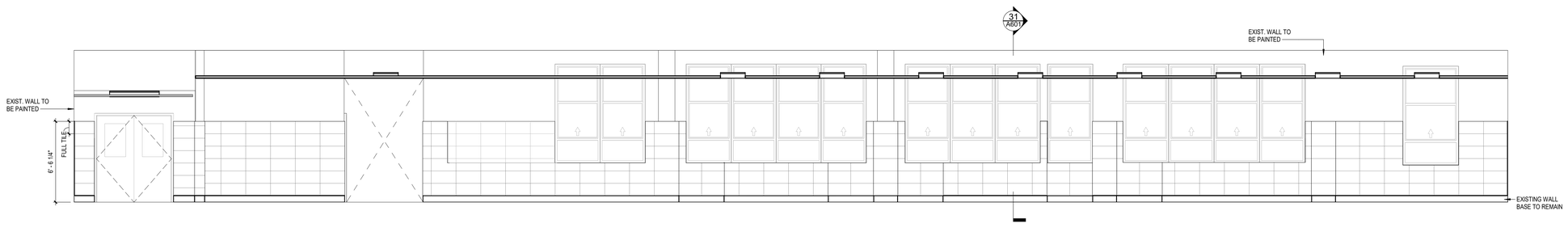


FRONT ELEVATION @ ELEVATOR 33
1/4" = 1'-0"

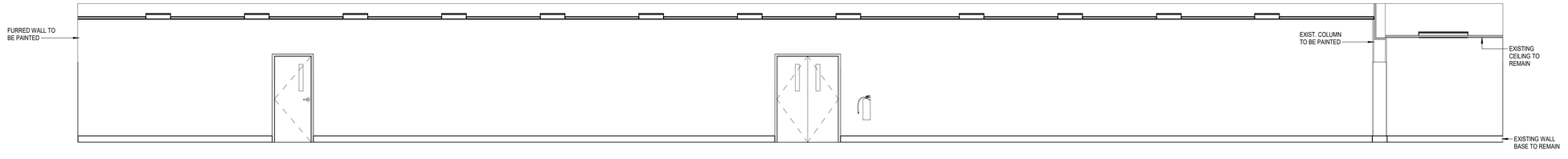
FRONT ELEVATION @ ROOM 120 32
1/4" = 1'-0"

CORRIDOR ELEVATION @ CAFETERIA 31
1/4" = 1'-0"

SOUTH ELEVATION @ KITCHEN 30
1/4" = 1'-0"



SOUTH ELEVATION @ CAFETERIA 20
1/4" = 1'-0"



NORTH ELEVATION @ CAFETERIA 10
1/4" = 1'-0"

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
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420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

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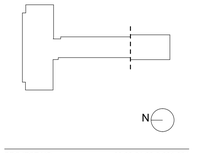


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

INTERIOR ELEVATION - CAFETERIA

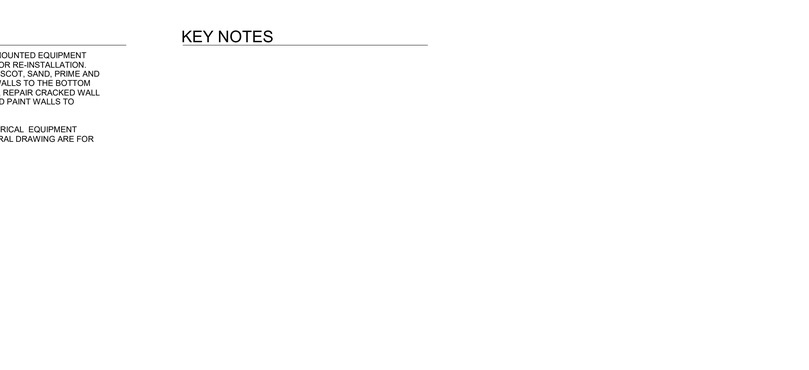
AH A407

SHEET NOTES

A. REMOVE ALL SURFACE MOUNTED EQUIPMENT AND FIXTURES, STORE FOR RE-INSTALLATION. REPAIR THE WOOD WAINSCOT, SAND, PRIME AND PAINT. CONTINUE GYP. WALLS TO THE BOTTOM OF ROOF AT PERIMETER, REPAIR CRACKED WALL PLASTER, SKIM COAT AND PAINT WALLS TO BOTTOM OF ROOF.

B. MECHANICAL AND ELECTRICAL EQUIPMENT SHOWN IN ARCHITECTURAL DRAWING ARE FOR REFERNCE ONLY.

KEY NOTES



AUDITORIUM ELEVATION EAST

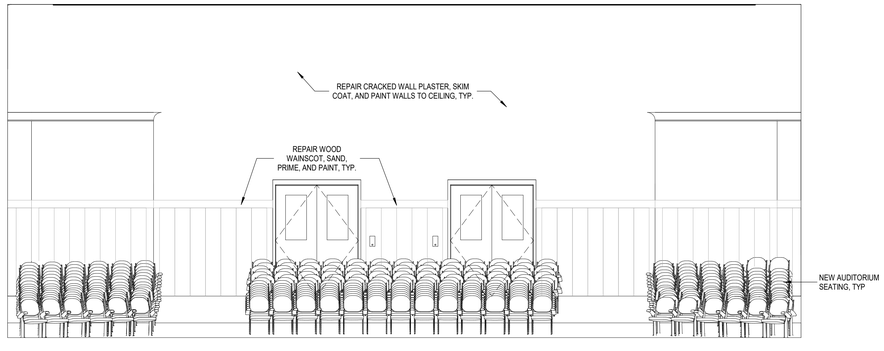
1/4" = 1'-0"

21

AUDITORIUM ELEVATION SOUTH

1/4" = 1'-0"

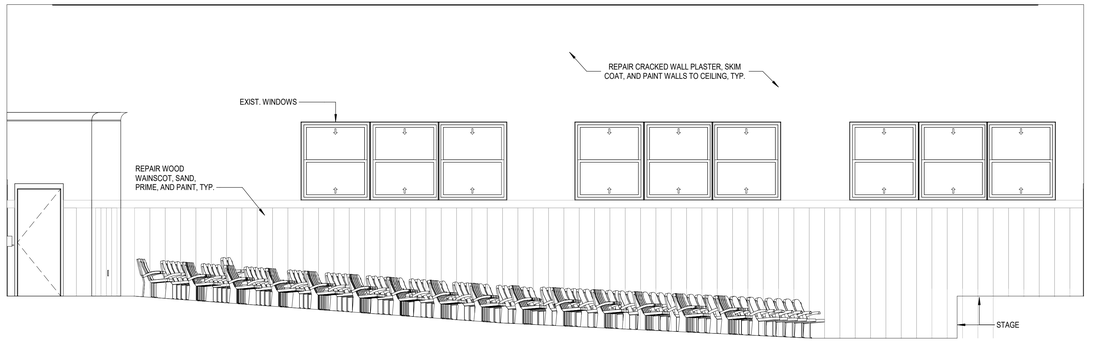
20



AUDITORIUM ELEVATION WEST

1/4" = 1'-0"

11



AUDITORIUM ELEVATION NORTH

1/4" = 1'-0"

10

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ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT

REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT

STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

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WSP
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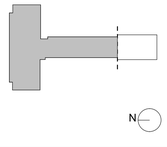


PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

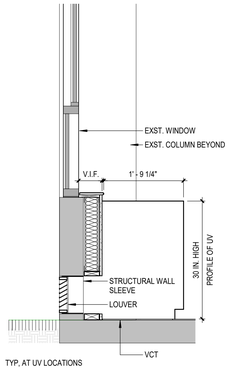
INTERIOR ELEVATION - AUDITORIUM

AH A408

SHEET NOTES

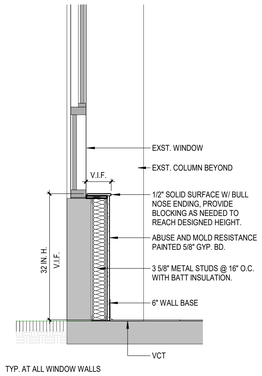
A. HEIGHT OF TOE-KICK AND CABINET BASE TO MATCH THE HEIGHT OF EXISTING ADJACENT BASE. GC TO V.I.F

KEY NOTES



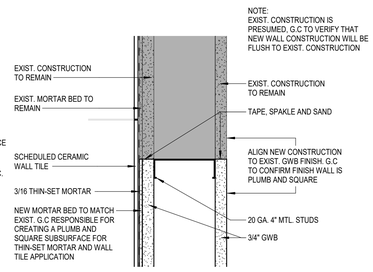
TYP. AT UV LOCATIONS

DET. AT WINDOW WALL UV 46
3/4" = 1'-0"

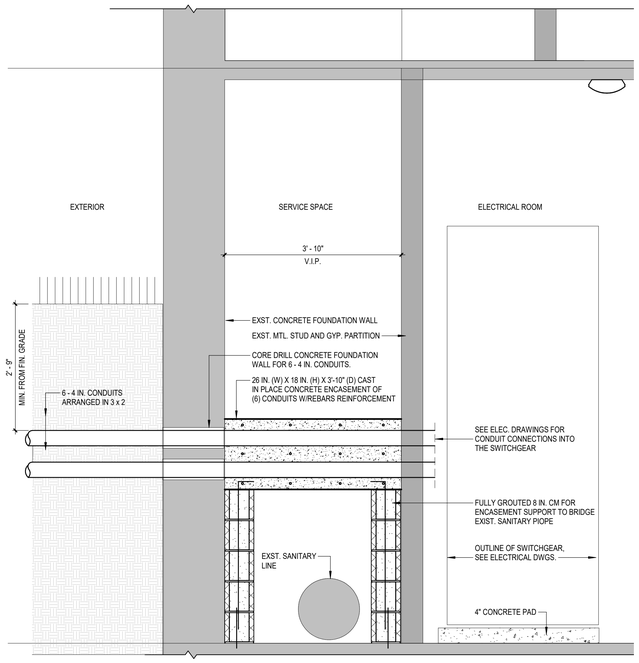


TYP. AT ALL WINDOW WALLS

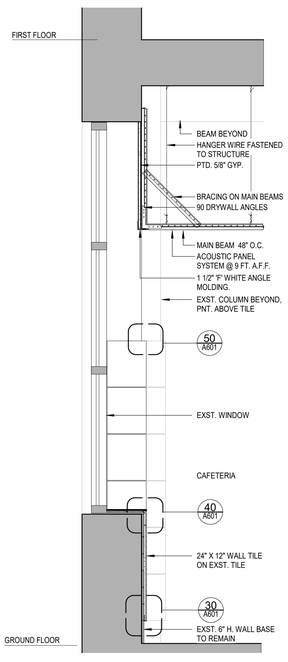
DET. AT WINDOW WALL 45
3/4" = 1'-0"



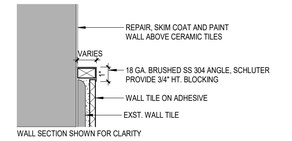
TYP. BATHROOM PLAN DTL. 44
3" = 1'-0"



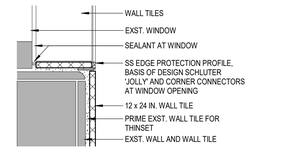
SECTION AT FOUNDATION WALL CONDUIT PENETRATION 32
3/4" = 1'-0"



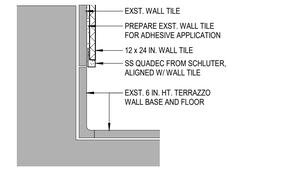
WINDOW DETAIL 31
3/4" = 1'-0"



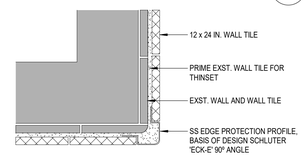
TYP. WAINSCOT CAP DETAIL 50
3" = 1'-0"



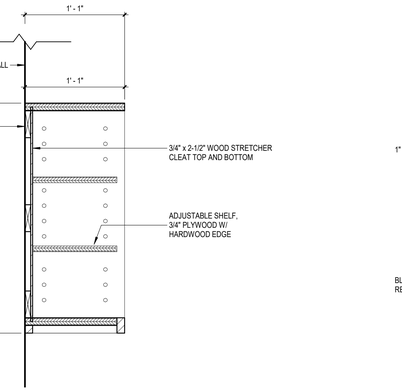
TYP. WINDOW DETAIL 40
3" = 1'-0"



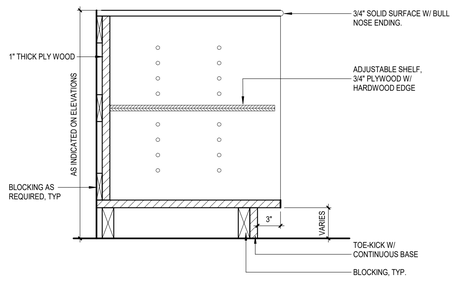
TYP. WALL BASE DETAIL 30
3" = 1'-0"



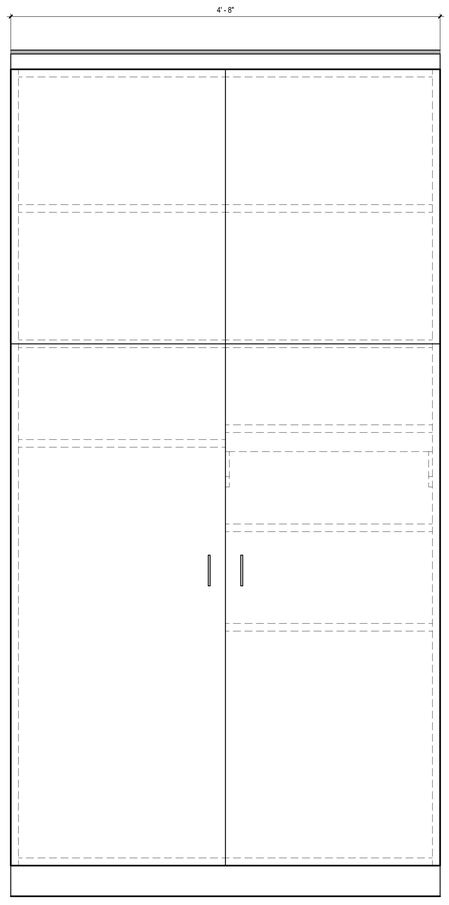
TYP. TILE EDGE CORNER DETAIL 20
3" = 1'-0"



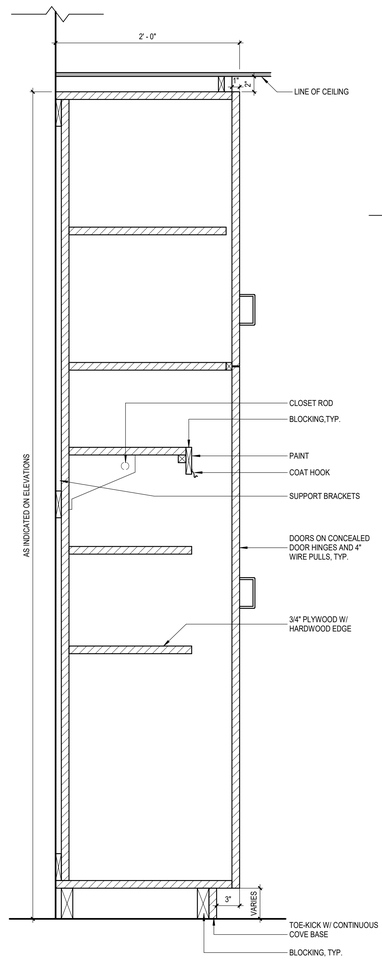
SECTION @ UPPER CABINET 35
1 1/2" = 1'-0"



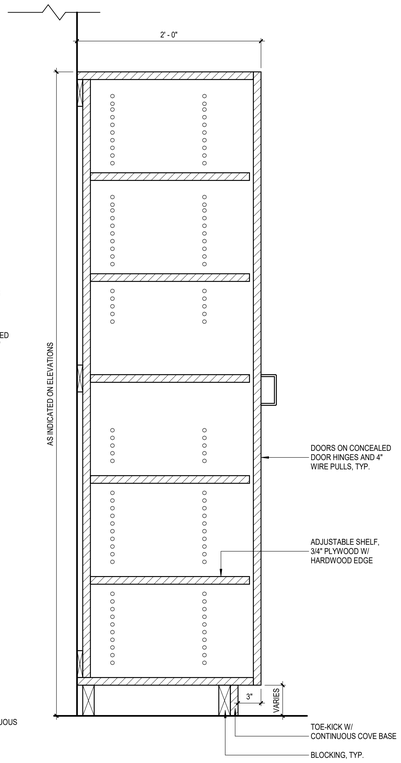
SECTION @ BASE CABINET - NO DOOR 34
1 1/2" = 1'-0"



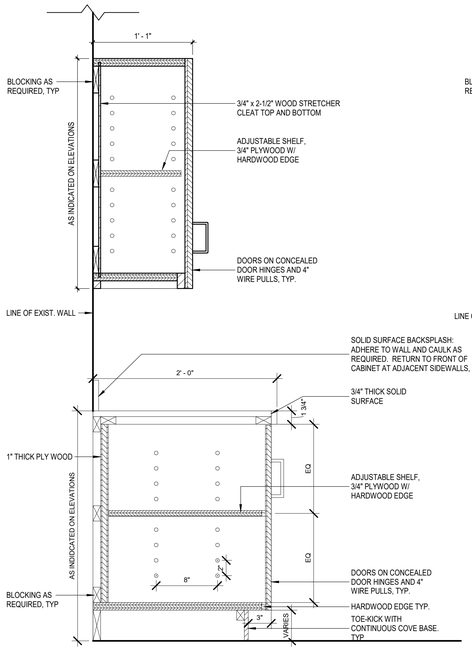
ELEVATION @ TALL CABINET - 2 DOOR 12
1 1/2" = 1'-0"



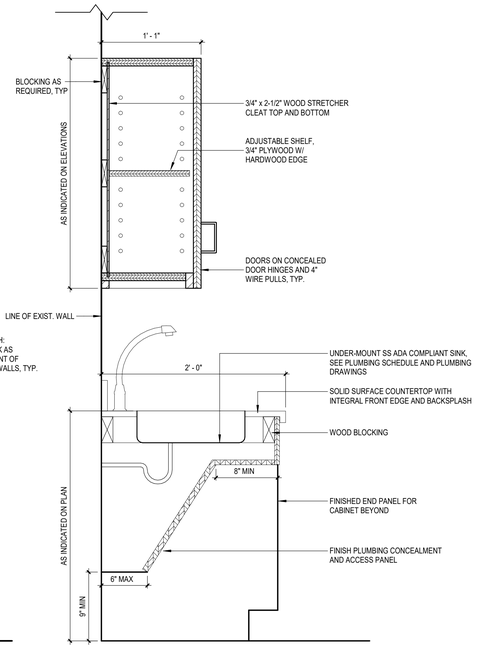
SECTION @ TALL CABINET - 2 DOOR 11
1 1/2" = 1'-0"



SECTION @ TALL CABINET - DOOR 10
1 1/2" = 1'-0"



SECTION @ BASE CABINET - DOOR 14
1 1/2" = 1'-0"



SECTION @ SINK 13
1 1/2" = 1'-0"

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

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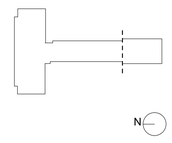
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

CASEWORK AND SECTION DETAILS

AH A601

SHEET NOTES

KEY NOTES

FINISH NOTE

MANUFACTURER'S NAMES AND FINISH INFORMATION ARE INDICATED AS REFERENCE TO THE ARCHITECT'S BASIS-OF-DESIGN SELECTIONS AND HAVE BEEN DETERMINED PRIOR TO BID. THE CONTRACTOR AND OWNER ARE HEREBY NOTIFIED THAT FINISHES INSTALLED IN THE WORK ARE SUBJECT TO CHANGE IN RESPONSE TO SUBMITTALS, CONFIRMED SELECTIONS, PRODUCT AVAILABILITY AND THE SUBSEQUENT COORDINATION OF FINISHES BY ARCHITECT AND MAY DIFFER FROM PRODUCTS LISTED HEREIN.

FINISH LEGEND

WALL FINISH
BASE FINISH
FLOOR FINISH
CEILING FINISH

INTERIOR FINISH TAG, REFER TO DETAILS AND ROOM FINISH SCHEDULE

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
LV T	LUXURY VINYL TILE
PT	PORCELAIN TILE
PNT	PAINT
RB	RUBBER WALL BASE

SCHEDULE OF FINISH MATERIALS

TAG	MATERIAL	MANUFACTURER	STYLE / TYPE	COLOR	SIZE	NOTES
ACT-1	ACOUSTIC CEILING TILE	CERTAIN TEED	SAND MICRO	WHITE	24" x 48"	
ACT-2	ACOUSTIC CEILING TILE	CERTAIN TEED	SAND MICRO	WHITE	24" x 48"	
ACT-3	ACOUSTIC CEILING TILE	CERTAIN TEED	SYMPHONY M	WHITE	24" x 48"	HIGH CAC
CWT-1	CERAMIC WALL TILE					
CWT-2	CERAMIC WALL TILE					
CWT-3	CERAMIC WALL TILE					
CWT-4	CERAMIC WALL TILE				12" x 24"	
PT-1	PORCELAIN TILE					
VCT-1	VYNIL COMPOSITION TILE	ARMSTRONG	IMPERIAL TEXTURE			COLLECTION: STANDARD EXCELON
RB-1	RUBBER BASE	ROPPE		193 BLACK BROWN	4" H / 6" H	MATCH EXIST. HEIGHT
PNT-1	PAINT	SHERWIN WILLIAMS		ON THE ROCKS		EGG-SHELL ON WALLS
PNT-2	PAINT	SHERWIN WILLIAMS		PEPPERCORN		TRIMS & DOOR FRAMES
P.LAM-1	PLASTIC LAMINATE	FORMICA		NATURAL BIRCH		MATTE FINISH
SS-1	SOLID SURFACE	CORIAN		DUNE PRIMA		

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	FLOOR BASE	WALL FINISH	CEILING
101	STEM LAB	VCT-1	RB-1	PNT-1	-
101B	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
102	CLASSROOM	VCT-1	RB-1	PNT-1	-
102A	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
103	CLASSROOM	VCT-1	RB-1	PNT-1	-
103A	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
104	CLASSROOM	VCT-1	RB-1	PNT-1	-
104A	TOILET		CWT-3	CWT-2, CWT-3, PNT-1	ACT-1
105	CLASSROOM	VCT-1	RB-1	PNT-1	-
106	CLASSROOM	VCT-1	RB-1	PNT-1	-
107	CLASSROOM	VCT-1	RB-1	PNT-1	-
108	CLASSROOM	VCT-1	RB-1	PNT-1	-
109	CLASSROOM	VCT-1	RB-1	PNT-1	-
110	CLASSROOM	VCT-1	RB-1	PNT-1	-
111	CLASSROOM	VCT-1	RB-1	PNT-1	ACT-1
112	CLASSROOM	VCT-1	RB-1	PNT-1	ACT-1
113	OFFICE				ACT-2
114	CLASSROOM	VCT-1	RB-1	PNT-1	ACT-1
115	CLASSROOM	VCT-1	RB-1	PNT-1	ACT-1
115A	STORAGE				ACT-1
115B	CLASSROOM	VCT-1	RB-1	PNT-1	ACT-1
116	CLASSROOM	VCT-1	RB-1	PNT-1	ACT-1
117	CLASSROOM	VCT-1	RB-1	PNT-1	ACT-1
118	CLASSROOM	VCT-1	RB-1	PNT-1	ACT-1
118	G.TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
119	G. TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
120A	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
121	B. TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
123	OFFICE				ACT-1
123A	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
126	CAFETERIA	ETR TERR	EXIST	CWT-4,PNT-2	ACT-1
135A	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
201	CLASSROOM	VCT-1	RB-1	PNT-1	-
202	CLASSROOM	VCT-1	RB-1	PNT-1	-
203	CLASSROOM	VCT-1	RB-1	PNT-1	-
204	CLASSROOM	VCT-1	RB-1	PNT-1	-
205	CLASSROOM	VCT-1	RB-1	PNT-1	-
206	CLASSROOM	VCT-1	RB-1	PNT-1	-
207	CLASSROOM	VCT-1	RB-1	PNT-1	-
208	CLASSROOM	VCT-1	RB-1	PNT-1	-
209	CLASSROOM	VCT-1	RB-1	PNT-1	-
210	CLASSROOM	VCT-1	RB-1	PNT-1	-
211	G. TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
212	B. TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
213	OFFICE				ACT-1
213A	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
215	G. TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
219A	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
220C	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
221	CLASSROOM	VCT	RB-1	PNT-1	ACT-1
221B	STORAGE				ACT-1
222	LIBRARY				ACT-1
222A	STORAGE				ACT-2
222B	OFFICE				ACT-2
223	CLASSROOM	VCT	RB-1	PNT-1	ACT-1
223A	CLASSROOM	VCT	RB-1	PNT-1	ACT-1
223T	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-1
224	COUNSELOR				ACT-2
225	BAND ROOM				ACT-1
226	COUNSELOR				ACT-2
227	AUDITORIUM			PNT-1	ACT-3
228	SPECIAL ED.				ACT-2
229B	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2
229C	TOILET	PT-1	CWT-3	CWT-2, CWT-3, PNT-1	ACT-2

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT

REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT

STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT

WSP
ONE PENN PLAZA
2ND FLOOR
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LIGHTING CONSULTANT

GOLDSTICK LIGHTING DESIGN
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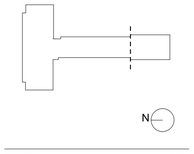
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

SCHEDULES

AH A602

SHEET NOTES

KEY NOTES

EASTCHESTER UNION FREE SCHOOL DISTRICT

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ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

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1000 PARK BLVD, SUITE 209
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DOOR TYPES
1/4" = 1'-0"

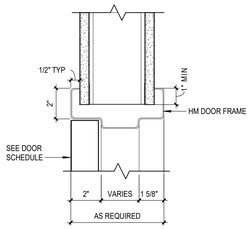
31

FRAME TYPES
1/4" = 1'-0"

30

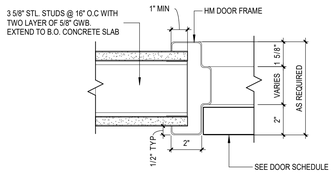
DOOR SCHEDULE

DOOR NO.	DOOR: LEAF COUNT	DOOR: FROM ROOM	DOOR: NO.	DOOR: TO ROOM	DOOR: NO.	DOOR: DOOR RATING	DOOR: WIDTH	DOOR: HEIGHT	DOOR: THICKNESS	DOOR: TYPE	DOOR: MATERIAL	DOOR: FINISH	FRAME: TYPE	FRAME: MATERIAL	FRAME: FINISH	FRAME: HEAD DETAIL	FRAME: JAMB DETAIL	FRAME: SILL DETAIL	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	COMMENTS
101B	1	TOILET	101B	CORRIDOR	1	20	2' - 8"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT				-	01.0			
102A	1	CORRIDOR	1	TOILET	102A	20	2' - 8"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT	12/A604	11/A604	10/A604	-	01.0			
104J	1	ELEC. ROOM	130A			90	3' - 0"	7' - 0"	1 3/4"	F	HM	FF	1	HM	PNT	14/A604	13/A604			02.0			
104K	1	ELEC. ROOM	130A			90	3' - 0"	7' - 0"	1 3/4"	F	HM	FF	1	HM	PNT	14/A604	13/A604			02.0			
118	1	G.TOILET	118	CORRIDOR	1	-	2' - 8"	7' - 0"	1 3/4"	F	WD	FF		HM	PNT	-	-	-	-	03.0			PROVIDE DOOR LOUVER, SEE MEP DWGS.
121	1	CORRIDOR	1	B. TOILET	121	-	3' - 0"	7' - 0"	1 3/4"	F	WD	FF		HM	PNT	-	-	-	-	03.0			PROVIDE DOOR LOUVER, SEE MEP DWGS.
122	1	TOILET	103A	CLASSROOM	103	(none)	3' - 0"	7' - 0"	1 3/4"	F	WD	FF		HM	PNT								
123A	1	OFFICE	123	TOILET	123A	-	2' - 6"	7' - 0"	1 3/4"	N	WD	FF		HM	PNT					03.0			PROVIDE DOOR LOUVER, SEE MEP DWGS.
124	1	TOILET	104A	CLASSROOM	104	(none)	3' - 0"	7' - 0"	1 3/4"	F	WD	FF		HM	PNT								
211	1	G. TOILET	211	CORRIDOR	3	-	3' - 0"	7' - 0"	1 3/4"	F	WD	FF		HM	PNT				-	03.0			PROVIDE DOOR LOUVER, SEE MEP DWGS.
212	1	CORRIDOR	3	B. TOILET	212	-	2' - 8"	6' - 8"	1 3/4"	F	WD	FF		HM	PNT	-	-	-	-	03.0			PROVIDE DOOR LOUVER, SEE MEP DWGS.
213A	1	TOILET	213A	OFFICE	213	(none)	2' - 6"	7' - 0"	1 3/4"	F	WD	FF		HM	PNT					03.0			PROVIDE DOOR LOUVER, SEE MEP DWGS.
215	1	CORRIDOR	101	G. TOILET	215	-	2' - 8"	7' - 0"	1 3/4"	F	WD	FF		HM	PNT					03.0			PROVIDE DOOR LOUVER, SEE MEP DWGS.



HEAD DTL
3" = 1'-0"

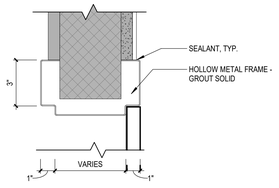
14



JAMB DTL
3" = 1'-0"

13

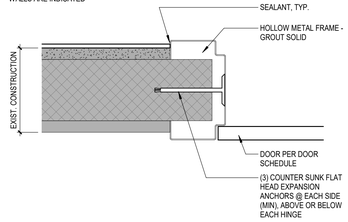
NOTE:
ASSEMBLE AS PER UNDERWRITERS LABORATORY, FIRE RESISTANCE RATING REQUIREMENTS WHERE RATED WALLS ARE INDICATED



HEAD DTL.
3" = 1'-0"

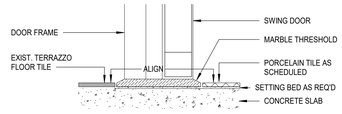
12

NOTE:
ASSEMBLE AS PER UNDERWRITERS LABORATORY, FIRE RESISTANCE RATING REQUIREMENTS WHERE RATED WALLS ARE INDICATED



JAMB DTL.
3" = 1'-0"

11

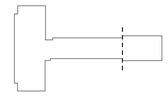


EXISTING TERRAZZO TO TILE
3" = 1'-0"

10

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

DOOR SCHEDULE, DETAILS AND SIGN TYPES

AH A603

SHEET NOTES

A. REFER TO MEP DRAWINGS FOR DETAILED SCOPE OF WORK. MEP EQUIPMENT/FIXTURES SHOWN IN ARCHITECTURAL DRAWING ARE FOR REFERENCE ONLY.

KEY NOTES

CEILING LEGEND

GYPSUM BOARD CEILING

2' X 2' ACOUSTICAL CEILING TILE (ACT-2)

2' X 4' ACOUSTICAL CEILING TILE (ACT-1 FOR CLARROOMS AND CORRIDORS) (ACT-3 FOR AUDITORIUM)

+X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR

ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

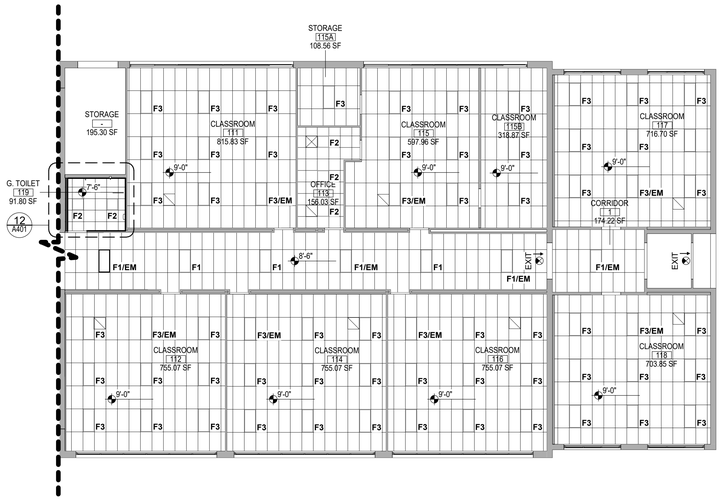
2'X2' LIGHT FIXTURE

2'X4' LIGHT FIXTURE

MECHANICAL LEGEND

HVAC SUPPLY GRILLE

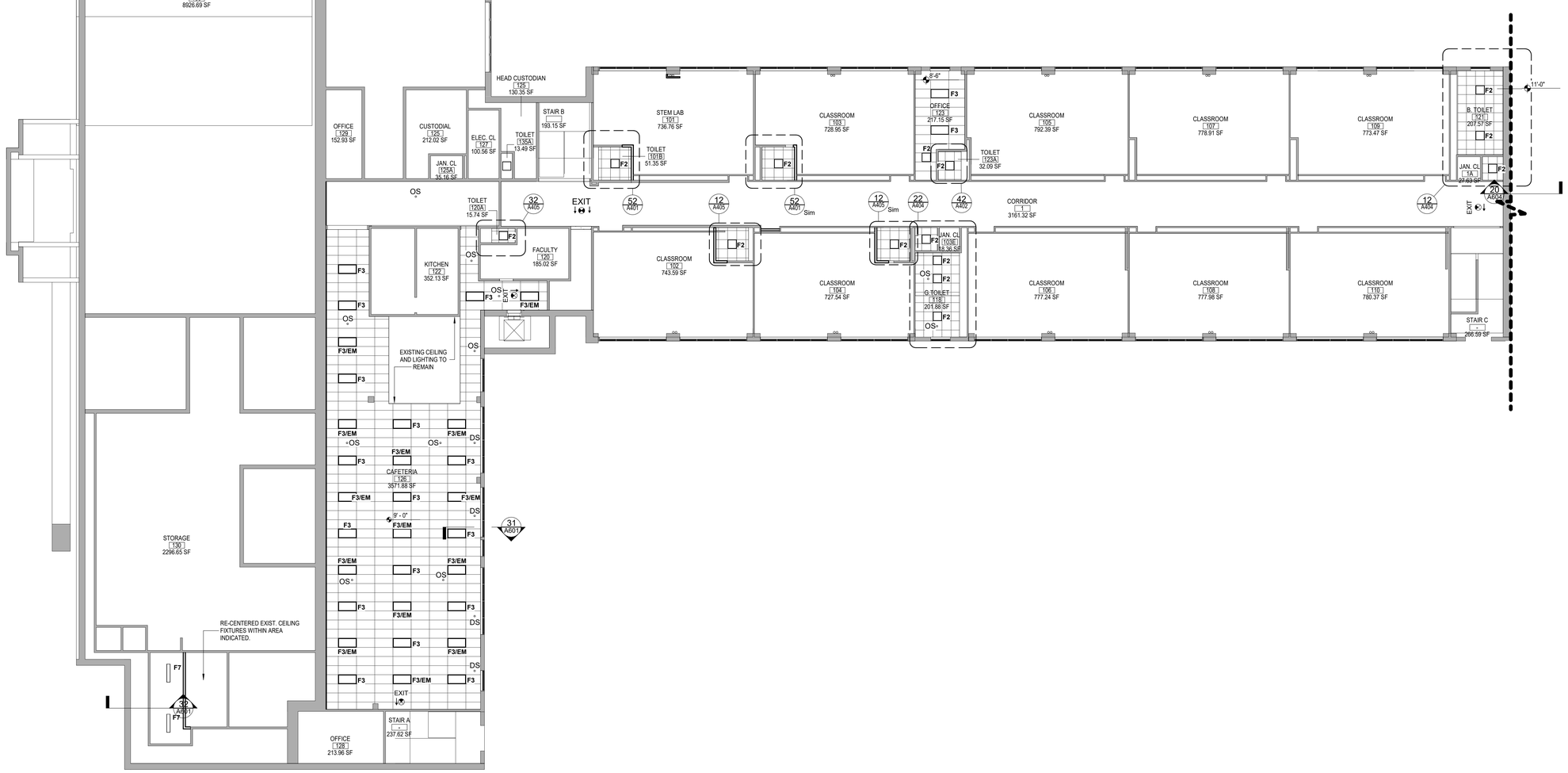
HVAC RETURN GRILLE



REFLECTED CEILING PART PLAN - GROUND FLOOR - AREA B

3/32" = 1'-0"

20



REFLECTED CEILING PART PLAN - GROUND FLOOR - AREA A

3/32" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

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REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT

STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT

WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT

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420 COLUMBUS AVE, SUITE 203
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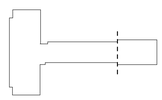

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REFLECTED CEILING PART PLAN - GROUND FLOOR

AH A801

SHEET NOTES

A. REFER TO MEP DRAWINGS FOR DETAILED SCOPE OF WORK. MEP EQUIPMENT/FIXTURES SHOWN IN ARCHITECTURAL DRAWING ARE FOR REFERENCE ONLY.

KEY NOTES

CEILING LEGEND

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2' X 4' ACOUSTICAL CEILING TILE (ACT-1 FOR CLARROOMS AND CORRIDORS) (ACT-3 FOR AUDITORIUM)

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2'X2' LIGHT FIXTURE

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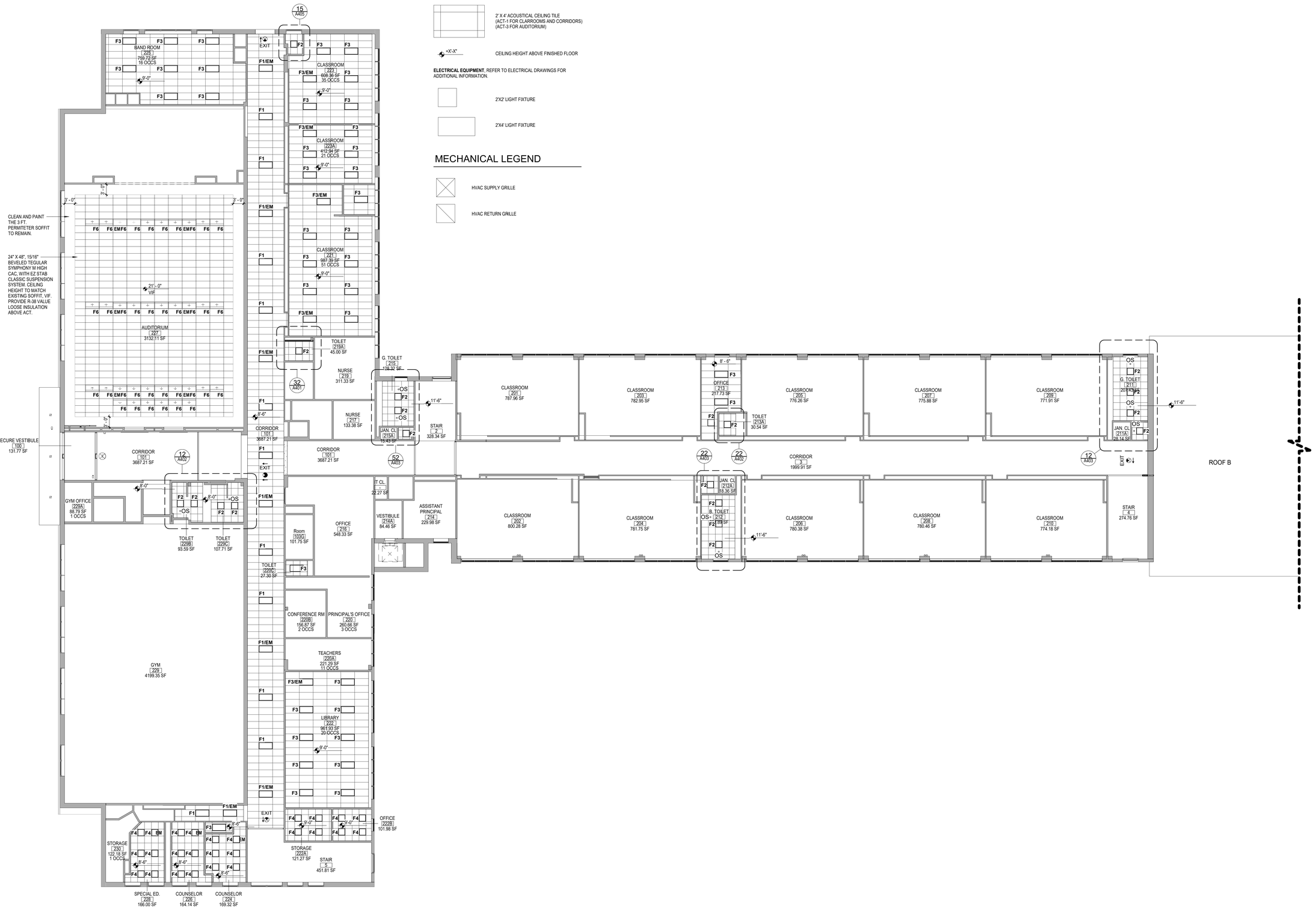
HVAC RETURN GRILLE



REFLECTED CEILING PART PLAN - FIRST FLOOR - AREA A

3/32" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT

REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

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STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

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WSP
ONE PENN PLAZA
2ND FLOOR
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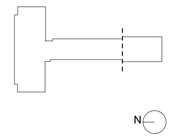


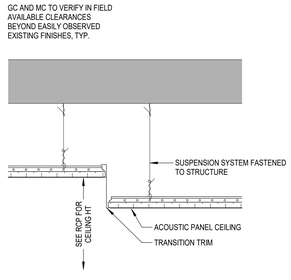
PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

REFLECTED CEILING PART PLAN - FIRST FLOOR

AH A802

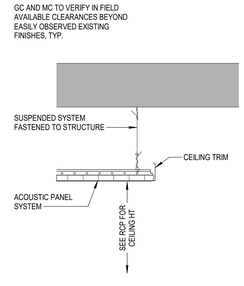
SHEET NOTES

KEY NOTES



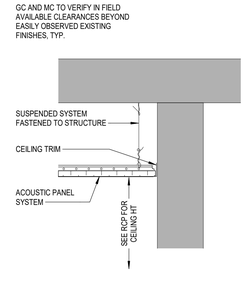
CEILING DTL. 2 — 13

1 1/2" = 1'-0"



CEILING DTL. @ PERIMETER TRIM — 11

1 1/2" = 1'-0"



CEILING DTL. — 10

1 1/2" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

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2 LYON PLACE
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MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

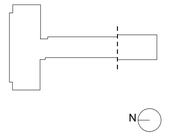
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

CEILING DETAILS

AH A803

GENERAL STRUCTURAL NOTES
1. ALL WORK SHALL CONFORM TO THE CODE & REFERENCE STANDARDS LISTED BELOW.

2. THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL, M/E/P/S DRAWINGS (INCLUDING ALL CONTRACT SHOP DRAWINGS) AND EQUIPMENT MANUFACTURERS TO ENSURE THAT OPENINGS, ANCHORS, INSERTS, SLEEVES, ATTACHMENTS, ETC. ARE PROVIDED AS REQUIRED. SOME OF THE DETAILS OF THE WORK ARE SHOWN ON THESE DRAWING SHOULD BE CAREFULLY REVIEWED BY THE CONTRACTOR TO FULLY COMPREHEND THE FULL SCOPE OF WORK.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL DIMENSIONS WITH THE ARCHITECTURAL AND M/E/P/S DRAWINGS. IN CASE OF CONFLICT, THE CONTRACTOR SHALL IMMEDIATELY REQUEST A CLARIFICATION FROM THE ARCHITECT/ENGINEER.

4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD PRIOR TO THE FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER.

5. IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND/OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER AND SHALL NOT PROCEED WITH ANY WORK THAT WOULD BE AFFECTED UNTIL FORMALLY DIRECTED BY THE ARCHITECT/ENGINEER ON HOW TO PROCEED.

6. THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER.

7. IN CASE OF CONFLICT BETWEEN NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

8. THIS STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION OF THE STRUCTURE HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. LACK OF COMMENT BY THE ARCHITECT/ENGINEER IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE ASPECTS OF WORK.

9. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISALIGNED OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. IF FAULTY CONSTRUCTION PROCEDURES OR MATERIALS RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING TIME TO DEVISE CORRECTIVE MEASURE, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE OF ADDITIONAL SERVICES. SUCH FEES MAY BE WITHHELD FROM THE GENERAL CONTRACTOR'S PAYMENT.

10. DO NOT SCALE DRAWINGS.

BUILDING CODE & REFERENCED STANDARDS
1. 2020 NEW YORK STATE BUILDING CODE
2. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

DESIGN CRITERIA

1. DEAD LOADS	PER MATERIAL
2. FLOOR LIVE LOADS	
• ROOF LIVE LOAD	20 PSF
3. SNOW LOADS	
GROUND SNOW LOAD, Pg =	20 PSF
SNOW EXPOSURE FACTOR, Ce =	0.9
SNOW LOAD IMPORTANCE FACTOR, Is =	1.1
THERMAL FACTOR, Ct =	1.0
DRIFT SURCHARGE LOAD, Pd =	21 PSF
WIDTH OF SNOW DRIFT, w =	5 FT
FLAT-ROOF SNOW LOAD, Pf =	20 PSF
4. WIND LOADS	
ULTIMATE DESIGN WIND SPEED, Vult. =	125 MPH
RISK CATEGORY =	III
EXPOSURE CATEGORY =	B
INTERNAL PRESSURE COEFFICIENT =	0.0018

SPECIAL INSPECTIONS
THE FOLLOWING WORK ITEMS REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH APPLICABLE BUILDING CODE SECTION NOTED.

ITEM	CODE SECTION
-STEEL CONSTRUCTION	BC 1705.2
-STRUCTURAL STEEL	BC 1705.2.1

STRUCTURAL STEEL
1. STRUCTURAL STEEL SHAPES SHALL HAVE THE FOLLOWING PROPERTIES:

WIDE FLANGE	ASTM A992	(Fy= 50 KSI)
ANGLES & CHANNELS	ASTM A36	(Fy= 36 KSI)
PLATES	ASTM A36	(Fy= 36 KSI)
HOLLOW STRUCTURAL SHAPES	ASTM A500, Gr. C	(Fy= 50 KSI)

2. SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF A LICENSED STRUCTURAL ENGINEERING, INCLUDING COMPLETE DETAILS FOR THE FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS, PROCEDURES AND DIAGRAMS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE STEEL FABRICATOR SHALL BE AISC QUALITY CERTIFIED CATEGORY 1 OR 2.

3. ALL BOLTS SHALL BE ¾" ø MIN. TYPE-x U.N.O. AND CONFORM TO ASTM A325. BOLTS SHALL BE HEAVY HEX WIT HEAVY HEX NUTS AND PLAIN HARDENED WASHERS CONFORMING TO ASTM F436.

4. WHERE CONNECTIONS ARE NOT SPECIFICALLY DETAILED ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED BY THE STEEL DETAILER/FABRICATORS LICENSED PROFESSIONAL ENGINEER. SEE STEEL DETAIL SHEETS FOR ADDITIONAL INFO.

5. WHERE STEEL MEMBERS ARE SPECIFIED TO BE SPLICED, THE SPLICE SHALL BE DESIGNED BY THE STEEL DETAILER TO DEVELOP THE FULL CAPACITY OF THE SECTION UNLESS FORCES AT THE SPLICE LOCATION ARE SPECIFIED ON THE DRAWINGS. SUCH SPLICES SHALL NOT INTERFERE WITH ANY ARCHITECTURAL OR MECHANICAL CLEARANCES. ALL SPLICE DETAILS AND LOCATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS. WHERE SPLICES NOT SPECIFIED ON THE DRAWINGS AR PROPOSED BY THE CONTRACTOR, THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER.

6. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITIONS.

7. ALL BOLTING SHALL CONFORM TO THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS" SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", LATEST EDITIONS.

8. ALL WELDING SHALL CONFORM TO AWS CODE D1.1 "STRUCTURAL WELDING CODE - STEEL", LATEST EDITION.

9. ALL STRUCTURAL STEEL SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP-3-82 FOR POWER TOOL CLEANING AND PAINTED TO A MINIMUM DRY FILM THICKNESS OF 2 MILS WITH A SHOP COAT OF TNEMEC #10-99 ALKYD RUST INHIBITIVE PRIMER AS MANUFACTURED BY TNEMEC COMPANY, INC. KANSAS CITY, MO, OR APPROVED EQUAL.

10. ALL STRUCTURAL STEEL PLATES, BOLTS, NUTS, WASHERS, ETC. AS PART OF EXPOSED EXTERIOR STEEL DUNNAGE OR OTHER MEMBERS NOTED ON THE DRAWINGS TO BE GALVANIZED SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION CONFORMING TO ASTM A123 AND A153. TRIMMED ENDS OF STEEL AND DISTURBED SURFACES SHALL RECEIVE A BASE COAT OF Z.R.C. COLD GALVANIZING COMPOUND MANUFACTURED BY Z.R.C. CHEMICAL PRODUCTS INC., QUINCY, MA, OR EQUAL AND A TOP COAT OF ALUMINUM BASED PAINT.

11. ALL GROUT FOR BASE PLATES AND ANCHOR BOLTS SHALL BE NON-METALLIC AND OF NON-SHRINKAGE TYPE WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.

12. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION CONFORMING TO ASTM A123 & A153.

13. ALL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE DOVETAIL ANCHORS AT 1'-4" O.C. MAXIMUM OR THE EQUIVALENT INSTALLED UNLESS OTHERWISE NOTED ON THE DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.

14. REFER TO THE ARCHITECTURAL AND M/E/P/S DRAWINGS FOR OTHER REQUIRED MISCELLANEOUS STEEL.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY GUYING AND BRACING ALL STRUCTURAL STEEL TO MAINTAIN SAFETY, STABILITY AND ALIGNMENT DURING ALL PHASES OF CONSTRUCTION, AND SPECIFICALLY DURING CONCRETE OPERATIONS. SUCH BUYING AND BRACING SHALL REMAIN IN PLACE UNTIL THE STRUCTURE HAS ATTAINED ADEQUATE STRENGTH.

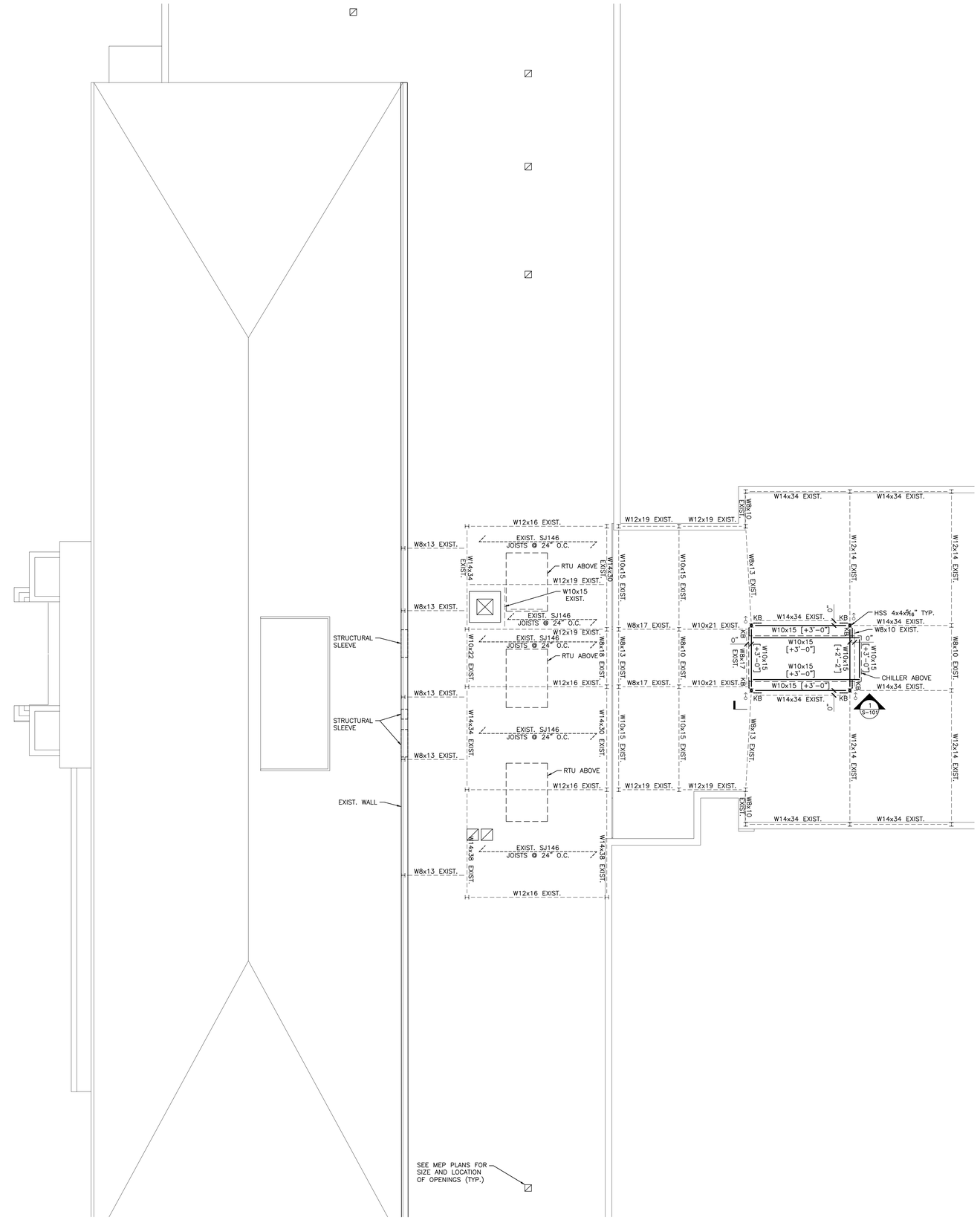
16. ALL STRUCTURAL STEEL WORK SHALL BE INSPECTED BY A LICENSED CERTIFIED TESTING AGENCY HIRED BY THE OWNER. ALL INSPECTIONS SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND GENERALLY ACCEPTED INDUSTRY PRACTICE. THE CONTRACTOR SHALL PROVIDE CERTIFIED LABORATORY MATERIAL CERTIFICATES FOR EACH DELIVERY OF MATERIAL BROUGHT TO THE SITE. CERTIFIED REPORTS PREPARED BY THE TESTING AGENCY SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW THAT ATTEST TO THE COMPLETENESS AND ADHERENCE OF THE WORK TO THE CONTRACT DOCUMENTS BY THE CONTRACTOR.

17. CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATORS LICENSED PROFESSIONAL ENGINEER. CONNECTION DESIGN IS NOT INCLUDED IN RTE SCOPE OF WORK.

STRUCTURAL ABBREVIATIONS
- A.B.=ANCHOR BOLT
- B.=BOTTOM
- B/=BOTTOM OF
- BM.=BEAM
- BRG.=BEARING
- BLK.=BLOCK
- B.O.F.=BOTTOM OF FOUNDATION
- BOT.=BOTTOM
- B.P.=BASE PLATE
- BRKT.=BRACKET
- CANT.=CANTILEVER
- C.I.P.=CAST-IN-PLACE
- CLR.=CLEAR
- COL.=COLUMN
- CONC.=CONCRETE
- C.M.U.=CONCRETE MASONRY UNIT
- CONST. JT.=CONSTRUCTION JOINT
- CONT.=CONTINUOUS
- C.J.=CONTROL JOINT
- DEPR.=DEPRESSION
- DET.=DETAIL
- D.L.=DEVELOPMENT LENGTH
- DIA.=DIAMETER
- DIM.=DIMENSION
- DIR.=DIRECTION
- DWLS.=DOWELS
- EA.=EACH
- E.E.=EACH END
- E.F.=EACH FACE
- E.J.=EXPANSION JOINT
- E.S.=EACH SIDE
- EQ.=EQUAL
- E.W.=EACH WAY
- EXIST.=EXISTING
- EXST.=EXISTING
- EXP. BOLT=EXPANSION BOLT
- EXP.JT.=EXPANSION JOINT
- F.F.=FAR FACE
- FT.=FOOT OR FEET
- FIN.=FINISH
- FL.=FLOOR
- FTG.=FOOTING
- FND.=FOUNDATION
- GALV.=GALVANIZED
- GA.=GAUGE
- GR.=GRADE
- G.B.=GRADE BEAM
- G.P.=GUSSET PLATE
- HI.=HIGH
- H.L.=HUNG LINTEL
- HT.=HEIGHT
- H.P.=HIGH POINT
- H.S.=HIGH STRENGTH
- H.E.F.=HORIZONTAL EACH FACE
- H.I.F.=HORIZONTAL INSIDE FACE
- H.O.F.=HORIZONTAL OUTSIDE FACE
- HOR.=HORIZONTAL
- IN.=INCH
- I.D.=INSIDE DIAMETER
- INV.=INVERT
- JT.=JOINT
- JST.=JOIST
- K.=KIP (1000 POUNDS)
- LO.=LOW
- L.W.=LIGHT WEIGHT
- L.W.C.=LIGHT WEIGHT CONCRETE
- L.L.V.=LONG LEG VERTICAL
- L.P.=LOW POINT
- MAS.=MASONRY
- MTL.=METAL
- NF.=NEAR FACE
- N.W.C.=NORMAL WEIGHT CONCRETE
- N.I.C.=NOT IN CONTRACT
- O.C.=ON CENTER
- O.D.=OUTSIDE DIAMETER
- OPNG.=OPENING
- P.C.=PILE CAP
- PL.=PLATE
- PT.=POINT
- P.T.=PRESSURE-TREATED
- PVC.=POLYVNYL CHLORIDE
- PSF.=POUNDS PER SQUARE FOOT
- PSI.=POUNDS PER SQUARE INCH
- R.=RADIUS
- REINF.=REINFORCED
- RETG.=RETAINING
- RET.=RETURN
- R.E.=RIGHT END
- SECT.=SECTION
- S.C.=SHEAR CONNECTOR
- SHT.=SHEET
- S.L.V.=SHORT LEG VERTICAL
- SIM.=SIMILAR
- S.O.G.=SLAB ON GRADE
- S.L.=SPLICE LENGTH
- SQ.=SQUARE
- STD.=STANDARD
- STL.=STEEL
- S.D.I.=STEEL DECK INSTITUTE
- S.F.=STEP FOOTING OR SQUARE FOOT
- STIFF.=STIFFENER
- STR.=STRUCTURAL
- SUP.=SUPPORT
- SYM.=SYMMETRICAL
- THK.=THICK OR THICKNESS
- THRD.=THREADED
- T&B.=TOP AND BOTTOM
- T.=TOP
- T/=TOP OF
- TO.=TOP OF
- T.O.C.=TOP OF CONCRETE
- T.O.F.=TOP OF FOUNDATION
- T.O.S.=TOP OF STEEL
- T.O.W.=TOP OF WALL
- TYP.=TYPICAL
- U.N.O.=UNLESS NOTED OTHERWISE
- U.O.N.=UNLESS OTHERWISE NOTED
- US.=UNDERSIDE
- V.E.F.=VERTICAL EACH FACE
- V.I.F.=VERIFY IN FIELD
- V.O.F.=VERTICAL OUTSIDE FACE
- W.W.F.=WELDED WIRE FABRIC
- W.W.M.=WELDED WIRE MESH
- W/=WITH
- W.P.=WORKING POINT

STRUCTURAL SYMBOLS
- MOMENT CONNECTION
- COLUMN ABOVE
- COLUMN BELOW
- STEEL BEAM PENETRATION
- STEEL COLUMN
- SPAN DIRECTION
- CHANGE IN STRUCTURE ELEVATION

ALL WORK ON THE STRUCTURAL DWGS. IS BY THE MECHANICAL CONTRACTOR. THIS INCLUDES ASBESTOS ABATEMENT, ROOF CUTTING, STEEL, STEEL SLEEVES, WALL PATCHING, ETC.



1 S-100 RTU AND CHILLER FRAMING PLAN

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

NOTES:
1. COORDINATE LOCATION OF DUNNAGE WITH MEP DRAWING SETS.
2. ALL STEEL SHOWN SHALL BE HOT-DIPPED GALVNIZED PAINT. HSS COLUMNS AND BASE PLATES CAN BE LEFT BARE BELOW LEVEL OF ROOF DECK.
3. "KB" INDICATES 4x4x¾" DIAGONAL BRACING. SEE DETAILS FOR CONNECTION.
4. MEP OPENINGS SHALL NOT CUT THROUGH EXISTING FRAMING.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
SED SUBMISSION	01/16/2024
BID SET	12/20/2023

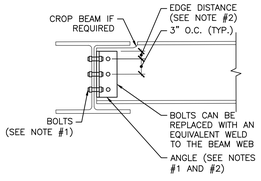
KEY PLAN

N

PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

GENERAL NOTES & RTU FRAMING PLAN

AH S-100

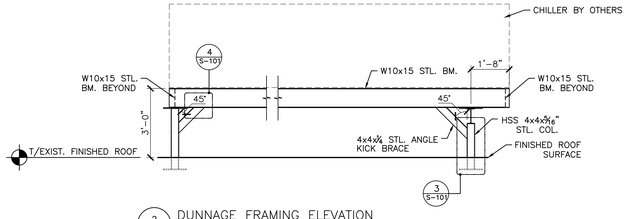


SHEAR CONNECTION TABLE W-SHAPE		
BEAM SIZE	DOUBLE ANGLE THICKNESS x	# OF A325N ¾"ø BOLTS
W10	½" x 6"	3

1 S-101 TYPICAL SHEAR CONNECTION DETAIL

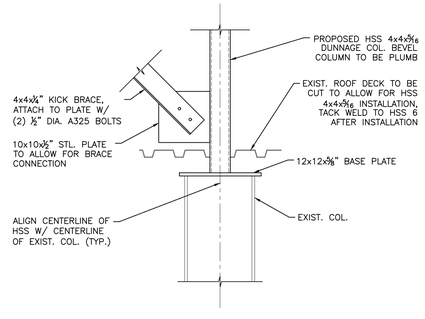
SCALE: N.T.S.

NOTES:
1. SEE THE SHEAR CONNECTION TABLE FOR THE ANGLE SIZE, BOLT TYPE, BOLT SIZE, ETC. NUMBER OF BOLTS IS SHOWN FOR EACH MEMBER.
2. THE EDGE DISTANCE SHALL BE 1.75x BOLT ø, ½" MINIMUM.
3. SHEAR CONNECTIONS ARE SUBJECT TO CHANGE DURING SHOP DRAWING REVIEW.



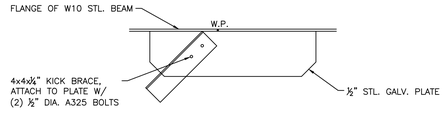
2 S-101 DUNNAGE FRAMING ELEVATION

SCALE: N.T.S.



3 S-101 TYP. DUNNAGE COLUMN CONNECTION DETAIL

SCALE: N.T.S.



4 S-101 TYP. KICK BRACE – BEAM CONNECTION DETAIL

SCALE: N.T.S.

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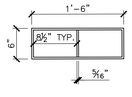
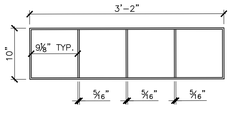


STRUCTURAL SLEEVE FOR 18"x6" OPENING

SCALE: 1" = 1'-0"

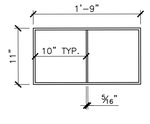
NOTES:
1. SEE MEP PLAN FOR LOCATIONS OF STRUCTURAL SLEEVES
2. ALL STEEL IS 3/16", VERTICAL AND HORIZONTAL, A36 STEEL PLATES. FILLET WELD ALL CONNECTIONS.



STRUCTURAL SLEEVE FOR 38"x10" OPENING

SCALE: 1" = 1'-0"

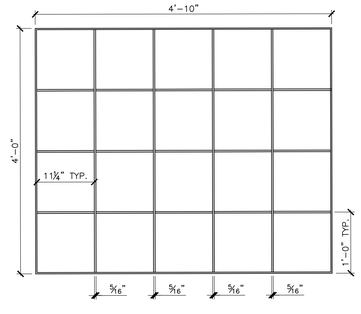
NOTES:
1. SEE MEP PLAN FOR LOCATIONS OF STRUCTURAL SLEEVES
2. ALL STEEL IS 3/16", VERTICAL AND HORIZONTAL, A36 STEEL PLATES. FILLET WELD ALL CONNECTIONS.



STRUCTURAL SLEEVE FOR 21"x11" OPENING

SCALE: 1" = 1'-0"

NOTES:
1. SEE MEP PLAN FOR LOCATIONS OF STRUCTURAL SLEEVES
2. ALL STEEL IS 3/16", VERTICAL AND HORIZONTAL, A36 STEEL PLATES. FILLET WELD ALL CONNECTIONS.



STRUCTURAL SLEEVE FOR 58"x48" OPENING

SCALE: 1" = 1'-0"

NOTES:
1. SEE MEP PLAN FOR LOCATIONS OF STRUCTURAL SLEEVES
2. ALL STEEL IS 3/16", VERTICAL AND HORIZONTAL, A36 STEEL PLATES. FILLET WELD ALL CONNECTIONS.

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HAUPPAUGE, NY 11762

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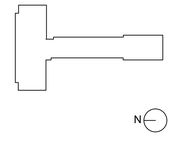

PROJECT NO.	66-03-01-03-0-001-024
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DETAILS & STRUCTURAL SLEEVE

AH S-101

MECHANICAL SYMBOLS - GENERAL

	NEW PIPING, DUCTWORK, OR EQUIPMENT
	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO REMAIN
—x—	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO BE REMOVED
	NEW EQUIPMENT
ER	EXISTING EQUIPMENT TO BE REMOVED
E	EXISTING EQUIPMENT TO REMAIN
ERR	EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
	CONTINUATION FOR DUCTWORK OR PIPING
AHU—1	TYPE OF EQUIPMENT (AIR HANDLING UNIT) UNIT NUMBER
	POINT OF CONNECTION (OF NEW WORK TO EXISTING WORK) OR POINT OF DISCONNECTION (TO REMOVE AND PATCH EXISTING WORK)
#	DRAWING NOTE TAG
1	REVISION SYMBOL
A / B	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A – SECTION DESIGNATION B – DRAWING NO.
T	THERMOSTAT (HAS DISPLAY, OCCUPANT ADJUSTMENT, OR BOTH) TO BE WALL MOUNTED. REFER TO PLANS FOR LOCATION.
TS	TEMPERATURE SENSOR (HAS NO DISPLAY OR OCCUPANT ADJUSTMENT) TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.
SD	DUCT MOUNTED SMOKE DETECTOR

MECHANICAL ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CV	CONSTANT VOLUME
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ER	EXISTING EQUIPMENT TO REMOVED
ERR	EXISTING EQUIPMENT TO REMOVED AND RELOCATED
EWT	ENTER WATER TEMPERATURE
FLA	FULL LOAD AMPS
FPI	FIN PER INCH
FTR	FIN TUBE RADIATION
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
HZ	HERTZ
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
MAU	MAKE—UP AIR UNIT
MBH	THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OED	OPEN END DUCT
PH	PHASE
PSI	POUND PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
RE:	REFER TO...
TYP	TYPICAL
VN	VENT
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN

MECHANICAL SYMBOLS - DUCTWORK

18X12	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
18ø	ROUND DUCT DIAMETER
	SUPPLY OR OUTSIDE AIR INTAKE DUCT UP
	SUPPLY OUTSIDE AIR INTAKE DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	ACOUSTICAL LINING IN DUCT
	TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT
AD	ACCESS DOOR IN DUCT
R	SLOPING RISE IN DUCT IN DIRECTION OF ARROW
D	SLOPING DROP IN DUCT IN DIRECTION OF ARROW
	MITERED ELBOW WITH TURNING VANES
	RADIUS ELBOW (INNER RADIUS = WIDTH)
	DUCT SPLIT
	90° BRANCH TAP (USE 45° BOOT, OR CONICAL TAP FOR BRANCH SERVING A SINGLE DIFFUSER/REGISTER ONLY)
	45° BRANCH TAP
	SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) RADIUS ELBOW TYPE
	SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) MITERED ELBOW TYPE WITH TURNING VANES
	SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) BULLHEAD TYPE
	OFFSET (WITH RADIUS ELBOWS)
	SUPPLY REGISTER
	RETURN OR EXHAUST REGISTER
VD	VOLUME DAMPER
FD	FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
M	MOTORIZED DAMPER W/DUCT ACCESS DOOR
FXC	FLEXIBLE CONNECTION
	FLEXIBLE DUCT
VD	MODULAR LINEAR DIFFUSER WITH PLENUM
VD	BRANCH TAKEOFF TO CEILING DIFFUSER/REGISTER
	SUPPLY CEILING DIFFUSER (4—WAY BLOW)
	SUPPLY CEILING DIFFUSER (3—WAY BLOW)
	SUPPLY CEILING DIFFUSER (2—WAY BLOW)
	SUPPLY CEILING DIFFUSER (1—WAY BLOW)
CD—B(500)	DIFFUSER TYPE AND CFM (CUBIC FEET PER MINUTE). REFER TO SCHEDULE.
	RETURN CEILING GRILLE OR REGISTER
VAV—B(500)	TERMINAL BOX (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE, AND CFM. QUANTITY (REFER TO SCHEDULES).
VAV—B(500)	TERMINAL BOX WITH REHEAT COIL (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE AND CFM. QUANTITY (REFER TO SCHEDULES).
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
OA	OUTSIDE AIR INTAKE DUCT
EXH	EXHAUST DUCT

MECHANICAL SYMBOL LIST - PIPING

	DIRECTION OF FLOW IN PIPE
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	FLEXIBLE CONNECTION
	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE (ARROW INDICATES FLOW DIRECTION)
	AUTOMATIC THREE—WAY CONTROL VALVE
	AUTOMATIC TWO—WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PLUG VALVE
	BUTTERFLY VALVE (MANUAL)
	CIRCUIT SETTER/BALANCING VALVE
	PIPE GUIDE
	EXPANSION JOINT
	CONCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
	ECCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
	UNION
	CAPPED PIPE
	"Y" TYPE STRAINER WITH BLOW DOWN VALVE
	PIPE SLEEVE
	PIPE FLANGE
	VALVE IN VERTICAL PIPE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL
	PRESSURE GAUGE WITH SHUT OFF VALVE
	PUMP
DTWS	DUAL—TEMPERATURE HOT/CHILLED WATER SUPPLY
DTWR	DUAL—TEMPERATURE HOT/CHILLED WATER RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
CD	CONDENSATE DRAIN LINE (GRAVITY)
PD	PUMPED DRAIN LINE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
GLR	GLYCOL WATER RETURN
GLS	GLYCOL WATER SUPPLY

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 2022 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

MECHANICAL DRAWING LIST

Sheet Number	Sheet Title
AH M001	MECHANICAL COVER SHEET
AH M002	MECHANICAL GENERAL NOTES
AH MD100	MECHANICAL DEMOLITION PLAN – GROUND FLOOR
AH MD101	MECHANICAL DEMOLITION PLAN – FIRST FLOOR
AH MD102	MECHANICAL DEMOLITION PLAN – ROOF
AH MD300	MECHANICAL DEMOLITION PART PLAN – BOILER ROOM
AH M100	MECHANICAL PLAN – GROUND FLOOR
AH M101	MECHANICAL PLAN – FIRST FLOOR
AH M102	MECHANICAL PLAN – ROOF
AH M300	MECHANICAL PART PLAN – BOILER ROOM
AH M601	MECHANICAL SCHEDULES
AH M602	MECHANICAL SCHEDULES
AH M603	MECHANICAL SCHEDULES
AH M701	MECHANICAL DETAILS
AH M702	MECHANICAL DETAILS
AH M703	MECHANICAL DETAILS
AH M704	MECHANICAL DETAILS

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

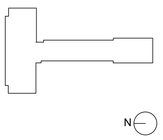
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUED FOR BID	11/06/2024
ISSUE	DATE

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL COVER SHEET

AH M001

MECHANICAL GENERAL NOTES

1. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF DUCTWORK AND PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT, DUCTWORK, AND PIPING FABRICATION SHOP DRAWING APPROVAL.
2. THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED SO AS TO REQUIRE THE MOST SUBSTANTIAL AND COMPREHENSIVE PERFORMANCE OF THE WORK, CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. IN THE CASE OF A DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, THE WORST CASE OR HIGHEST COST SHALL APPLY FOR BIDDING PURPOSES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY VIA RFI PRIOR TO PERFORMING THE ASSOCIATED WORK.
3. ANY MATERIAL, WORK, OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
4. DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHERE ACOUSTICALLY LINED DUCT IS SPECIFIED, OUTER DUCT DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING.
5. EACH CONTRACTOR WILL BE RESPONSIBLE FOR CLOSE COORDINATION WITH OTHER CONTRACTORS' WORK.
6. REFER TO APPROPRIATE SPECIFICATION SECTION FOR EQUIPMENT SELECTION PARAMETERS WHERE DRAWINGS DO NOT CONTAIN EQUIPMENT SCHEDULES.
7. FOR AIR SYSTEMS, THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BRANCH VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTWORK, REGARDLESS IF VOLUME DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL VOLUME DAMPERS SHALL BE ADJUSTABLE HANDLE TYPE FOR LAY-IN ACCESSIBLE CEILING OR CABLE OPERATED FOR CONCEALED TYPE OF CEILING. ALL BRANCH DUCT VOLUME DAMPERS SERVING DIFFUSERS IN GYPSUM BOARD CEILINGS (OR OTHERWISE INACCESSIBLE) SHALL BE REMOTELY (CORD OR CABLE) OPERABLE THROUGH THE FACE OF THE DIFFUSER.
8. INSTALL THERMOSTATS, FAN SPEED CONTROLLERS, AND OTHER ROOM OCCUPANT ADJUSTABLE CONTROLS WITH TOP OF DEVICE 4'-0" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT. COORDINATE EXACT LOCATIONS WITH THE ARCHITECTURAL PLANS. DEVICE COLORS TO BE SELECTED BY THE ARCHITECT. MANUFACTURER'S LOGO SHALL NOT BE EXPOSED.
9. WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
10. PROVIDE UL LISTED AND LABELED FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS, REGARDLESS IF FIRE DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 2 HOUR OR LESS RATING. PROVIDE 3 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 3 HOUR OR MORE RATING. ALL FIRE DAMPERS SHALL BE TYPE "B" WITH SHUTTER OUT OF AIRSTREAM, AND SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS 2,000 FT/MIN AND 4.0 IN-WC. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN GENERAL CONSTRUCTION.
11. PROVIDE UL LISTED AND LABELED COMBINATION FIRE/SMOKE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE AND SMOKE RATED WALLS AND FLOORS, REGARDLESS IF FIRE DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE PROVIDED WITH AN END SWITCH FOR STATUS SIGNAL TO THE BMS AND FIRE SMOKE CONTROL PANEL. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS 2,000 FT/MIN AND 4.0 IN-WC. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN GENERAL CONSTRUCTION.
12. PROVIDE FIRESTOPPING FOR ALL DUCT, PIPE, AND CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS.
13. WHERE DUCTS AND PIPES PENETRATE FIRE AND/OR SMOKE RATED WALLS, LEAVE A MINIMUM OF 2 INCHES CLEAR ABOVE THE DUCTS AND PIPES, SUCH THAT THE MECHANICAL CONTRACTOR CAN SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCTWORK THROUGH FIRE AND/OR SMOKE RATED WALLS.
14. PROVIDE ESCUTCHEON PLATES WHERE DUCTS OR PIPES PENETRATE CEILINGS, WALLS, OR FLOORS WHERE EXPOSED TO VIEW IN FINISHED AREAS. ESCUTCHEONS FOR DUCTS SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS DUCT. PIPE ESCUTCHEONS SHALL BE CHROME-PLATED BRASS.
15. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING THERMOSTATS FOR ANY EQUIPMENT THAT REQUIRES CONTROL, SUCH AS VAV BOXES, FCU, FANS, HEATERS, FINNED TUBE RADIATION, RTU'S, ETC., REGARDLESS IF THERMOSTATS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL THERMOSTATS SHALL BE DIRECT DIGITAL PROGRAMMABLE TYPE, UNLESS OTHERWISE NOTED. PROVIDE ONE THERMOSTAT FOR EACH FAN COIL UNIT, FAN UNIT, VAV, FPB, ENTRANCE HEATER, BASEBOARD RADIATION, ETC. THERMOSTAT LOCATIONS SHALL BE AS SHOWN ON PLANS AND/OR WHERE DIRECTED AND APPROVED BY THE ARCHITECT AND ENGINEER.
16. ALL DUCTWORK AND PIPING REQUIRING FIRE RATING AND WHERE SHOWN ON PLANS SHALL BE PROVIDED WITH UL LISTED FIRE-RATED DUCT WRAP WITH APPROPRIATE FIRE RATING (1-HOUR, 2-HOUR, ETC.), UNLESS A FIRE-RATED ARCHITECTURAL ENCLOSURE IN THAT LOCATION IS SPECIFIED WITHIN DRAWINGS AND SPECIFICATIONS FOR ANOTHER TRADE.
17. ALL LINEAR DIFFUSERS ARE TO BE COORDINATED WITH ARCHITECTURAL PLANS FOR EXACT LENGTHS AND LOCATIONS. ACTIVE PLENUM SECTIONS SHALL BE OF THE SIZES AS SHOWN ON PLANS. EACH BRANCH TAP SERVING THE LINEAR DIFFUSER SHALL BE PROVIDED WITH A VOLUME DAMPER WHICH SHALL BE OPERABLE THROUGH THE DIFFUSER FACE. ACTIVE SUPPLY SECTION OF LINEAR DIFFUSER SHALL BE PROVIDED WITH PATTERN CONTROL DEVICES AND EQUALIZING GRIDS. ACTIVE OR INACTIVE RETURN SECTIONS SHALL NOT BE FURNISHED WITH PATTERN CONTROL OR EQUALIZING GRIDS.
18. BORDER TYPES AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.
19. REFER TO SPECIFICATIONS FOR ACOUSTIC LINING REQUIREMENTS NOT SHOWN ON THE DRAWINGS.
20. FOR WATER SYSTEMS: THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BALL TYPE SHUT-OFF VALVES AND SEPARATE BALANCING VALVE FOR ALL BRANCH PIPING REGARDLESS IF VALVES ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL SHUT-OFF VALVES SHALL BE FULL PORT AND PRESSURE RATED FOR SYSTEM PRESSURE. THE BALANCING VALVE SHALL BE SIMILAR TO B&G CIRCUIT SETTER PLUS CALIBRATED BALANCE VALVE, UNLESS OTHERWISE NOTED.
21. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING SECONDARY DRAIN PANS FOR ALL AIR CONDITIONING CEILING HUNG EQUIPMENT REGARDLESS IF DRAIN PANS ARE NOT SHOWN IN CONTRACT DOCUMENTS. REFER TO DETAIL FOR INSTALLATION OF DRAIN PANS. IF NO DETAIL IS SHOWN, CONTRACTOR MUST REQUEST DRAIN PAN DETAIL THRU RFI PROCESS DURING BIDDING.
22. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING CONDENSATE PIPING FOR ALL COOLING TYPE EQUIPMENT REGARDLESS IF CONDENSATE PIPING IS NOT SHOWN IN CONTRACT DOCUMENTS. ALL CONDENSATE PIPING SHALL BE INSULATED AND ROUTED TO NEAREST DRAIN OR JANITORS CLOSET. IF NO CONDENSATE PIPING IS SHOWN, CONTRACTOR MUST REQUEST CONDENSATE PIPING ROUTING THRU RFI PROCESS DURING BIDDING.
23. GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
24. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
25. COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
26. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL, EXCEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
27. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
28. PROVIDE ACCESS PANELS IN DUCTS AND CEILINGS/SOFFITS/WALLS/FLOORS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS FOR ALL CONCEALED EQUIPMENT THAT REQUIRES PERIODIC SERVICE, INCLUDING AIR CONDITIONING UNITS, FANS, CONDENSATE PUMPS, FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, AND DUCT MOUNTED SMOKE DETECTORS. MATCH FIRE RATING OF CEILING/SOFFIT/WALL/FLOOR WHERE APPLICABLE.
29. PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
30. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
31. COORDINATE ALL ROOF PENETRATIONS WITH THE WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE ALL ROOF PENETRATION LOCATIONS WITH THE OWNER. NOTIFY THE OWNER PRIOR TO STARTING WORK AND VERIFY COMPLIANCE WITH BOND AND WARRANTY OF THE ROOF.
32. RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED, AND CLEAR OF CEILING INSERTS.
33. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND EQUIPMENT MANUFACTURERS' REQUIREMENTS.
34. PRIOR TO SUBMISSION OF SHOP DRAWINGS, COORDINATE WITH ELECTRICAL CONTRACTOR TO VERIFY VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT.
35. MOTOR STARTERS AND VARIABLE FREQUENCY DRIVES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED/WIRED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. COORDINATE AND VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO SHOP DRAWING SUBMISSION.
36. ALL DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED, INSTALLED, AND WIRED BY THE ELECTRICAL CONTRACTOR, UNLESS INTEGRAL TO HVAC EQUIPMENT OR OTHERWISE NOTED. COORDINATE AND VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO SHOP DRAWING SUBMISSION.
37. USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
38. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
39. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
40. DO NOT INSTALL DUCTWORK DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
41. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.
42. VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATED TYPE, WITH CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS AND CLEARLY LABELED FOR DIFFUSER OR REGISTER SERVED.
43. UNLESS OTHERWISE NOTED, ALL EXPOSED DUCTWORK IN FINISHED SPACES SHALL BE SPIRAL ROUND OR FLAT OVAL TYPE, WITH SOLID OUTER WALL, PERFORATED INNER WALL, 1 INCH THICK INTERSTITIAL ACOUSTICAL LINING, AND FLAT SEAMS.
44. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
45. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
46. CONDENSATE DRAIN (CD) AND CONDENSATE PUMP DISCHARGE (PD) PIPING SHALL BE RIGID COPPER, TYPE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED OR SOLDERED, WITH 1" INSULATION, UNLESS OTHERWISE NOTED ON DRAWINGS.
47. ALL NEW AND EXISTING INSULATED HVAC PIPING EXPOSED TO VIEW IN FINSHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.
48. WHERE EXISTING DUCTS, PIPES, LOUVERS, GRILLES, WIRES, CONDUITS, AND PNEUMATIC TUBING THROUGH EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS ARE REMOVED BY THE MECHANICAL CONTRACTOR, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INFILLING AND REPAIRING OPENINGS TO MATCH EXISTING CONSTRUCTION, INCLUDING FIRE RATING, SMOKE RATING, INSULATION VALUE, MOISTURE BARRIER, PAINTING, AND GENERAL FINISH APPEARANCE.
49. WHERE NEW DUCTS, PIPES, LOUVERS, GRILLES, WIRES, AND CONDUITS INSTALLED BY THE MECHANICAL CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW STRUCTURAL SLEEVES OR LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.
50. NEW AND EXISTING PERMANENT HVAC AIR EQUIPMENT MAY BE USED BY CONTRACTORS DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, AND VENTILATION, ONLY UNDER THE FOLLOWING CONDITIONS:
    - 50.1. CONTRACTOR TO PROVIDE TEMPORARY FILTERS IN EACH UNIT DURING CONSTRUCTION, WHICH SHALL BE REPLACED WITH NEW CLEAN FILTERS AFTER GENERAL CONSTRUCTION IS COMPLETED.
    - 50.2. CONTRACTOR TO PROVIDE FILTER FABRIC AT ALL RETURN AND EXHAUST REGISTERS, GRILLES, AND OPENINGS DURING CONSTRUCTION.
    - 50.3. THE WARRANTY PERIOD FOR ALL EQUIPMENT SHALL NOT BEGIN UNTIL CONSTRUCTION IS COMPLETED. IF THE EQUIPMENT MANUFACTURER'S WARRANTY PERIOD BEGINS WHILE THE UNIT USED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE WARRANTY TO PROVIDE THE FULL PERIOD OF COVERAGE TO THE OWNER.
    - 50.4. IF NEW PERMANENT HVAC AIR EQUIPMENT INSTALLED UNDER THIS PROJECT WILL NOT BE OPERATED BY THE CONTRACTOR DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS.
    - 50.5. IF THE ABOVE CONDITIONS ARE NOT MET, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY HEATING, COOLING, AND VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, PIPING, AND POWER AT HIS OWN EXPENSE.
    - 50.6. IF PERMANENT HVAC EQUIPMENT IS USED DURING CONSTRUCTION BUT NOT PROPERLY PROTECTED AS DESCRIBED ABOVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DUST AND DEBRIS FROM DUCTWORK AND EQUIPMENT, AS WELL AS ANY NECESSARY REPAIR OR REPLACEMENT OF DAMAGED EQUIPMENT AT HIS OWN EXPENSE.
    - 50.7. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS.

MECHANICAL DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES, SYMBOL LIST, AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2. ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED, AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
3. AFTER REMOVING PIPE THROUGH THE FLOOR SLABS, PACK OPENING WITH APPROVED FIRE-RATED PACKING.
4. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
5. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
6. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR, OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL REMOVE ALL DUCT AND PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
8. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REAVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
9. PORTIONS OF PIPING AND DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED, AND RECONNECTED.
10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE, SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE OWNER.
12. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
13. THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO A SHUTDOWN.
14. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
15. WHERE THE DEMOLITION OF EXISTING PNEUMATIC CONTROL EQUIPMENT, THERMOSTATS, OR TUBING IS INDICATED IN THE PLANS, THE CONTRACTOR SHALL CAP THE ENDS OF ALL EXISTING TO REMAIN PNEUMATIC LINES AIRTIGHT UNLESS OTHERWISE NOTED. IF ADDITIONAL PNEUMATIC LINES OR DEVICES ARE DISCOVERED BY THE CONTRACTOR INSIDE WALLS OR ABOVE CEILINGS DURING DEMOLITION, THE CONTRACTOR SHALL INFORM THE DESIGN TEAM PRIOR TO REMOVAL OF THESE LINES OR DEVICES.
16. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND RECONNECTION OF DIFFUSERS LOCATED WITHIN CEILINGS TO BE REMOVED/REPLACED THROUGHOUT.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THE MECHANICAL WORK. THIS INCLUDES:
A. CUTTING TO GAIN ACCESS FOR ROUGHING/UNITS.
B. PATCHING TO MATCH WITH LIKE MATERIALS/COLORS OF ANY SURFACES IMPACTED.
C. METAL CHASE ENCLOSURES OF ANY EXPOSED MECHANICAL PIPING.
D. EXISTING CEILING REMOVAL/REPLACEMENT WHERE NEEDED FOR MECHANICAL WORK.

MECHANICAL CONTRACTOR WILL RE-INSULATE ANY EXISTING HEATING PIPE ELBOWS AND PIPE RUNS WHICH WERE REMOVED BY ABATEMENT. SEE H-DRAWINGS FOR LOCATIONS AND SCOPE. ALL COSTS TO BE INCLUDED IN THE MECHANICAL CONTRACTORS BASE BID.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

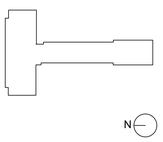
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

KEY PLAN

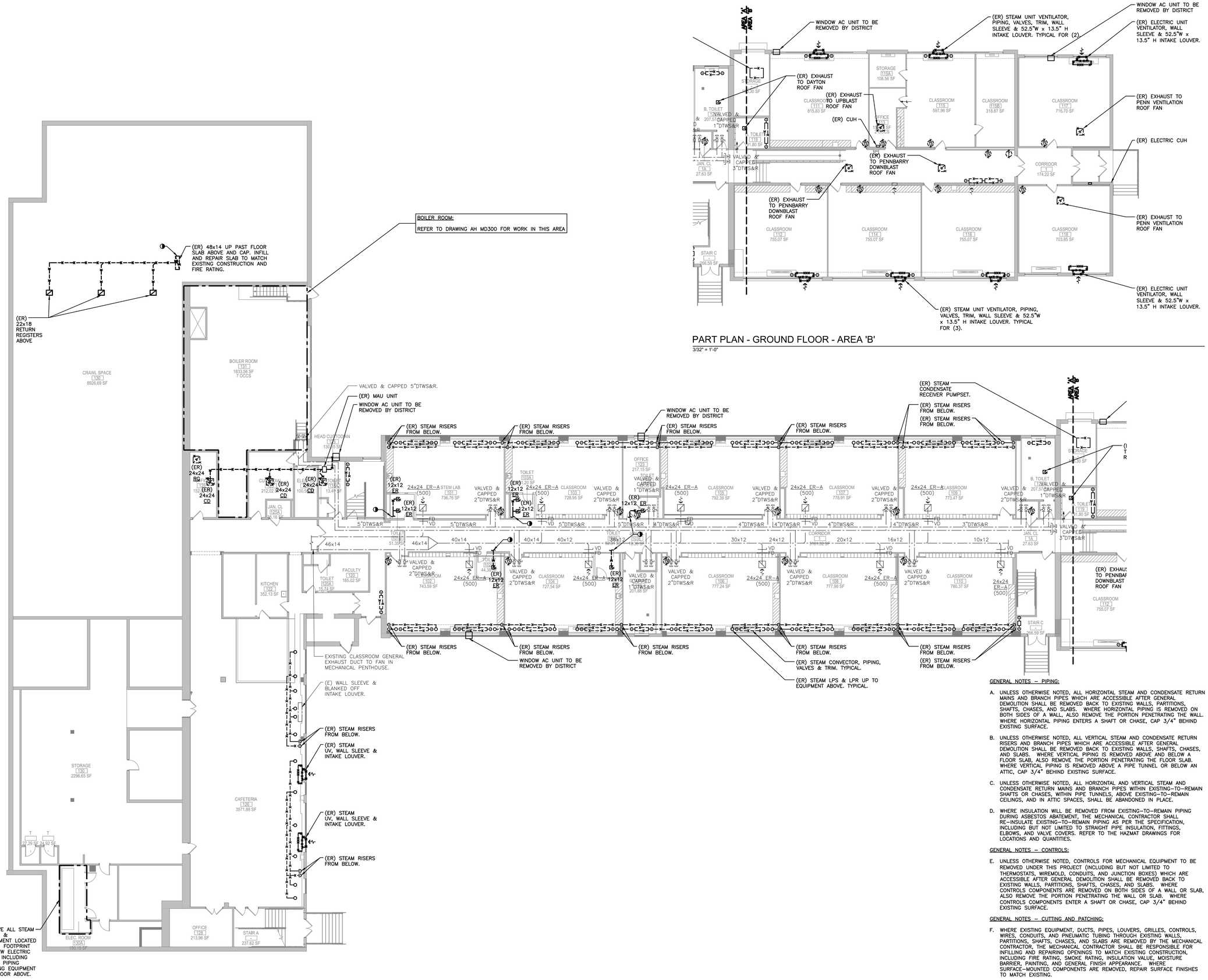


PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

MECHANICAL GENERAL NOTES

AH M002



PART PLAN - GROUND FLOOR - AREA 'B'

3/32" = 1'-0"

PART PLAN - GROUND FLOOR - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

A. UNLESS OTHERWISE NOTED, ALL HORIZONTAL STEAM AND CONDENSATE RETURN MAINS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS. WHERE HORIZONTAL PIPING IS REMOVED ON BOTH SIDES OF A WALL, ALSO REMOVE THE PORTION PENETRATING THE WALL. WHERE HORIZONTAL PIPING ENTERS A SHAFT OR CHASE, CAP 3/4" BEHIND EXISTING SURFACE.

B. UNLESS OTHERWISE NOTED, ALL VERTICAL STEAM AND CONDENSATE RETURN RISERS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, SHAFTS, CHASES, AND SLABS. WHERE VERTICAL PIPING IS REMOVED ABOVE AND BELOW A FLOOR SLAB, ALSO REMOVE THE PORTION PENETRATING THE FLOOR SLAB. WHERE VERTICAL PIPING IS REMOVED ABOVE A PIPE TUNNEL OR BELOW AN ATTIC, CAP 3/4" BEHIND EXISTING SURFACE.

C. UNLESS OTHERWISE NOTED, ALL HORIZONTAL AND VERTICAL STEAM AND CONDENSATE RETURN MAINS AND BRANCH PIPES WITHIN EXISTING–TO–REMAIN SHAFTS OR CHASES, WITHIN PIPE TUNNELS, ABOVE EXISTING–TO–REMAIN CEILINGS, AND IN ATTIC SPACES, SHALL BE ABANDONED IN PLACE.

D. WHERE INSULATION WILL BE REMOVED FROM EXISTING–TO–REMAIN PIPING DURING ASBESTOS ABATEMENT, THE MECHANICAL CONTRACTOR SHALL RE–INSULATE EXISTING–TO–REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES.

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GENERAL NOTES – CUTTING AND PATCHING:

F. WHERE EXISTING EQUIPMENT, DUCTS, PIPES, LOUVERS, GRILLES, CONTROLS, WIRES, CONDUITS, AND PNEUMATIC TUBING THROUGH EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS ARE REMOVED BY THE MECHANICAL CONTRACTOR, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INFILLING AND REPAIRING OPENINGS TO MATCH EXISTING CONSTRUCTION, INCLUDING FIRE RATING, SMOKE RATING, INSULATION VALUE, MOISTURE BARRIER, PAINTING, AND GENERAL FINISH APPEARANCE. WHERE SURFACE–MOUNTED COMPONENTS ARE REMOVED, REPAIR SURFACE FINISHES TO MATCH EXISTING.

G. MECHANICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE MECHANICAL REMOVALS SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

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REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
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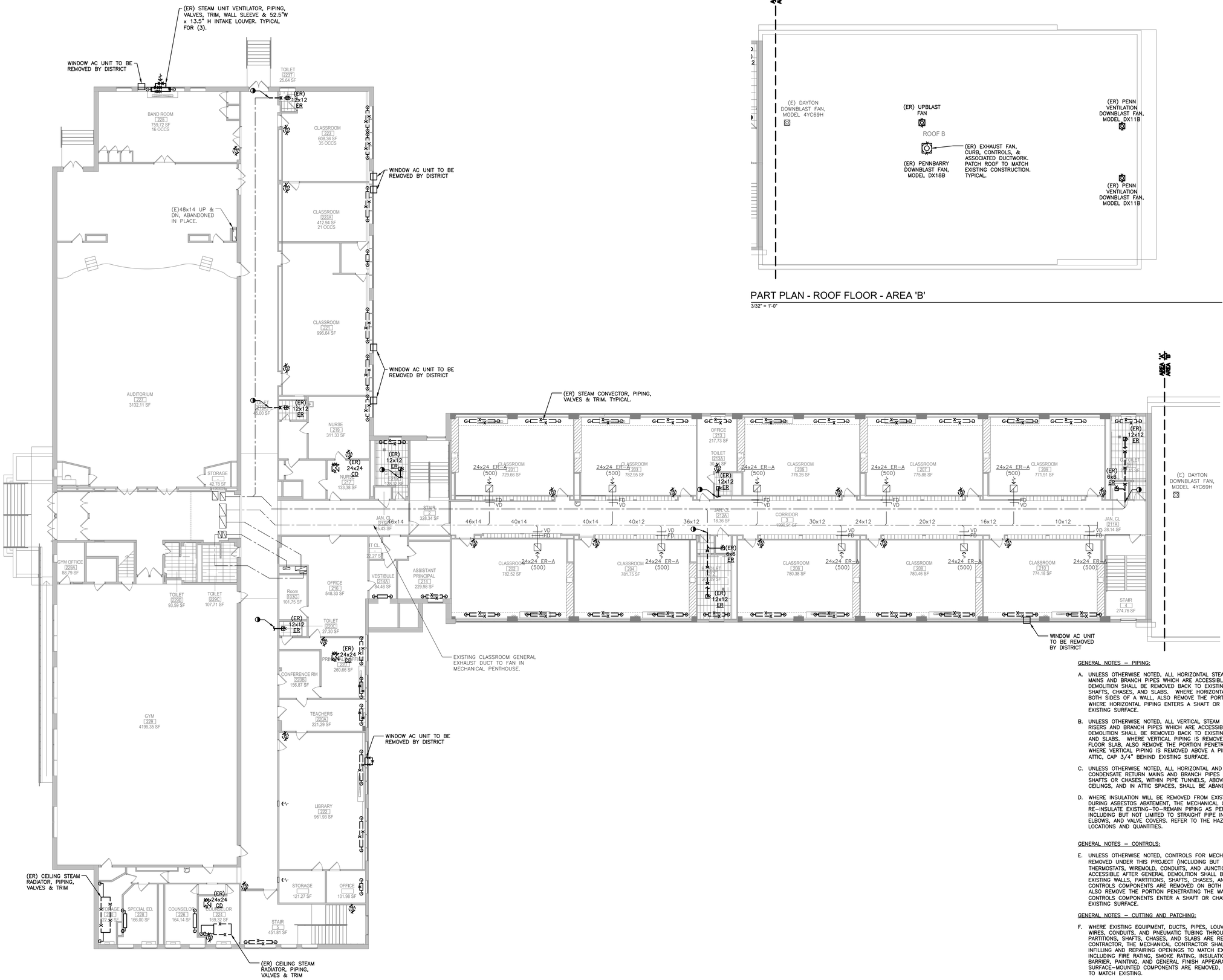
PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

MECHANICAL DEMOLITION PLAN - GROUND FLOOR

AH MD100



PART PLAN - FIRST FLOOR - AREA 'A'

3/32" = 1'-0"

PART PLAN - ROOF FLOOR - AREA 'B'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

A. UNLESS OTHERWISE NOTED, ALL HORIZONTAL STEAM AND CONDENSATE RETURN MAINS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS. WHERE HORIZONTAL PIPING IS REMOVED ON BOTH SIDES OF A WALL, ALSO REMOVE THE PORTION PENETRATING THE WALL. WHERE HORIZONTAL PIPING ENTERS A SHAFT OR CHASE, CAP 3/4" BEHIND EXISTING SURFACE.

B. UNLESS OTHERWISE NOTED, ALL VERTICAL STEAM AND CONDENSATE RETURN RISERS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, SHAFTS, CHASES, AND SLABS. WHERE VERTICAL PIPING IS REMOVED ABOVE AND BELOW A FLOOR SLAB, ALSO REMOVE THE PORTION PENETRATING THE FLOOR SLAB. WHERE VERTICAL PIPING IS REMOVED ABOVE A PIPE TUNNEL OR BELOW AN ATTIC, CAP 3/4" BEHIND EXISTING SURFACE.

C. UNLESS OTHERWISE NOTED, ALL HORIZONTAL AND VERTICAL STEAM AND CONDENSATE RETURN MAINS AND BRANCH PIPES WITHIN EXISTING–TO–REMAIN SHAFTS OR CHASES, WITHIN PIPE TUNNELS, ABOVE EXISTING–TO–REMAIN CEILINGS, AND IN ATTIC SPACES, SHALL BE ABANDONED IN PLACE.

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MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
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HAUPPAUGE, NY 11762

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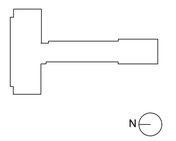
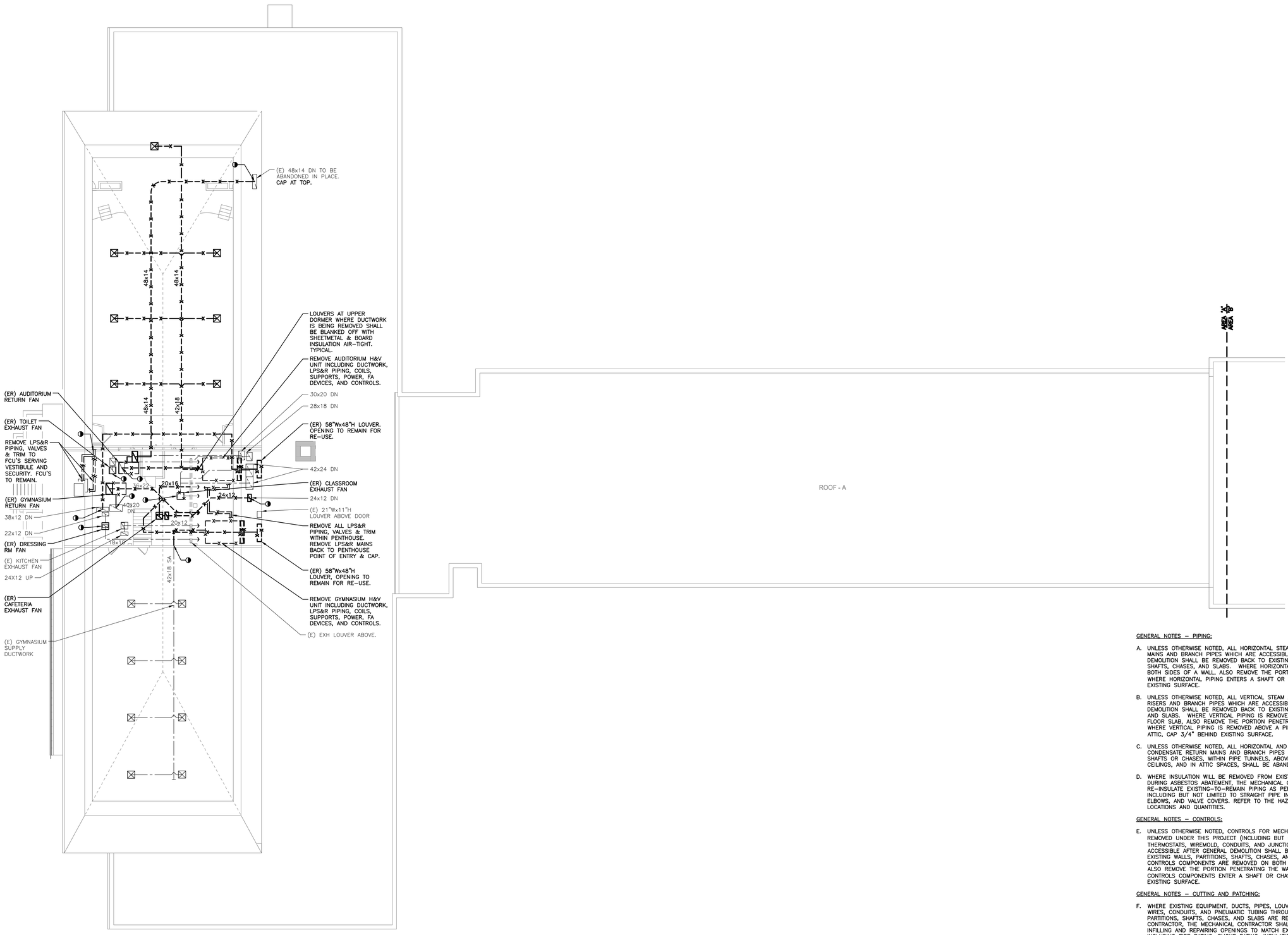


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL DEMOLITION PLAN - FIRST FLOOR

AH MD101



PART PLAN - ROOF - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

A. UNLESS OTHERWISE NOTED, ALL HORIZONTAL STEAM AND CONDENSATE RETURN MAINS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS. WHERE HORIZONTAL PIPING IS REMOVED ON BOTH SIDES OF A WALL, ALSO REMOVE THE PORTION PENETRATING THE WALL. WHERE HORIZONTAL PIPING ENTERS A SHAFT OR CHASE, CAP 3/4" BEHIND EXISTING SURFACE.

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ARCHITECT

MEMASI

2 LYON PLACE
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914.915.9519
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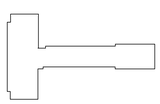
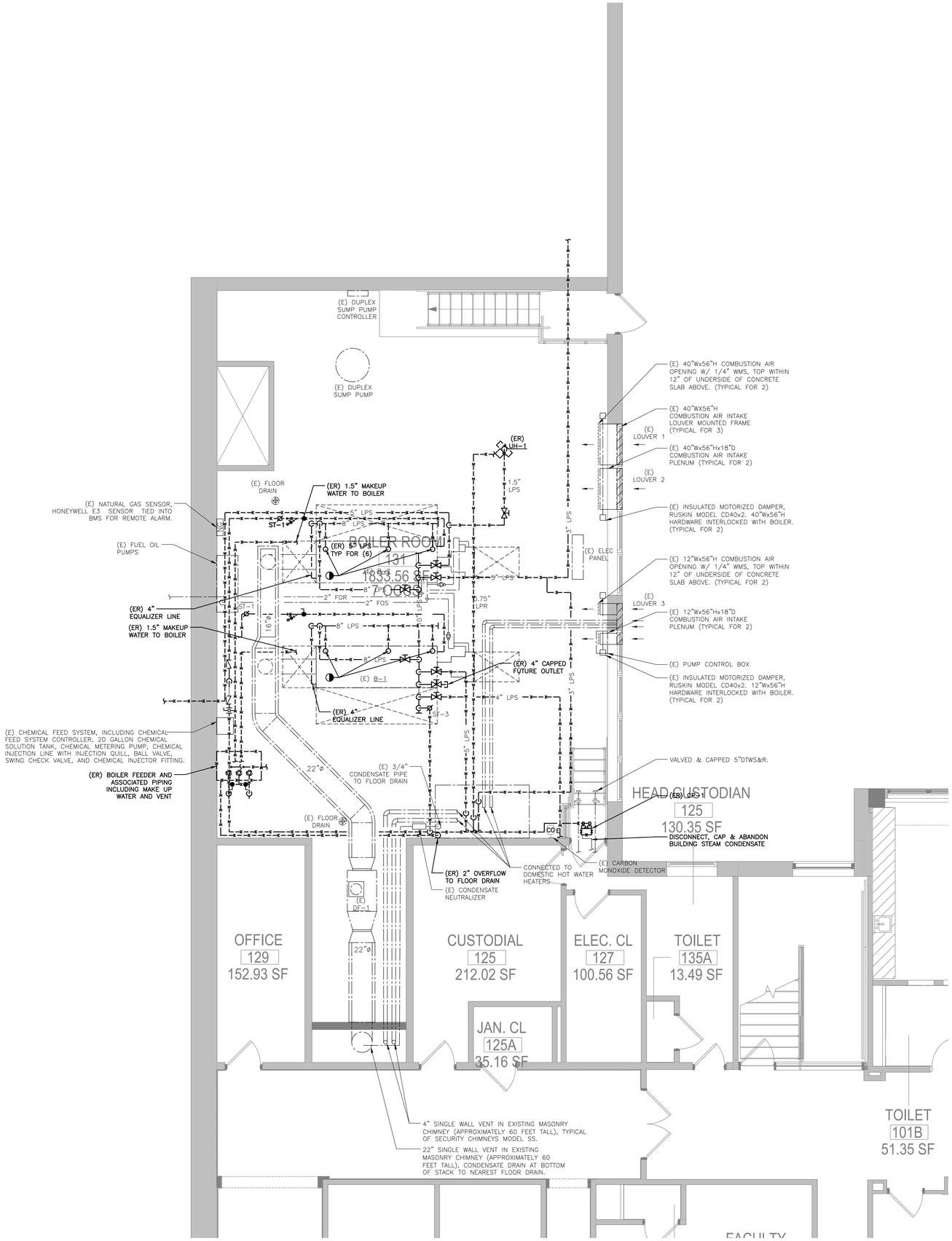


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL DEMOLITION PLAN - ROOF

AH MD102



PART PLAN - GROUND FLOOR - BOILER ROOM

1/4" = 1'-0"

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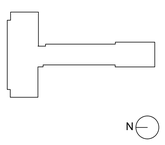
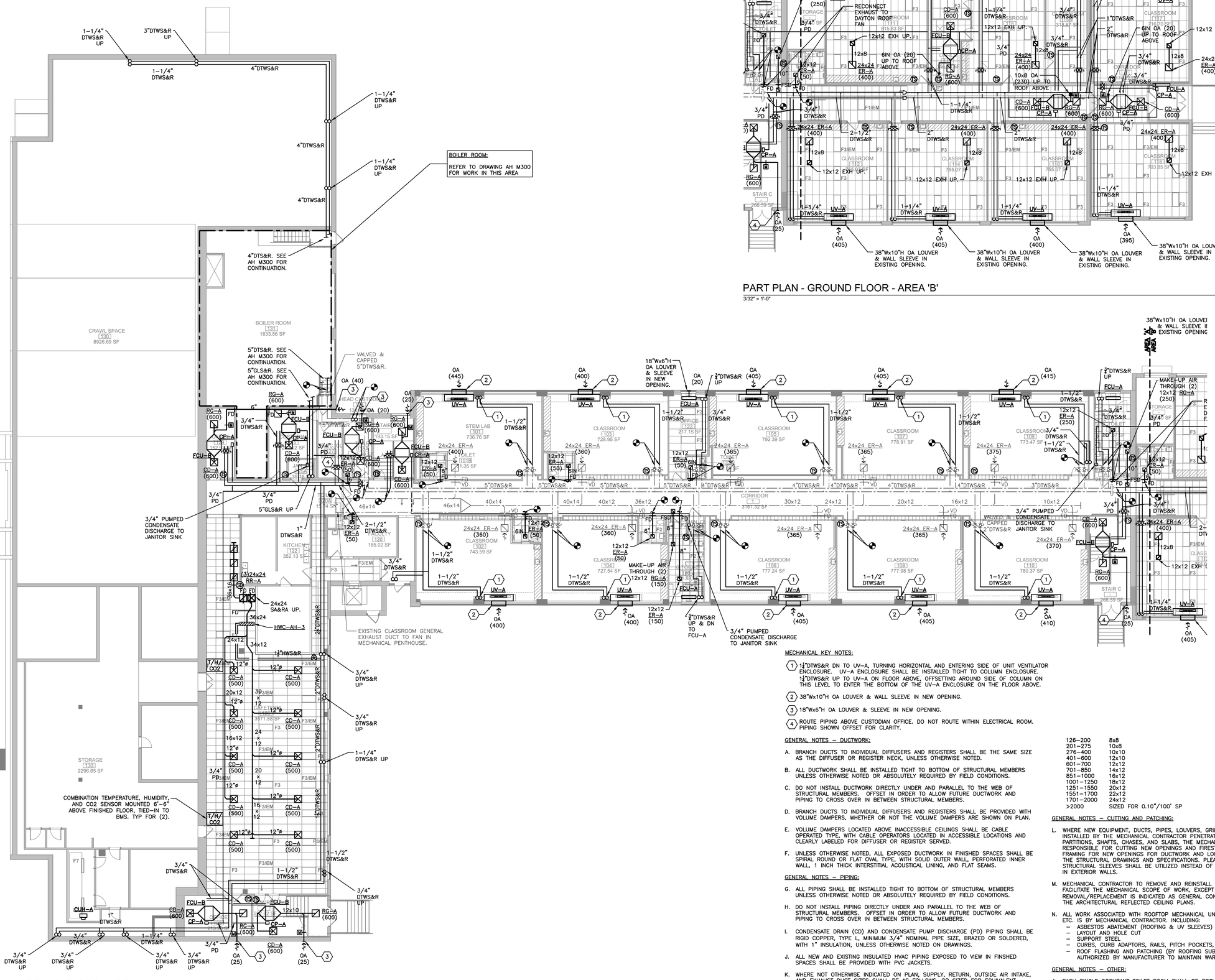


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL DEMOLITION PART PLAN - BOILER ROOM

AH MD300



PART PLAN - GROUND FLOOR - AREA 'A'

3/32" = 1'-0"

PART PLAN - GROUND FLOOR - AREA 'B'

3/32" = 1'-0"

MECHANICAL KEY NOTES:

1. 1½"DTWS&R DN TO UV-A, TURNING HORIZONTAL AND ENTERING SIDE OF UNIT VENTILATOR ENCLOSURE. UV-A ENCLOSURE SHALL BE INSTALLED TIGHT TO COLUMN ENCLOSURE. 1½"DTWS&R UP TO UV-A ON FLOOR ABOVE, OFFSETTING AROUND SIDE OF COLUMN ON THIS LEVEL TO ENTER THE BOTTOM OF THE UV-A ENCLOSURE ON THE FLOOR ABOVE.
2. 38"Wx10"H OA LOUVER & WALL SLEEVE IN NEW OPENING.
3. 18"Wx6"H OA LOUVER & SLEEVE IN NEW OPENING.
4. ROUTE PIPING ABOVE CUSTODIAN OFFICE. DO NOT ROUTE WITHIN ELECTRICAL ROOM. PIPING SHOWN OFFSET FOR CLARITY.

GENERAL NOTES – DUCTWORK:

A. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.

B. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

C. DO NOT INSTALL DUCTWORK DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

D. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.

E. VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATED TYPE, WITH CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS AND CLEARLY LABELED FOR DIFFUSER OR REGISTER SERVED.

F. UNLESS OTHERWISE NOTED, ALL EXPOSED DUCTWORK IN FINISHED SPACES SHALL BE SPIRAL ROUND OR FLAT OVAL TYPE, WITH SOLID OUTER WALL, PERFORATED INNER WALL, 1 INCH THICK INTERSTITIAL ACOUSTICAL LINING, AND FLAT SEAMS.

GENERAL NOTES – PIPING:

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I. CONDENSATE DRAIN (CD) AND CONDENSATE PUMP DISCHARGE (PD) PIPING SHALL BE RIGID COPPER, TYPE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED OR SOLDERED, WITH 1" INSULATION, UNLESS OTHERWISE NOTED ON DRAWINGS.

J. ALL NEW AND EXISTING INSULATED HVAC PIPING EXPOSED TO VIEW IN FINSHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

K. WHERE NOT OTHERWISE INDICATED ON PLAN, SUPPLY, RETURN, OUTSIDE AIR INTAKE, AND EXHAUST DUCT SIZES SHALL BE AS FOLLOWS, OR SIZED FOR EQUIVALENT STATIC PRESSURE DROP. THESE SIZES ARE INSIDE CLEAR DIMENSIONS, AND OVERALL DIMENSIONS SHALL BE INCREASED AS NEEDED FOR ACOUSTICALLY LINED DUCTWORK:

CFM RANGE	DUCT SIZE WxH (INCHES)
0–85	6x6
86–125	8x6
126–200	8x8
201–275	10x8
276–400	10x10
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1251–1550	20x12
1551–1700	22x12
1701–2000	24x12
>2000	SIZED FOR 0.10"/100' SP

GENERAL NOTES – CUTTING AND PATCHING:

L. WHERE NEW EQUIPMENT, DUCTS, PIPES, LOUVERS, GRILLES, WIRES, AND CONDUITS INSTALLED BY THE MECHANICAL CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW FRAMING FOR NEW OPENINGS FOR DUCTWORK AND LOUVERS IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. PLEASE NOTE THAT PREFABRICATED STRUCTURAL SLEEVES SHALL BE UTILIZED INSTEAD OF LINTELS FOR NEW OPENINGS IN EXTERIOR WALLS.

M. MECHANICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE MECHANICAL SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

N. ALL WORK ASSOCIATED WITH ROOFTOP MECHANICAL UNITS, DUCTWORK COMPONENTS, ETC. IS BY MECHANICAL CONTRACTOR, INCLUDING:
- ASBESTOS ABATEMENT (ROOFING & UV SLEEVES)
- LAYOUT AND HOLE CUT
- SUPPORT STEEL
- CURBS, CURB ADAPTORS, RAILS, PITCH POCKETS, PIPE PENETRATIONS, ETC.
- ROOF FLASHING AND PATCHING (BY ROOFING SUBCONTRACTOR WHO IS AUTHORIZED BY MANUFACTURER TO MAINTAIN WARRANTY.

GENERAL NOTES – OTHER:

A. EACH SINGLE OCCUPANT TOILET ROOM SHALL BE PROVIDED WITH A DOOR UNDERCUT FOR MAKE-UP/TRANSFER AIR.

B. EACH MULTI-OCCUPANT TOILET ROOM SHALL BE PROVIDED WITH A TRANSFER DUCT WITH COMBINATION FIRE/SMOKE DAMPER AT THE CORRIDOR WALL PENETRATION.

EASTCHESTER UNION FREE SCHOOL DISTRICT

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MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
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MEMASIDESIGN.COM

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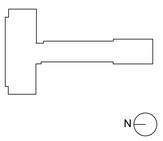
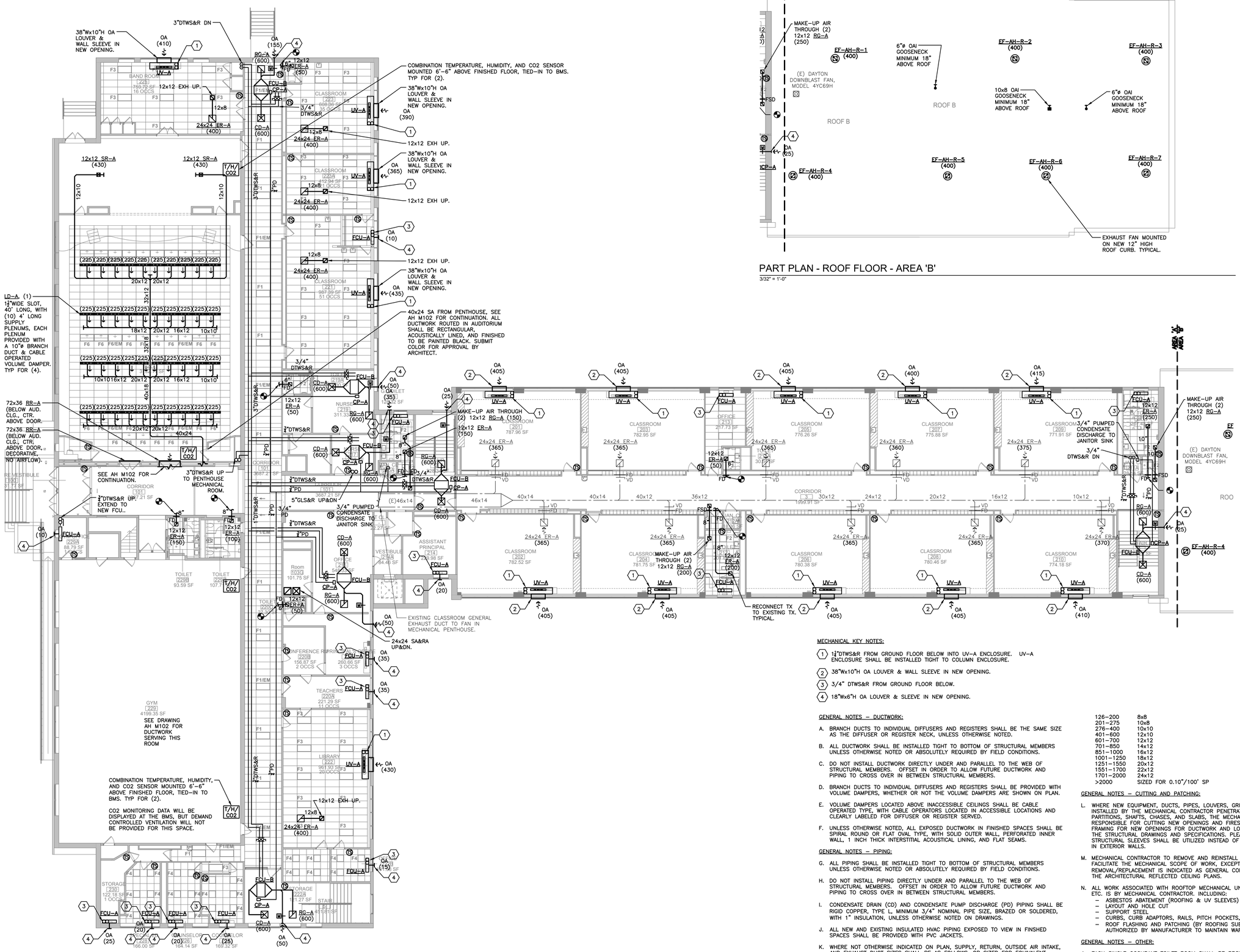
KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL PLAN - GROUND FLOOR

AH M100



PART PLAN - FIRST FLOOR - AREA 'A'

3/32" = 1'-0"

PART PLAN - ROOF FLOOR - AREA 'B'

3/32" = 1'-0"

MECHANICAL KEY NOTES:

1. 1½"DTWS&R FROM GROUND FLOOR BELOW INTO UV-A ENCLOSURE. UV-A ENCLOSURE SHALL BE INSTALLED TIGHT TO COLUMN ENCLOSURE.
2. 38"Wx10"H OA LOUVER & WALL SLEEVE IN NEW OPENING.
3. 3/4" DTWS&R FROM GROUND FLOOR BELOW.
4. 18"Wx6"H OA LOUVER & SLEEVE IN NEW OPENING.

GENERAL NOTES – DUCTWORK:

A. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.

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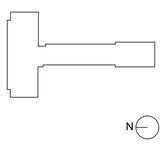

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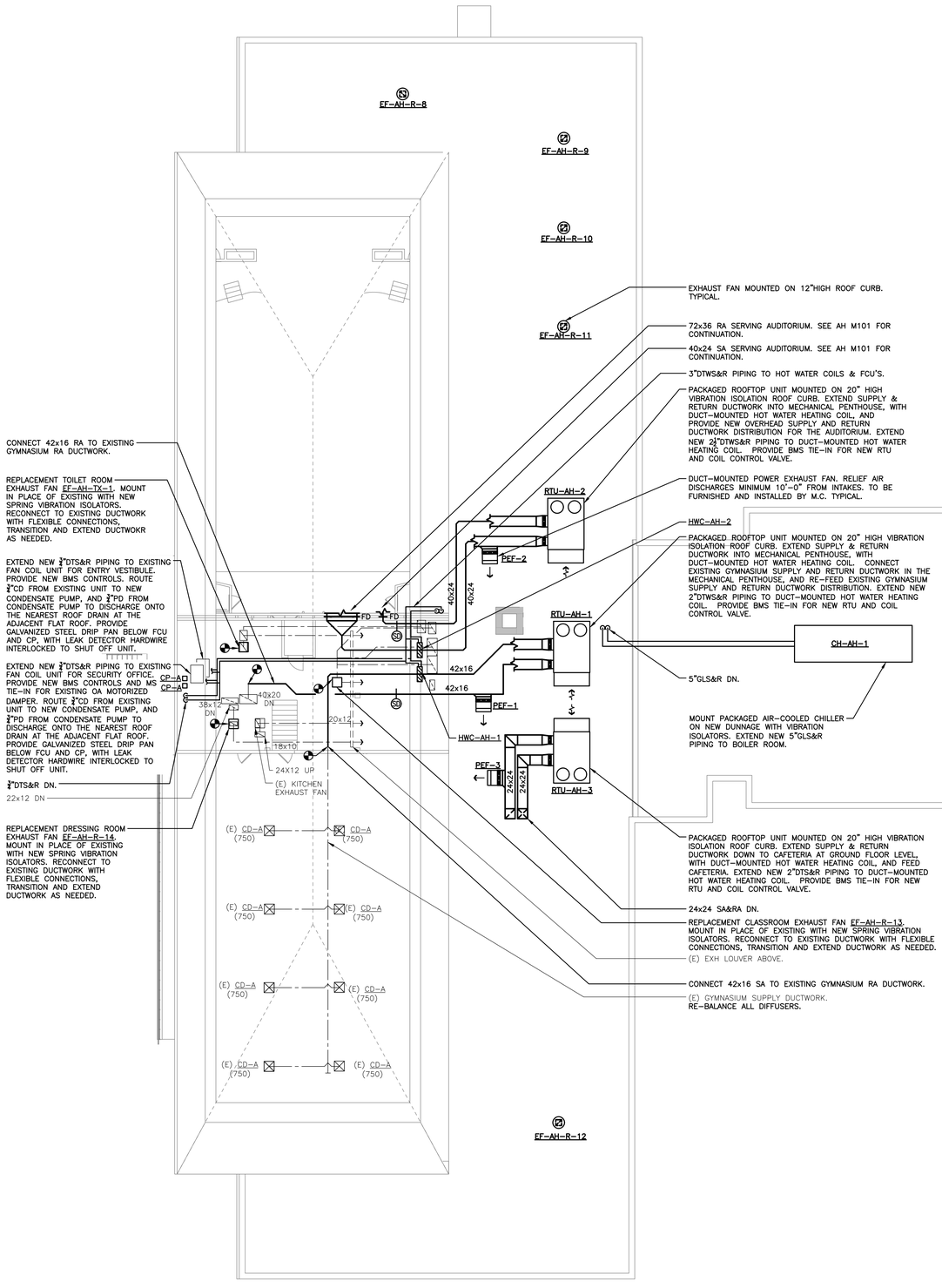
MECHANICAL PLAN - FIRST FLOOR

AH M101



PART PLAN - ROOF - AREA 'A'

3/32" = 1'-0"

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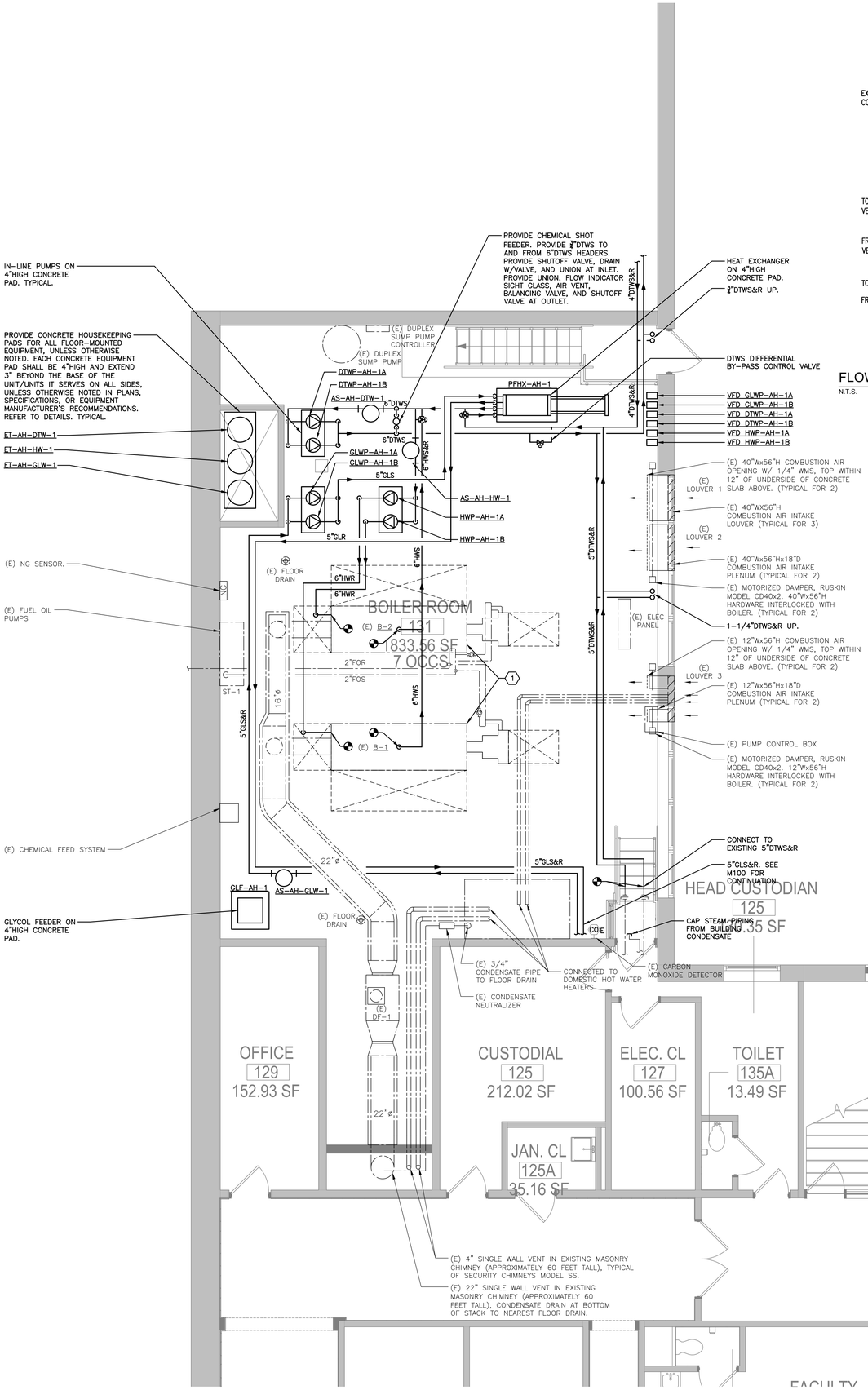
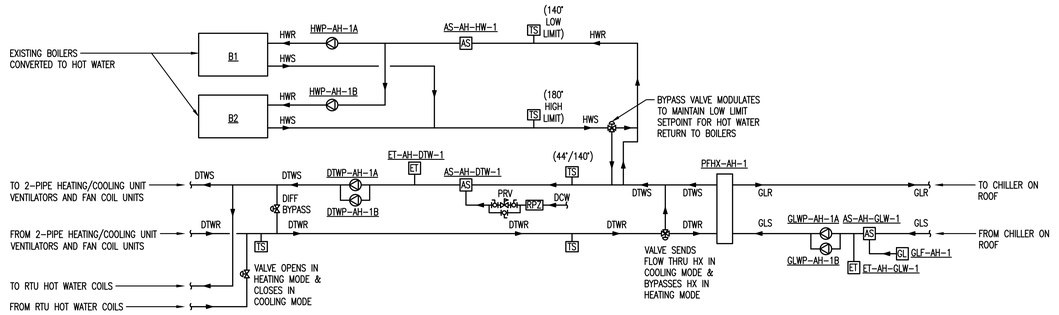
MECHANICAL PLAN - ROOF

AH M102



PART PLAN - GROUND FLOOR - BOILER ROOM

1/4" = 1'-0"



FLOW DIAGRAM

N.T.S.

GENERAL NOTES – DUCTWORK:

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L. MECHANICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE MECHANICAL SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

MECHANICAL KEY NOTES:

1 BOILER STEAM TO HOT WATER CONVERSION:
THE TWO EXISTING STEAM BOILERS WILL BE CONVERTED TO HOT WATER TYPE. THE CONVERSION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

a. REMOVAL OF THE BOILER STEAM RISERS, SUB-HEADER AND EQUALIZER PIPING
b. REMOVAL OF THE STEAM PRESSURE RELIEF VALVES
c. REMOVAL OF THE OPERATING, HIGH LIMIT BOILER PRESSURE CONTROLS
d. REMOVAL OF THE BOILER PRESSURE GAUGE
e. A COMPLETE CLEANING OF THE FIRESIDE OF THE BOILER TO INCLUDE BRUSH AND VACUUMING OF THE HEAT EXCHANGER AND RE-ASSEMBLY OF THE CLEAN OUT PASSAGES WITH NEW HIGH TEMPERATURE ROPE AS NEEDED
f. A COMPLETE CLEANING OF THE BOILER WATERSIDE TO INCLUDE WASHING, FLUSHING AND DE-SCALING OF THE HX IF NECESSARY
g. USING THE EXISTING THREADED 5" CONNECTION ON THE BOILER FRONT SECTION, PROVIDE A NEW SUPPLY PIPE TO THE HOT WATER SYSTEM, INCLUDING A FULL PORT BOILER ISOLATION VALVE. INSTALL NIPPLES AND CAPS ON THE 5" TAPS ON THE REMAINING INTERMEDIATE AND REAR SECTIONS WHERE APPLICABLE.
h. USING THE EXISTING THREADED 6" CONNECTION ON THE BOILER REAR SECTION BOTTOM, PROVIDE A NEW 6" PIPE HOT WATER RETURN CONNECTION, INCLUDE A FULL PORT BOILER ISOLATION VALVE. REFER TO PIPING DATA IN THE WEIL MCLAIN SERIES 88 O&m MANUAL.
i. FURNISH THE FOLLOWING NEW BOILER CONTROLS"
  i.a. HONEYWELL L4006A OPERATING CONTROL
  i.b. HONEYWELL L4006E HIGH LIMIT CONTROL
  i.c. TEMPERATURE SENSOR FOR EXISTING SIEMENS RWF 50 LOAD CONTROL LOCATED IN BURNER PANEL
  i.d. PRESSURE / TEMPERATURE GAUGE
  i.e. WATTS TYPE 750 PRESSURE RELIEF VALVE – 50 PSI WITH A MINIMUM RELIEVING CAPACITY OF 4,540 MBH OR GREATER
j. THE TWO EXISTING LOW WATER CUT OFFS ARE TO BE REMOVED AND REUSED ADDING MCDONNEL MILLER #TC-4 TEST AND CHECK VALVES TO EACH CONTROL
k. PROVIDE COMPLETE START UP AND TEST OF THE CONVERTED BOILER SYSTEM USING FACTORY AUTHORIZED SERVICE AGENT.

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BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

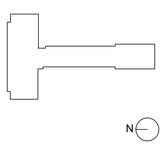
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

KEY PLAN



PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

MECHANICAL PART PLAN - BOILER ROOM

AH M300

AIR-COOLED CHILLER SCHEDULE

DESIGNATION	LOCATION	SERVICE	CONFIGURATION	DESIGN AMBIENT TEMP. DB (°F)	NOMINAL COOLING CAPACITY (TONS)	COOLING CAPACITY AT DESIGN CONDITIONS (TONS)	TOTAL POWER (KW)	LEED EER (BTU / W*H)	COOLING EER (BTU / W*H)	LEED IPLV.IP (BTU / W*H)	REFRIGERATION SYSTEM DATA: REFRIG. TYPE	COMPR. TYPE	NO. OF COMPR.	NO. OF REFRIG. CKTS.	CAPACITY CONTROL	NO. OF CONDENS. FANS	WATERSIDE DATA: FLUID TYPE	MAX WORKING PRESSURE (PSIG)	FLOW (GPM)	E.W.T. (°F)	L.W.T. (°F)	EVAP. W.P.D. (FT)	STR. W.P.D. (FT)	DIMENSIONS: HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	OPERATING WEIGHT (LBS)	ELECTRICAL DATA: VOLTS	PH	Hz	DISCONNECT: BY E.C OR MANUF.	LOCATION	TYPE	ENCL.	EMER. PWR.	MANUF.	MODEL	REMARKS
CH-AH-1	ROOF	CHILLED WATER FOR ELEMENTARY SCHOOL	OUTDOOR AIR-COOLED	95	160	135.1	165.05	10.373	9.885	17.009	R-454B	SCROLL	4	2	4-STAGE	8	35% PROPYLENE GLYCOL	150	290	54	42	10.4	5.5	98	88	229	7,897	208	3	60	E.C.	UNIT MTD.	NON-FUSED	NEMA 3R	NO	TRANE	ACS	SEE NOTES BELOW

NOTES:

1. PROVIDE THE FOLLOWING MANUFACTURER FEATURES AND OPTIONS:
   1.1. MICROPROCESSOR CONTROLS.
   1.2. BACNET OR BACNET IP COMMUNICATIONS ACCESSORY, OPTION PROVIDED TO BE COORDINATED WITH BMS VENDOR DURING SUBMITTALS.
   1.3. TRANE FACTORY SUPPLIED "SUPERIOR" NOISE REDUCTION PACKAGE, OR EQUIVALENT PERFORMANCE.
2. PROVIDE THE FOLLOWING FIELD ACCESSORIES:
   2.1. TIE-IN TO EXISTING BASE-BUILDING BMS.

PUMP SCHEDULE

DESIGNATION	LOCATION	SERVICE	STAGING	FLOW CONTROL	CONSTUCTION DATA: TYPE	INLET SIZE (IN)	OUTLET SIZE (IN)	IMPELLER DIA (IN)	PRESSURE RATING (PSI)	TEMP. FOR PRESSURE RATING (°F)	FLUID DATA: FLUID TYPE	FLUID TEMP (°F)	GPM	TDH (FT)	NPSHR (FT)	EFF. AT DESIGN (%)	MOTOR DATA: RPM	BHP	MOTOR HP	ELECTRICAL DATA: VOLTS	PH	Hz	DISCONNECT: BY E.C. OR MANUF.	LOCATION	TYPE	ENCL. TYPE	STARTER: BY M.C., E.C., OR MANUF.	LOCATION	TYPE	ENCL. TYPE	EMER. PWR. (Y/N)	DIMENSIONS: LENGTH OR DEPTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
HWP-AH-1A, HWP-AH-1B	ELEMENTARY SCHOOL BOILER ROOM	ELEMENTARY SCHOOL BOILER PUMPS	DUTY / STANDBY	VARIABLE FLOW	IN-LINE	6	6	10.2	175	250	WATER	180	430	30	5.01	79.8	1,048	4.08	5	208	3	60	M.C.	AT STARTER	NON-FUSED	NEMA 1	M.C.	BOILER ROOM	VFD W/O BYPASS	NEMA 1	N	32	17	31.75	131	ARMSTRONG	4380	
DTWP-AH-1A, DTWP-AH-1B	ELEMENTARY SCHOOL BOILER ROOM	ELEMENTARY SCHOOL DUAL TEMP LOOP	DUTY / STANDBY	VARIABLE FLOW	IN-LINE	3	3	5.0	175	250	WATER	44/140	300	70	15.2	81	3,354	6.90	10	208	3	60	M.C.	AT STARTER	NON-FUSED	NEMA 1	M.C.	BOILER ROOM	VFD W/O BYPASS	NEMA 1	N	14	17	27	131	ARMSTRONG	4380	
GLWP-AH-1A, GLWP-AH-1B	ELEMENTARY SCHOOL BOILER ROOM	ELEMENTARY SCHOOL CHILLER GLYCOL LOOP	DUTY / STANDBY	CONSTANT FLOW	IN-LINE	3	3	5.0	175	250	35% PROPYLENE GLYCOL	42	330	70	16.9	82	3,346	7.20	10	208	3	60	M.C.	AT STARTER	NON-FUSED	NEMA 1	M.C.	BOILER ROOM	VFD W/O BYPASS	NEMA 1	N	14	17	27	131	ARMSTRONG	4380	

PACKAGED ROOFTOP UNIT SCHEDULE (PART 1 OF 2)

DESIGNATION	LOCATION	AREA SERVED	NOMINAL COOLING CAPACITY (TONS)	DUCT CONNECTIONS: SUPPLY	RETURN	SUPPLY FAN DATA: SUPPLY AIRFLOW (CFM)	MIN. OUTSIDE AIRFLOW WITH DCV DISABLED (CFM)	MIN. OUTSIDE AIRFLOW WITH DCV ENABLED (CFM)	ESP (IN W.C.)	NO. OF FANS	NO. OF MOTORS	HP (PER MOTOR)	BHP (PER MOTOR)	FAN TYPE	DRIVE TYPE	STARTER TYPE	STARTER LOCATION	SPEED CONTROL
RTU-AH-1	ROOF	GYMNASIUM	17.5	HORIZONTAL	HORIZONTAL	6,000	1,720	N/A	1.50	2	2	3	3.328	BC PLENUM	DIRECT	VFD	UNIT MTD.	SZ-VAV
RTU-AH-2	ROOF	AUDITORIUM	25	HORIZONTAL	HORIZONTAL	9,550	3,885	780	1.50	2	2	4.6	6.208	BC PLENUM	DIRECT	VFD	UNIT MTD.	SZ-VAV
RTU-AH-3	ROOF	CAFETERIA	15	HORIZONTAL	HORIZONTAL	5,100	2,025	515	1.50	2	2	3	2.638	BC PLENUM	DIRECT	VFD	UNIT MTD.	SZ-VAV

DESIGNATION	DUCT-MOUNTED POWER EXHAUST FAN: EXHAUST AIRFLOW (CFM)	ESP (IN W.C.)	MOTOR HP	ELECTRICAL DATA: VOLTS	PH	Hz	FLA	DISCONNECT BY E.C. OR MANUF.	LOCATION	TYPE	ENCL. TYPE	EMER. PWR. (Y/N)	MANUFACTURER	MODEL
RTU-AH-1	5,000	0.3	1	208	3	60.00	1.70	E.C.	UNIT MTD.	NON-FUSED	NEMA 3R	N	PLENUMS INC.	PE2010F
RTU-AH-2	5,000	0.3	1	208	3	60.00	1.70	E.C.	UNIT MTD.	NON-FUSED	NEMA 3R	N	PLENUMS INC.	PE2010F
RTU-AH-3	4,000	0.3	0.75	208	3	60.00	1.50	E.C.	UNIT MTD.	NON-FUSED	NEMA 3R	N	PLENUMS INC.	PE1811F

DESIGNATION	DX COOLING DATA: REFRIG. TYPE	HIGH AMBIENT LIMIT FOR COOLING DB (°F)	LOW AMBIENT LIMIT FOR COOLING DB (°F)	EER AT AHRI COND.	IEER AT AHRI COND.	DESIGN AMBIENT TEMP. DB (°F)	NO. OF COMPR.	NO. OF REFRIG. CKTS.	CAPACITY CONTROL	NO. OF COND. FANS	GROSS TOT. MBH	GROSS SENS. MBH	NET TOT. MBH	NET SENS. MBH	E.A.T. DB (°F)	E.A.T. WB (°F)	COIL L.A.T. DB (°F)	COIL L.A.T. WB (°F)	UNIT L.A.T. DB (°F)	UNIT L.A.T. WB (°F)
RTU-AH-1	R-410A	95	0	12.2	21.2	95	2	1	3-STAGE	2	213	152	204	143	80	67	56	55	58	56
RTU-AH-2	R-410A	95	0	11.0	20.5	95	2	1	3-STAGE	2	279	203	266	190	80	67	59	57	61	58
RTU-AH-3	R-410A	95	0	12.7	24.8	95	1	1	3-STAGE	2	181	132	176	126	80	67	56	55	57	56

PACKAGED ROOFTOP UNIT SCHEDULE (PART 2 OF 2)

DESIGNATION	LOCATION	AREA SERVED	ELECTRICAL DATA (RTU): VOLTS	PH	Hz	MCA	MOP	DISCONNECT: BY E.C OR MANUF.	LOCATION	TYPE	ENCL. TYPE	EMER. PWR. (Y/N)	FILTERS: PRE-FILTER	MAIN FILTER	BASE DIMENSIONS (IN): WIDTH	LENGTH OR DEPTH	OPER. WEIGHT OF UNIT AND ROOF CURB (LBS)	MANUFACTURER	MODEL	REMARKS
RTU-AH-1	ROOF	GYMNASIUM	208	3	60	100	125	MANUF.	UNIT MTD.	NON-FUSED	NEMA 3R	N	2" MERV-8	4" MERV-13	123	87	2206	TRANE	TZJ210A	SEE NOTES BELOW
RTU-AH-2	ROOF	AUDITORIUM	208	3	60	120	150	MANUF.	UNIT MTD.	NON-FUSED	NEMA 3R	N	2" MERV-8	4" MERV-13	123	87	2214	TRANE	TZJ300A	SEE NOTES BELOW
RTU-AH-3	ROOF	CAFETERIA	208	3	60	90	125	MANUF.	UNIT MTD.	NON-FUSED	NEMA 3R	N	2" MERV-8	4" MERV-13	123	87	2,106	TRANE	TZJ180A	SEE NOTES BELOW

NOTES:

1. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR EACH UNIT:
   1.1. UNIT (INCLUDING ACCESS DOORS) SHALL BE CONSTRUCTED TO WITHSTAND WIND SPEED OF 130 MPH IN ACCORDANCE WITH STANDARD ASCE 7.
   1.2. DIGITAL PROGRAMMABLE CONTROLLER WITH BACNET COMMUNICATIONS INTERFACE FOR BMS TIE-IN.
   1.3. DUAL ENTHALPY AIRSIDE ECONOMIZER WITH FULLY MODULATING OUTSIDE AIR / RETURN AIR DAMPERS.
   1.4. HINGED ACCESS DOORS.
   1.5. 2" FIXED DEFLECTION VIBRATION ISOLATION ROOF CURB, MINIMUM 20" HIGH INCLUDING VIBRATION ISOLATION RAILS AND CLIPS, CONSTRUCTED AND INSTALLED TO WITHSTAND A WIND SPEED OF 130 MPH IN ACCORDANCE STANDARD ASCE 7.
   1.6. AIR INTAKE WEATHER HOOD WITH BIRDSCREEN TO FACILITATE AIRFLOW MEASURING STATION BY CONTROLS VENDOR.
   1.7. EXHAUST WEATHER HOOD WITH BIRDSCREEN.
   1.8. HOT GAS REHEAT
   1.9. POWER EXHAUST FAN WITH INTEGRAL DUCT CONNECTION FLANGE, STARTER, DISCONNECT, GRAVITY BACKDRAFT DAMPER, RAIN HOOD, AND BIRDSCREEN. FAN SHALL BE DUCT-MOUNTED, FACTORY-FURNISHED, FIELD-INSTALLED INCLUDING INTERCONNECTION CONTROL WIRING, WITH SEPARATE POWER FEED.

ELECTRIC CABINET UNIT HEATER SCHEDULE

DESIGNATION	MOUNTING TYPE (SURFACE/ RECESSED)	MOUNTING LOCATION (WALL/ CEILING)	LOCATION	HEATING CAPACITY (BTU/H)	AIRFLOW (CFM)	ELECTRICAL DATA: WATTS	VOLTS	PH	HZ	DISC. BY E.C. OR MANUF.	EMER. PWR. (Y/N)	FINISH COLOR	T-STAT TYPE (REMOTE/ BUILT-IN)	DIMENSIONS: BACK BOX HEIGHT (IN)	BACK BOX WIDTH (IN)	BACK BOX DEPTH OR LENGTH (IN)	GRILLE HEIGHT (IN)	GRILLE WIDTH (IN)	GRILLE DEPTH OR LENGTH (IN)	WEIGHT (LBS)	MANUF.	MODEL	REMARKS
CUH-A	SURFACE	WALL	RE: PLAN	5,100	65	1,500	120	1	60	MANUF.	N	WHITE	BUILT-IN	11	9	4	12	11	1	12	Q-MARK	CWH1151DSAF	SEE NOTES BELOW

NOTES:

1. PROVIDE THE FOLLOWING MANUFACTURER FEATURES AND OPTIONS FOR ALL UNITS:
   1.1. HEAT PURGE FAN DELAY SWITCH.
   1.2. BUILT-IN POWER ON/OFF SWITCH.
   1.3. THERMAL CUTOFF.
2. ALL FINISH COLORS ARE SUBJECT TO APPROVAL BY THE ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.
3. FOR ALL "WALL MOUNTED" UNITS, MOUNTING HEIGHT SHALL BE AS PER ARCHITECTURAL DRAWINGS. IF NO MOUNTING HEIGHT IS INDICATED ON ARCHITECTURAL DRAWINGS, MOUNT BOTTOM AT 12" AFF.
4. REFER TO PLANS FOR QUANTITIES AND LOCATIONS. SOME LETTER DESIGNATIONS IN THIS SCHEDULE MAY NOT BE APPLICABLE TO THIS SPECIFIC PROJECT.

EQUIPMENT NOTES

GLYCOL AUTO-FILL UNITS (GLF-AH-1):
SHALL BE ARMSTRONG MODEL GLA-U-HP-2, WITH 53 GALLON TANK CAPACITY, ADJUSTABLE 2-90 PSI FILL PRESSURE, 150 PSI MAXIMUM WORKING PRESSURE, DUAL 3/4 HP PUMPS (1 DUTY, 1 STANDBY) WITH CHANGE OVER UPON PUMP TRIP, 120V/1ϕ/60 Hz ELECTRICAL CONNECTION. PROVIDE THE FOLLOWING FEATURES & OPTIONS:

- LOW LEVEL CUT-OUT FLOAT SWITCH.
- PUMP SUCTION ISOLATION VALVE.
- PUMP SUCTION STRAINER.
- POWER ON LAMP.
- SYSTEM PRESSURE GAUGE.
- AUTO MIX VALVE.
- PUMP DISCHARGE ISOLATION VALVE.
- HIGH LEVEL WARNING FLOAT SWITCH.
- LOW LEVEL WARNING FLOAT SWITCH.
- CONTACTS FOR REMOTE ANNUNCIATION OF HIGH LEVEL, LOW LEVEL, & PUMP RUN.
- AUTO ALTERNATING PUMP CONTROLLER.
- PUMP H-O-A SWITCHES.
- STARTER & DISCONNECT SWITCH FOR EACH PUMP, TO BE FURNISHED BY MECHANICAL CONTRACTOR & INSTALLED BY ELECTRICAL CONTRACTOR.

LOUVERS - FOR UNIT VENTILATORS AND FAN COIL UNITS:
INTAKE AND EXHAUST LOUVERS SHALL BE GREENHECK MODEL ESD-202 OR APPROVED EQUAL, STATIONARY DRAINABLE BLADE TYPE. FRAME SHALL BE EXTRUDED 6063-T5 ALUMINUM, 2 INCH DEEP X 0.063 INCH THICK. BLADES SHALL BE EXTRUDED 6063-T5 ALUMINUM, 0.063 INCH THICK, POSITIONED AT 45 DEGREE ANGLE ON APPROXIMATELY 3 INCH CENTERS. BIRDSCREEN SHALL BE 3/4 INCH X 0.051 INCH FLATTENED ALUMINUM. MINIMUM SIZE SHALL BE 6" WIDE BY 6" HIGH. MAXIMUM SIZE FOR A SINGE SECTION SHALL BE 120" WIDE X 120" HIGH, WITH MULTIPLE SECTIONS PROVIDED WHERE LARGER DIMENSIONS ARE INDICATED ON THE DRAWINGS. FINISH SHALL BE MILL. FINISH COLOR SHALL BE INTEGRAL COLOR ANODIZED, WITH COLOR CHART SUBMITTED TO THE ARCHITECT FOR COLOR SELECTION PRIOR TO FABRICATION. FOR LOUVER TEST SECTION SIZE 48" WIDE X 48" HIGH, NET FREE AREA SHALL BE AT LEAST 38% OF GROSS AREA, POINT OF WATER PENETRATION SHALL BE AT LEAST 1,058 FEET PER MINUTE THROUGH THE NET FREE AREA PER AMCA TEST PROCEDURE, AND STATIC PRESSURE DROP SHALL NOT TO EXCEED 0.10 INCHES OF WATER COLUMN AT AN AIR VELOCITY OF 825 FEET PER MINUTE THROUGH THE NET FREE AREA. LOUVERS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR - REFER TO SPEC SECTION 089000 FOR ADDITIONAL INFORMATION AND INSTALLATION INSTRUCTIONS.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
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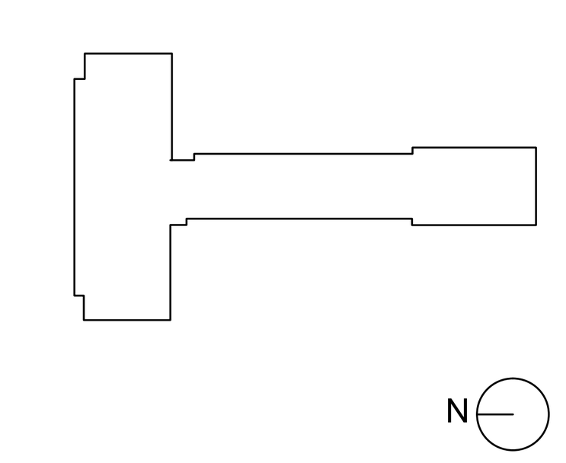


PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

MECHANICAL SCHEDULES

AH M601

UNIT VENTILATOR SCHEDULE

DESIGNATION	CONFIGURATION	AIR CONNECTIONS			SUPPLY FAN DATA										COILS					CHILLED WATER (OR DUAL TEMP) COIL COOLING DATA												HOT WATER (OR DUAL TEMP) COIL HEATING DATA								ELECTRICAL DATA								FILTER	UNIT OVERALL DIMENSIONS			WEIGHT	MANUFACTURER	MODEL	REMARKS
		SUPPLY	RETURN	OUTSIDE AIR	SUPPLY AIRFLOW (CFM)	FAN SPEED SETTING	MIN. OUTSIDE AIRFLOW (CFM)	ESP (IN WC)	NO. OF FANS	NO. OF MOTORS	HP (PER MOTOR)	BHP (PER MOTOR)	FAN TYPE	DRIVE TYPE	STARTER TYPE	STARTER LOCATION	STEAM	DX	CHILLED WATER	HOT WATER	DUAL TEMP HOT & CHILLED WATER	FLUID	ROWS	TOT. MBH	SENS. MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. DB (°F)	E.A.T. WB (°F)	L.A.T. DB (°F)	L.A.T. WB (°F)	W.P.D. (FT-WC)	FLUID	ROWS	MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. (°F)	L.A.T. (°F)	W.P.D. (FT-WC)	VOLTS	PH	Hz	BY E.C OR MANUF.	LOCATION	TYPE	ENCL. TYPE	EMER. PWR. (Y/N)	PRE-FILTER	WIDTH (IN)	HEIGHT (IN)	LENGTH OR DEPTH (IN)	(LBS)			
UV-A	VERTICAL	TOP GRILLE	LOW FRONT GRILLE	REAR DUCT COLLAR	1,150	MEDIUM	RE: PLANS	0	1	1	1/4	-	CENTRI-FUGAL	DIRECT	ECM	AT MOTOR	-	-	-	-	X	WATER	4	48.9	29.4	8.6	44	54	80	67	57	53	7.8	WATER	4	100.4	8.6	140	117	52	132	7.8	120	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N	1" MERV-13	105	30	21	470	TRANE	VUV-E-150	SEE NOTES BELOW
UV-B	HORIZONTAL CEILING RECESSED	FRONT DUCT COLLAR	BOTTOM GRILLE	TOP DUCT COLLAR	1,150	MEDIUM	RE: PLANS	0.30	1	1	1/4	-	CENTRI-FUGAL	DIRECT	ECM	AT MOTOR	-	-	-	-	X	WATER	4	48.9	29.4	8.6	44	54	80	67	57	53	7.8	WATER	4	100.4	8.6	140	117	52	132	7.8	120	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N	1" MERV-13	105	15	30	470	TRANE	HUV-E-150	SEE NOTES BELOW

NOTES:
1. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL UNITS:
   1.1. COMBINATION OUTSIDE AIR AND RETURN AIR MOTORIZED DAMPER, SINGLE BLADE, NO LINKAGE, FULLY MODULATING.
2. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR UV-A:
   2.1. FULL HEIGHT "FALSE BACK" ASSEMBLY WITH OUTSIDE AIR INTAKE PLENUM AT BACK OF UNIT. MOUNT UNIT TIGHT TO EXTERIOR WALL WITH GASKET.
3. PROVIDE THE FOLLOWING FIELD SUPPLIED OPTIONS:
   3.1. AUTOMATIC TEMPERATURE CONTROLS SUB-CONTRACTOR TO FURNISH AND FIELD-INSTALL BMS CONTROLS, DAMPER ACTUATORS, CONTROL VALVES, AND CONTROL WIRING.
4. FINISH COLOR SHALL BE "STONE GREY". SUBMIT COLOR CHART FOR APPROVAL.

FAN COIL UNIT SCHEDULE

DESIGNATION	CONFIGURATION	AIR CONNECTIONS			SUPPLY FAN DATA										COILS				CHILLED WATER (OR DUAL TEMP) COIL COOLING DATA												HOT WATER (OR DUAL TEMP) COIL HEATING DATA								ELECTRICAL DATA									FILTER	UNIT OVERALL DIMENSIONS			WALL OR CEILING OPENING DIMENSIONS			FACEPLATE DIMENSIONS		WEIGHT	MANUFACTURER	MODEL	REMARKS
		SUPPLY	RETURN	OUTSIDE AIR	SUPPLY AIRFLOW (CFM)	MIN. OUTSIDE AIRFLOW (CFM)	ESP (IN WC)	NO. OF FANS	NO. OF MOTORS	HP (PER MOTOR)	BHP (PER MOTOR)	FAN TYPE	DRIVE TYPE	STARTER TYPE	STARTER LOCATION	STEAM	CHILLED WATER	HOT WATER	DUAL TEMP HOT & CHILLED	FLUID	ROWS	TOT. MBH	SENS. MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. DB (°F)	E.A.T. WB (°F)	L.A.T. DB (°F)	L.A.T. WB (°F)	W.P.D. (FT-WC)	FLUID	ROWS	MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. (°F)	L.A.T. (°F)	W.P.D. (FT-WC)	VOLTS	PH	Hz	BY E.C OR MANUF.	LOCATION	TYPE	ENCL. TYPE	EMER. PWR. (Y/N)	PRE-FILTER	WIDTH (IN)	HEIGHT (IN)	LENGTH OR DEPTH (IN)	WIDTH (IN)	HEIGHT OR LENGTH (IN)	RECESS DISTANCE (IN)	WIDTH (IN)	HEIGHT OR LENGTH (IN)	(LBS)			
FCU-A	VERTICAL SLOPE TOP	TOP GRILLE	LOW FRONT GRILLE	REAR DUCT COLLAR	600	RE: PLANS	0	1	1	0.22	0.12	CENTRI-FUGAL	DIRECT	ECM	AT MOTOR	-	-	-	X	WATER	4	18.9	14.9	3.1	44	56	80	67	57	56	4.7	WATER	4		3.1			55		3.1	120	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N	1" MERV-13	48	29	10	-	-	-	-	-	155	TRANE	FC-J-B-060	SEE NOTES BELOW
FCU-B	HORIZONTAL CONCEALED	FRONT DUCT COLLAR	REAR DUCT COLLAR	TOP DUCT COLLAR	600	RE: PLANS	0.30	1	1	0.22	0.21	CENTRI-FUGAL	DIRECT	ECM	AT MOTOR	-	-	-	X	WATER	4	18.9	14.9	3.1	44	56	80	67	57	56	4.7	WATER	4		3.1			55		3.1	120	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA 1	N	1" MERV-13	47	10	25	-	-	-	-	-	139	TRANE	FC-C-B-060	SEE NOTES BELOW

NOTES:
1. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL UNITS WITH OUTSIDE AIR INTAKE CONNECTIONS:
   1.1. 2-POSITION OUTSIDE AIR MOTORIZED DAMPER AND ACTUATOR, "OPEN" POSITION FIELD ADJUSTIBLE FROM 0-50%.
2. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL FLOOR-MOUNTED UNITS:
   2.1. SUB-BASE, 4" HIGH.
3. PROVIDE THE FOLLOWING FIELD SUPPLIED OPTIONS FOR ALL UNITS:
   3.1. AUTOMATIC TEMPERATURE CONTROLS SUB-CONTRACTOR TO FURNISH AND FIELD-INSTALL BMS CONTROLS, CONTROL VALVES, AND CONTROL WIRING.
4. FINISH COLOR SHALL BE "STONE GREY" FOR FCU-A AND FCU-B. SUBMIT COLOR CHART FOR APPROVAL.

HOT WATER COIL SCHEDULE

DESIGNATION	LOCATION	AREA SERVED	AIR FLOW DATA			HOT WATER COIL DATA									COIL DIMENSIONS			WEIGHT (LBS)	TUBE MATERIAL	WALL THICKNESS	MANUFACTURER	MODEL	REMARKS
			AIR FLOW (CFM)	AIR VELOCITY (FPM)	MAX. AIR P.D. (IN W.C.)	FLUID	MBH	GPM	E.W.T. (°F)	L.W.T. (°F)	E.A.T. (°F)	L.A.T (°F)	MAX. W.P.D. (FT-WC)	ROWS	FINS PER INCH	WIDTH (IN)	HEIGHT (IN)	LENGTH OR DEPTH (IN)					
HWC-AH-1	MECHANICAL PENTHOUSE	RTU-AH-1	6,000	857	0.303	WATER	228.0	22.8	180	160.0	55	90.0	3.4	1	11	42	24	4	63	COPPER	.020	TRANE	D5WB24042	SEE NOTES BELOW
HWC-AH-2	MECHANICAL PENTHOUSE	RTU-AH-2	9,550	833	0.275	WATER	380.0	38.0	180	160.0	55	90.0	5.5	1	1	48	36	4	96	COPPER	.020	TRANE	D5WB36048	SEE NOTES BELOW
HWC-AH-3	MECHANICAL PENTHOUSE	RTU-AH-3	5,100	833	0.29	WATER	190.0	19.0	180	160.0	55	90.0	2.3	1	1	36	24	4	56	COPPER	.020	TRANE	D5WB24036	SEE NOTES BELOW

NOTES:
1. PROVIDE THE FOLLOWING FACTORY-SUPPLIED FEATURES AND OPTIONS FOR ALL UNITS: FLANGED TYPE CONNECTIONS.

CONDENSATE PUMP SCHEDULE

DESIGNATION	DISCHARGE FLOWRATE (GPH)	HEAD AT DESIGN FLOWRATE (FT-WC)	SHUT-OFF HEAD (FT-WC)	RESERVOIR CAPACITY (GAL)	WEIGHT (LBS)	MAX. FLUID TEMP. (°F)	MOTOR HP	ELECTRICAL DATA						MANUFACTURER	MODEL	REMARKS
								VOLTS	PH	Hz	FLA	DISCONNECT BY E.C. OR MANUF.	DISCONNECT ENCL. TYPE	EMER. PWR. (Y/N)			
CP-A	80	18	20	1.0	15	140	1/30	120	1	60	1.5	E.C.	NEMA 1	N	LITTLE GIANT	VCCA-20-P	SEE NOTES BELOW

NOTES:
1. PROVIDE THE FOLLOWING FACTORY FEATURES AND OPTIONS:
   1.1. UL 2043 PLENUM RATED, NON-COMBUSTIBLE CONSTRUCTION.
   1.2. CAST ALUMINUM RESERVOIR.
   1.3. STAINLESS STEEL SHAFT.
   1.4. AUXILARY SWITCH.
   1.5. THERMAL OVERLOAD PROTECTOR.
   1.6. HARD-WIRED, NO CORD OR PLUG.
   1.7. FILTER SCREEN.
2. PROVIDE THE FOLLOWING FIELD ACCESSORIES:
   2.1. CHECK VALVE.
   2.2. BALL VALVE.
3. REFER TO PLANS FOR QUANTITIES AND LOCATIONS.

AIR SEPARATOR SCHEDULE

DESIGNATION	LOCATION	CONFIGURATION	GPM	FLUID TYPE	MAX. WORKING TEMPERATURE (°F)	MAX. WORKING PRESSURE (PSI)	ASME SEC. VIII DIV.1 RATED (Y/N)	INTERNAL STRAINER (Y/N)	FLUID INLET & OUTLET SIZE (IN)	FLUID INLET & OUTLET CONFIG.	AIR OUTLET SIZE (IN)	AIR OUTLET CONFIG.	DRAIN SIZE (IN)	DRAIN CONFIG.	MANUFACTURER	MODEL	REMARKS
AS-AH-HW-1	ANNE HUTCH BOILER ROOM	VORTEX	430	WATER	375	165	Y	N	6	150# FLANGE	1-1/2	NPT	1	NPT	ARMSTRONG	VA-6	SEE NOTES BELOW
AS-AH-DTW-1	ANNE HUTCH BOILER ROOM	VORTEX	300	WATER	375	165	Y	N	5	150# FLANGE	1-1/2	NPT	1	NPT	ARMSTRONG	VA-5	SEE NOTES BELOW
AS-AH-GL-1	ANNE HUTCH BOILER ROOM	VORTEX	330	35% PROPYLENE GLYCOL	375	165	Y	N	5	150# FLANGE	1-1/2	NPT	1	NPT	ARMSTRONG	VA-5	SEE NOTES BELOW

NOTES:
1. PROVIDE AN AUTOMATIC AIR EMIMINATOR FOR EACH AIR SEPARATOR, ARMSTRONG MODEL AAE-750, WITH 250°F MAXIMUM OPERATING TEMPERATURE, 2-133 PSIG AIR PRESSURE OPERATING RANGE, 100% SPRING ACTION POSITIVE SHUTOFF, 3/4" NPT SYSTEM CONNECTION.

EXPANSION TANK SCHEDULE

DESIGNATION	LOCATION	CONFIGURATION	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAX. WORKING TEMPERATURE (°F)	MAX. WORKING PRESSURE (PSI)	ASME SEC. VIII DIV.1 RATED (Y/N)	SYSTEM CONN. SIZE (IN)	SYSTEM CONN. CONFIG.	CHARGING VALVE CONN. SIZE (IN)	CHARGING VALVE CONN. CONFIG.	DRAIN PLUG SIZE (IN)	DIMENSIONS DIAMETER (IN)	DIMENSIONS HEIGHT (IN)	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
ET-AH-GL-1	ANNE HUTCHINSON BOILER ROOM	FLOOR MOUNTED	53	48	240	125	Y	1/2	NPTF	1/2	NPTF	1/2	24	38	204	ARMSTRONG	200L	SEE NOTES BELOW
ET-AH-DTW-1	ANNE HUTCHINSON BOILER ROOM	FLOOR MOUNTED	211	190	240	125	Y	1/2	NPTF	1/2	NPTF	1/2	30	83	680	ARMSTRONG	800L	SEE NOTES BELOW

NOTES:
1. EACH UNIT SHALL BE FACTORY PRE-CHARGED TO 12 PSIG. CALCULATE, ADJUST, AND INCREASE CHARGE IN FIELD TO MAINTAIN SYSTEM PRESSURE OF 5 PSIG AT HIGHEST POINT OF ASSOCIATED HYDRONIC SYSTEM.

FAN SCHEDULE

DESIGNATION	LOCATION	AREA SERVED	SERVICE	CONFIGURATION	DRIVE TYPE	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN WC)	RPM	MHP	ELECTRICAL DATA														WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
										VOLTS	PH	Hz	DISCONNECT BY E.C. OR MANUF.	DISCONNECT LOCATION	DISCONNECT TYPE	DISCONNECT ENCLOSURE TYPE	STARTER BY M.C. OR MANUF.	STARTER LOCATION	STARTER TYPE	STARTER ENCLOSURE TYPE	EMER. POWER (Y/N)				
EF-AH-R-1	ROOF	CLASSROOM 111	SPILL AIR	UPBLAST	DIRECT	370	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-2	ROOF	CLASSROOM 115	SPILL AIR	UPBLAST	DIRECT	350	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-3	ROOF	CLASSROOM 117	SPILL AIR	UPBLAST	DIRECT	355	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-4	ROOF	CLASSROOM 112	SPILL AIR	UPBLAST	DIRECT	365	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-5	ROOF	CLASSROOM 114	SPILL AIR	UPBLAST	DIRECT	365	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-6	ROOF	CLASSROOM 116	SPILL AIR	UPBLAST	DIRECT	360	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-7	ROOF	CLASSROOM 118	SPILL AIR	UPBLAST	DIRECT	355	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-8	ROOF	BAND ROOM 225	SPILL AIR	UPBLAST	DIRECT	370	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-9	ROOF	CLASSROOM 223	SPILL AIR	UPBLAST	DIRECT	355	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-10	ROOF	CLASSROOM 223A	SPILL AIR	UPBLAST	DIRECT	330	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-11	ROOF	CLASSROOM 221	SPILL AIR	UPBLAST	DIRECT	390	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-12	ROOF	LIBRARY 222	SPILL AIR	UPBLAST	DIRECT	390	0.25	1,550	1/10	115	1	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	MANUF.	INTEGRAL TO MOTOR	ECM	NEMA 1	N	40	GREENHECK	CUE-080-VG	SEE NOTES BELOW
EF-AH-R-13	MECHANICAL PENTHOUSE	CLASSROOMS	SPILL AIR	UTILITY SET	BELT	7,400	2.00	1,100	5	208	3	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	M.C.	WALL MOUNTED	VFD WIBYPASS	NEMA 1	N	554	GREENHECK	USF-324-BI-X	SEE NOTES BELOW
EF-AH-R-14	MECHANICAL PENTHOUSE	DRESSING ROOMS	EXHAUST	UTILITY SET	BELT	1,100	2.00	2,177	1	208	3	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	M.C.	WALL MOUNTED	CONST. SPD WIHOA	NEMA 1	N	159	GREENHECK	USF-212-BI-X	SEE NOTES BELOW
EF-AH-TX-1	MECHANICAL PENTHOUSE	TOILET ROOMS	EXHAUST	UTILITY SET	BELT	1,600	2.00	2,177	1	208	3	60	MANUF.	UNIT MTD.	NON-FUSED	NEMA-3R	M.C.	WALL MOUNTED	CONST. SPD WIHOA	NEMA 1	N	159	GREENHECK	USF-212-BI-X	SEE NOTES BELOW

NOTES:
1. PROVIDE THE FOLLOWING FOR EACH ROOFTOP FAN:
   1.1. 12" HIGH ROOF CURB. ROOF HEAIGHT MEASURED FROM TOP OF ROOF SURFACE. INCREASE CURB HEIGHT AS NEEDED FOR ROOF INSULATION THICKNESS.
   1.2. MOTORIZED BACKDRAFT DAMPER
   1.3. ECM MOTOR CONTROLLER INTEGRAL TO FAN MOTOR, WITH CONTACTS SUITABLE FOR BMS TIE-IN, GREENHECK "VARI-GREEN" OR EQUAL.
2. PROVIDE THE FOLLOWING FOR EACH UTILITY SET FAN:
   2.1. MOTORIZED BACKDRAFT DAMPER
   2.2. MOTOR HOOD, ACCESS DOOR, BELT COVER.

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

DESIGNATION	LOCATION	CONSTRUCTION DATA															APPROACH TEMP. (°F)	HEAT TRANSFER (MBH)	SOURCE SIDE								LOAD SIDE								DIMENSIONS			OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
		PLATE MATERIAL	PLATE THICKNESS (MM)	SEAL MATERIAL	SINGLE OR DOUBLE WALL	POTABLE WATER RATED (Y/N)	MAX. OPERATING PRESSURE (PSI)	MAX. DIFFERENTIAL PRESSURE (PSI)	MAX. TEST PRESSURE (PSI)	MAX. OPERATING TEMP. (°F)	ASME RATED (Y/N)	AHRI RATED (Y/N)	DESIGN DUTY MARGIN (%)	DESIGN FOULING FACTOR	SURFACE AREA WITH DUTY MARGIN (SQ.F.T.)	DESIGN NO. OF PLATES	SPACE FOR FUTURE PLATES			SERVICE	FLUID	INLET PIPE CONN. (IN)	OUTLET PIPE CONN. (IN)	FLOW (GPM)	PRESS. DROP. (PSI)	E.W.T. (°F)	L.W.T. (°F)	SERVICE	FLUID	INLET PIPE CONN. (IN)	OUTLET PIPE CONN. (IN)	FLOW (GPM)	PRESS. DROP. (PSI)	E.W.T. (°F)	L.W.T. (°F)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)				
PFHX-AH-1	ELEMENTARY SCHOOL BOILER ROOM	304 SS	0.4	EPDM	SINGLE	NO	150	150	195	320	Y	Y	10	0.00011	2124.5	389	118	2.0	1,808	ELEMENTARY SCHOOL CHILLER GLYCOL LOOP	35% PROPYLENE GLYCOL	4	4	330	2.97	42.0	54.0	ELEMENTARY SCHOOL CHILLED WATER	WATER	4	4	300	2.06	56.0	44.0	100.6	20	73	4254	WESSELS	AWP47-96-389	SEE NOTES BELOW

NOTES:
1. PROVIDE FRAME WITH FUTURE EXPANSION CAPACITY FOR 25% ADDITIONAL PLATES, UNLESS OTHERWISE NOTED.
2. ALL PIPE CONNECTIONS SHALL BE ON FRONT FACE.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

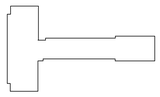
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUED FOR BID 11/06/2024

ISSUE DATE

KEY PLAN



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PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

MECHANICAL SCHEDULES

AH M602

VENTILATION SCHEDULE

BUILDING	LEVEL	AIR HANDLING SYSTEM DATA			ROOM DATA						OUTSIDE VENTILATION AIRFLOW REQUIRED PER THE 2020 NEW YORK STATE MECHANICAL CODE - SECTION 403				
		AIR HANDLING SYSTEM DESIGNATION	DESIGN SUPPLY AIRFLOW (CFM)	DESIGN OUTSIDE VENTILATION AIRFLOW (CFM)	ROOM NUMBER	ROOM NAME	FLOOR AREA (SQ.FT.)	NUMBER OF OCC.	DESIGN SUPPLY AIRFLOW (CFM)	DESIGN MINIMUM OUTSIDE VENTILATION AIRFLOW (CFM)	OUTSIDE VENTILATION AIRFLOW PER PERSON (CFM / PERSON)	OUTSIDE VENTILATION AIRFLOW PER SQUARE FOOT (CFM / SF)	ZONE AIR DISTRIBUTION EFFECTIVENESS	ROOM OUTSIDE VENTILATION AIRFLOW (CFM)	ROOM DESIGN OUTSIDE VENTILATION AIRFLOW MEETS OR EXCEEDS CODE REQUIREMENT (YES / NO)
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	445	101	STEM LAB	726	31	1,150	445	10	0.18	1	441	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	400	102	CLASSROOM	733	31	1,150	400	10	0.12	1	398	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	400	103	CLASSROOM	746	31	1,150	400	10	0.12	1	400	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	400	104	CLASSROOM	728	31	1,150	400	10	0.12	1	397	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	405	105	CLASSROOM	768	31	1,150	405	10	0.12	1	402	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	405	106	CLASSROOM	758	31	1,150	405	10	0.12	1	401	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	405	107	CLASSROOM	752	31	1,150	405	10	0.12	1	400	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	405	108	CLASSROOM	757	31	1,150	405	10	0.12	1	401	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	415	109	CLASSROOM	856	31	1,150	415	10	0.12	1	413	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	410	110	CLASSROOM	822	31	1,150	410	10	0.12	1	409	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	410	111	CLASSROOM	798	31	1,150	410	10	0.12	1	406	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	405	112	CLASSROOM	780	31	1,150	405	10	0.12	1	404	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	20	113	OFFICE	186	1	600	20	5	0.06	1	16	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	405	114	CLASSROOM	777	31	1,150	405	10	0.12	1	403	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	385	115	CLASSROOM	600	31	1,150	385	10	0.12	1	382	YES
ELEMENTARY SCHOOL	GROUND	FCU-A	600	15	115A	STORAGE	79	0	600	15	0	0.18	1	14	YES
ELEMENTARY SCHOOL	GROUND	FCU-A	1,150	350	115B	CLASSROOM	306	31	1,150	350	10	0.12	1	347	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	400	116	CLASSROOM	732	31	1,150	400	10	0.12	1	398	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	395	117	CLASSROOM	704	31	1,150	395	10	0.12	1	394	YES
ELEMENTARY SCHOOL	GROUND	UV-A	1,150	395	118	CLASSROOM	688	31	1,150	395	10	0.12	1	393	YES
ELEMENTARY SCHOOL	GROUND	FCU-A	600	20	123	OFFICE	199	1	600	20	5	0.06	1	17	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	25	125	CUSTODIAL	211	1	600	25	5	0.06	0.8	22	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	20	125	HEAD CUSTODIAN	148	1	600	20	5	0.06	0.8	17	YES
ELEMENTARY SCHOOL	GROUND	RTU-AH-3	5,100	2,025	126	CAFETERIA	2,866	147	5,100	2,025	7.5	0.18	0.8	2,023	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	25	128	OFFICE	235	1	600	25	5	0.06	0.8	24	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	20	129	OFFICE	153	1	600	20	5	0.06	0.8	18	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	25	-	STAIR A	280	0	600	25	0	0.06	0.8	21	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	15	-	STAIR B	187	0	600	15	0	0.06	0.8	14	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	25	-	STAIR C	283	0	600	25	0	0.06	0.8	21	YES
ELEMENTARY SCHOOL	GROUND	FCU-A	600	5	-	VESTIBULE	54	0	600	5	0	0.06	1	3	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	20	-	CORRIDOR 1A	204	0	600	20	0	0.06	0.8	15	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	230	-	CORRIDOR 1B	3,035	0	600	230	0	0.06	0.8	228	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	405	201	CLASSROOM	762	31	1,150	405	10	0.12	1	401	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	405	202	CLASSROOM	778	31	1,150	405	10	0.12	1	403	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	405	203	CLASSROOM	755	31	1,150	405	10	0.12	1	401	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	405	204	CLASSROOM	760	31	1,150	405	10	0.12	1	401	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	405	205	CLASSROOM	757	31	1,150	405	10	0.12	1	401	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	405	206	CLASSROOM	757	31	1,150	405	10	0.12	1	401	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	400	207	CLASSROOM	749	31	1,150	400	10	0.12	1	400	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	405	208	CLASSROOM	760	31	1,150	405	10	0.12	1	401	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	415	209	CLASSROOM	862	31	1,150	415	10	0.12	1	413	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	410	210	CLASSROOM	821	31	1,150	410	10	0.12	1	409	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	20	213	OFFICE	218	1	600	20	5	0.06	1	18	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	20	214	ASSISTANT PRINCIPAL	226	1	600	20	5	0.06	1	19	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	45	216	OFFICE	550	2	600	45	5	0.06	1	43	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	35	217	NURSE	241	2	600	35	5	0.06	0.8	31	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	50	219	NURSE	446	2	600	50	5	0.06	0.8	46	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	35	220	PRINCIPAL'S OFFICE	422	1	600	35	5	0.06	1	30	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	35	220A	TEACHERS	226	4	600	35	5	0.06	1	34	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	435	221	CLASSROOM	1,010	31	1,150	435	10	0.12	1	431	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	10	221A	OFFICE	69	1	600	10	5	0.06	1	9	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	430	222	LIBRARY	965	31	1,150	430	10	0.12	1	426	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	15	222A	OFFICE	102	1	600	15	5	0.06	1	11	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	390	223	CLASSROOM	646	31	1,150	390	10	0.12	1	388	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	365	223A	CLASSROOM	420	31	1,150	365	10	0.12	1	360	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	25	224	COUNSELOR	168	2	600	25	5	0.06	1	20	YES
ELEMENTARY SCHOOL	1ST FLOOR	UV-A	1,150	410	225	CLASSROOM	817	31	1,150	410	10	0.12	1	408	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	20	226	COUNSELOR	164	2	600	20	5	0.06	1	20	YES
ELEMENTARY SCHOOL	1ST FLOOR	RTU-AH-2	9,550	3,885	227	AUDITORIUM	4,787	564	9,550	3,885	5	0.06	0.8	3,884	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	20	228	SPECIAL ED	166	2	600	20	5	0.06	1	20	YES
ELEMENTARY SCHOOL	1ST FLOOR	RTU-AH-1	6,000	1,720	229	GYM	4,190	31	6,000	1,720	20	0.18	0.8	1,718	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	25	230	STORAGE	122	0	600	25	0	0.18	1	22	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	35	-	STAIR 5	443	0	600	35	0	0.06	0.8	33	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	25	-	STAIR 2	307	0	600	25	0	0.06	0.8	23	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	25	-	STAIR 4	284	0	600	25	0	0.06	0.8	21	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	155	101	CORRIDOR	2,003	0	600	155	0	0.06	0.8	150	YES

REGISTER, GRILLE, AND DIFFUSER SCHEDULE

DESIGNATION	SERVICE	TYPE	NOMINAL OVERALL DIMENSION (IN)	NECK SIZE (IN)	CFM RANGE	CONFIGURATION	BORDER TYPE	MATERIAL OF CONSTRUCTION	EQUALIZING GRID IN NECK	OPPOSED BLADE DAMPER IN NECK	FILTER RACK	FINISH COLOR	MANUFACTURER	MODEL	REMARKS
CD-A	SUPPLY	CEILING DIFFUSER	24x24	6"DIA	0-100	PLAQUE-STYLE, 4-WAY THROW	LAY-IN	STEEL	YES	NO	NO	WHITE	TITUS	OMNI	SEE NOTES BELOW
				8"DIA	101-175										
				10"DIA	176-350										
				12"DIA	351-550										
ER-A	EXHAUST	CEILING REGISTER	12X12 OR 24x24	6"DIA	0-100	LOUVERED FACE, 1/2" BLADE SPACING, 45° FIXED DEFLECTION	LAY-IN OR SURFACE MOUNTED	ALUMINUM	NO	NO	NO	WHITE	TITUS	355FL	SEE NOTES BELOW
				8"DIA	101-175										
				10"DIA	176-350										
				12"DIA	351-550										
RG-A	RETURN	CEILING GRILLE	24x12	24x12	0-1000	LOUVERED FACE, 1/2" BLADE SPACING, 45° FIXED DEFLECTION	LAY-IN	STEEL	NO	NO	NO	WHITE	TITUS	355RL	SEE NOTES BELOW
			24x24	24x24	1001-2000										
RR-A	RETURN	SIDEWALL REGISTER	72" WIDE X 36 " HIGH	72" WIDE X 36 " HIGH	0-7000	LOUVERED FACE, 5/16" BLADE SPACING, REVERSIBLE CORE FOR 5° OR 15° FIXED DEFLECTION	SURFACE MOUNT BORDER WITH CONCEALED SCREW FASTENING	ALUMINUM	NO	ONLY IF REGISTER IS MOUNTED TO EXPOSED SPIRAL DUCT	NO	WHITE	TITUS	1700L	SEE NOTES BELOW
LD-A	SUPPLY	LINEAR DIFFUSER	(2) 2" WIDE SLOT, LENGTHS AS NOTED ON	8"DIA (CONNECTION TO FACTORY PLENUM)	0-175	CONTINUOUS SLOT LINEAR DIFFUSER WITH "VERTICAL & HORIZONTAL" PATTERN CONTROLLER WITH THE SLOT	LAY-IN OR SURFACE MOUNTED WITH CONCEALED SCREW FASTENING	ALUMINUM	NO	NO	NO	BLACK PATTERN CONTROLLER & VISIBLE INTERNAL	TITUS	ML-39	SEE NOTES BELOW
				10"DIA (CONNECTION TO FACTORY PLENUM)	176-300										
SR-A	SUPPLY	CEILING/SIDE WALL REGISTER	RE: PLAN	RE: PLAN	RE: PLAN	INDIVIDUALLY ADJUSTABLE BLADES, 3/4" BLADE SPACING, DOUBLE DEFLECTION	LAY-IN OR SURFACE MOUNTED	STEEL	NO	ONLY IF REGISTER IS MOUNTED TO EXPOSED SPIRAL DUCT	NO	WHITE	TITUS	300RL	SEE NOTES BELOW

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
2. ALL FINISH COLORS ARE SUBJECT TO APPROVAL BY THE ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.
3. COORDINATE BORDER TYPES WITH ARCHITECTURAL CEILING SPECIFICATIONS.
4. ER-A: PROVIDE FACTORY FURNISHED SQUARE-TO-ROUND ADAPTER FOR EACH REGISTER, MATTE BLACK FINISH FOR INTERNAL SURFACES.
5. RG-A: PROVIDE FACTORY FURNISHED LIGHT SHIELD, MATTE BLACK FINISH FOR INTERNAL SURFACES.
6. LD-A:
   - 6.1. ALL ACTIVE SUPPLY, EXHAUST, AND RETURN (DUCTED) SECTIONS SHALL BE PROVIDED WITH FACTORY FURNISHED ACOUSTICALLY LINED 2', 3', OR 4' LONG PLENUMS WITHSIDE INLET CONNECTIONS.
   - 6.2. ALL ACTIVE RETURN (CEILING PLENUM) SECTIONS SHALL BE PROVIDED WITH RETURN HOOD LIGHT SHIELDS, LENGTHS AS SHOWN ON PLANS.
   - 6.3. INACTIVE PORTIONS WITHOUT PLENUMS OR LIGHT SHIELDS SHALL BE BLANKED OFF, MATTE BLACK FINISH FOR VISIBLE SURFACES.
   - 6.4. PROVIDE "MP" MITERED CORNERS, FACTORY BLANKED, 6"x6" AND FACTORY END CAPS.
   - 6.5 PROVIDE CABLE OPERATED DAMPER (COD) FOR LINEAR DIFFUSERS ABOVE SHEETROCK CEILING.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

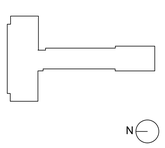
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUED FOR BID	11/06/2024
ISSUE	DATE

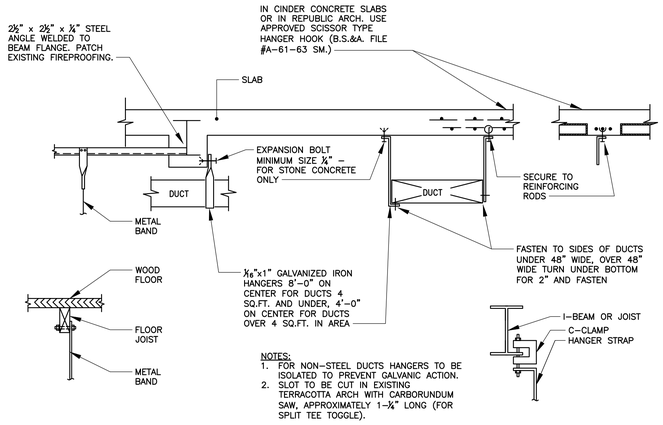
KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

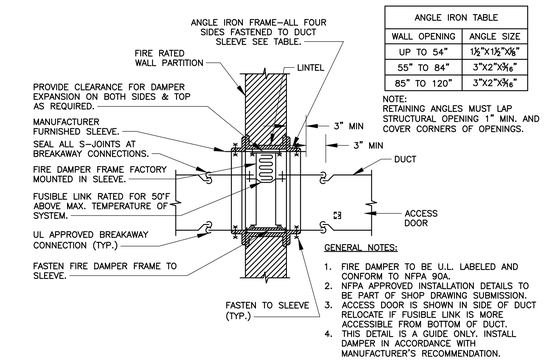
MECHANICAL SCHEDULES

AH M603



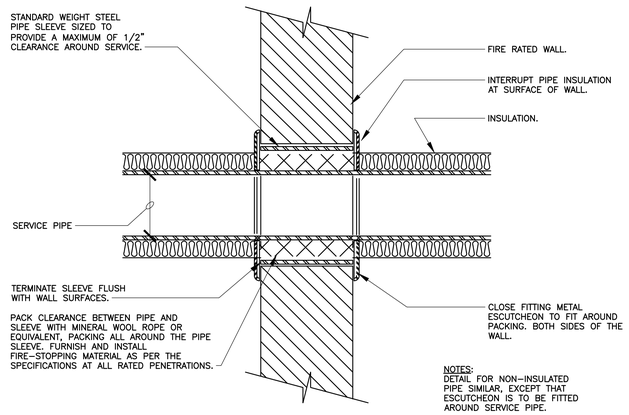
TYPICAL DUCT HANGING DETAIL

N.T.S.



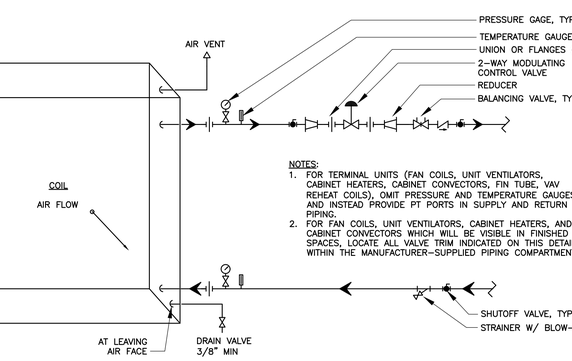
VERTICAL FIRE DAMPER DETAIL TYPE "B" (OUT OF AIR STREAM)

N.T.S.



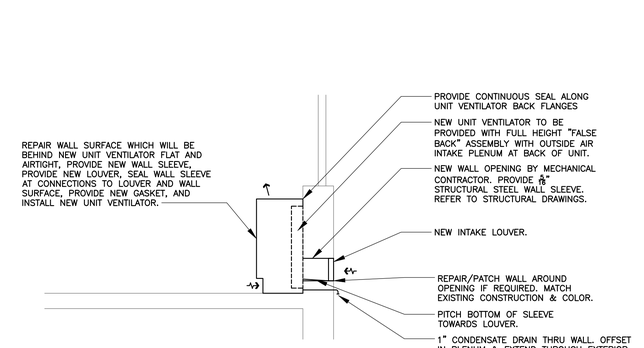
DETAIL OF PIPE THROUGH RATED PARTITION OR FLOOR

N.T.S.



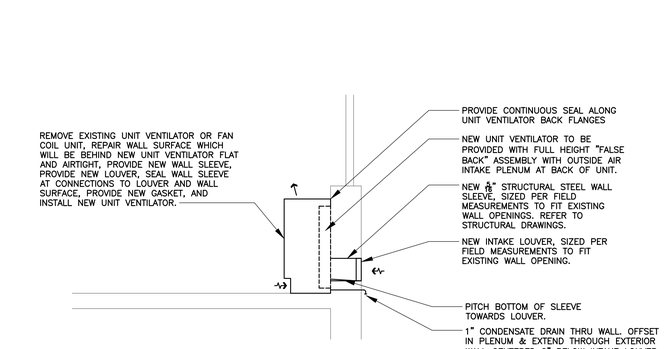
TYPICAL DETAIL OF RECTANGULAR SUPPLY AIR DUCT TAP

N.T.S.



DETAIL OF LOW PRESSURE SUPPLY AIR DUCT NECK CONNECTIONS

N.T.S.



PIPE HANGING DETAIL

N.T.S.

HOT WATER, CHILLED WATER, OR DUAL TEMPERATURE COIL PIPING DETAIL

N.T.S.

FLOOR-MOUNTED UNIT VENTILATOR OR FAN COIL UNIT INSTALLATION DETAIL NEW INTAKE WALL OPENING PROVIDED

N.T.S.

FLOOR-MOUNTED UNIT VENTILATOR OR FAN COIL UNIT INSTALLATION DETAIL EXISTING INTAKE WALL OPENING REUSED

N.T.S.

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ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
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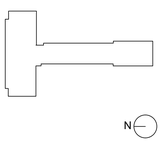
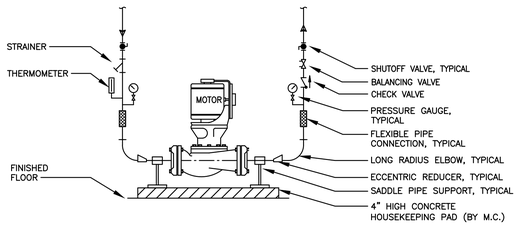


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

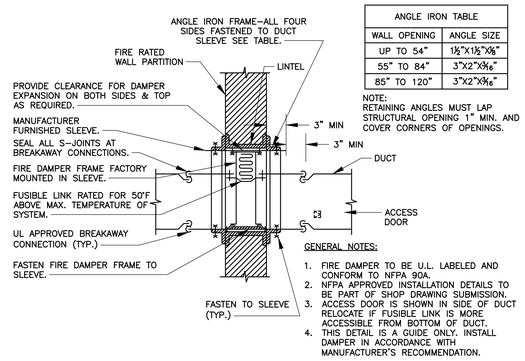
MECHANICAL DETAILS

AH M701



IN-LINE PUMP DETAIL - FLOOR MOUNTED

N.T.S.



ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 54"	1½"X1½"X⅛"
55" TO 84"	3"X2"X3/16"
85" TO 120"	3"X2"X⅛"

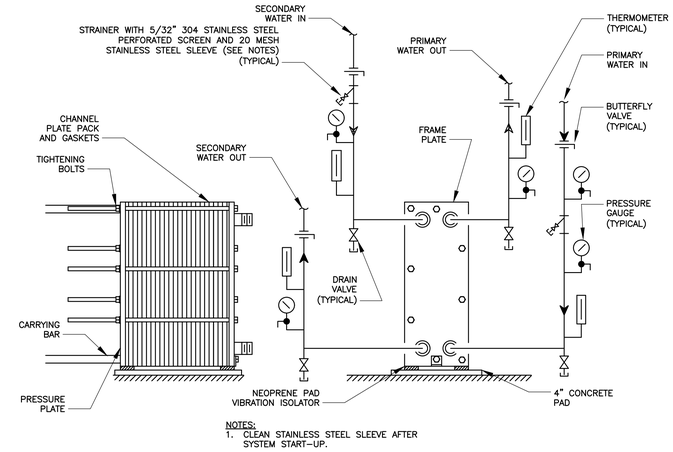
NOTE:
RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS.

GENERAL NOTES:

1. FIRE DAMPER TO BE U.L. LABELED AND CONFORM TO NFPA 90A.
2. NFPA APPROVED INSTALLATION DETAILS TO BE PART OF SHOP DRAWING SUBMISSION.
3. ACCESS DOOR IS SHOWN IN SIDE OF DUCT RELOCATE IF FUSIBLE LINK IS MORE ACCESSIBLE FROM BOTTOM OF DUCT.
4. THIS DETAIL IS A GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

VERTICAL FIRE DAMPER DETAIL TYPE "B" (OUT OF AIR STREAM)

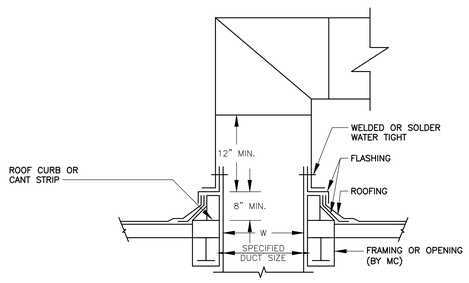
N.T.S.



NOTES:
1. CLEAN STAINLESS STEEL SLEEVE AFTER SYSTEM START–UP.

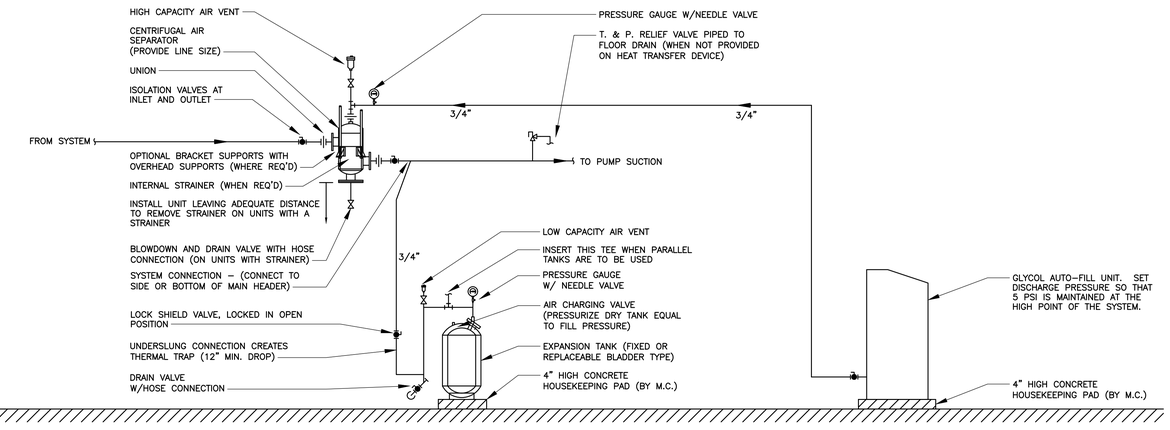
PLATE AND FRAME HEAT EXCHANGER DETAIL

N.T.S.



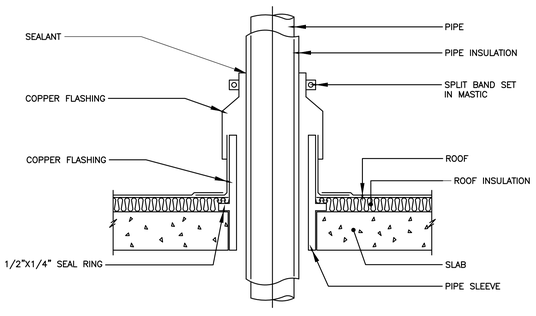
DUCT PENETRATION THROUGH ROOF DETAIL

N.T.S.



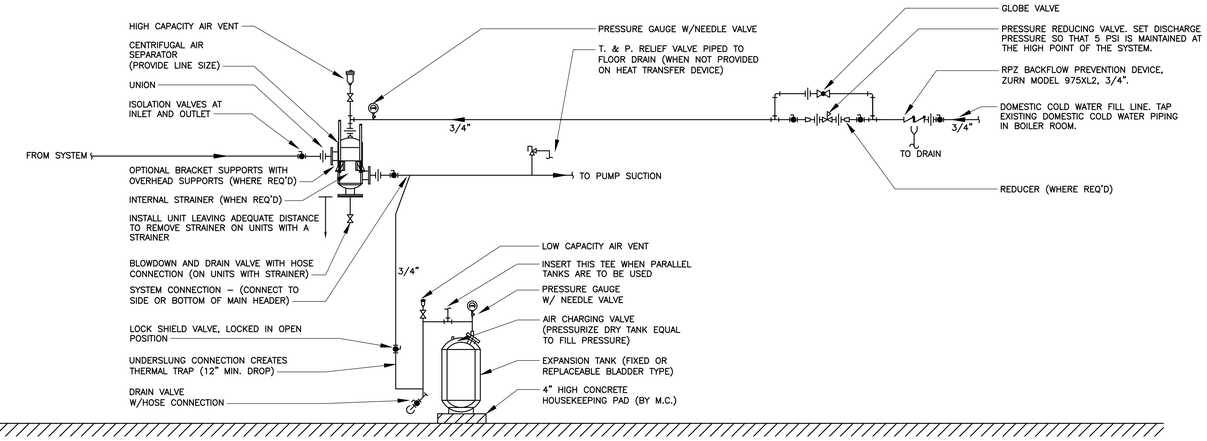
AIR SEPARATOR, EXPANSION TANK, AND GLYCOL FEEDER DETAIL

N.T.S.



PIPE PENETRATION THROUGH ROOF DETAIL

N.T.S.



AIR SEPARATOR, EXPANSION TANK, AND COLD WATER MAKEUP DETAIL

N.T.S.

EASTCHESTER UNION FREE SCHOOL DISTRICT

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ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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KEY PLAN

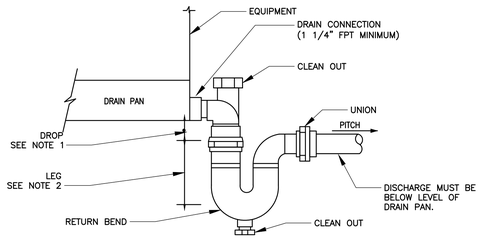
N

PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

MECHANICAL DETAILS

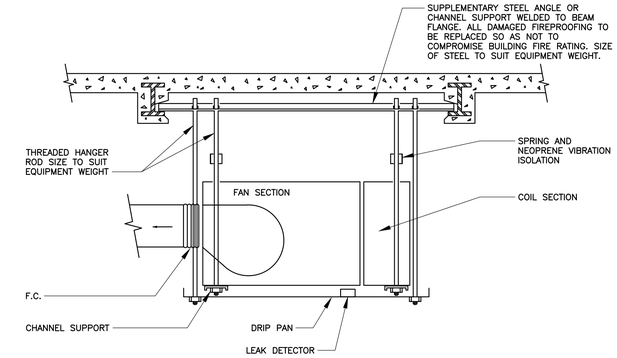
AH M702



NOTES:
1. 1" MIN. DROP REQUIRED USE OF STANDARD FITTINGS SHOWN EXCEEDS THIS MINIMUM.
2. X/2+1"=LEG FOR DRAW THRU UNIT WHERE X= NEGATIVE STATIC PRESSURE AT FAN INLET (MIN. 5")
3. ADD STRUCTURAL STEEL TO RAISE THE BOTTOM OF THE UNIT TO ACCOMMODATE TRAP HEIGHT.
4. PITCH DRAIN FOR PROPER RUN-OFF AND DISCHARGE TO APPROVED RECEPTACLE.
5. SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
6. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.

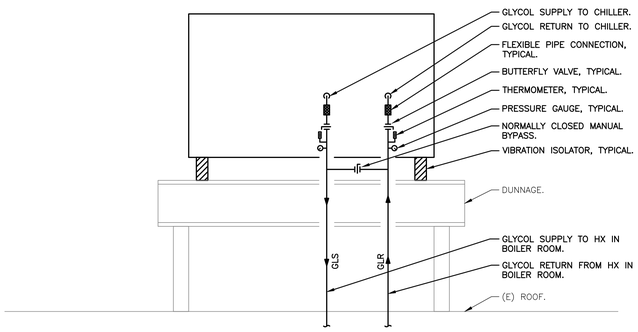
PIPE SIZE	MAX. COOLING LOAD
¾"	<=20 TONS
1"	20 TONS TO 40 TONS
1 ¼"	40 TONS TO 90 TONS
1 ½"	90 TONS TO 125 TONS
2"	>125 TONS TO 250 TONS

TYPICAL CONDENSATE DRAIN PIPING DETAIL (DRAW THROUGH)
N.T.S.



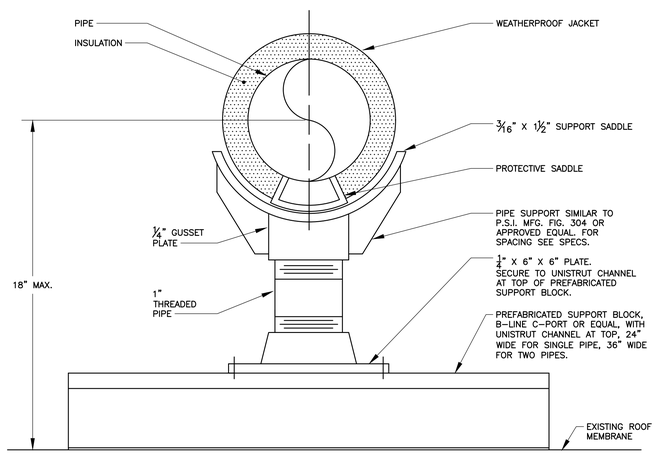
NOTES:
1. INCLUDE DRIP PAN AND LEAK DETECTOR FOR ALL CONCEALED HVAC UNITS WITH COOLING COILS (4-PIPE FAN COIL UNIT WITH HOT AND CHILLED WATER COILS, 2-PIPE FAN COIL UNIT WITH A DUAL-TEMPERATURE HOT/CHILLED WATER COIL, ETC.).
2. INCLUDE DRIP PAN AND LEAK DETECTOR FOR ALL CONCEALED HVAC UNITS WHICH ARE INTENDED FOR HEATING ONLY SERVICE, BUT WILL BE CONNECTED TO DUAL-TEMPERATURE HOT/CHILLED WATER PIPING (2-PIPE CABINET UNIT HEATERS WITH HOT WATER COIL, ETC.). THE DRIP PAN AND LEAK DETECTOR WILL BE UTILIZED AS A BACKUP TO BMS CONTROLS PROGRAMMED TO CLOSE THE CONTROL VALVE WHENEVER CHILLED WATER IS BEING CIRCULATED.

HVAC EQUIPMENT HANGING DETAIL
N.T.S.



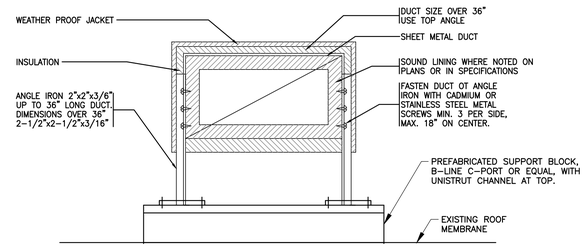
CHILLER PIPING DETAIL
N.T.S.

ROOFTOP UNIT INSTALLATION DETAIL
N.T.S.

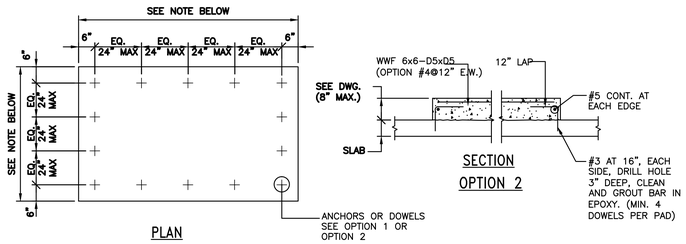


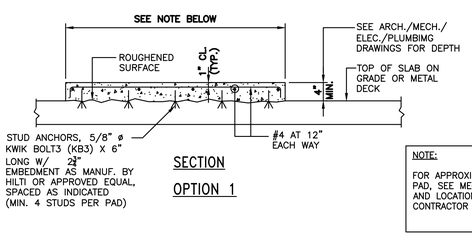
PIPING SUPPORT AT ROOF DETAIL
N.T.S.

DUCT SUPPORT SPACING AT THE ROOF SHALL COMPLY WITH ALL OF THE FOLLOWING CRITERIA, WHICHEVER IS MOST STRINGENT:
- MINIMUM 10 FEET ON CENTER FOR STRAIGHT RUNS.
- AT EACH CHANGE IN DIRECTION (BOTH ENDS OF HORIZONTAL ELBOW, HORIZONTAL END OF HORIZONTAL-TO-VERTICAL ELBOW).
- PER "SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", LATEST EDITION.



DUCTWORK SUPPORT AT ROOF DETAIL
N.T.S.

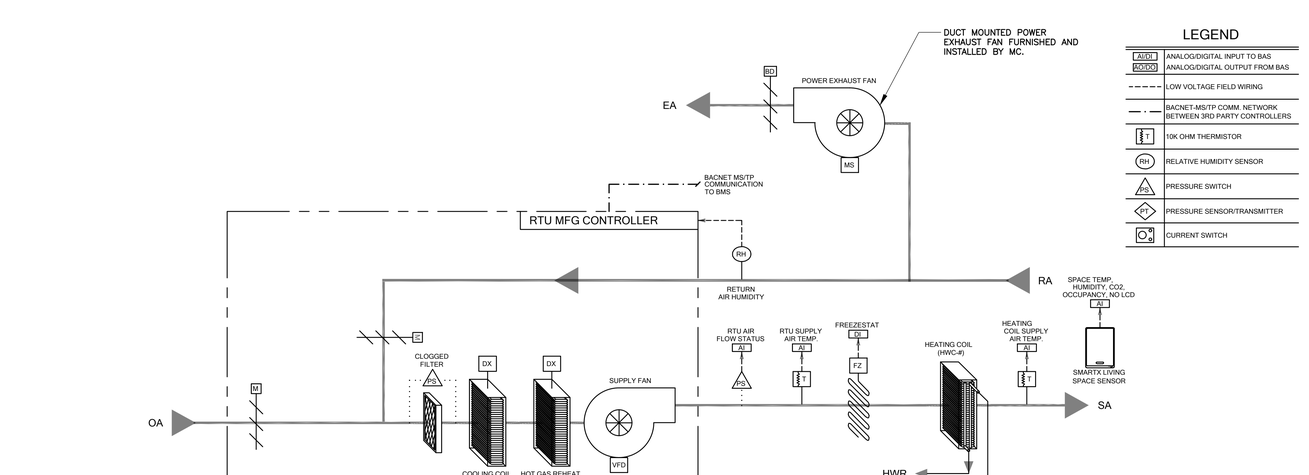




NOTE:

FOR APPROXIMATE SIZE AND LOCATION OF PAD, SEE MECHANICAL DRAWINGS. FINAL SIZE AND LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY ENGINEER

CONCRETE EQUIPMENT PAD DETAIL
N.T.S.



LEGEND	
AI/DI / AO/DO	ANALOG/DIGITAL INPUT TO BAS / ANALOG/DIGITAL OUTPUT FROM BAS
	LOW VOLTAGE FIELD WIRING
	BACNET-MS/TP COMM. NETWORK BETWEEN 3RD PARTY CONTROLLERS
T	10K OHM THERMISTOR
RH	RELATIVE HUMIDITY SENSOR
PS	PRESSURE SWITCH
PT	PRESSURE SENSOR/TRANSMITTER
	CURRENT SWITCH

RTU CONTROLS DIAGRAM
N.T.S.

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
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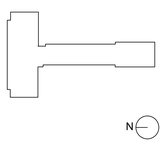

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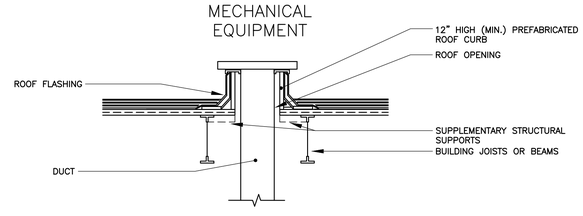
MECHANICAL DETAILS

AH M703

ALL WORK ASSOCIATED WITH ROOFTOP MECHANICAL UNITS, DUCTWORK COMPONENTS, ETC. IS BY MECHANICAL CONTRACTOR. INCLUDING:
A. LAYOUT AND HOLE CUT
B. SUPPORT STEEL
C. CURBS, CURB ADAPTORS, RAILS, PITCH POCKETS, PIPE PENETRATIONS, ETC.
D. ROOF FLASHING AND PATCHING (BY ROOFING SUBCONTRACTOR WHO IS AUTHORIZED BY MANUFACTURER TO MAINTAIN WARRANTY).



ROOF CURB INSTALLATION DETAIL

N.T.S.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

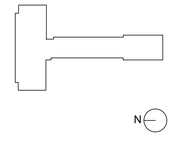
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL DETAILS

AH M704

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ELECTRICAL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE GFCI TYPE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
WP	20A, 125V GFCI TYPE WEATHER RESISTANT DUPLEX RECEPTACLE IN WEATHER PROOF ENCLOSURE
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE – CEILING MOUNTED
	SPECIAL PURPOSE RECEPTACLE – FLUSH WALL MOUNTED
▼ ▽ ▼	DATA OUTLET WITH 1 1/4"E.C. UP TO CEILING. TURN 90° AND STUB AND BUSH 6" INTO ACCESSIBLE CEILING
J	CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH FLOOR MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	UNFUSED DISCONNECT SWITCH
100A / 60A	FUSED DISCONNECT SWITCH – 100 AMP SWITCH, 60 AMP FUSE, UNFUSED (EXCEPT WHERE FUSE SIZE IS INDICATED) 3-POLE (EXCEPT WHERE NOTED)
	COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COOR. LOCATION W/MECH. CONT.
CB 100A / 60A	CIRCUIT BREAKER 100A FRAME/60A TRIP, 3 POLE, U.O.N. ST – SHUNT TRIP
VFD	VARIABLE FREQUENCY DRIVE (VFD), FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COORD. LOCATION WITH MECH. CONTRACTOR
M	MOTOR
	PULLBOX, SIZED PER NEC
T	DRY TYPE 480-208V TRANSFORMER DELTA-WYE WITH GROUNDED SECONDARY SIDE, UON.
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
GND	GROUND BAR
	2#12+1#12G-3/4"C FOR ONE CKT. HOMERUN, U.O.N.
	4#12+1#12G-3/4"C FOR TWO CKT. HOMERUN, U.O.N.
	6#12+1#12G-3/4"C FOR THREE CKT. HOMERUN, U.O.N.
	3#12+1#12G-3/4"C HOMERUN, U.O.N.
	CONCEALED CONDUIT
	CONDUIT TURNING UP
	CAPPED CONDUIT
	FLEXIBLE EQUIPMENT CONNECTION
	GROUND CONNECTION
$T	MANUAL STARTER – TOGGLE TYPE WITH THERMAL ELEMENT – 250V HP RATED, FURNISHED BY ELEC CONTRACTOR
RP	SECURITY DEVICE REPEATER

LIGHTING CONTROL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
$	SINGLE POLE LINE VOLTAGE SWITCH
$K	KEY ACTIVATED LINE VOLTAGE SWITCH
DS	DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL MTD.
VS	DUAL TECHNOLOGY VACANCY SENSOR, CEILING MTD.
WS M	LOW VOLTAGE LIGHTING CONTROL MASTER LIGHTING CONTROL WALL STATION
WS K,OR	LOW VOLTAGE LIGHTING CONTROL LOCAL LIGHTING CONTROL WALL STATION ("OR" DENOTES VACANCY SENSOR OVERRIDE, "K" DENOTES KEY SWITCH)
PC	EXTERIOR LIGHTING PHOTOCELL
DS	INTERIOR DAYLIGHT ZONE SENSOR
RC a,b	ROOM CONTROLLER (LOWER CASE LETTER DENOTES CONTROL ZONES). REFER TO LIGHTING CONTROL DETAILS
WS D	LOW VOLTAGE LIGHTING CONTROL LOCAL LIGHTING CONTROL WALL STATION WITH VACANCY SENSOR OVERRIDE AND ZONE DIMMING
OS	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MTD.
	WALL MOUNTED EMERGENCY LIGHTING UNIT, DUAL-LITE #EV2I

FIRE ALARM SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
S	CEILING MOUNTED ADDRESSABLE SMOKE DETECTOR
D	DUCT SMOKE DETECTOR
F	COMBINATION FIRE ALARM BELL/STROBE LIGHT UNIT – FLUSH WALL MOUNTED (WITH ADJUSTABLE CANDELA RATING)
F	FIRE ALARM PULL STATION
R	FIRE ALARM RELAY
RAN	FIRE ALARM REMOTE ANNUNCIATOR PANEL
ST 75	FIRE ALARM STROBE LIGHT – "75" INDICATES CANDELA SET POINT
CO	CARBON MONOXIDE DETECTOR
ST 75	FIRE ALARM STROBE LIGHT (CEILING MOUNTED) – "75" INDICATES CANDELA SET POINT

ELECTRICAL ABBREVIATIONS

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

A	AMPERE	KCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER	KV	KILOVOLT
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERE
AHJ	AUTHORITY HAVING JURISDICTION	KW	KILOWATT
AIC	AMP INTERRUPTING CAPACITY	KWH	KILOWATT HOUR
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
AUTO	AUTOMATIC	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MCB	MAIN CIRCUIT BREAKER
BLDG	BUILDING	MCC	MOTOR CONTROL CENTER
C	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MTD	MOUNTED
CCTV	CLOSED CIRCUIT TELEVISION	N	NEUTRAL
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CO	CARBON MONOXIDE	NTS	NOT TO SCALE
COMM	COMMUNICATION	OC	ON CENTER
CT	CURRENT TRANSFORMER	P	POLE
CU	COPPER	ø or PH	PHASE
DEG	DEGREE	PNL	PANEL
DGP	DATA GATHERING PANEL	PWR	POWER
DISC	DISCONNECT	R	RELOCATED
DN	DOWN	RECEPT	RECEPTACLE
DWG	DRAWING	TEL	TELEPHONE
E/EX	EXISITNG TO REMAIN	TOS	TOP OF SHAFT
EC	ELECTRICAL CONTRACTOR	TV	TELEVISION
EM	EMERGENCY	TYP	TYPICAL
ER	EXISTING TO BE REMOVED	UON	UNLESS OTHERWISE NOTED
ERR	EXISTING TO BE REMOVED AND RELOCATED	V	VOLT OR VOLTAGE
FA	FIRE ALARM	VA	VOLT AMPERE
FACP	FIRE ALARM CONTROL PANEL	VIF	VERIFY IN FIELD
FL	FLOOR	W	WATT
FT	FEET OR FOOT	WP	WEATHERPROOF
GRD	GROUND	WT	WATERTIGHT
GFI	GROUND FAULT INTERRUPTER	XP	EXPLOSION PROOF
HID	HIGH INTENSITY DISCHARGE		
HP	HORSE POWER		
HZ	HERTZ		
JB	JUNCTION BOX		

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 2022 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

CUTTING AND PATCHING GENERAL NOTES

ELECTRICAL CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING OF EXISTING CONSTRUCTION AS REQUIRED TO PROPERLY INSTALL AND CONCEAL ALL RACEWAYS, BOXES, DEVICES, AND EQUIPMENT. ALL WORK ASSOCIATED WITH CUTTING OF CONSTRUCTION SHALL BE ACCOMPLISHED IN A CLEAN AND NEAT FASHION WITH PURPOSE TO MINIMIZE ANY DISRUPTION OF EXISTING SYSTEMS. ELECTRICAL CONTRACTOR SHALL RETURN ANY AFFECTED CONSTRUCTION TO AS FOUND. ELECTRICAL CONTRACTOR SHALL MATCH ALL REQUIRED FINISHES SUCH AS TILE/GROUT, PAINT, PLASTER, BRICK, ECT. WITH EXISTING SURROUNDINGS.

ELECTRICAL DRAWING LIST

Sheet Number	Sheet Title
AH E001	ELECTRICAL COVER SHEET
AH ED100	ELECTRICAL DEMOLITION PLAN – GROUND FLOOR
AH ED101	ELECTRICAL DEMOLITION PLAN – FIRST FLOOR
AH ED102	ELECTRICAL DEMOLITION PLAN – ROOF
AH E100	ELECTRICAL POWER PLAN – GROUND FLOOR
AH E101	ELECTRICAL POWER PLAN – FIRST FLOOR
AH E102	ELECTRICAL POWER PLAN – ROOF
AH E200	ELECTRICAL LIGHTING PLAN – GROUND FLOOR
AH E201	ELECTRICAL LIGHTING PLAN – FIRST FLOOR
AH E301	ELECTRICAL RISER DIAGRAMS
AH E401	ELECTRICAL PANEL SCHEDULES
AH E402	ELECTRICAL PANEL SCHEDULES
AH E501	ELECTRICAL DETAILS

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE / CCT / LUMENS / CRI	VOLTS	NOTES
F1	2X4 FLAT PANEL	METALUX	24FP4735C	41 / 3500K / 4591 / 80	UNV	EL14W EM PACK WHERE INDICATED
F2	2X2 FLAT PANEL	METALUX	22FP3235C	29 / 3500K / 3307 / 80	UNV	EL14W EM PACK WHERE INDICATED
F3	2X4 TROFFER	LITHONIA	ENVX 2X4 HRG 6000LM 80CRI 35K MIN1 EZT MVOLT	50 / 3500K / 6000 / 80	UNV	EL15WLCP EM PACK WHERE INDICATED
X1	LED EDGE-LIT EXIT SIGN	LITHONIA	LRP 1/2 RC/RMR 120/277 EL N	2W	UNV	SHIP WITH ALL MOUNTING OPTIONS AND DIRECTIONAL INDICATORS

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, BUILDING DEPARTMENT, BUILDING MANAGEMENT, ALL AUTHORITIES HAVING JURISDICTION, AND APPLICABLE NATIONAL, STATE, AND LOCAL CODES. LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS TO INFORM THE ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION OF LAWS AND REGULATIONS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER.
2. PRIOR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATED TO THE WORK AS INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO SUBMISSION OF BID, AND, IF NOT RESOLVED TO SATISFACTION, SHALL BE SUBMITTED AS A WRITTEN QUALIFICATION OF THE BID. SUBMISSION OF A BID SHALL BE EVIDENCE THAT SITE VERIFICATION HAS BEEN PERFORMED AS DESCRIBED ABOVE.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND COORDINATE FINAL LOCATIONS OF SWITCHES, LIGHT FIXTURES, RECEPTACLES, ETC. WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.
4. PRIOR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING GENERAL CONSTRUCTIONS, DEMOLITION, ARCHITECTURAL, MECHANICAL, ELECTRICAL, TELECOM/AV/SECURITY, PLUMBING, AND FIRE PROTECTION AND SHALL INCLUDE ANY WORK REQUIRED IN THE BID WHICH IS INDICATED OR IMPLIED TO BE PERFORMED BY THIS TRADE IN OTHER SECTIONS OF THE WORK.
5. ANY EQUIPMENT, PARTS, MATERIALS, ACCESSORIES, OR LABOR THAT IS NECESSARY FOR PROPER PERFORMANCE OF THE ELECTRICAL WORK, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL WITHOUT ADDITIONAL COST.
6. THIS CONTRACTOR SHALL SUBMIT FOR APPROVAL, A PLAN INDICATING THE SIZE AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, JUNCTION BOXES, PULL BOXES, ETC. THIS CONTRACTOR SHALL ARRANGE FOR FURNISHING AND INSTALLATION OF ALL ACCESS DOORS IN FINISHED CONSTRUCTION AND INCLUDE COSTS IN THE BID.
7. REMOVAL, TEMPORARY CONNECTIONS, AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK.
8. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO ENSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE ORGANIZED WITH BUILDING MANAGEMENT. PROVIDE TEMPORARY FEEDERS, CIRCUITRY, ETC., AS REQUIRED TO MINIMIZE DOWNTIME.
9. DISCONNECTS SHALL BE 'QUICK-BREAK' HEAVY DUTY TYPE IN NEMA 1 ENCLOSURE FUSED OR UN-FUSED AS INDICATED ON THE DRAWINGS. FUSES FOR SWITCHES SHALL BE CURRENT LIMITING TYPE WITH AN INTERRUPTING CAPACITY OF 200,000 RMS AMPERES AND OF THE CONTINUOUS CURRENT RATING AS SHOWN ON THE DRAWINGS.
10. CIRCUIT BREAKERS SHALL BE 'THERMAL MAGNETIC' TYPE, QUICK-MAKE, QUICK-BREAK WITH NON-WELDING CONTACTS COMPENSATED FOR AMBIENT TEMPERATURES AND SHALL HAVE A MINIMUM SHORT CIRCUIT RATING OF 10,000 AMPERES SYMMETRICAL FOR 120/208V PANELS AND 14,000 AMPERES SYMMETRICAL FOR 277/480V PANELS OR HIGHER WHERE NOTES.
11. CONDUIT SHALL BE RIGID THREADED REGARDLESS OF SIZE IN LOCATIONS PER PROJECT SPECIFICATIONS.
12. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION, UNLESS OTHERWISE NOTED. UNLESS SPECIFIED ALL WIRE #10 AWG AND SMALLER SHALL BE SOLID CONDUCTORS AND 8 AWG AND LARGER SHALL BE STRANDED.
13. BRANCH CIRCUIT WIRE SIZE: THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS SHALL BE NO. 12 AWG EXCEPT 120V CIRCUITS OVER 80 FEET IN LENGTH SHALL BE 10 AWG.
14. PULL BOXES, JUNCTION BOXES, AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD SHALL STEEL.
15. PROVIDE PULL BOXES AND JUNCTION BOXES IN LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED, TO FULFILL REQUIREMENTS AS TO THE NUMBER OF BENDS PERMITTED IN RACEWAY BETWEEN CABLE ACCESS POINTS, THE ACCESSIBILITY OF CABLE JOINTS AND SPLICES, AND THE APPLICATION OF CABLE SUPPORTS.
16. PULL BOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED.
17. ALL EQUIPMENT, DEVICE BOXES, JUNCTION BOXES, PULL BOXES, AND OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO THE BOX. IF NECESSARY AND APPROVED BY OWNER/ENGINEER, PROVIDE ACCESS DOOR OR COVER PLATES IN AREAS WHERE UNOBSTRUCTED ACCESS IS NOT POSSIBLE.
18. OPENINGS AROUND ELECTRICAL PENETRATION THROUGH FIRE RESISTANCE RATED WALL, PARTITIONS, FLOOR OR CEILING SHALL BE FIRE STOPPED USING APPROVED METHODS. SEALANT SHALL BE RATED FOR THREE (3) HOURS.
19. FOR HEIGHTS OF OUTLETS REFER TO DETAILS SHEET. EXCEPTIONS APPLY AT JUNCTION BOXES OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE REQUIREMENTS, AS NOTED OR DIRECTED.
20. PROVIDE WEIGHTS, LOCATIONS, AND DIMENSIONS OF EQUIPMENT IN EXCESS OF 200 LBS. SUPPORTED ON FLOOR OR HUNG FROM BUILDING STRUCTURE TO BASE BUILDING STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
21. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH HVAC, PLUMBING, FIRE PROTECTION, TELECOM/AV/SECURITY, AND OTHER TRADES FOR EXACT LOCATION OF ALL MOTOR AND CONTROL DEVICES, BACK BOXES, AND CONDUIT REQUIREMENTS. LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE.
22. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF DIE CAST ALUMINUM LOCAKBLE "WHILE IN USE" COVERS.
23. ALL FIRE ALARM NOTIFICATION APPLIANCES SHALL BE "RED."

ELECTRICAL LIGHTING NOTES

A. FOR EXACT ELEVATION, LOCATION, QUANTITY AND SPECIFICATIONS OF LIGHTING FIXTURES AND SWITCHES REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH ARCHITECT IN THE FIELD.

B. LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH FIXTURE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.

C. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.

D. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.

E. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.

F. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.

G. ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH DEDICATED NEUTRAL CONDUCTOR.

H. ALL LIGHT FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK CAPABLE OF FULL LIGHT OUTPUT FOR MINIMUM 90 MINUTES.

I. EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELLS AND TIMECLOCKS WITH A MANUAL OVERRIDE SWITCHES LOCATED IN ELECTRICAL ROOMS.

ELECTRICAL DEMOLITION NOTES

1. GENERAL
   - 1.1. SEE HVAC DRAWINGS FOR HVAC EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.
   - 1.2. SEE PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT TO BE REMOVED.
   - 1.3. FOR EQUIPMENT TO BE REMOVED DISCONNECT POWER AND REMOVED CONDUIT/WIRING BACK TO PANEL.
   - 1.4. REMOVE ALL DRYWALL MOUNTED DUPLEX RECEPTACLES AND ASSOCIATED CIRCUITING. WHERE OUTLETS ARE REMOVED AND THROUGH CIRCUITING SERVE OTHER OUTLETS BEYOND THE DEMOLITION AREA, RESTORE OR MAINTAIN THROUGH CIRCUITING.
   - 1.5. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO BUNDLE, NEATEN, AND CLEAN UP EXISTING LOOSE CABLING INCLUDING BUT NOT LIMITED TO LOW VOLTAGE CABLING, FIRE ALARM CABLING, ETC. WHERE CEILINGS ARE EXPOSED, CONTRACTOR SHALL REINSTALL ALL EXISTING CABLING IN EMT CONDUIT AS CLOSE TO UNDERSIDE OF STRUCTURE AS POSSIBLE.
   - 1.6. REMOVE ALL CLIPS AND HANGERS FROM CEILING SLAB AND REPAIR IF REQUIRED.
2. EXISTING CONDUIT
   - 2.1. THIS CONTRACTOR SHALL REMOVE ALL WALL CONDUITS, BOXES, CEILING CONDUITS LEFT AFTER WALL DEMOLITION. REMOVE ALL WIRING BACK TO EXISTING PANELS.
3. EXISTING ELECTRICAL PANELS
   - 3.1. CONTRACTOR SHALL USE CARE IN DISCONNECTING WIRING FROM PANELS AND CIRCUIT BREAKERS. CAREFULLY STORE ALL PANEL COVERS AS CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE USABLE PANEL INSTALLATION.
4. EXISTING LIGHTING FIXTURES
   - 4.1. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.
   - 4.2. DISCONNECT POWER AND REMOVE CONDUIT/WIRING BACK TO PANEL FOR EQUIPMENT TO BE REMOVED.
5. EXISTING FIRE ALARM
   - 5.1. NO EXISTING SMOKE DETECTOR, PUBLIC ADDRESS SPEAKER, FIRE ALARM BOX OR SIMILAR SERVICES INCLUDING THE ASSOCIATED WIRING SHALL BE DAMAGED DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION.
   - 5.2. NO ACTIVE SMOKE DETECTOR SHALL BE COVERED OR OTHERWISE RENDERED INEFFECTIVE FOR ITS INTENDED PURPOSE.
   - 5.3. ALL ACTIVE SMOKE DETECTION, PUBLIC ADDRESS AND FIRE ALARM SYSTEM SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. ANY DAMAGES TO THESE SYSTEMS AS A RESULT OF CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND CONSTRUCTION MANAGER.
   - 5.4. DURING DEMOLITION WORK CONTRACTOR IS TO PROTECT FIRE ALARM DEVICES AGAINST DUST AND OTHER PARTICLES.
6. TEMPORARY LIGHTING AND POWER
   - 6.1. FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL POWER TOOLS FOR THE PROJECT.
   - 6.2. MAINTAIN THE SYSTEM IN GOOD AND ADEQUATE WORKING CONDITIONS AT ALL TIMES.
   - 6.3. FURNISH AND INSTALL ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.
   - 6.4. REPLACE BURNED OUT LAMPS, DEFECTIVE BREAKERS, OR BLOWN FUSES.
   - 6.5. TEMPORARY MAINTENANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE THROUGH 1/2 HOUR AFTER END OF LAST TRADE NORMAL WORK DAY.
   - 6.6. TEMPORARY LIGHT AND POWER SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.

ELECTRICAL POWER NOTES

A. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND ARCHITECT IN FIELD FOR EXACT LOCATION, QUANTITY AND ELEVATION OF POWER AND TELEPHONE/DATA OUTLETS PRIOR TO INSTALLATION.

B. RECEPTACLES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH DEVICE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.

C. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.

D. EXACT LOCATIONS FOR ALL MECHANICAL EQUIPMENT SHALL BE DETERMINED FROM THE MECHANICAL DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR IN FIELD.

E. WHERE APPLICABLE, RUN 1" EMPTY CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING WITH GROMMET END FITTINGS FOR TELEPHONE/DATA & PROVIDE DRAG LINES FOR PULLING CABLE.

F. COORDINATE THE HARDWARE REQUIREMENTS FOR THE DOORS WITH THE ARCHITECT & SECURITY CONSULTANT PRIOR TO INSTALLATION (I.E. ELECTRIC HINGES, CARD READERS, ELECTRIC STRIKES, MAGNETIC SWITCHES, POWER SUPPLIES, ETC.) PROVIDE A BACKBOX WITH 1" CONDUIT WITH DRAG LINES STUBBED UP ABOVE CEILING FOR ALL LOW VOLTAGE DEVICES SUCH AS CARD READERS, MAGNETIC LOCKS, ELECTRIC LOCKSET, ELECTRIC STRIKE, ETC.

G. ALL BRANCH CIRCUIT HOME RUNS SHALL BE 2#12 & 1#12 GND IN 3/4" CONDUIT IN LOCATIONS PERMITTED PER PROJECT SPECIFICATIONS TO PANEL & CIRCUIT INDICATED. MAXIMUM OF THREE HOME RUNS PER CONDUIT.

H. MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO FURNITURE PARTITIONS SHALL BE PROVIDED WITH MEANS TO DISCONNECT POWER SIMULTANEOUSLY.

I. ELECTRICAL CONTRACTOR SHALL PROVIDE A BACKBOX AND 1" EMPTY CONDUIT WITH DRAG LINE FOR ALL IN-WALL WIRED KEYPADS AND TOUCHSCREENS.

J. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS, PLUMBING DRAWINGS, AND COORDINATE WITH MECHANICAL CONTRACTOR AND PLUMBING CONTRACTOR FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE DISCONNECT SWITCHES AND CIRCUITING SIZED PER THEIR EQUIPMENT SCHEDULES.

K. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AUDIO/VISUAL, TELECOM, AND SECURITY DRAWINGS AND CONTRACTORS FOR ANY ADDITIONAL BACKBOX, CONDUIT, AND POWER REQUIREMENTS.

L. ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE VOLTAGE, PHASE, AND HORSEPOWER OF ALL ELECTRICAL EQUIPMENT PURCHASED AND SUPPLIED TO THE SITE. ELECTRICAL CONTRACTOR SHALL SUPPLY FUSES OR CIRCUIT BREAKERS PER MANUFACTURER'S RECOMMENDATIONS WHERE NECESSARY.

M. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE TYPEWRITTEN PANEL SCHEDULE DIRECTORY IN ANY PANEL UNDERGOING WORK AT PROJECT COMPLETION OF ALL CIRCUITS UTILIZED, IDENTIFYING THE LOADS THAT THEY ARE SERVING.

N. ALL JUNCTION BOXES AND DISCONNECT SWITCH LOCATIONS SHALL BE COORDINATED IN THE FIELD. JUNCTION BOXES AND DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT ABOVE CEILINGS SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE FROM ACCESS PANELS. COORDINATE WITH MECHANICAL CONTRACTOR.

O. ELECTRICAL CONTRACTOR SHALL INSTALL ALL STARTERS, AND VARIABLE FREQUENCY DRIVES (FURNISHED BY MECHANICAL CONTRACTOR) AND PROVIDE CONDUIT AND WIRING TO AND FROM STARTERS AND VFDs TO MECHANICAL EQUIPMENT AND/OR ITS ASSOCIATED DISCONNECT SWITCHES. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS AND REQUIREMENTS.

FIRE ALARM COORDINATION NOTES

1. ALL FIRE ALARM WORK SHALL BE UNDER THE ELECTRICAL CONTRACT.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER REQUIREMENTS TO FIRE ALARM EQUIPMENT-DEVICES REGARDLESS IF ONLY INDICATED ON FA-DRAWINGS.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WIRING OF EQUIPMENT-DEVICES FURNISHED AND/OR INSTALLED BY OTHER DIVISIONS ASSOCIATED WITH THE FA SYSTEM.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE INTERFACES-CONNECTIONS TO EQUIPMENT PROVIDED BY OTHER DIVISIONS ASSOCIATED WITH THE FA SYSTEM.
5. REFER TO FIRE ALARM DRAWINGS/SPECS FOR ADDITIONAL COORDINATION REQUIREMENTS.

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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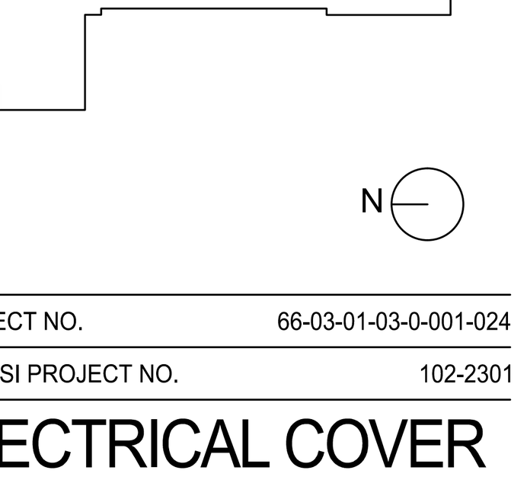
KEY PLAN



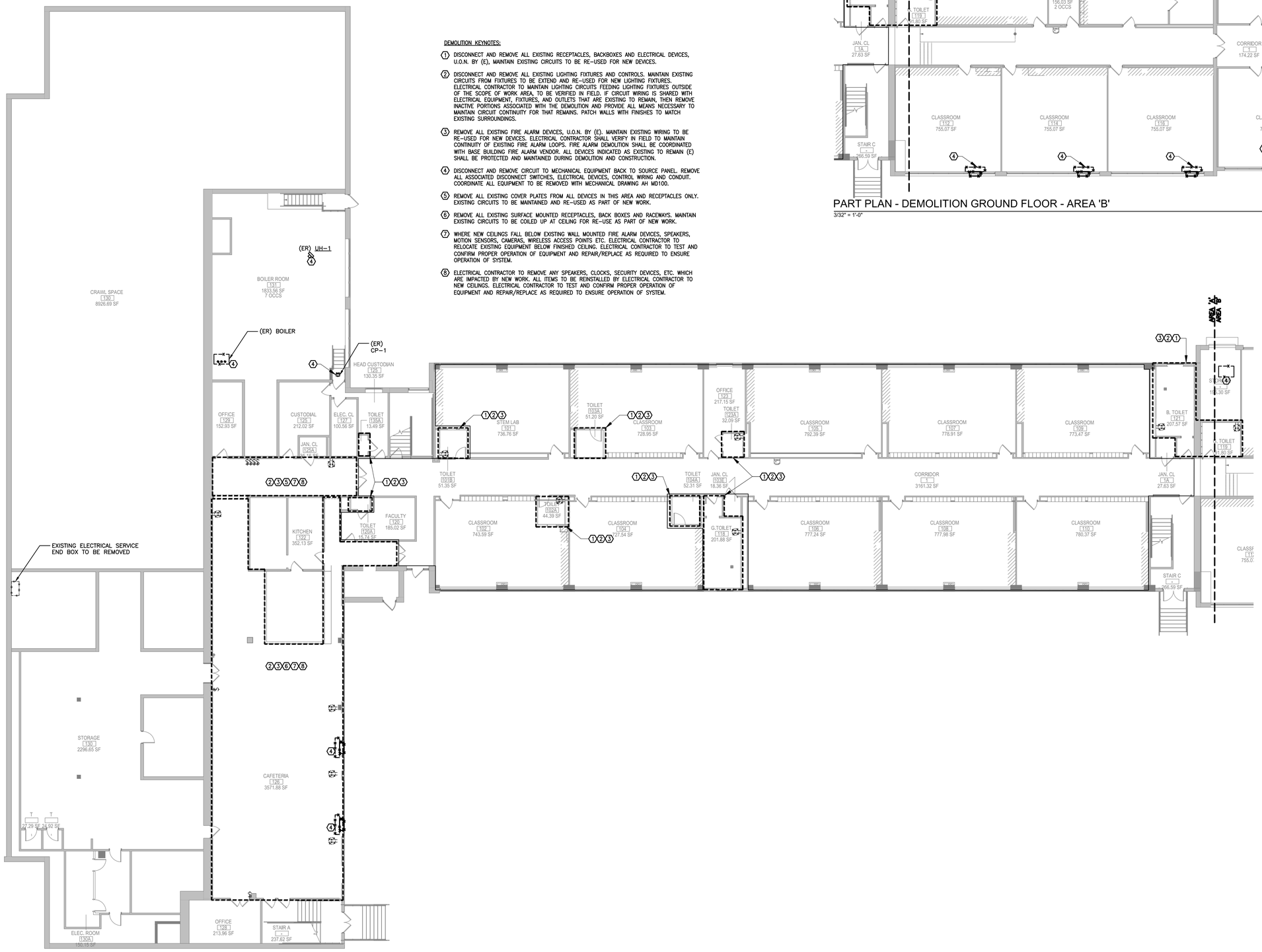
PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ELECTRICAL COVER SHEET

AH E001

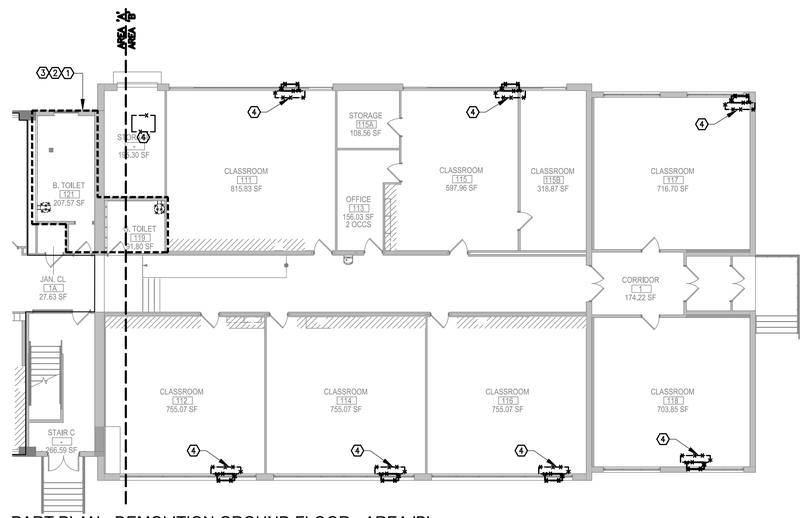
DEMOLITION KEYNOTES:

1. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, BACKBOXES AND ELECTRICAL DEVICES, U.O.N. BY (E), MAINTAIN EXISTING CIRCUITS TO BE RE-USED FOR NEW DEVICES.
2. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AND CONTROLS. MAINTAIN EXISTING CIRCUITS FROM FIXTURES TO BE EXTEND AND RE-USED FOR NEW LIGHTING FIXTURES. ELECTRICAL CONTRACTOR TO MAINTAIN LIGHTING CIRCUITS FEEDING LIGHTING FIXTURES OUTSIDE OF THE SCOPE OF WORK AREA, TO BE VERIFIED IN FIELD. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT, FIXTURES, AND OUTLETS THAT ARE EXISTING TO REMAIN, THEN REMOVE INACTIVE PORTIONS ASSOCIATED WITH THE DEMOLITION AND PROVIDE ALL MEANS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY FOR THAT REMAINS. PATCH WALLS WITH FINISHES TO MATCH EXISTING SURROUNDINGS.
3. REMOVE ALL EXISTING FIRE ALARM DEVICES, U.O.N. BY (E), MAINTAIN EXISTING WIRING TO BE RE-USED FOR NEW DEVICES. ELECTRICAL CONTRACTOR SHALL VERIFY IN FIELD TO MAINTAIN CONTINUITY OF EXISTING FIRE ALARM LOOPS. FIRE ALARM DEMOLITION SHALL BE COORDINATED WITH BASE BUILDING FIRE ALARM VENDOR. ALL DEVICES INDICATED AS EXISTING TO REMAIN (E) SHALL BE PROTECTED AND MAINTAINED DURING DEMOLITION AND CONSTRUCTION.
4. DISCONNECT AND REMOVE CIRCUIT TO MECHANICAL EQUIPMENT BACK TO SOURCE PANEL. REMOVE ALL ASSOCIATED DISCONNECT SWITCHES, ELECTRICAL DEVICES, CONTROL WIRING AND CONDUIT. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH MECHANICAL DRAWING AH MD100.
5. REMOVE ALL EXISTING COVER PLATES FROM ALL DEVICES IN THIS AREA AND RECEPTACLES ONLY. EXISTING CIRCUITS TO BE MAINTAINED AND RE-USED AS PART OF NEW WORK.
6. REMOVE ALL EXISTING SURFACE MOUNTED RECEPTACLES, BACK BOXES AND RACEWAYS. MAINTAIN EXISTING CIRCUITS TO BE COILED UP AT CEILING FOR RE-USE AS PART OF NEW WORK.
7. WHERE NEW CEILINGS FALL BELOW EXISTING WALL MOUNTED FIRE ALARM DEVICES, SPEAKERS, MOTION SENSORS, CAMERAS, WIRELESS ACCESS POINTS ETC. ELECTRICAL CONTRACTOR TO RELOCATE EXISTING EQUIPMENT BELOW FINISHED CEILING. ELECTRICAL CONTRACTOR TO TEST AND CONFIRM PROPER OPERATION OF EQUIPMENT AND REPAIR/REPLACE AS REQUIRED TO ENSURE OPERATION OF SYSTEM.
8. ELECTRICAL CONTRACTOR TO REMOVE ANY SPEAKERS, CLOCKS, SECURITY DEVICES, ETC. WHICH ARE IMPACTED BY NEW WORK. ALL ITEMS TO BE REINSTALLED BY ELECTRICAL CONTRACTOR TO NEW CEILINGS. ELECTRICAL CONTRACTOR TO TEST AND CONFIRM PROPER OPERATION OF EQUIPMENT AND REPAIR/REPLACE AS REQUIRED TO ENSURE OPERATION OF SYSTEM.



PART PLAN - DEMOLITION GROUND FLOOR - AREA 'A'

3/32" = 1'-0"



PART PLAN - DEMOLITION GROUND FLOOR - AREA 'B'

3/32" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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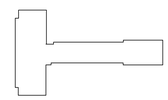

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PROJECT NO. 66-03-01-03-0-001-024

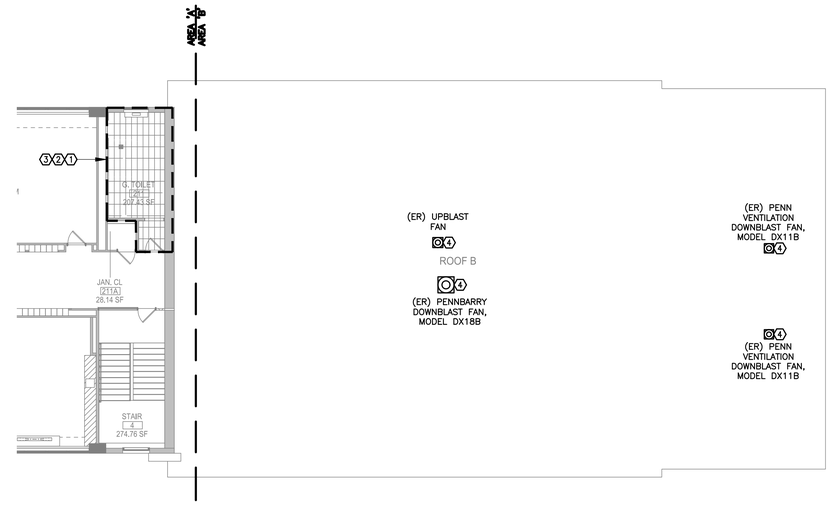
MEMASI PROJECT NO. 102-2301

ELECTRICAL DEMOLITION PLAN - GROUND FLOOR

AH ED100

DEMOLITION KEYNOTES:

1. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, BACKBOXES AND ELECTRICAL DEVICES, U.O.N. BY (E), MAINTAIN EXISTING CIRCUITS TO BE RE-USED FOR NEW DEVICES.
2. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AND CONTROLS. MAINTAIN EXISTING CIRCUITS FROM FIXTURES TO BE EXTEND AND RE-USED FOR NEW LIGHTING FIXTURES. ELECTRICAL CONTRACTOR TO MAINTAIN LIGHTING CIRCUITS FEEDING LIGHTING FIXTURES OUTSIDE OF THE SCOPE OF WORK AREA, TO BE VERIFIED IN FIELD. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT, FIXTURES, AND OUTLETS THAT ARE EXISTING TO REMAIN, THEN REMOVE INACTIVE PORTIONS ASSOCIATED WITH THE DEMOLITION AND PROVIDE ALL MEANS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY FOR THAT REMAINS. PATCH WALLS WITH FINISHES TO MATCH EXISTING SURROUNDINGS.
3. REMOVE ALL EXISTING FIRE ALARM DEVICES, U.O.N. BY (E). MAINTAIN EXISTING WIRING TO BE RE-USED FOR NEW DEVICES. ELECTRICAL CONTRACTOR SHALL VERIFY IN FIELD TO MAINTAIN CONTINUITY OF EXISTING FIRE ALARM LOOPS. FIRE ALARM DEMOLITION SHALL BE COORDINATED WITH BASE BUILDING FIRE ALARM VENDOR. ALL DEVICES INDICATED AS EXISTING TO REMAIN (E) SHALL BE PROTECTED AND MAINTAINED DURING DEMOLITION AND CONSTRUCTION.
4. DISCONNECT AND REMOVE CIRCUIT TO MECHANICAL EQUIPMENT BACK TO SOURCE PANEL. REMOVE ALL ASSOCIATED DISCONNECT SWITCHES, ELECTRICAL DEVICES, CONTROL WIRING AND CONDUIT. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH MECHANICAL DRAWING AH MD100.
5. WHERE NEW CEILINGS FALL BELOW EXISTING WALL MOUNTED FIRE ALARM DEVICES, SPEAKERS, MOTION SENSORS, CAMERAS, WIRELESS ACCESS POINTS ETC. ELECTRICAL CONTRACTOR TO RELOCATE EXISTING EQUIPMENT BELOW FINISHED CEILING. ELECTRICAL CONTRACTOR TO TEST AND CONFIRM PROPER OPERATION OF EQUIPMENT AND REPAIR/REPLACE AS REQUIRED TO ENSURE OPERATION OF SYSTEM.
6. ELECTRICAL CONTRACTOR TO REMOVE ANY SPEAKERS, CLOCKS, SECURITY DEVICES, ETC. WHICH ARE IMPACTED BY NEW WORK. ALL ITEMS TO BE REINSTALLED BY ELECTRICAL CONTRACTOR TO NEW CEILINGS. ELECTRICAL CONTRACTOR TO TEST AND CONFIRM PROPER OPERATION OF EQUIPMENT AND REPAIR/REPLACE AS REQUIRED TO ENSURE OPERATION OF SYSTEM.



DEMOLITION PART PLAN - FIRST FLOOR - AREA 'B'

3/32" = 1'-0"

DEMOLITION PART PLAN - FIRST FLOOR - AREA 'A'

3/32" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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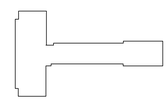

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PROJECT NO. 66-03-01-03-0-001-024

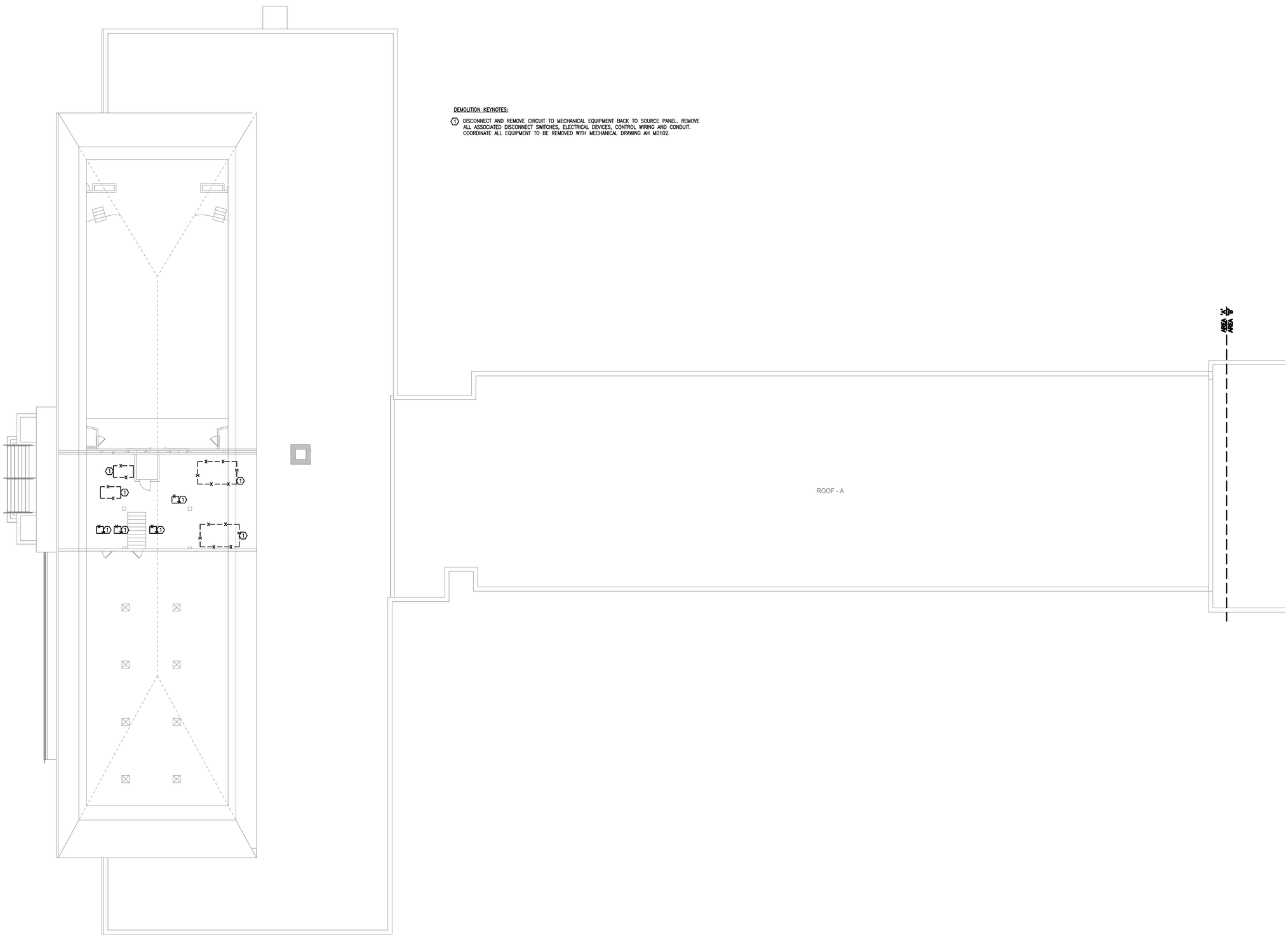
MEMASI PROJECT NO. 102-2301

ELECTRICAL DEMOLITION PLAN - FIRST FLOOR

AH ED101

DEMOLITION KEYNOTES:

1 DISCONNECT AND REMOVE CIRCUIT TO MECHANICAL EQUIPMENT BACK TO SOURCE PANEL. REMOVE ALL ASSOCIATED DISCONNECT SWITCHES, ELECTRICAL DEVICES, CONTROL WIRING AND CONDUIT. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH MECHANICAL DRAWING AH MD102.



PART PLAN - ROOF - AREA 'A'

3/32" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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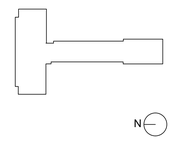

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PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

ELECTRICAL DEMOLITION PLAN - ROOF

AH ED102

POWER NOTES:

1. ELECTRICAL CONTRACTOR TO CUT OUT AND REMOVE SELECT PORTIONS OF WALLS AS NEEDED TO SUIT NEW PANELS. PATCH WALLS WITH FINISHES TO MATCH EXISTING SURROUNDINGS AS REQUIRED.
2. ELECTRICAL CONTRACTOR SHALL REINSTALL ALL EXISTING CEILING MOUNTED SECURITY DEVICES, WIRELESS ACCESS POINTS, AND SPEAKERS TEMPORARILY SUPPORTED DURING CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL TEST AND ENSURE PROPER FUNCTION OF THESE DEVICES/EQUIPMENT BEFORE & AFTER REINSTALLATION. ELECTRICAL CONTRACTOR SHALL REPLACE ANY DEVICES/EQUIPMENT DAMAGED DURING CONSTRUCTION. COORDINATE INSTALLATION WITH FINISHED CEILING. ELECTRICAL CONTRACTOR TO PROVIDE MARKED SURVEY DRAWINGS SHOWING LOCATION AND CONFIRMING FUNCTIONAL STATUS PRIOR TO ANY DEMOLITION WORK.
3. ELECTRICAL CONTRACTOR SHALL REPLACE ALL EXISTING FIRE ALARM DEVICES DURING CONSTRUCTION WITH NEW AND PROVIDE NEW DEVICES IN AREAS NOTED ON DRAWINGS.
4. WHERE MODIFICATIONS TO EXISTING PERIMETER COUNTERS ARE REQUIRED TO ACCOMMODATE MECHANICAL UNIT VENTILATORS OR FCU'S ELECTRICAL CONTRACTOR SHALL REMOVE ANY EXISTING RECEPTACLES AT AFFECTED COUNTER. ELECTRICAL CONTRACTOR SHALL ALSO MODIFY ALL ELECTRICAL CONDUIT INFRASTRUCTURE AT THESE LOCATIONS TO ALLOW FOR MECHANICAL INSTALLATIONS AND PROVIDE NEW CIRCUITS TO UNITS.
5. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A DEDICATED HARDWIRED CIRCUIT TO HAND DRYER.
6. WITHIN NOTED AREA, ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL RECEPTACLES AT EXISTING LOCATIONS WITH DEDICATED CIRCUITS BACK TO EXISTING SOURCE.
7. PROVIDE POWER TO ALL RESTROOM FIXTURES PER MANUFACTURE'S INSTALLATION REQUIREMENTS.

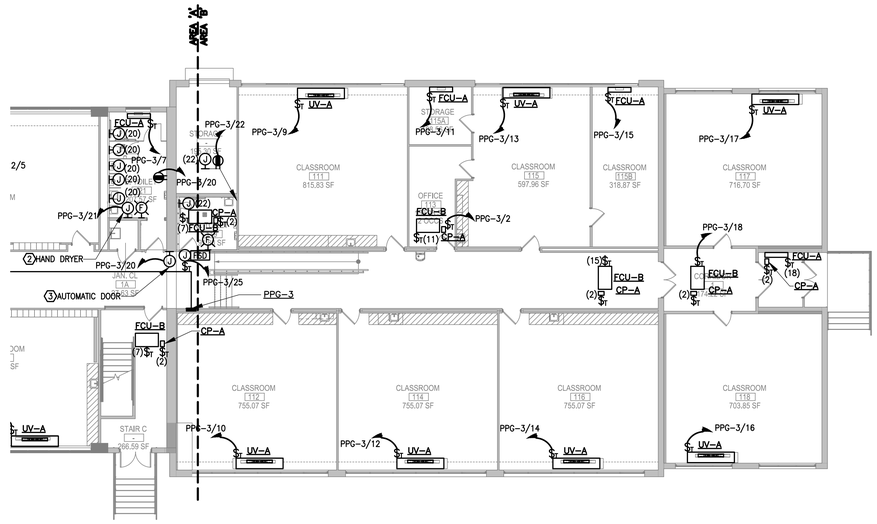
KEYNOTES:

(1) PROVIDE BACKBOX EXTENSION COLLAR TO INSTALL NEW RECEPTACLE FLUSH WITH NEW WALL TILE, RACO 653 OR APPROVED EQUAL.

(2) ELECTRICAL CONTRACTOR TO INSTALL HAND DRYER PER MANUFACTURES INSTALLATION REQUIREMENTS.

(3) ELECTRICAL CONTRACTOR TO INSTALL AUTOMATIC DOOR OPENER PER MANUFACTURE'S INSTALLATION REQUIREMENTS.

(4) PROVIDE SPLICE BOXES FOR ALL EXISTING LOADS TO BE TIED BACK TO NEW DISTRIBUTION BOARD "DPG-1" AND MAKE WALL SPACE AVAILABLE FOR NEW PANEL "PPG-2".



PART PLAN - GROUND FLOOR - AREA 'B'

3/32" = 1'-0"

PART PLAN - GROUND FLOOR - AREA 'A'

3/32" = 1'-0"

ELECTRICAL ROOM PART PLAN - NEW WORK

1/4" = 1'-0"

ELECTRICAL ROOM PART PLAN - DEMOLITION

1/4" = 1'-0"

GENERAL NOTES – CUTTING AND PATCHING:

A. WHERE NEW EQUIPMENT, BACKBOXES, WIRES, AND CONDUITS INSTALLED BY THE ELECTRICAL CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

B. ELECTRICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE MECHANICAL SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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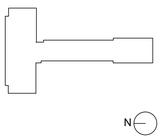
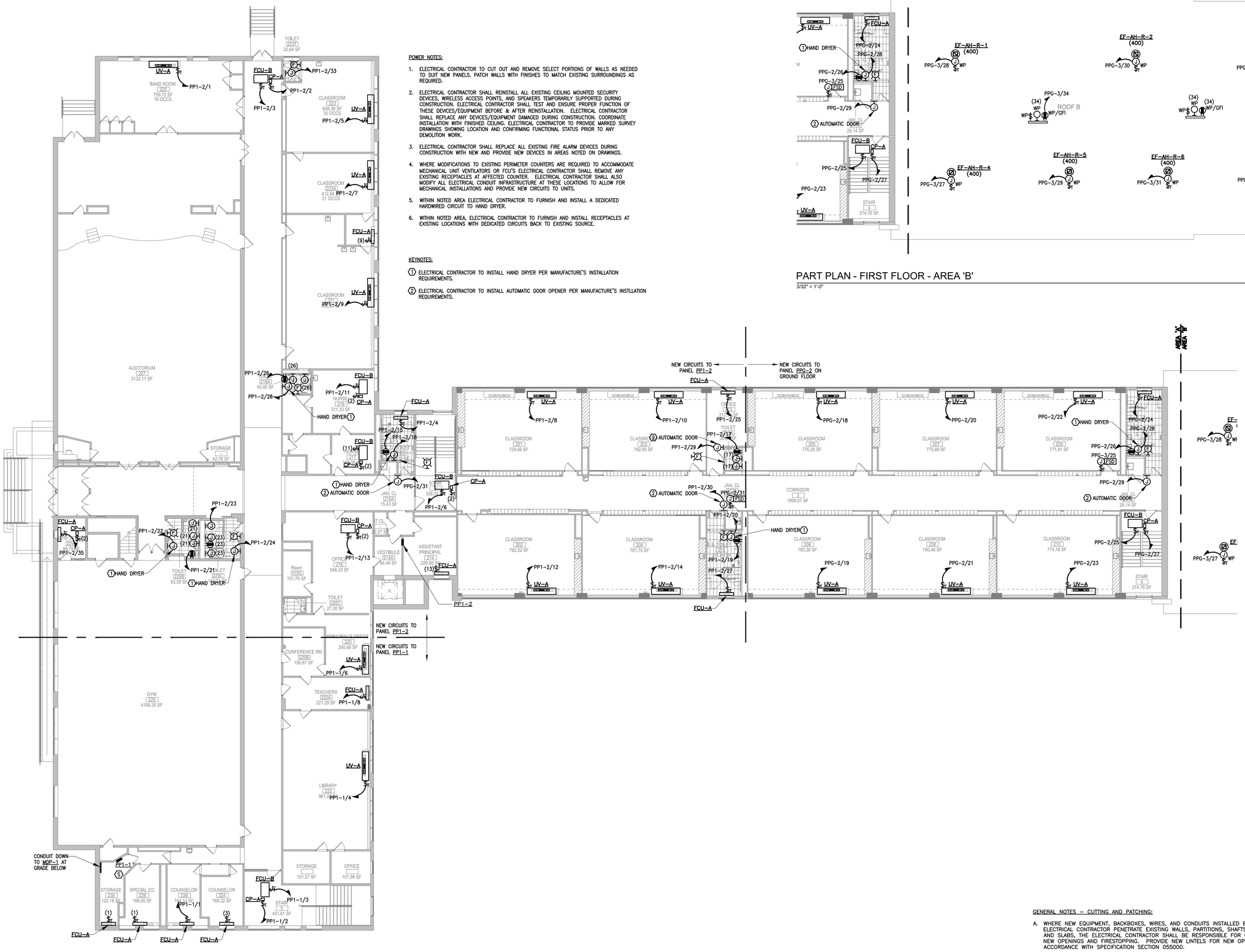


PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

ELECTRICAL POWER PLAN - GROUND FLOOR

AH E100



PART PLAN - FIRST FLOOR - AREA 'A'

3/32" = 1'-0"

PART PLAN - FIRST FLOOR - AREA 'B'

3/32" = 1'-0"

POWER NOTES:

1. ELECTRICAL CONTRACTOR TO CUT OUT AND REMOVE SELECT PORTIONS OF WALLS AS NEEDED TO SUIT NEW PANELS. PATCH WALLS WITH FINISHES TO MATCH EXISTING SURROUNDINGS AS REQUIRED.
2. ELECTRICAL CONTRACTOR SHALL REINSTALL ALL EXISTING CEILING MOUNTED SECURITY DEVICES, WIRELESS ACCESS POINTS, AND SPEAKERS TEMPORARILY SUPPORTED DURING CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL TEST AND ENSURE PROPER FUNCTION OF THESE DEVICES/EQUIPMENT BEFORE & AFTER REINSTALLATION. ELECTRICAL CONTRACTOR SHALL REPLACE ANY DEVICES/EQUIPMENT DAMAGED DURING CONSTRUCTION. COORDINATE INSTALLATION WITH FINISHED CEILING. ELECTRICAL CONTRACTOR TO PROVIDE MARKED SURVEY DRAWINGS SHOWING LOCATION AND CONFIRMING FUNCTIONAL STATUS PRIOR TO ANY DEMOLITION WORK.
3. ELECTRICAL CONTRACTOR SHALL REPLACE ALL EXISTING FIRE ALARM DEVICES DURING CONSTRUCTION WITH NEW AND PROVIDE NEW DEVICES IN AREAS NOTED ON DRAWINGS.
4. WHERE MODIFICATIONS TO EXISTING PERIMETER COUNTERS ARE REQUIRED TO ACCOMMODATE MECHANICAL UNIT VENTILATORS OR FCU'S ELECTRICAL CONTRACTOR SHALL REMOVE ANY EXISTING RECEPTACLES AT AFFECTED COUNTER. ELECTRICAL CONTRACTOR SHALL ALSO MODIFY ALL ELECTRICAL CONDUIT INFRASTRUCTURE AT THESE LOCATIONS TO ALLOW FOR MECHANICAL INSTALLATIONS AND PROVIDE NEW CIRCUITS TO UNITS.
5. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A DEDICATED HARDWIRED CIRCUIT TO HAND DRYER.
6. WITHIN NOTED AREA, ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL RECEPTACLES AT EXISTING LOCATIONS WITH DEDICATED CIRCUITS BACK TO EXISTING SOURCE.

KEYNOTES:

1. ELECTRICAL CONTRACTOR TO INSTALL HAND DRYER PER MANUFACTURE'S INSTALLATION REQUIREMENTS.
2. ELECTRICAL CONTRACTOR TO INSTALL AUTOMATIC DOOR OPENER PER MANUFACTURE'S INSTLLATION REQUIREMENTS.

GENERAL NOTES – CUTTING AND PATCHING:

A. WHERE NEW EQUIPMENT, BACKBOXES, WIRES, AND CONDUITS INSTALLED BY THE ELECTRICAL CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

B. ELECTRICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE MECHANICAL SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

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2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

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30 OAK STREET, SUITE 400
STAMFORD, CT 06905

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ONE PENN PLAZA
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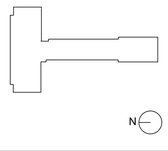
ISSUE	DATE
ISSUED FOR BID	11/06/2024

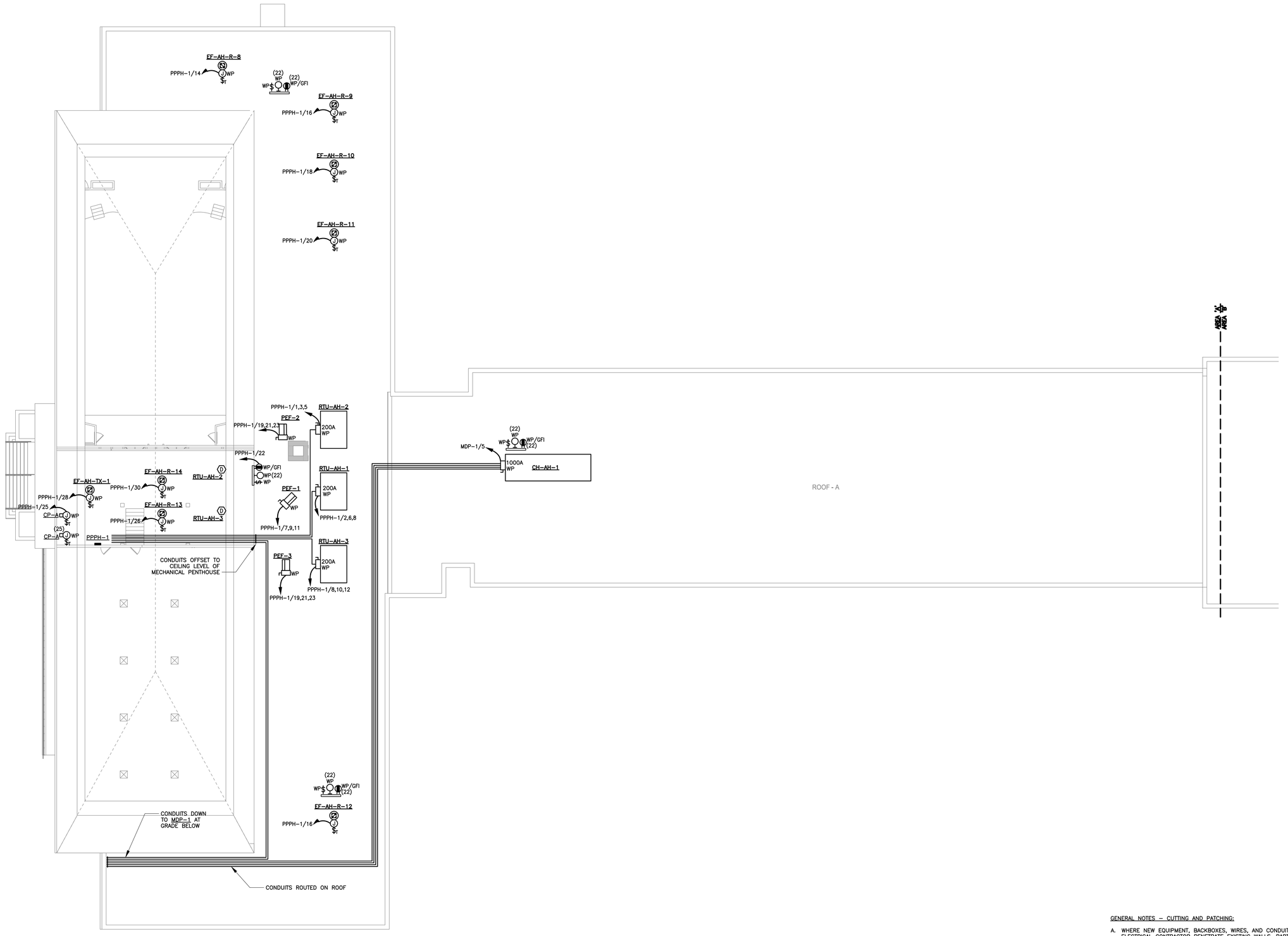
KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ELECTRICAL POWER PLAN - FIRST FLOOR

AH E101



PART PLAN - ROOF - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – CUTTING AND PATCHING:

A. WHERE NEW EQUIPMENT, BACKBOXES, WIRES, AND CONDUITS INSTALLED BY THE ELECTRICAL CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

B. ELECTRICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE MECHANICAL SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
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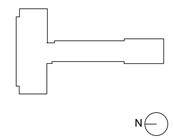


PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

ELECTRICAL POWER PLAN - ROOF

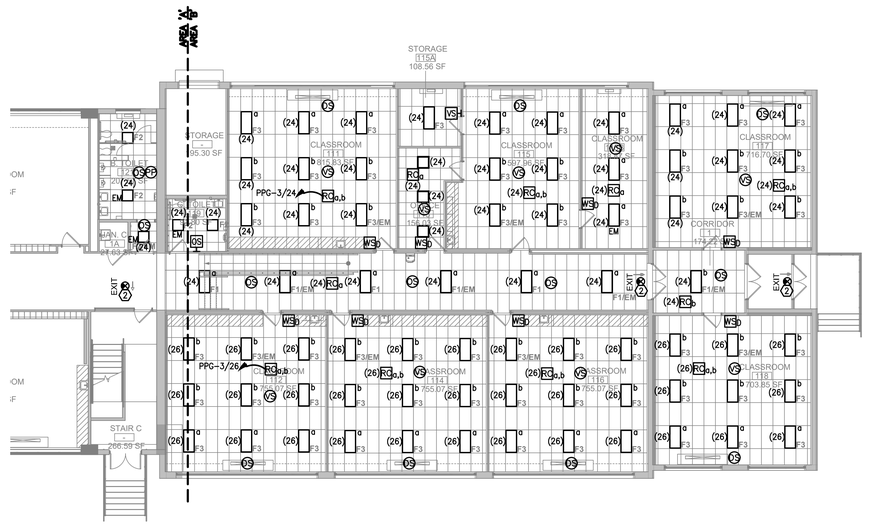
AH E102

LIGHTING NOTES:

1. CAFETERIA ROOM CONTROLLER SHALL HAVE TIME CLOCK INTERFACE TO MAINTAIN LIGHTING ON REGARDLESS OF OCCUPANCY SENSOR STATUS DURING NORMAL SCHOOL HOURS (TIME CLOCK ON STATE). LIGHTING FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AFTER HOURS (TIME CLOCK OFF STATE). TIE CAFETERIA ROOM CONTROLLER TO EXISTING AVAILABLE NETWORK AND PROVIDE CAT 5E CABLE TO NEAREST CORRIDOR ROOM CONTROLLER.
2. ALLOW FOR 0-10V CONTROL WIRE FOR LIGHTING FIXTURES IN CAFETERIA AND CLASSROOMS.
3. EXIT SIGNS AND LIGHTING FIXTURES WITH AN ADJACENT 'EM' DESIGNATION SHALL INCLUDE AN INTEGRAL 90 MINUTE EMERGENCY BATTERY DRIVER WITH TEST BUTTON AND STATUS LED. PROVIDE AN UN-SWITCH HOT LEG WIRE TO CONTROLLED EMERGENCY LIGHTING FIXTURES FOR BATTERY CHARGE AND VOLTAGE SENSING. PROVIDE A DEDICATED UN-CONTROLLED CIRCUIT TO NIGHT LIGHTS AND EXIT SIGNS.
4. LIGHTING CIRCUIT NUMBERS ARE SHOWN FOR REFERENCE ONLY. RE-USE EXISTING LIGHTING CIRCUIT. WHERE ADDITIONAL CIRCUITS ARE REQUIRED, CONNECT TO SPARE CIRCUIT BREAKERS WITHIN EXISTING PANELS OR THE NEW PANELS TO BE ADDED.
5. PROVIDE POWER FROM EXIT SIGN AHEAD OF AREA LIGHTING CONTROLS.
6. BATHROOMS WITH OCCUPANCY FOR MORE THAN ONE PERSON SHALL BE PROVIDED WITH POWER PACKS AND CEILING MOUNTED OCCUPANCY SENSORS. WALL SWITCHES SHALL NOT BE PROVIDED.
7. PROVIDE ROOM CONTROLLERS OF REQUIRED QUANTITY FOR LIGHTING FIXTURES IN CLASSROOMS, OFFICES, CORRIDORS, AND MISCELLANEOUS OCCUPIED SPACES. LIGHTING FIXTURE CIRCUITS WITHIN CLASSROOMS SHALL WIRE THROUGH ROOM CONTROLLER FOR VACANCY SENSOR AND WALL STATION CONTROL.
8. CORRIDOR ROOM CONTROLLERS SHALL HAVE TIME CLOCK INTERFACE TO MAINTAIN LIGHTING ON REGARDLESS OF OCCUPANCY SENSOR STATUS DURING NORMAL SCHOOL HOURS (TIME CLOCK ON STATE). LIGHTING FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AFTER HOURS (TIME CLOCK OFF STATE).
9. REFER TO LIGHTING CONTROL WIRING DIAGRAMS ON DRAWING E-501.
10. COORDINATE INSTALLATION OF LIGHT SWITCHES WITH EXISTING CONDITIONS. RECESS ALL SWITCHING DEVICES AND INSTALL ALL ASSOCIATED BOXES AND RACEWAYS WITHIN EXISTING WALLS. PATCH EXISTING WALLS WITH FINISHES AS REQUIRED TO MATCH EXISTING SURROUNDINGS.

KEYNOTES:

1. EXISTING LIGHTING FIXTURE TO BE RE-CENTERED WITH NEW CEILINGS. EXTEND LIGHTING CIRCUIT IN THE AREA TO NEW FIXTURES.
2. EXTEND EXISTING EXIT SIGN CIRCUIT TO NEW EXIT SIGN.



LIGHTING PART PLAN - GROUND FLOOR - AREA 'B'

3/32" = 1'-0"

LIGHTING PART PLAN - GROUND FLOOR - AREA 'A'

3/32" = 1'-0"

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ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
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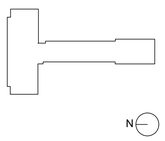

PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

ELECTRICAL LIGHTING PLAN - GROUND FLOOR

AH E200

LIGHTING NOTES:

1. AUDITORUM ROOM CONTROLLER SHALL HAVE TIME CLOCK INTERFACE TO MAINTAIN LIGHTING ON REGARDLESS OF OCCUPANCY SENSOR STATUS DURING NORMAL SCHOOL HOURS (TIME CLOCK ON STATE). LIGHTING FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AFTER HOURS (TIME CLOCK OFF STATE). THE CAFETERIA ROOM CONTROLLER TO EXISTING AVAILABLE NETWORK AND PROVIDE CAT 5E CABLE TO NEAREST CORRIDOR ROOM CONTROLLER.
2. ALLOW FOR 0-10V CONTROL WIRE FOR LIGHTING FIXTURES IN CAFETERIA AND CLASSROOMS.
3. EXIT SIGNS AND LIGHTING FIXTURES WITH AN ADJACENT 'EM' DESIGNATION SHALL INCLUDE AN INTEGRAL 90 MINUTE EMERGENCY BATTERY DRIVER WITH TEST BUTTON AND STATUS LED. PROVIDE AN UN-SWITCH HOT LEG WIRE TO CONTROLLED EMERGENCY LIGHTING FIXTURES FOR BATTERY CHARGE AND VOLTAGE SENSING. PROVIDE A DEDICATED UN-CONTROLLED CIRCUIT TO NIGHT LIGHTS AND EXIT SIGNS.
4. LIGHTING CIRCUIT NUMBERS ARE SHOWN FOR REFERENCE ONLY. RE-USE EXISTING LIGHTING CIRCUIT. WHERE ADDITIONAL CIRCUITS ARE REQUIRED, CONNECT TO SPARE CIRCUIT BREAKERS WITHIN EXISTING PANELS OR THE NEW PANELS TO BE ADDED.
5. PROVIDE POWER FROM EXIT SIGN AHEAD OF AREA LIGHTING CONTROLS.
6. BATHROOMS WITH OCCUPANCY FOR MORE THAN ONE PERSON SHALL BE PROVIDED WITH POWER PACKS AND CEILING MOUNTED OCCUPANCY SENSORS. WALL SWITCHES SHALL NOT BE PROVIDED.
7. PROVIDE ROOM CONTROLLERS OF REQUIRED QUANTITY FOR LIGHTING FIXTURES IN CLASSROOMS, OFFICES, CORRIDORS, AND MISCELLANEOUS OCCUPIED SPACES. LIGHTING FIXTURE CIRCUITS WITHIN CLASSROOMS SHALL WIRE THROUGH ROOM CONTROLLER FOR VACANCY SENSOR AND WALL STATION CONTROL.
8. CORRIDOR ROOM CONTROLLERS SHALL HAVE TIME CLOCK INTERFACE TO MAINTAIN LIGHTING ON REGARDLESS OF OCCUPANCY SENSOR STATUS DURING NORMAL SCHOOL HOURS (TIME CLOCK ON STATE). LIGHTING FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AFTER HOURS (TIME CLOCK OFF STATE).
9. REFER TO LIGHTING CONTROL WIRING DIAGRAMS ON DRAWING E-501.
10. COORDINATE INSTALLATION OF LIGHT SWITCHES WITH EXISTING CONDITIONS. RECESS ALL SWITCHING DEVICES AND INSTALL ALL ASSOCIATED BOXES AND RACEWAYS WITHIN EXISTING WALLS. PATCH EXISTING WALLS WITH FINISHES AS REQUIRED TO MATCH EXISTING SURROUNDINGS.

KEYNOTES:

(1) EXTEND EXISTING EXIT SIGN CIRCUIT TO NEW EXIT SIGN.

LIGHTING PLAN - FIRST FLOOR - AREA 'B'

3/32" = 1'-0"

LIGHTING PLAN - FIRST FLOOR - AREA 'A'

3/32" = 1'-0"

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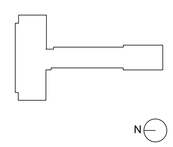
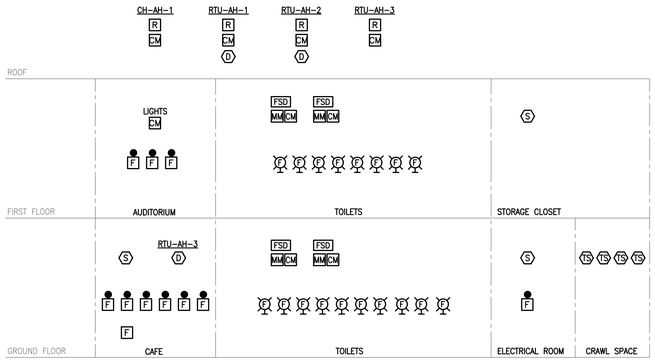


PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

ELECTRICAL LIGHTING PLAN - FIRST FLOOR

AH E201



1 PARTIAL FIRE ALARM RISER

SCALE: NTS

ELECTRICAL CONTRACTOR SHALL REFER TO FLOOR PLANS FOR EXACT QUANTITIES OF ALL FIRE ALARM DEVICES. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF ALL DUCT SMOKE DETECTORS. PROVIDE ADDITIONAL POWER SUPPLY AS REQUIRED.

FIRE ALARM RISER GENERAL NOTES:

1. PROVIDE ALL EQUIPMENT, PROGRAMMING & WIRING REQUIRED FOR A COMPLETE CODE COMPLIANT SYSTEM.
2. PROVIDE ALL FILING, PERMIT & FIRE DEPARTMENT INSPECTION FEES.
3. ALL NOTIFICATION AND SIGNAL LINE CIRCUITS SHALL BE CLASS B WIRING WITHOUT T-TAPPING OF CIRCUITS.
4. COORDINATE WITH THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE EXACT SEQUENCE OF OPERATIONS.
5. SMOKE DETECTORS SHALL BE A MINIMUM OF 3 FEET FROM ALL SUPPLY DIFFUSERS.
6. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT WHEN RUN EXPOSED IN MECHANICAL ROOMS. PROVIDE CONDUIT CONCEALED IN WALLS UP TO ACCESSIBLE CEILING WITH INSULATING BUSHING FOR ALL WALL MOUNTED FIRE ALARM DEVICES.
7. ALL FIRE ALARM EQUIPMENT SHALL BE APPROVED BY LOCAL AHJ PRIOR TO ORDERING.
8. FIRE ALARM RISER IS A DIAGRAMMATIC REPRESENTATION OF THE SYSTEM. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
9. ALL FIRE ALARM CABLING SHALL BE PLENUM RATED AND MEET PATHWAY SURVIVABILITY LEVEL 2.
10. ALL FIRE ALARM ANNUNCIATING DEVICES SHALL BE "RED".
11. PROVIDE A CONTROL MODULE AND RELAY FOR ALL FIRE SMOKE DAMPERS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES. PROVIDE DUCT SMOKE DETECTORS TO ACTIVATE FIRE SMOKE DAMPERS AS REQUIRED.
12. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT INCLUDE MANUFACTURER'S CUT SHEETS WITH EQUIPMENT MODEL NUMBERS, BATTERY CALCULATIONS, CONDUCTOR TYPE AND SIZES, AND VOLTAGE DROP CALCULATIONS.
13. REMOVE EXISTING FIRE ALARM DEVICES IN SCOPE OF WORK AREA WHERE NEW DEVICES ARE INDICATED.
14. ALL NEW FIRE ALARM DEVICES SHALL BE TIED INTO EXISTING ADDRESSABLE FIRE ALARM LOOPS. PROVIDE ADDITIONAL ADDRESSABLE CARDS/AMPLIFIER/POWER SUPPLY/WIRING AND CONDUIT AS REQUIRED.

POWER RISER GENERAL NOTES:

1. ALL ELECTRICAL PANELS TO BE PROVIDED WITH COPPER BUSING AND LOADS TO BE PHASE BALANCED.
2. ALL ELECTRICAL FEEDERS TO BE ALUMINUM UNLESS OTHERWISE NOTED BY SUBSCRIPT "CU" AND ALL BRANCH CIRCUITING SHALL BE COPPER.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR EXACT REQUIREMENTS OF SERVICE. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE IN CONFORMANCE WITH CON ED SPECIFICATIONS AND DETAILS. REFER TO CIVIL DRAWINGS FOR EXACT LOCATIONS OF NEW EQUIPMENT, STRUCTURES, AND ROUTING OF CONDUITS. NOT ALL SPECIFICATION/DETAIL NUMBERS INDICATED ON DRAWINGS.
4. PRIMARY AND SECONDARY UTILITY SERVICE CONDUITS SHALL BE RIGID GALVANIZED STEEL, AS REQUIRED BY UTILITY COMPANY. REFER TO CON ED SPECIFICATIONS FOR TRENCH REQUIREMENTS AND BURIAL DEPTHS.
5. ELECTRICAL CONTRACTOR SHALL ISSUE SWITCHBOARD AND METERING EQUIPMENT SHOP DRAWINGS TO LOCAL UTILITY CO. FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT. COORDINATE AVAILABLE FAULT CURRENT AT POINT OF SERVICE TERMINATION WITH UTILITY CO.
6. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE DROP ON FEEDERS BASED ON ROUTING OF FEEDER CHOSEN IN FIELD. CUMMULATIVE VOLTAGE DROP FROM UTILITY TRANSFORMER SECONDARY LUGS TO FINAL LOAD SHALL NOT EXCEED 5%, NO INDIVIDUAL FEEDER SHALL EXCEED 3%, AND NO INDIVIDUAL BRANCH CIRCUIT SHALL EXCEED 2%.
7. PROVIDE CABLE SUPPORTS FOR ALL VERTICAL RISERS PER NEC TABLE 300.19(A).
8. PROVIDE PULL BOXES AS REQUIRED, SIZED PER NEC. PULL BOXES INSTALLED IN THE GARAGE SHALL BE STAINLESS STEEL.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE THE APPROPRIATE QUANTITY/SIZE OF LUGS IN PANELBOARDS, SWITCHBOARDS, AND CIRCUIT BREAKERS TO ACCOMMODATE THE QUANTITY/SIZE OF CONDUCTORS TO BE TERMINATED. WHERE INCREASED LUG SIZES ARE NOT AVAILABLE, ELECTRICAL CONTRACTOR SHALL PROVIDE SUITABLE COMPRESSION TYPE CABLE REDUCERS WITH ASSOCIATED SPLICE BOXES AS NEEDED.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE MOUNTING AND SUPPORT FOR PANELBOARDS AND EQUIPMENT, AS REQUIRED.
11. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT FEEDER/CONDUIT ROUTING IN FIELD IN CONJUNCTION WITH ARCHITECTURAL DEMOLITION AND NEW WORK PLANS PRIOR TO BID. ANY CONDUIT ROUTING NOTED ON FLOOR PLANS IS DIAGRAMMATIC.

POWER RISER DEMOLITION KEY NOTES:

- (D1) DISCONNECT AND REMOVE EXISTING UTILITY SERVICE CONDUCTORS. PATCH, SEAL AND REPAIR WALL FROM EXISTING TO BE REMOVED CONDUIT PENETRATIONS THROUGH EXTERIOR WALL.
- (D2) DISCONNECT AND REMOVE EXISTING SERVICE END BOX. PATCH AND REPAIR WALL AFTER REMOVAL.
- (D3) EXISTING CONDUITS SHALL BE MAINTAINED. REFER TO NEW WORK POWER RISER FOR ADDITIONAL INFORMATION.
- (D4) DISCONNECT AND REMOVE EXISTING MAIN SERVICE DISCONNECT SWITCH, CT CABINET, METER, AND DISTRIBUTION BOARD, AND ASSOCIATED FEEDER CONDUCTORS AND CONDUIT BETWEEN EQUIPMENT. MAINTAIN EXISTING DISTRIBUTION BOARD LOAD SIDE FEEDER CONDUCTORS AND CONDUIT, REFER TO NEW WORK POWER RISER FOR ADDITIONAL INFORMATION.
- (D5) DISCONNECT AND REMOVE EXISTING MAIN SERVICE BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR. REFER TO NEW WORK POWER RISER FOR NEW SERVICE GROUND SYSTEM.

POWER RISER NEW WORK KEY NOTES:

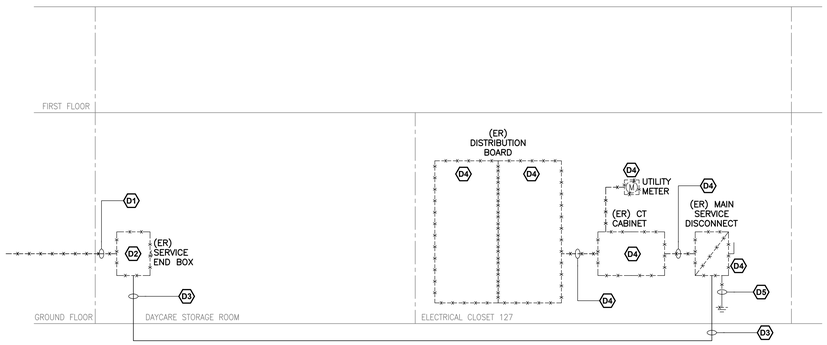
1. EXISTING 3-4" CONDUITS SHALL BE MAINTAINED WITH EXISTING CONDUCTORS TERMINATED INTO NEW PULL BOX FOR FUTURE USE. LABEL PULL BOX AS "SPARE FEEDER FROM GROUND FLOOR ELECTRICAL ROOM" AND "SPARE FEEDER FROM ROOM DAY CARE STORAGE ROOM", RESPECTIVELY.
2. FEEDERS DISCONNECTED FROM EXISTING REMOVED DISTRIBUTION BOARD PER DEMOLITION KEYNOTE 'D4', SHALL BE TERMINATED TO NEW CIRCUIT BREAKERS IN NEW DISTRIBUTION BOARD DGP-1 . ELECTRICAL CONTRACTOR SHALL VERIFY REQUIRED NEW OCPD SIZES IN FIELD, PROVIDE SPLICE BOXES, AND EXTEND WIRING AND CONDUIT, AS REQUIRED.
3. CONDUITS SHALL BE MIN. 3" CONCRETE ENCASED WHERE ROUTED THROUGH THE BUILDING IN ACCORDANCE WITH NEC 230.6. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

FEEDER SCHEDULE
3Ø, 4W (ALUMINUM, U.O.N.)

TAG	FEEDER SIZES	RATING
A	(4) #8 & (1) #8 GRD – 1 1/4"C	40A
B	(4) #6 & (1) #8 GRD – 1 1/4"C	50A
C	(4) #4 & (1) #6 GRD – 1 1/2"C	65A
D	(4) #3 & (1) #6 GRD – 1 1/2"C	75A
E	(4) #2 & (1) #6 GRD – 2"C	90A
F	(4) #1 & (1) #6 GRD – 2"C	100A
G	(4) #1/0 & (1) #4 GRD – 2 1/2"C	120A
H	(4) #2/0 & (1) #4 GRD – 2 1/2"C	135A
I	(4) #3/0 & (1) #4 GRD – 2 1/2"C	155A
J	(4) #4/0 & (1) #4 GRD – 3"C	180A
K	(4) #250 & (1) #4 GRD – 3"C	205A
L	(4) #300 & (1) #2 GRD – 4"C	230A
M	(4) #350 & (1) #2 GRD – 4"C	250A
N	(4) #400 & (1) #2 GRD – 4"C	270A
O	(4) #500 & (1) #2 GRD – 4"C	310A
P	(4) #600 & (1) #1 GRD – 4"C	340A
Q	2 SETS (4) #4/0 & (1) #1 GRD – 3"C	360A
R	2 SETS (4) #250 & (1) #1 GRD – 3"C	410A
S	2 SETS (4) #300 & (1) #1/0 GRD – 4"C	460A
T	2 SETS (4) #350 & (1) #1/0 GRD – 4"C	500A
U	2 SETS (4) #400 & (1) #2/0 GRD – 4"C	540A
V	2 SETS (4) #500 & (1) #2/0 GRD – 4"C	620A
W	2 SETS (4) #600 & (1) #3/0 GRD – 4"C	680A
X	3 SETS (4) #300 & (1) #3/0 GRD – 4"C	690A
Y	3 SETS (4) #350 & (1) #3/0 GRD – 4"C	750A
Z	3 SETS (4) #400 & (1) #3/0 GRD – 4"C	810A
AA	3 SETS (4) #500 & (1) #4/0 GRD – 4"C	930A
BB	3 SETS (4) #600 & (1) #250 GRD – 4"C	1020A
CC	4 SETS (4) #500 & (1) #250 GRD – 4"C	1240A
DD	4 SETS (4) #600 & (1) #350 GRD – 4"C	1360A
EE	5 SETS (4) #600 & (1) #350 GRD – 4"C	1700A
FF	6 SETS (4) #600 & (1) #400 GRD – 4"C	2040A
GG	6 SETS (4) #750 & (1) #600 GRD – 4"C	2310A
HH	8 SETS (4) #600 & (1) #600 GRD – 4"C	2720A
II	9 SETS (4) #600 & (1) #600 GRD – 4"C	3060A
CU	COPPER FEEDER	
VD	INCREASED FEEDER SIZE DUE TO VOLTAGE DROP	
CE	FEEDER ENCASED MIN. 2" CONCRETE	
US	CONDUIT RUN OUTSIDE OF BUILDING UNDER SLAB	
2HR	OMNICABLE VITALINK 2-HR RATED MC, OR SIMILAR	

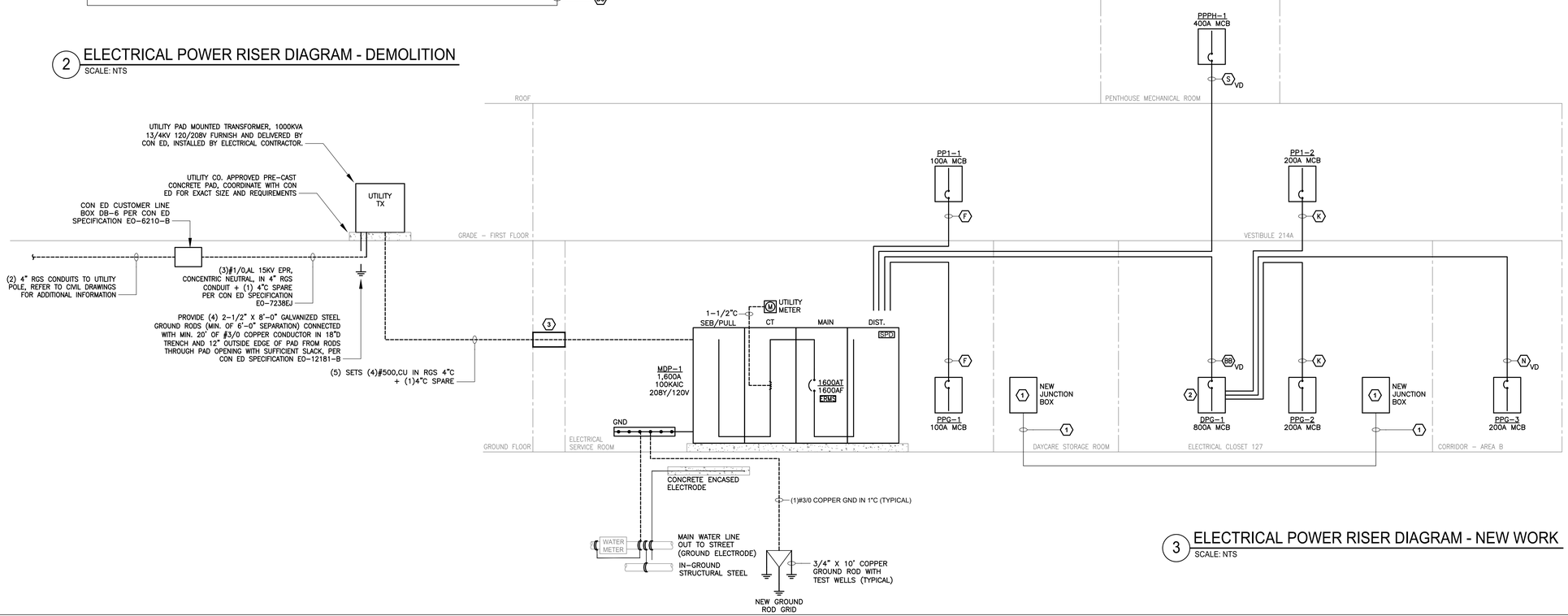
FIRE ALARM SEQUENCE OF OPERATION:

1. ACTIVATION OF A MANUAL PULL STATION SHALL:
   a. ANNUNCIATE AT THE MAIN FIRE ALARM CONTROL PANEL AND THE REMOTE ANNUNCIATORS.
   b. SEND ALARM INDICATION TO CENTRAL STATION COMPANY TO NOTIFY THE FIRE DEPARTMENT.
   c. ACTIVATE ALARM TONES ON ALL FLOORS.
2. ACTIVATION OF A SMOKE DETECTOR, HEAT DETECTOR, DUCT SMOKE DETECTOR, WATER FLOW SWITCH, IN COMMON AREAS SHALL PERFORM FUNCTIONS LISTED IN a, b & c ABOVE AND:
   d. SHUTDOWN ALL FAN SYSTEMS
   e. CLOSE ALL SMOKE DAMPERS
   f. CLOSE ALL SMOKE CONTROL DOORS IN ALL BUILDINGS
3. ACTIVATION OF AN ELEVATOR LOBBY, ELEVATOR MACHINE ROOM AND HOIST WAY SMOKE DETECTOR SHALL PERFORM FUNCTIONS LISTED IN a, b, c, d, e, AND f ABOVE AND:
   h. RECALL ALL ELEVATORS TO THE GROUND FLOOR (PROVIDE ALTERNATE RECALL AS PER NFPA) AND OPEN ASSOCIATED HOIST WAY VENT.
4. ACTIVATION OF A TOP OR BOTTOM SHAFT HEAT DETECTOR SHALL ACTIVATE ELEVATOR SHUNT TRIP BREAKER TO DISCONNECT POWER FROM ELEVATOR CAB(S) OF THAT SHAFT.
5. ACTIVATION OF SPRINKLER TAMPER SWITCH SHALL ACTIVATE A SUPERVISORY SIGNAL AT THE THE FIRE CONTROL PANEL.
6. PROVIDE STATUS FOR ALL HVAC SYSTEMS CONNECTED TO THE FIRE ALARM SYSTEM. STATUS SHALL BE ACCOMPLISHED VIA AIR FLOW SWITCHES FOR POSITIVE INDICATION. STATUS SHALL BE INDICATED VIA LED ON FIRE ALARM CONTROL PANEL.



2 ELECTRICAL POWER RISER DIAGRAM - DEMOLITION

SCALE: NTS



3 ELECTRICAL POWER RISER DIAGRAM - NEW WORK

SCALE: NTS

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ARCHITECT
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2 LYON PLACE
WHITE PLAINS, NY 10601
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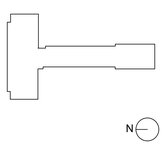
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

KEY PLAN



PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

ELECTRICAL RISER DIAGRAMS

AH E301

DISTRIBUTION PANELBOARD DESIGNATION : **MDP-1**

VOLTAGE	208Y/120 V	NEUTRAL	100%	BUS RATING	1600 A
PHASE	3 Ø	MIN. K.A.I.C. SYM	100 K.A.I.C.	MAIN CIRCUIT BREAKER	1600 A
WIRE	4 W + G	REMARKS	PROVIDE ERMS; PROVIDE SURGE PROTECTION DEVICE		

CIRCUIT BREAKER NO.	FRAME	TRIP	TYPE	LOAD DESCRIPTION	LOAD	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH) PHASE LEGS NO.	PHASE LEGS SIZE	NEUTRAL NO.	NEUTRAL SIZE	GROUND NO.	GROUND SIZE	INSULATION TYPE	CONDUIT SIZE	REMARKS
1	800A	800A		DPG-1	98.5 KVA	REFER TO RISER DIAGRAM									
2	100A	100A		PPG-1	3.0 KVA	REFER TO RISER DIAGRAM									
3	100A	100A		PP1-1	2.0 KVA	REFER TO RISER DIAGRAM									
4	400A	400A		PPPH-1	93.0 KVA	REFER TO RISER DIAGRAM									
5	1000A	800A		CH-AH-1	166.0 KVA	4	3A	350				1/0		4C	
6	30A	30A		SPD											200KA W/ SURGE COUNTER MONITORIING
7	200A	225A		**SPARE**											
8	100A	100A		**SPARE**											
9															
10															

TOTAL CONNECTED LOAD =	**349.3 KVA**	**969 A**
TOTAL DEMAND LOAD =	**349.3 KVA**	**969 A**

PANEL DESIGNATION : **PPG-1**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					
REMARKS :					

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	CUH-A ELECTRICAL ROOM	1900			CP-A	20A	2
3	20A	ELEC ROOM REC		760		FCU-B - OFFICE 128 & STAIR A	20A	4
5	20A	CAFÉ REC			100	**SPARE**	20A	6
7	20A	CAFÉ LIGHTING	200			**SPARE**	20A	8
9	20A	**SPARE**		0		**SPARE**	20A	10
11	20A	**SPARE**			0	**SPARE**	20A	12
13			0					14
15				0				16
17					0			18
19			0					20
21				0				22
23					0			24
25			0					26
27				0				28
29					0			30
31			0					32
33				0				34
35					0			36
37			0					38
39				0				40
41					0			42
TOTAL CONNECTED LOAD PER PHASE (kVA)			2.10	0.76	0.10			
TOTAL CONNECTED LOAD			2.96 KVA		8.2 A			
TOTAL DEMAND LOAD			2.46 KVA		6.8 A			

DISTRIBUTION PANELBOARD DESIGNATION : **DPG-1**

VOLTAGE	208Y/120 V	NEUTRAL	100%	BUS RATING	1000 A
PHASE	3 Ø	MIN. K.A.I.C. SYM	100 K.A.I.C.	MAIN CIRCUIT BREAKER	800 A
WIRE	4 W + G	REMARKS			

CIRCUIT BREAKER NO.	FRAME	TRIP	TYPE	LOAD DESCRIPTION	LOAD	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH) PHASE LEGS NO.	PHASE LEGS SIZE	NEUTRAL NO.	NEUTRAL SIZE	GROUND NO.	GROUND SIZE	INSULATION TYPE	CONDUIT SIZE	REMARKS
1	100A	100A		PPG-2	17.7 KVA	REFER TO RISER DIAGRAM									
2	100A	100A		PPG-3	17.4 KVA	REFER TO RISER DIAGRAM									
3	100A	100A		PP1-2	20.2 KVA	REFER TO RISER DIAGRAM									
4	100A	100A		PP1-1	2.7 KVA	REFER TO RISER DIAGRAM									
5	30A	20A		HWP-AH-1A	4.8 KVA	1	3A	8			1	10		1 C	
6	30A	20A		HWP-AH-1B	4.8 KVA	1	3A	8			1	10		1 C	
7	60A	40A		GLWP-AH-1A	8.9 KVA	1	3A	8			1	10		1 C	
8	60A	40A		GLWP-AH-1B	8.9 KVA	1	3A	8			1	10		1 C	
9	60A	60A		KITCHEN (EXISTING CIRCUIT #1)											
10	60A	60A		1C EMERGENCY (EXISTING CIRCUIT #2)											
11	60A	60A		(EXISTING CIRCUIT #3)											
12	60A	60A		COMPUTER PANEL (EXISTING CIRCUIT #4)											
13	100A	100A		BOILER ROOM PANEL (EXISTING CIRCUIT #5)											
14	100A	100A		FAN ROOM PANEL (EXISTING CIRCUIT #6)											
15	225A	200A		STAGE PANEL (EXISTING CIRCUIT #7)											
16	400A	400A		FIRE PUMP (EXISTING CIRCUIT #8)											
17	30A	30A		CLOCKS (EXISTIN CIRCUIT #9)											
18	30A	30A		FIRE ALARM (EXISTING CIRCUIT #10)											
19	100A	100A		LTG PANEL 1B (EXISTING CIRCUIT #11)											
20	100A	100A		CUSTDIAN OFFICE PANEL (EXISTING CIRCUIT #12)											
21	100A	100A		NURSE PANEL (EXISTING CIRCUIT #13)											
22	100A	100A		LIBRARY PANEL (EXISTING CIRCUIT #14)											
23	100A	100A		GYM (EXISTING CIRCUIT #15)											
24	100A	100A		(EXISTING CIRCUIT #16)											
25	400A	400A		LTG PANEL GA+1A (EXISTING CIRCUIT #17)											
26	225A	200A		EXISTING LOAD (ELEC CLOSET DISCONNET SWITCH)											
27	225A	200A		BREAKER BOX (EXISTING DISCONNECT SWITCH)											
28	225A	200A		BREAKER BOX 113											
29	225A	200A		CP-3 (EXISTING DISCONNECT SWITCH)											
30	100A	100A		**SPARE**											
31	100A	100A		**SPARE**											

TOTAL CONNECTED LOAD =	**85.3 KVA**	**237 A**
TOTAL DEMAND LOAD =	**85.3 KVA**	**237 A**

PANEL DESIGNATION : **PPG-2**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					
REMARKS :					

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	FCU-B - OFF 129, CUST 125, TOILET 135A, STAIR	1496			UV-A STEM LAB 101	20A	2
3	20A	CP-A		1496		UV-A CLASSROOM 103	20A	4
5	20A	FCU-A OFFICE 123 & G TOILET 118			896	UV-A CLASSROOM 102	20A	6
7	20A	POWER FOR RESTROOM FIXTURES	896			UV-A CLASSROOM 104	20A	8
9	20A	HAND DRYER G TOILET 118		1700		TRAP PRIMER	20A	10
11	20A	**SPARE**			200	TAMPER SWITCH	20A	12
13	20A	**SPARE**	1680			G. TOILET 118	20A	14
15	20A	TOILET REC 101B		360		TOILET 123A	20A	16
17	20A	TOILET REC 102A			876	UV-A 1ST FL CLASSROOM 205	20A	18
19	20A	UV-A 1ST FL CLASSROOM 206	1392			UV-A 1ST FL CLASSROOM 207	20A	20
21	20A	UV-A 1ST FL CLASSROOM 208		1392		UV-A 1ST FL CLASSROOM 209	20A	22
23	20A	UV-A 1ST FL CLASSROOM 210			896	FCU-A 1ST FL CLASSROOM 205	20A	24
25	20A	FCU-B 1ST FL STAIR	380			1ST FL TOILET REC	20A	26
27	20A	1ST FL CP-A		1700		1ST FL TOILET HAND DRYER	20A	28
29	20A	1ST FL AUTOMATIC DOOR TOILET			1100	AUTOMATIC DOOR TOILET 123A	20A	30
31	20A	FSD	800			AUTOMATIC DOOR TOILET 118	20A	32
33	20A	FIRE ALARM STROBE BOOSTER (EXIST LOAD)		300		TOILET 104A REC	20A	34
35	20A	FIRE ALARM BELL BOOST (EXIST LOAD)			0	SMOKE ALARM (EXISTING LOAD)	20A	36
37	20A	OFFICE LIGHTS (EXIST LOAD)	0			AC OFF (EXISTING LOAD)	20A	38
39	20A	ELEVATOR 2ND FL HALL LIGHTS (EXIST LOAD)		0		OFFICE RECEPT (EXISTING LOAD)	20A	40
41	20A	ELEVATOR LIGHTS (EXIST LOAD)			0	DOOR MAG (EXISTING LOAD)	20A	42
43	20A	HEAT (EXISTING LOAD)	0			(EXISTING LOAD)	20A	44
45	20A	FAN (EXISTIN LOAD)		300		RESTROOM LIGHTING	20A	46
47	20A	**SPARE**			0	**SPARE**	20A	48
49	20A	**SPARE**	0			**SPARE**	20A	50
51	20A	**SPARE**		0		**SPARE**	20A	52
53					0			54
55			0					56
57				0				58
59					0			60
TOTAL CONNECTED LOAD PER PHASE (kVA)			6.64	7.25	3.97			
TOTAL CONNECTED LOAD			17.86 KVA		49.6 A			
TOTAL DEMAND LOAD			17.66 KVA		49.0 A			

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

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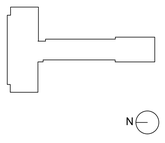

PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ELECTRICAL PANEL SCHEDULES

AH E401

PANEL DESIGNATION : **PPG-3**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	UV-A CLASSROOM 105	1696			CP-A	20A	2
3	20A	UV-A CLASSROOM 107	7	1392		UV-A CLASSROM 106	20A	4
5	20A	UV-A CLASSROOM 109			1392	UV-A CLASSROM 108	20A	6
7	20A	FCU-A TOILETS & STAIRS	1096			UV-A CLASSROM 110	20A	8
9	20A	UV-A CLASSROOM 111		1392		UV-A CLASSROM 112	20A	10
11	20A	FCU-A STORAGE & OFFICE 113			1096	UV-A CLASSROM 114	20A	12
13	20A	UV-A CLASSROOM 115	1392			UV-A CLASSROM 116	20A	14
15	20A	FCU-A CLASSROOM 115B & CORRIDOR		1096		UV-A CLASSROM 118	20A	16
17	20A	UV-A CLASSROOM 117			1096	FCU-A CORRIDOR & VESTIBULE	20A	18
19	20A	**SPARE**	180			B TOILET 121 REC	20A	20
21	20A	TOILET 119 HAND DRYER		1680		G. TOILET 119 REC	20A	22
23	20A	AUTOMATIC DOOR TOILET 121			800	CLASROOM & CORRIDOR LIGHTING	20A	24
25	20A	FSD	600			CLASROOM & CORRIDOR LIGHTING	20A	26
27	20A	EF-AH-R-4		600		EF-AH-R-1	20A	28
29	20A	EF-AH-R-5			600	EF-AH-R-2	20A	30
31	20A	EF-AH-R-6	600			EF-AH-R-3	20A	32
33	20A	EF-AH-R-7		660		ROOF REC	20A	34
35	20A	**SPARE**			0	**SPARE**	20A	36
37	20A	**SPARE**	0			**SPARE**	20A	38
39	20A	**SPARE**		0		**SPARE**	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42

TOTAL CONNECTED LOAD PER PHASE (kVA)	5.57	6.82	4.98	
TOTAL CONNECTED LOAD	17.38 KVA			48.2 A
TOTAL DEMAND LOAD	16.87 KVA			46.8 A

PANEL DESIGNATION : **PP1-1**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	FCU-A - STORAGE 230, SPECIAL 228, COUN 226	500			CP-A	20A	2
3	20A	FCU-A/B - COUNSELOR 224 & STAIR 5		996		UV-A - LIBRARY 222	20A	4
5	20A	CLASSROOM & CORRDIOR LIGHTING			996	UV-A - PRINCIPALS OFFICE 220	20A	6
7	20A	**SPARE**	200			FCU-A TEASHERS 220A	20A	8
9	20A	**SPARE**		0		**SPARE**	20A	10
11	20A	**SPARE**			0	**SPARE**	20A	12
13	20A	**SPARE**	0			**SPARE**	20A	14
15	20A	**SPARE**		0		**SPARE**	20A	16
17	20A	**SPARE**			0	**SPARE**	20A	18
19	20A	**SPARE**	0			**SPARE**	20A	20
21	20A	**SPARE**		0		**SPARE**	20A	22
23	20A	**SPARE**			0	**SPARE**	20A	24
25			0					26
27				0				28
29					0			30
31			0					32
33				0				34
35					0			36
37			0					38
39				0				40
41					0			42

TOTAL CONNECTED LOAD PER PHASE (kVA)	0.70	1.00	1.00	
TOTAL CONNECTED LOAD	2.69 KVA			7.5 A
TOTAL DEMAND LOAD	2.59 KVA			7.2 A

PANEL DESIGNATION : **PP1-2**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	UV-A BAND ROOM 226	1496			CP-A	20A	2
3	20A	FCU-B CORRIDOR		400		G. TOILET FCU-A 215	20A	4
5	20A	UV-A CLASSROOM 223			896	FCU-B STAIR	20A	6
7	20A	UV-A CLASSROOM 223A	1392			UV-A CLASSROOM 201	20A	8
9	20A	FCU-A & UV-A CLASSROOM 221		1592		UV-A CLASSROOM 203	20A	10
11	20A	FCU-B NURSE 217 & 2129			1096	UV-A CLASSROOM 202	20A	12
13	20A	FCU-B PRINCIPLE 214 & OFFICE 216	1096			UV-A CLASSROOM 204	20A	14
15	20A	G.TOILET 215 REC		1680		G.TOILET 215 HAND DRYER	20A	16
17	20A	TOILET 213A REC			180	**SPARE**	20A	18
19	20A	B. TOILET 212 REC	1680			B. TOILET 212 HAND DRYER	20A	20
21	20A	TOILET 229B REC		1680		TOILET 229B HAND DRYER	20A	22
23	20A	TOILET 229C REC			1680	TOILET 229C HAND DRYER	20A	24
25	20A	FCU-A OFFICE 213	1700			TOILET 219A HAND DRYER	20A	26
27	20A	FCU-A B. TOILET 212		380		TOILET 219 REC	20A	28
29	20A	AUTOMATIC DOOR TOILET 213A			1000	AUTOMATIC DOOR TOILET 212	20A	30
31	20A	AUTOMATIC DOOR TOILET 215A	800			CORRIDOR & CLASSROOM LIGHTING	20A	32
33	20A	TOILET 223T POWER		660		AUDITORIUM LIGHTING	20A	34
35	20A	FCU-A GYM OFFICE			800	RESTROOM LIGHTING	20A	36
37	20A	**SPARE**	0			**SPARE**	20A	38
39	20A	**SPARE**		0		**SPARE**	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42

TOTAL CONNECTED LOAD PER PHASE (kVA)	8.16	6.39	5.65	
TOTAL CONNECTED LOAD	20.21 KVA			56.1 A
TOTAL DEMAND LOAD	16.72 KVA			46.4 A

PANEL DESIGNATION : **PPPH-1**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	400 A
WIRE	4 W + G			MAIN BUS	400 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	125A	RTU-AH-1 3#1+1#6G - 1-1/2"C	21220			RTU-AH-2 3#1/0+1#6G - 2"C	150A	2
3				21220				4
5					21220			6
7	20A	RTU-AH-1 EXHUAST FAN (PEF-1)	8836			RTU-AH-3 3#1+1#6G - 1-1/2"C	125A	8
9				8836				10
11					8836			12
13	20A	RTU-AH-2 EXHUAST FAN (PEF-2)	400			EF-AH-R-8	20A	14
15				400		EF-AH-R-9	20A	16
17					400	EF-AH-R-10	20A	18
19	20A	RTU-AH-3 EXHUAST FAN (PEF-3)	400			EF-AH-R-11	20A	20
21				600		CONVIENENCE ROOF REC AND LIGHT	20A	22
23					400	EF-AH-R-12	20A	24
25	20A	CP-A	400			EF-AH-R-13	20A	26
27	20A	**SPARE**		200		EF-AH-TX-1	20A	28
29	20A	**SPARE**			200	EF-AH-R-14	20A	30
31	20A	**SPARE**	0			**SPARE**	20A	32
33	20A	**SPARE**		0		**SPARE**	20A	34
35	20A	**SPARE**			0	**SPARE**	20A	36
37	20A	**SPARE**	0			**SPARE**	20A	38
39	20A	**SPARE**		0		**SPARE**	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42

TOTAL CONNECTED LOAD PER PHASE (kVA)	31.26	31.26	31.06	
TOTAL CONNECTED LOAD	93.57 KVA			259.7 A
TOTAL DEMAND LOAD	93.37 KVA			259.2 A

EASTCHESTER UNION FREE SCHOOL DISTRICT

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MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
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MEMASIDESIGN.COM

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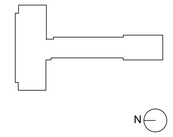
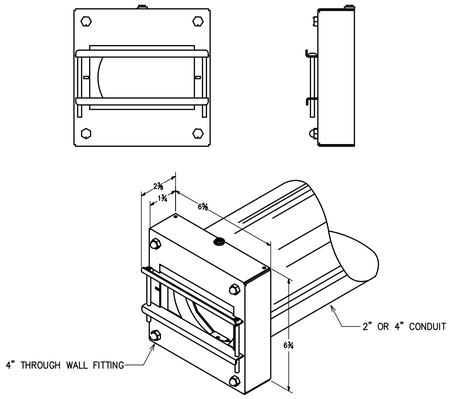


PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

ELECTRICAL PANEL SCHEDULES

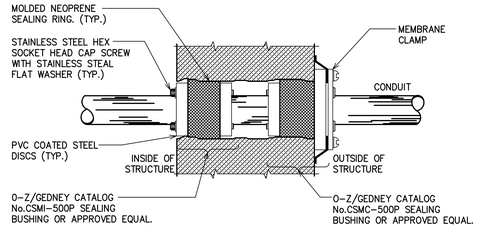
AH E402



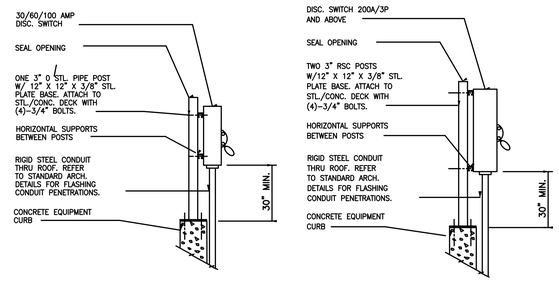
TYPICAL CONDUIT THRU-WALL FIRESTOPPING DETAIL
N.T.S.

NOTES:

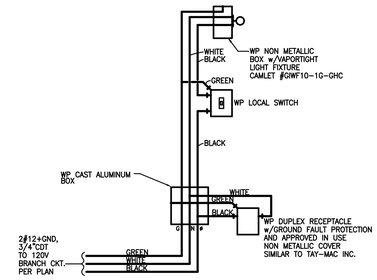
1. CONTRACTOR TO PROVIDE FITTING ON EACH END OF CONDUIT(S). FOR 4" CONDUITS UTILIZE WIREMOLD FLAMSTOPPER CAT No.FS4-FY. FOR 2" CONDUITS UTILIZE WIREMOLD FLAMSTOPPER CAT No.FS2-FY. AT CONTRACTORS OPTION, UTILIZE PRE-CUT 2", 4" CONDUITS, WIREMOLD CAT No.FSPCC2725 OR FSPCC4725 RESPECTIVELY. PRE-CUT CONDUITS ARE 7-5/16" IN LENGTH. PROVIDE ADEQUATE SPACING BETWEEN CONDUIT BANKS TO ALLOW FOR INSTALLATION OF FITTING.
2. DETAIL/SPECIFICATIONS APPLICABLE FOR ALL LOW VOLTAGE CABLING PASSING THROUGH ALL FIRE RATED WALLS. CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
3. IF UTILIZED IN CONJUNCTION WITH CABLE TRAY, PROVIDE GROUND HARDWARE AND CONNECTIONS AS REQUIRED.



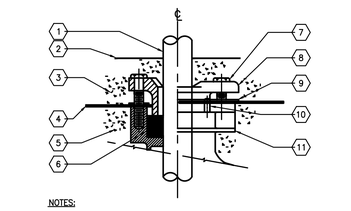
EXTERIOR WALL PENETRATION DETAIL
N.T.S.



ROOF MOUNTED DISCONNECT SWITCH DETAIL
N.T.S.



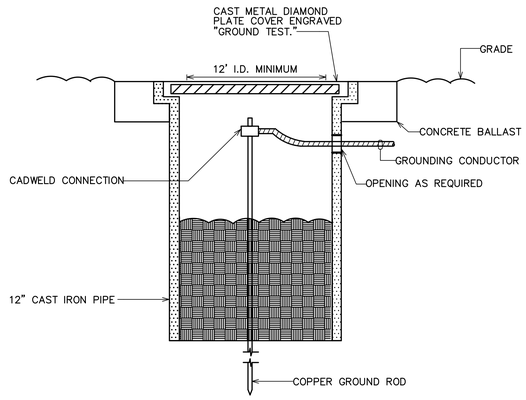
ROOF TOP MAINTENENCE UNIT LTG/PWR DETAIL
N.T.S.



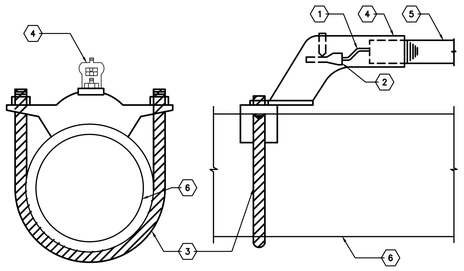
NOTES:

1. RIGID STEEL CONDUIT
2. FLOOR FINISH
3. CONCRETE FILL
4. WATERPROOF MEMBRANE
5. STRUCTURAL SLAB
6. SEALING GROMMET
7. PRESSURE CLAMP BOLT
8. PRESSURE CLAMP
9. MEMBRANE CLAMP RING
10. MEMBRANE CLAMP SCREW
11. CAST IRON BODY

FLOOR SLEEVE
N.T.S.



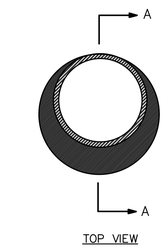
GROUND TEST WELL
N.T.S.



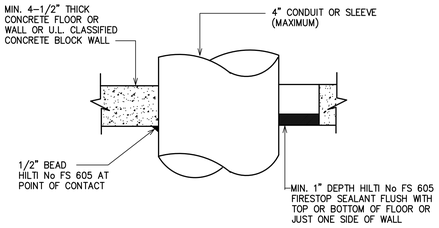
NOTES:

1. GROUNDING ELECTRODE CONDUCTOR
2. CONDUCTOR TERMINAL
3. GROUND CLAMP ASSEMBLY
4. THREADED GROUND HUB OR GROUNDING BUSHING
5. CONDUIT
6. WATER SERVICE PIPE

MAIN WATER PIPE ELECTRODE CONNECTION
N.T.S.



TOP VIEW

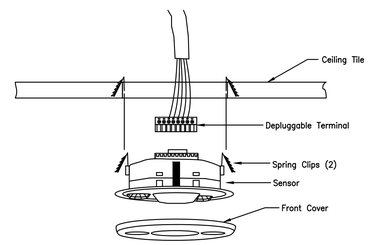


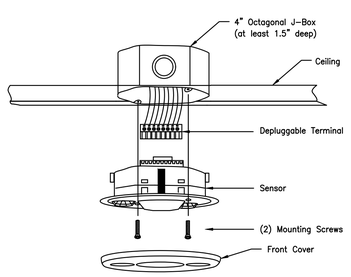
SECTION A-A

DETAIL OF CONDUIT THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
N.T.S.

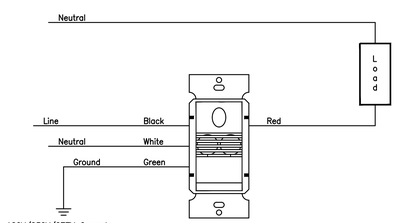
NOTES:

1. CONDUIT MAY BE CENTERED OR OFFSET IN HOLE. MAXIMUM DIAMETER OF HOLE OPENING IS 14 INCHES.
2. TEMPORARY FORMS MAY BE REQUIRED TO SUPPORT THE FIRESTOP SEALANT WHILE IT CURES.
3. FOR CONDUIT SLEEVE INSTALATIONS PROVIDE AROUND CONDUCTORS WITHIN SLEEVE.

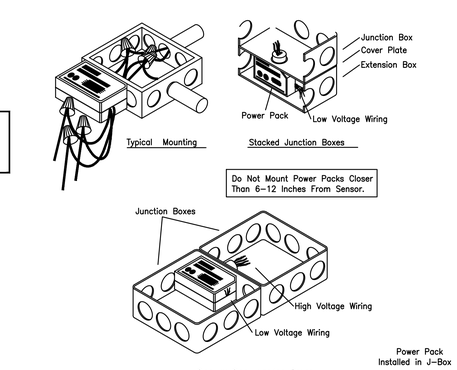




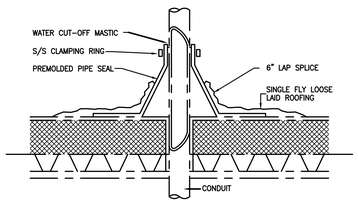
MOUNTING DETAIL FOR CEILING MTD. OCCUPANCY SENSOR
N.T.S.



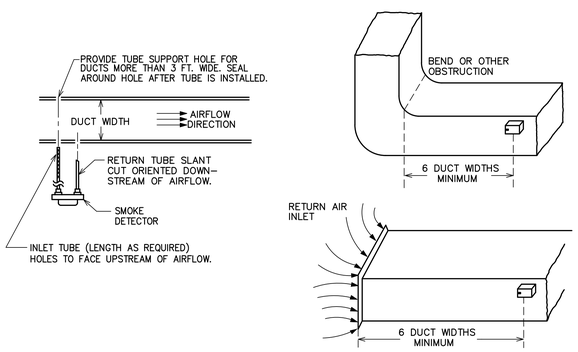
WALL MTD. OCUPANCY SENSOR WIRING DIAGRAM
N.T.S.



POWER PACK INSTALLATION DETAIL
N.T.S.



CONDUIT ROOF PENETRATION DETAIL
N.T.S.



NOTE:

1. DUCT DETECTOR LOCATIONS SHALL BE DETERMINED IN FIELD WITH ENGINEER AND FIRE ALARM VENDOR.

TYPICAL DUCT SMOKE DETECTOR PLACEMENT & INSTALLATION DETAIL (PLAN VIEW)
N.T.S.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

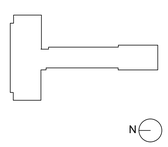
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUED FOR BID	11/06/2024
ISSUE	DATE

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ELECTRICAL DETAILS

AH E501

GENERAL NOTES

1. ALL REFERENCES HEREIN TO THE CONTRACTOR SHALL REFER TO THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
2. THE ENTIRE INSTALLATION SHALL BE COORDINATED WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE EXACT LOCATION OF ALL EXISTING PLUMBING SYSTEMS PRIOR TO MAKING NEW CONNECTIONS TO EXISTING LINES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. DO NOT SCALE FROM THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK WITHIN A DISTANCE OF FIVE FEET FROM THE BUILDING PERIMETER.
5. DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
6. THE CONTRACTOR SHALL REFER TO WRITTEN SPECIFICATION IN CONJUNCTION WITH THESE DRAWINGS FOR FULL PROJECT SCOPE.
7. ANY DISCREPANCIES OR INADEQUACIES WITHIN BID DOCUMENTS, BETWEEN THESE DOCUMENTS AND RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR, AND STRUCTURAL DOCUMENTS, OR BETWEEN THESE DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
8. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, CONCEALED OR EMBEDDED PIPING, EXPOSED PIPING, PIPING CONNECTIONS, AND ACCESS PANELS/DOORS. THESE DRAWINGS SHALL INCLUDE ALL CHANGES AND DEVIATIONS FROM CONSTRUCTION DOCUMENTS.
9. THE CONTRACTOR SHALL SCHEDULE ALL WORK TO AVOID INTERFERENCE WITH FIRE PROOFING WORK.
10. THE CONTRACTOR SHALL COORDINATE ALL UNDERGROUND PIPING LOCATIONS AND INVERTS WITH ALL UTILITIES.
11. THE CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL FURNISH PLUMBING EQUIPMENT WIRED FOR THE VOLTAGES SHOWN IN CONTRACT DOCUMENTS AND COORDINATED WITH ELECTRICAL CONTRACTOR.
12. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
13. THE CONTRACTOR SHALL SUBMIT, PRIOR TO ANY FABRICATION OR INSTALLATION, ALL NECESSARY DRAWINGS, EQUIPMENT/MATERIAL PRODUCT DATA, DOCUMENTATION, AND CALCULATIONS REQUIRED TO COMPLETE THE WORK OUTLINED IN THE CONTRACT DOCUMENTS.
14. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO ANY FABRICATION OR INSTALLATION. ALL FEES FOR PERMITS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL ABOVE GRADE PIPING SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE. NO PIPING SHALL REST ON CEILING TILES OR CEILING STRUCTURE.
16. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT AND IN THE MOST INCONSPICUOUS LOCATION POSSIBLE. VERTICAL DROPS SHOULD BE KEPT TO A MINIMUM AND SHOULD BE LOCATED WITHIN CHASES, WALLS, AND SOFFITS WITH OTHER MECHANICAL PIPING AND ELECTRICAL CONDUITS WHEN POSSIBLE. ALL SUCH LOCATION ARE TO BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALLATION.
17. WATER METER SHALL BE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS AND SHALL BE PROVIDED WITH REMOTE READING.
18. THE CONTRACTOR SHALL PROVIDE ALL CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS, AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
19. THE CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS AND ASSOCIATED FLASHING REQUIREMENTS WITH OTHER TRADES.
20. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL HORIZONTAL STORM WATER PIPING.
21. ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN SHUTOFF VALVES INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
22. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS/DOORS FOR ALL CLEANOUTS, VALVES, AND ANY OTHER EQUIPMENT LOCATED WITHIN WALLS, PARTITIONS, OR CEILINGS THAT REQUIRE ACCESS FOR MAINTENANCE AND/OR OPERATION.
23. THE CONTRACTOR SHALL INSTALL TRAP SEAL PRIMERS ON ALL FLOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE NECESSARY COLD WATER CONNECTION TO ALL TRAP SEAL PRIMERS.
24. THE CONTRACTOR SHALL PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY, WASTE, STORM, AND VENT STACKS. CLEANOUT DECK PLATES PLATES MUST ALSO BE PROVIDED ON ALL BURIED SANITARY, WASTE, AND STORM PIPING AT INTERVALS OUTLINED IN APPLICABLE CODE.
25. SUDS PRESSURE ZONE REQUIREMENTS SHALL BE MEET IN THE DESIGN OF THE SANITARY, WASTE, AND VENT SYSTEMS. NO CONNECTION SHALL BE MADE TO THE VERTICAL PORTION OF A SANITARY OR WASTE STACK WITHIN FORTY STACK DIAMETERS OF THE BASE FITTING. NO CONNECTION SHALL BE MADE TO THE HORIZONTAL OFFSET PORTION OF A SANITARY OR WASTE STACK WITHIN TEN STACK DIAMETERS OF THE BASE FITTINGS.
26. NO DRAINAGE BRANCH SHALL BE CONNECTED TO A SANITARY OR WASTE STACK WITHIN TWO FEET ABOVE OR BELOW A HORIZONTAL OFFSET EXCEPT WHERE NO OTHER DRAINAGE BRANCH IS CONNECTED TO THE STACK AT A HIGHER STORY.
27. THE CONTRACTOR SHALL PROVIDE REDUCING FITTING AT ALL CHANGES IN DIAMETER OF SANITARY, WASTE, AND STORM PIPING.
28. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO ALL EQUIPMENT AND FIXTURE INDICATED ON THE ARCHITECTURAL AND PLUMBING DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO HVAC AND FIRE PROTECTION EQUIPMENT.
29. PLUMBING CONTRACTOR SHALL PATCH AND PAINT (TO MATCH EXISTING) ANY SURFACES/WALLS IMPACTED BY PLUMBING WORK.
30. UPON COMPLETION, EXISTING SYSTEM SHALL BE IN WORKING ORDER.
31. PLUMBING CONTRACTOR WILL RE-INSULATE ANY EXISTING DOMESTIC WATER ELBOWS AND PIPE RUNS WHICH WERE REMOVED BY THE ABATEMENT. SEE H-DRAWINGS FOR LOCATIONS AND SCOPE. ALL COSTS TO BE INCLUDED IN THE PLUMBING CONTRACTORS BASE BID.
32. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THE PLUMBING WORK THIS INCLUDES:
    a. CUTTING TO GAIN ACCESS TO ROUGHING UNITS.
    b. PVC JACKET SHALL BE INSTALLED ON ANY EXPOSED PLUMBING PIPING.
    c. EXISTING CEILING REMOVAL/REPLACE WHERE NEEDED FOR PLUMBING WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTIVE CEILING PLANS.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL INCLUDE IN THEIR PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING PLUMBING WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL LAYOUTS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE REMOVED BACK TO ACTIVE LINES.
3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE TO FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
5. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS AS NECESSARY.
6. PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
7. THE CONTRACTOR SHALL NOTIFY THE BUILDING OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
8. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.
9. THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH THE BUILDING OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

OPENING / SLEEVE SCHEDULE

INSULATED DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING		
PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
½" & ¾"	3"	4"
1"	4"	4½"
1¼"	4"	5"
1½"	4"	5"
2" & 2½"	5"	6"
3"	6"	6½"
4"	8"	7½"
5"	8"	8½"
6"	10"	9½"
UNINSULATED SANITARY, WASTE, VENT, STORM, AND GAS PIPING		
PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
1½"	3"	3"
2"	4"	3½"
2½"	4"	4"
3"	5"	4½"
4"	6"	5½"
5"	8"	6½"
6"	8"	7½"
8"	10"	9½"
10"	12"	11½"
12"	15"	13½"
15"	18"	16½"

SYMBOL LIST

S	SANITARY/SOIL PIPING
W	WASTE PIPING
IW	INDIRECT WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	ARROW REPRESENTS DIRECTION OF FLOW
— X — X — X — X —	PIPING TO BE DEMOLISHED
	PIPE BREAK
	CAPPED OUTLET
	CLEANOUT / PLUGGED OUTLET
	CLEANOUT DECK PLATE
	P-TRAP
	PIPE DROP / DOWN
	PIPE RISE / UP
	PIPE BOTTOM CONNECTION
	PIPE TOP CONNECTION
	PIPE SIDE CONNECTION
	VACUUM BREAKER
	SHOCK ARRESTOR
	DRAIN
	TEMPERATURE GAUGE
	CHECK VALVE
	BALL VALVE
	MIXING VALVE
	SOLENOID VALVE
	POINT OF DISCONNECTION FROM EXISTING PIPING
	POINT OF CONNECTION TO EXISTING PIPING

ABBREVIATIONS LIST

AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CO	CLEANOUT
CM	COFFEE MAKER
CLG	CEILING
CONN	CONNECT / CONNECTION
CONT	CONTINUE / CONTINUATION
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DW	DISHWASHER
DWG	DRAWING
EX	EXISTING
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
HC	HANDICAPPED ACCESSIBLE FIXTURE
HW	DOMESTIC HOT WATER
IW	INDIRECT WASTE
NTS	NOT TO SCALE
NFWH	NON-FREEZE WALL HYDRANT
PD	PUMP DISCHARGE
SAN	SANITARY/SOIL
SK	SINK
TYP	TYPICAL
UP	UP (PENETRATES FLOOR SLAB)
V	VENT
VB	VACUUM BREAKER
W	WASTE

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 2022 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

PLUMBING DRAWING LIST

PIPE, FITTING, AND JOINT MATERIAL SCHEDULE

PIPING SYSTEM	PIPING LOCATION	PIPING SIZE	PIPING SPECIFICATION	FITTING SPECIFICATION	JOINT SPECIFICATION
SANITARY/WASTE/ VENT	ABOVE GROUND	ALL	NO HUB CAST IRON	NO HUB CAST IRON	NEOPRENE RUBBER SEALING SLEEVE AND HEAVY DUTY STAINLESS STEEL CORRUGATED SHIELDS WITH A MINIMUM OF FOUR HEAVY DUTY BANDS
	BELOW GROUND	ALL	SERVICE WEIGHT HUB & SPIGOT CAST IRON	SERVICE WEIGHT HUB & SPIGOT CAST IRON	HIGH QUALITY NEOPRENE RUBBER COMPRESSION GASKET
COLD WATER/HOT WATER/ HOT WATER CIRCULATION	DISTRIBUTION	ALL	TYPE L HARD DRAWN COPPER TUBING	WROUGHT COPPER WITH SOLDER ENDS	95.5 TIN / 4.0 COPPER / 0.5 SILVER SOLDER

FIXTURE SCHEDULE

DESIGNATION	FIXTURE SPECIFICATION: COMPONENT	MANUFACTURER	MODEL NUMBER	SERVICE CONNECTIONS: S	W	IW	V	CW	HW	ADDITIONAL COMMENTS
WC	WATER CLOSET	KOHLER	K-4325-0	4"	–	–	2"	1-1/2"	–	– ADA COMPLIANT, WALL HUNG, ELONGATED BOWL, HIGH EFFICIENCY FLUSH VALVE TOILET. – PROVIDE 1.28 GPF HARDWIRED FLUSH VALVE. – PROVIDE OPEN FRONT SOFT CLOSE SEAT LESS COVER. – PROVIDE CHAIR CARRIER SUPPORT.
	FLUSH VALVE	SLOAN	111-1.28 SFSM							
	SEAT	KOHLER	K-4731-GC-0							
	CARRIER	JAY R. SMITH	210 SERIES							
UR	URINAL	KOHLER	K-4904-ET	2"	–	–	1-1/2""	3/4"	–	– ADA COMPLIANT, WALL HUNG, ELONGATED BOWL, HIGH EFFICIENCY FLUSH VALVE TOILET. – PROVIDE 0.125 GPF HARDWIRED FLUSH VALVE. – PROVIDE FLOOR MOUNTED URINAL SUPPORT.
	FLUSH VALVE	SLOAN	186-0.125 SFSM							
	CARRIER	JAY R. SMITH	637 SERIES							
LAV	LAVATORY (WALL MOUNT)	KOHLER	KINGSTON K-2007	–	1-1/2"	–	1-1/2"	1/2"	1/2"	– ADA COMPLIANT, WALL HUNG. RECTANGULAR LAVATORY & BASIN. – PROVIDE CHROME PLATED BRASS LAVATORY GRID DRAIN ASSEMBLY FOR ALL TOILET ROOM LOCATION. PROVIDE OFFSET TRAP. – 0.35 GPM SENSOR TYPE HARDWIRED FAUCET. – 4" FAUCET HOLD CTRS – PROVIDE THERMOSTATIC MIXING VALVE BELOW SINK SET AT 100 DEG F. – TRUEBRO LAVGUARD2 INSULATION KIT – PROVIDE LAVATORY SUPPORT
	FAUCET	SLOAN	EAF300							
	DRAIN	MCGUIRE MANUFACTURING	PW155WC							
	P-TRAP	MCGUIRE MANUFACTURING	PW2125							
	SUPPLY	MCGUIRE MANUFACTURING	H170-LK							
SK	SINK (CLASSROOM)	ELKAY	LUSTERTONE SERIES	–	1-1/2"	–	1-1/2"	1/2"	1/2"	– ADA COMPLIANT, STAINLESS STEEL DROP IN SINK. COORDINATE SIZE AND DEPTH WITH ARCHITECT – PROVIDE FAUCET DRAIN ASSEMBLY TAILPIECE, SUPPLIES, STOPS ESCUTCHEON COVER. PROVIDE BASKET STRAINER, DRAIN BOWL ASSEMBLY. FOR USE WITH ELKAY MODEL LKAD35. – PROVIDE THERMOSTATIC MIXING VALVE BELOW SINK SET AT 100 DEG F. – TRUEBRO LAVGUARD2 INSULATION KIT
	FAUCET	MCGUIRE MANUFACTURING	PW155WC							
	DRAIN	MCGUIRE MANUFACTURING	PW2125							
	P-TRAP	MCGUIRE MANUFACTURING	H170-LK							
	SUPPLY									
DF	DRINKING FOUNTAIN	ELKAY	EZH20	–	1-1/2"	–	1-1/2"	1/2"	–	– ADA COMPLIANT, WALL HUNG, REFRIGERATED WATER COOLER WITH BOTTLE FILLER – PROVIDE FILTER
MS	SINK (CLASSROOM)	AMERICAN STANDARD	LAKEWELL CAST IRON SINK	3"			1-1/2"	1/2"	1/2"	– 3"CAST IRON P-TRAP
	FAUCET	AMERICAN STANDARD	TWO LEVER HANDLE WALL MOUNT							

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD AND ADA FIXTURE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND DETAILS.
2. INSTALL PRE-FORMED INSULATION COVER FOR ALL EXPOSED SUPPLY AND DRAINAGE PIPING SERVING ADA COMPLIANT LAVATORIES AND SINKS MANUFACTURED BY TRUEBRO, PLUMBEREX, HANDYSHIELD.
3. PLUMBING FIXTURE SHALL HAVE CHROME PLATED BRASS SUPPLIES, STOPS, ESCUTCHEON COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAINS CONNECTION, SHOWER/TUB DRAIN & TAILPIECE ASSEMBLIES SHALL BE CHROME PLATED BRASS, (IN LOCATIONS WHERE PIPING IS TO BE COVERED W/ INSULATION, BRASS FINISHES ONLY SHOULD ONLY BE SUBSTITUTED.)
4. GRID STRAINER/BASKET STRAINER & TAILPIECE SHALL BE STAINLESS STEEL WHERE SERVING STAINLESS STEEL FIXTURES
5. STUDENT ACCESSIBLE SINKS SHALL BE ASSE COMPLIANT. MIXING VALVES SHALL BE SET AT NO GREATER THAN 100 DEG F.
6. WATER CLOSET/TOILET SEATS SHALL BE OF SMOOTH NON ABSORBENT MATERIAL: ALL SEATS TO BE HINGED OPEN FRONT TYPE W/ STAINLESS STEEL HINGE & HARDWARE. (COORDINATE SEAT COLOR WITH ARCHITECT)
7. PROVIDE FIXTURES WITH COMPATIBLE CARRIER AND/OR FACTORY FURNISHED WALL HANGER/SUPPORT BRACKET ASSEMBLY UNLESS OTHERWISE INDICATED.
8. PLUMBING FIXTURES (VITREOUS CHINA & SOLID SURFACE) SHALL BE WHITE IN COLOR UNLESS OTHERWISE INDICATED.

DRAIN SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NUMBER	DRAIN BODY SPECIFICATION: BRONZE	CAST IRON	GALVANIZED	STAINLESS STEEL	CLAMPING DEVICE	SECONDARY CLAMP	SUMP RECEIVER	ACID RESISTANT COATING	TRAP PRIMER CONNECTION	STRAINER SPECIFICATION: BRONZE	CAST IRON	GALVANIZED	NICKEL BRONZE	STAINLESS STEEL	CHROME PLATED	POLISHED FINISH	SATIN FINISH	SECONDARY STRAINER	SEDIMENT BUCKET	LESS GRATE	HALF GRATE	FLUSH GRATE	TRACTOR GRATE	SQUARE TOP	FUNNEL TOP	DOME	EXTENSION	ADJUSTABLE	APPLICABLE AREAS
FD	JAY R. SMITH	2010		●						●	●				●						●		●							●	RESTROOMS
FD	JAY R. SMITH	2010		●						●					●						●									●	CRAWL SPACE, QUAD CLOSE TRAP SEAL 2692

NOTES:

1. ALL FLOOR DRAINS IN FINISHED AREAS SHALL BE LOCATED AS PER THE ARCHITECTURAL DRAWINGS.
2. THE CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF THE DRAINS WITH THE APPROVED WATER PROOFING SYSTEMS PRIOR TO SUBMITTING SHOP DRAWINGS.
3. THE TOP OF ALL FLOOR DRAINS SHALL BE FLUSH WITH THE ADJACENT FINISHED FLOOR.
4. PROVIDE MECHANICAL BARRIER TYPE SEAL TRAP GUARDS ON ALL FLOOR DRAINS UNLESS OTHERWISE NOTED.

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ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

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100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

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STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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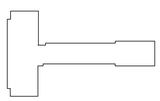
KEY PLAN



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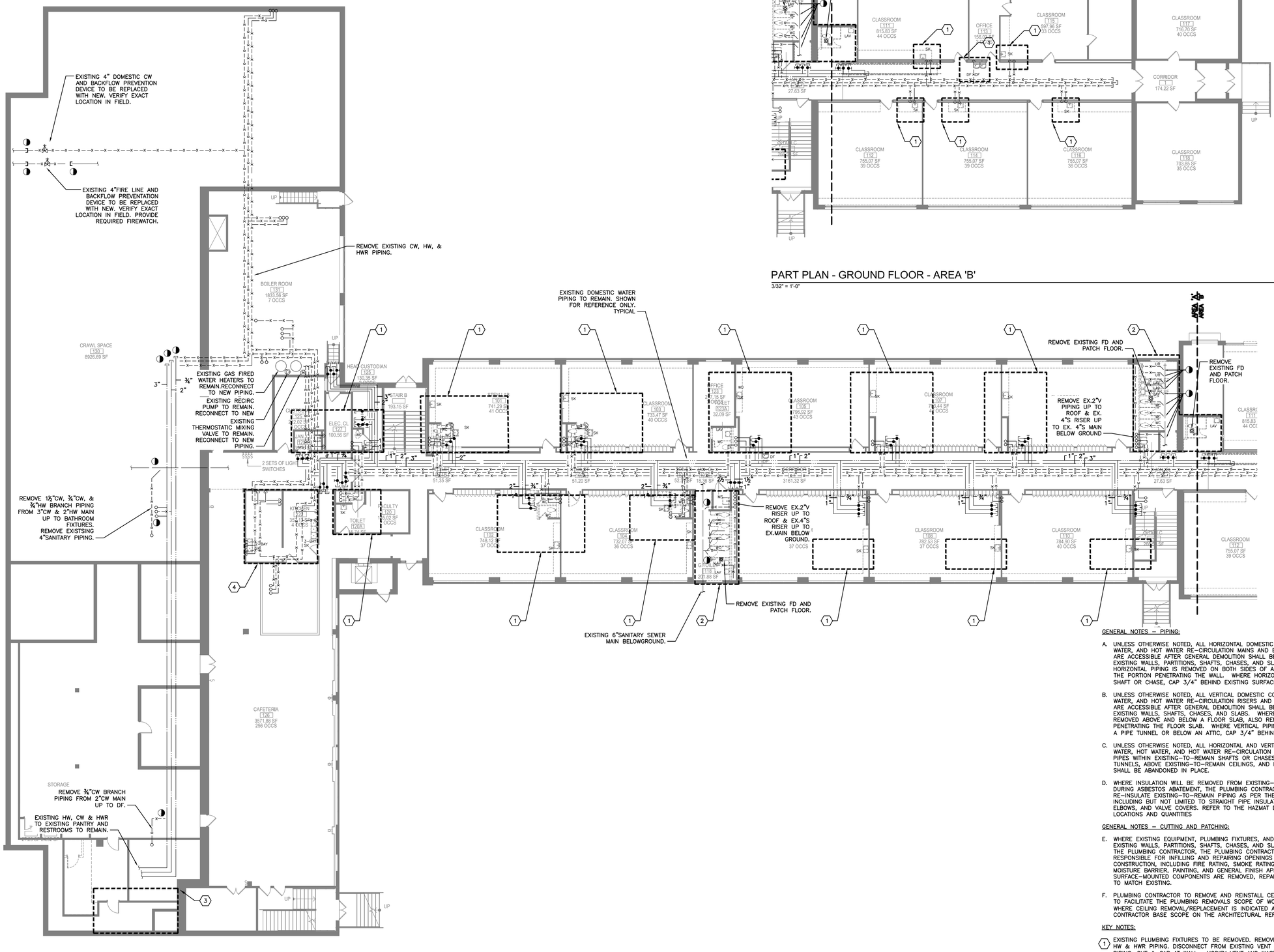
PLUMBING COVER SHEET

AH P001



PART PLAN - GROUND FLOOR - AREA 'B'

3/32" = 1'-0"

PART PLAN - GROUND FLOOR - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

A. UNLESS OTHERWISE NOTED, ALL HORIZONTAL DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RE–CIRCULATION MAINS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS. WHERE HORIZONTAL PIPING IS REMOVED ON BOTH SIDES OF A WALL, ALSO REMOVE THE PORTION PENETRATING THE WALL. WHERE HORIZONTAL PIPING ENTERS A SHAFT OR CHASE, CAP 3/4" BEHIND EXISTING SURFACE.

B. UNLESS OTHERWISE NOTED, ALL VERTICAL DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RE–CIRCULATION RISERS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, SHAFTS, CHASES, AND SLABS. WHERE VERTICAL PIPING IS REMOVED ABOVE AND BELOW A FLOOR SLAB, ALSO REMOVE THE PORTION PENETRATING THE FLOOR SLAB. WHERE VERTICAL PIPING IS REMOVED ABOVE A PIPE TUNNEL OR BELOW AN ATTIC, CAP 3/4" BEHIND EXISTING SURFACE.

C. UNLESS OTHERWISE NOTED, ALL HORIZONTAL AND VERTICAL DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RE–CIRCULATION MAINS AND BRANCH PIPES WITHIN EXISTING–TO–REMAIN SHAFTS OR CHASES, WITHIN PIPE TUNNELS, ABOVE EXISTING–TO–REMAIN CEILINGS, AND IN ATTIC SPACES, SHALL BE ABANDONED IN PLACE.

D. WHERE INSULATION WILL BE REMOVED FROM EXISTING–TO–REMAIN PIPING DURING ASBESTOS ABATEMENT, THE PLUMBING CONTRACTOR SHALL RE–INSULATE EXISTING–TO–REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES

GENERAL NOTES – CUTTING AND PATCHING:

E. WHERE EXISTING EQUIPMENT, PLUMBING FIXTURES, AND PIPES THROUGH EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS ARE REMOVED BY THE PLUMBING CONTRACTOR, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INFILLING AND REPAIRING OPENINGS TO MATCH EXISTING CONSTRUCTION, INCLUDING FIRE RATING, SMOKE RATING, INSULATION VALUE, MOISTURE BARRIER, PAINTING, AND GENERAL FINISH APPEARANCE. WHERE SURFACE–MOUNTED COMPONENTS ARE REMOVED, REPAIR SURFACE FINISHES TO MATCH EXISTING.

F. PLUMBING CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE PLUMBING REMOVALS SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

KEY NOTES:

1. EXISTING PLUMBING FIXTURES TO BE REMOVED. REMOVE ALL ASSOCIATED CW, HW & HWR PIPING. DISCONNECT FROM EXISTING VENT AND WASTE/SANITARY PIPING, CUT & CAP AT WALL. MODIFY VENT AND WASTE/SANITARY ROUGH–INS AND DISTRIBUTION AS NEEDED FOR FIXTURE RELOCATIONS.
2. EXISTING PLUMBING FIXTURES TO BE REMOVED. REMOVE ALL ASSOCIATED CW, HW & HWR PIPING. EXISTING VENT AND WASTE/SANITARY PIPING SHALL BE REMOVED, CUT & CAP AT TAKEOFF. VERIFY EXACT LOCATIONS IN FIELD.
3. ABANDONED PLUMBING PIPING TO BE REMOVED IN ITS ENTIRETY.
4. EXISTING PLUMBING FIXTURES TO BE REMOVED AND RETAINED IN A SAFE LOCATION FOR FUTURE RECONNECTION. REMOVE ALL ASSOCIATED CW, HW & HWR PIPING. DISCONNECT FROM EXISTING VENT AND WASTE/SANITARY PIPING, CUT & CAP AT WALL.

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ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

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100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

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STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
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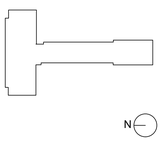

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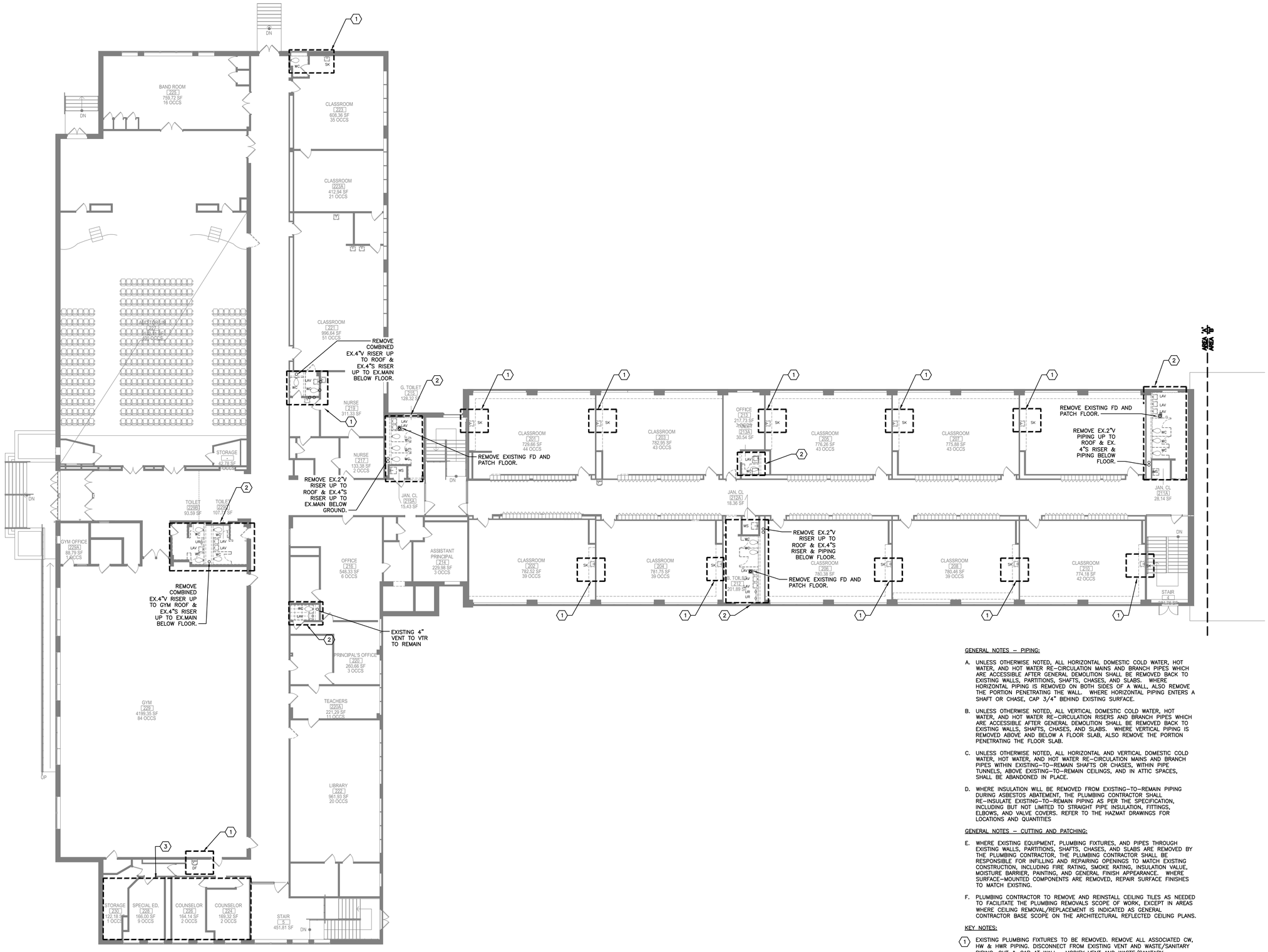
PLUMBING DEMOLITION PLAN - GROUND FLOOR

AH PD100



PART PLAN - FIRST FLOOR - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

A. UNLESS OTHERWISE NOTED, ALL HORIZONTAL DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RE–CIRCULATION MAINS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS. WHERE HORIZONTAL PIPING IS REMOVED ON BOTH SIDES OF A WALL, ALSO REMOVE THE PORTION PENETRATING THE WALL. WHERE HORIZONTAL PIPING ENTERS A SHAFT OR CHASE, CAP 3/4" BEHIND EXISTING SURFACE.

B. UNLESS OTHERWISE NOTED, ALL VERTICAL DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RE–CIRCULATION RISERS AND BRANCH PIPES WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, SHAFTS, CHASES, AND SLABS. WHERE VERTICAL PIPING IS REMOVED ABOVE AND BELOW A FLOOR SLAB, ALSO REMOVE THE PORTION PENETRATING THE FLOOR SLAB.

C. UNLESS OTHERWISE NOTED, ALL HORIZONTAL AND VERTICAL DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RE–CIRCULATION MAINS AND BRANCH PIPES WITHIN EXISTING–TO–REMAIN SHAFTS OR CHASES, WITHIN PIPE TUNNELS, ABOVE EXISTING–TO–REMAIN CEILINGS, AND IN ATTIC SPACES, SHALL BE ABANDONED IN PLACE.

D. WHERE INSULATION WILL BE REMOVED FROM EXISTING–TO–REMAIN PIPING DURING ASBESTOS ABATEMENT, THE PLUMBING CONTRACTOR SHALL RE–INSULATE EXISTING–TO–REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES

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2. EXISTING PLUMBING FIXTURES TO BE REMOVED. REMOVE ALL ASSOCIATED CW, HW & HWR PIPING. EXISTING VENT AND WASTE/SANITARY PIPING SHALL BE REMOVED, CUT & CAP AT MAIN. VERIFY EXACT LOCATIONS IN FIELD.

3. ABANDONED PLUMBING PIPING TO BE REMOVED IN ITS ENTIRETY.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
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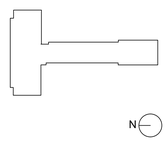

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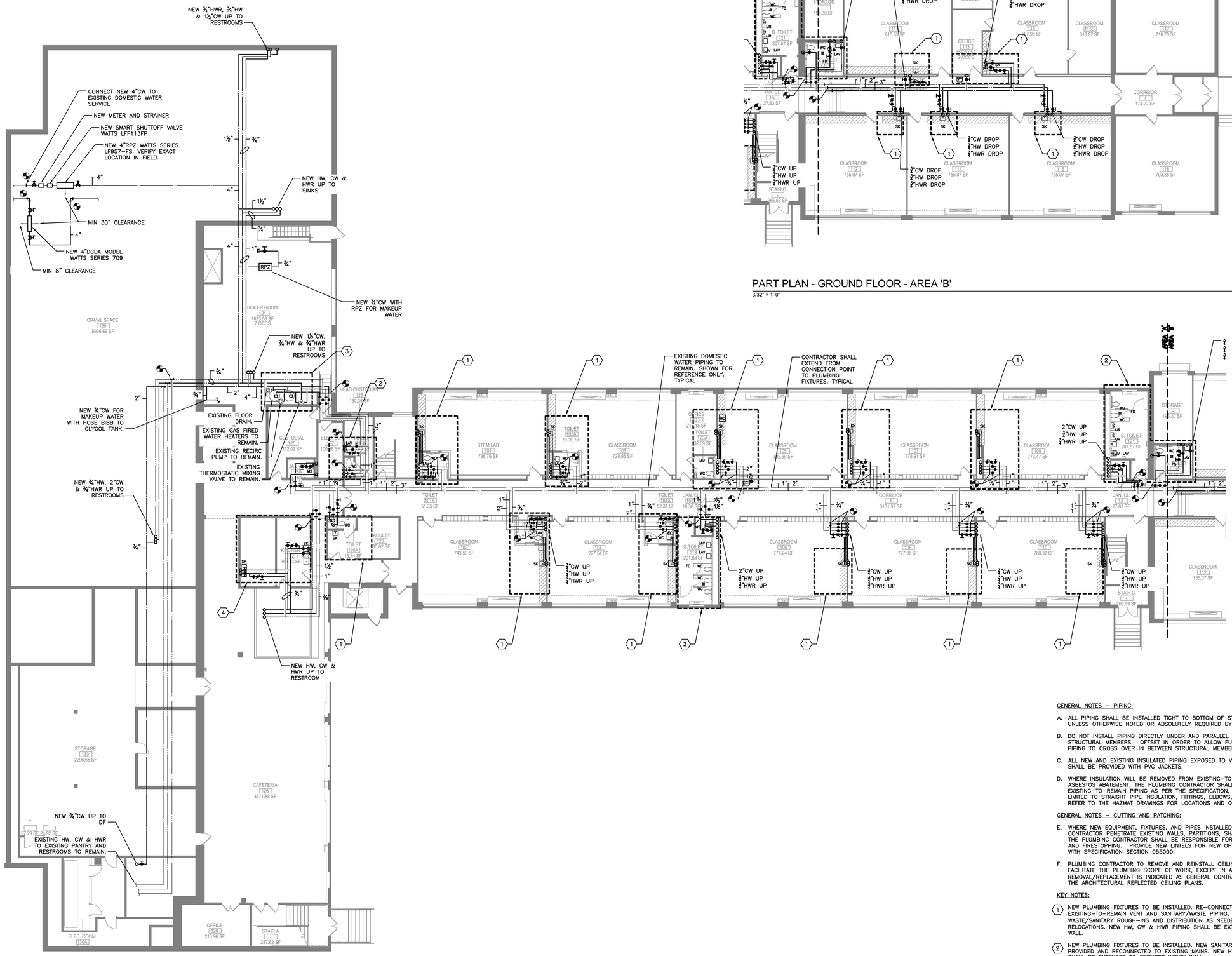
MEMASI PROJECT NO. 102-2301

PLUMBING DEMOLITION PLAN - FIRST FLOOR

AH PD101



PART PLAN - GROUND FLOOR - AREA 'B'

3/32" = 1'-0"

PART PLAN - GROUND FLOOR - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

A. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

B. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

C. ALL NEW AND EXISTING INSULATED PIPING EXPOSED TO VIEW IN FINISHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

D. WHERE INSULATION WILL BE REMOVED FROM EXISTING-TO-REMAIN PIPING DURING ASBESTOS ABATEMENT, THE PLUMBING CONTRACTOR SHALL RE-INSULATE EXISTING-TO-REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES

GENERAL NOTES – CUTTING AND PATCHING:

E. WHERE NEW EQUIPMENT, FIXTURES, AND PIPES INSTALLED BY THE PLUMBING CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

F. PLUMBING CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE PLUMBING SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

KEY NOTES:

1. NEW PLUMBING FIXTURES TO BE INSTALLED. RE-CONNECT NEW FIXTURES TO EXISTING-TO-REMAIN VENT AND SANITARY/WASTE PIPING, AND MODIFY VENT AND WASTE/SANITARY ROUGH-INS AND DISTRIBUTION AS NEEDED FOR FIXTURE RELOCATIONS. NEW HW, CW & HWR PIPING SHALL BE EXTENDED TO FIXTURE WITHIN WALL.
2. NEW PLUMBING FIXTURES TO BE INSTALLED. NEW SANITARY AND VENT PIPING TO BE PROVIDED AND RECONNECTED TO EXISTING MAINS. NEW HW, CW & HWR PIPING SHALL BE EXTENDED TO FIXTURES WITHIN WALL.
3. EXISTING GAS-FIRED DOMESTIC HOT WATER HEATERS, HOT WATER CIRCULATION PUMP AND ASSOCIATED MIXING VALVES SHALL NOT BE MODIFIED UNDER THIS PROJECT.
4. EXISTING PLUMBING FIXTURES TO BE CONNECTED TO EXISTING-TO-REMAIN VENT AND SANITARY/WASTE ROUGH-INS. MODIFY VENT AND WASTE/SANITARY ROUGH-INS AS REQUIRED. NEW HW, CW & HWR PIPING SHALL BE EXTENDED TO FIXTURE WITHIN WALL.

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ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
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BOHLER ENGINEERING
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HAUPPAUGE, NY 11762

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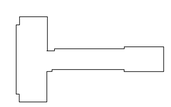

PROJECT NO.	66-03-01-03-0-001-024
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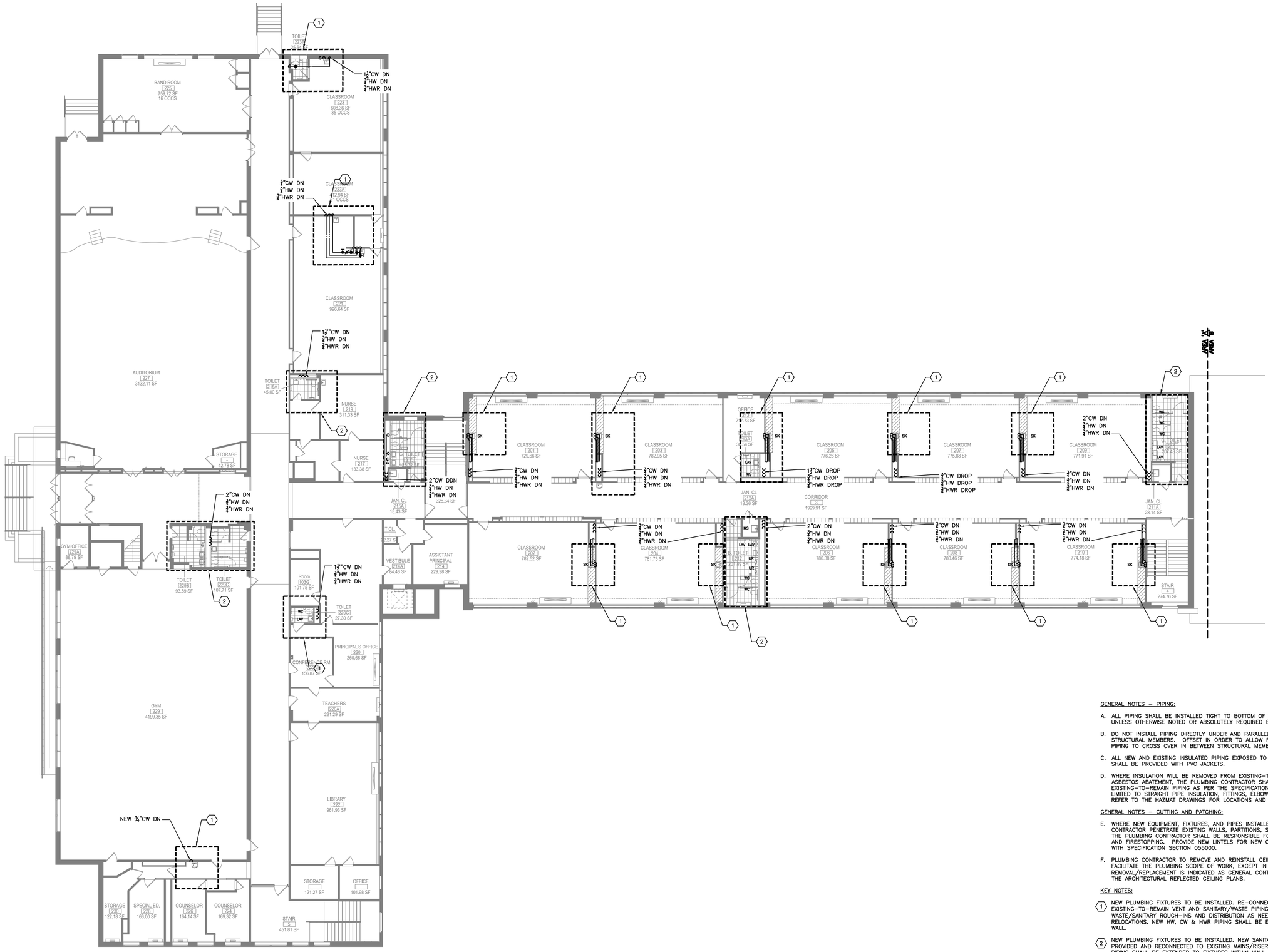
PLUMBING PLAN - DOMESTIC WATER - GROUND FLOOR

AH P100



PART PLAN - FIRST FLOOR - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

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B. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

C. ALL NEW AND EXISTING INSULATED PIPING EXPOSED TO VIEW IN FINISHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

D. WHERE INSULATION WILL BE REMOVED FROM EXISTING–TO–REMAIN PIPING DURING ASBBESTOS ABATEMENT, THE PLUMBING CONTRACTOR SHALL RE–INSULATE EXISTING–TO–REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES

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KEY NOTES:

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(2) NEW PLUMBING FIXTURES TO BE INSTALLED. NEW SANITARY AND VENT PIPING TO BE PROVIDED AND RECONNECTED TO EXISTING MAINS/RISER. NEW HW, CW & HWR PIPING SHALL BE EXTENDED TO FIXTURES WITHIN WALL.

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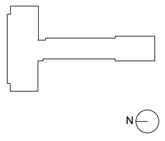
KEY PLAN

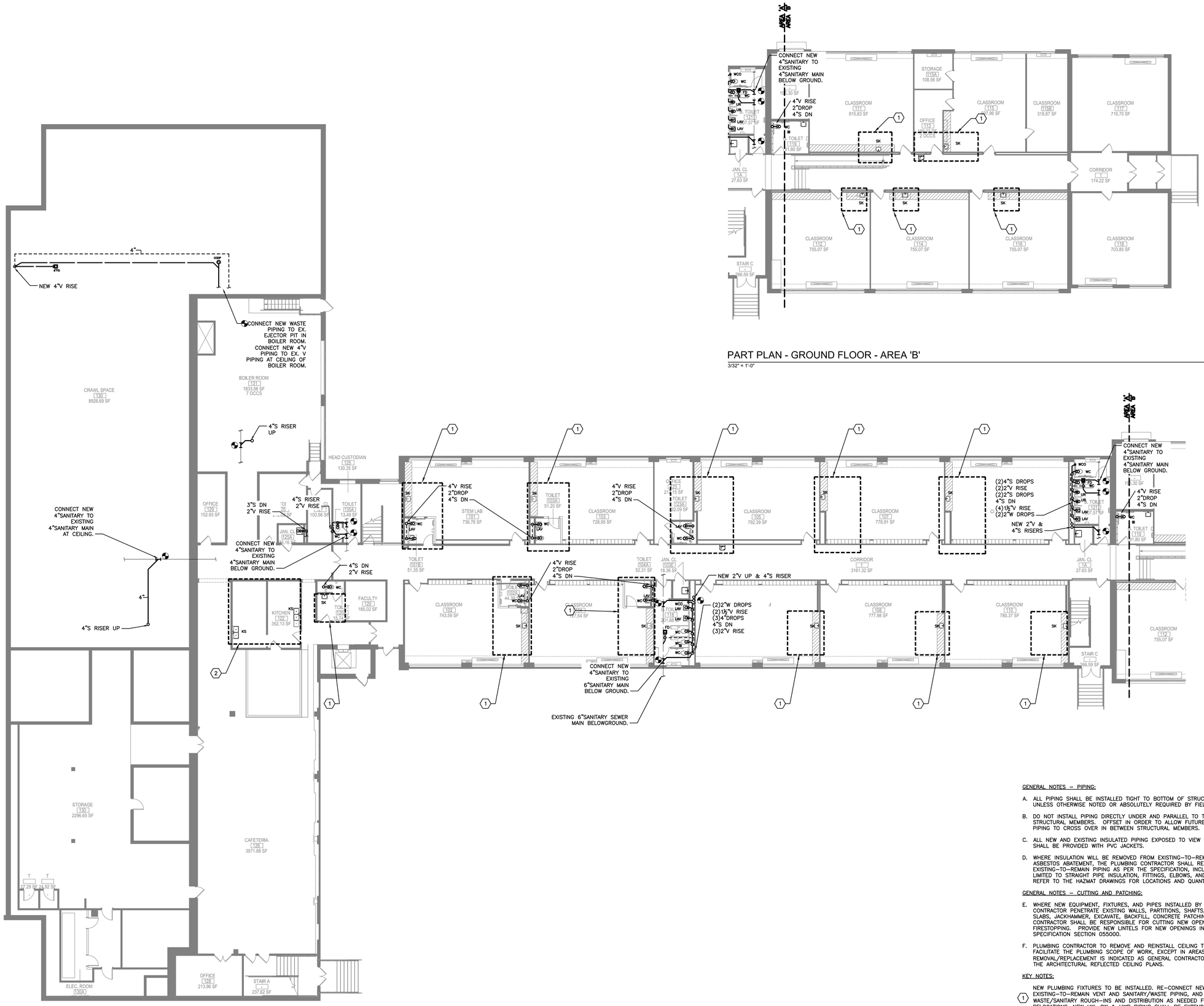


PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

PLUMBING PLAN - DOMESTIC WATER - FIRST FLOOR

AH P101



PART PLAN - GROUND FLOOR - AREA 'B'

3/32" = 1'-0"

PART PLAN - GROUND FLOOR - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

A. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

B. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

C. ALL NEW AND EXISTING INSULATED PIPING EXPOSED TO VIEW IN FINISHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

D. WHERE INSULATION WILL BE REMOVED FROM EXISTING–TO–REMAIN PIPING DURING ASBESTOS ABATEMENT, THE PLUMBING CONTRACTOR SHALL RE–INSULATE EXISTING–TO–REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES

GENERAL NOTES – CUTTING AND PATCHING:

E. WHERE NEW EQUIPMENT, FIXTURES, AND PIPES INSTALLED BY THE PLUMBING CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, CONCRETE SLABS, JACKHAMMER, EXCAVATE, BACKFILL, CONCRETE PATCHING. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

F. PLUMBING CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE PLUMBING SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

KEY NOTES:

(1) NEW PLUMBING FIXTURES TO BE INSTALLED. RE–CONNECT NEW FIXTURES TO EXISTING–TO–REMAIN VENT AND SANITARY/WASTE PIPING, AND MODIFY VENT AND WASTE/SANITARY ROUGH–INS AND DISTRIBUTION AS NEEDED FOR FIXTURE RELOCATIONS. NEW HW, CW & HWR PIPING SHALL BE EXTENDED TO FIXTURE WITHIN WALL.

(2) EXISTING PLUMBING FIXTURES TO BE REINSTALLED. RE–CONNECT FIXTURES TO EXISTING–TO–REMAIN VENT AND SANITARY/WASTE PIPING, AND MODIFY VENT AND WASTE/SANITARY ROUGH–INS AND DISTRIBUTION AS NEEDED FOR FIXTURE RELOCATIONS. NEW HW, CW & HWR PIPING SHALL BE EXTENDED TO FIXTURE WITHIN WALL.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

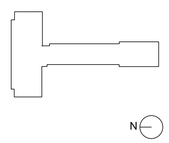
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

KEY PLAN

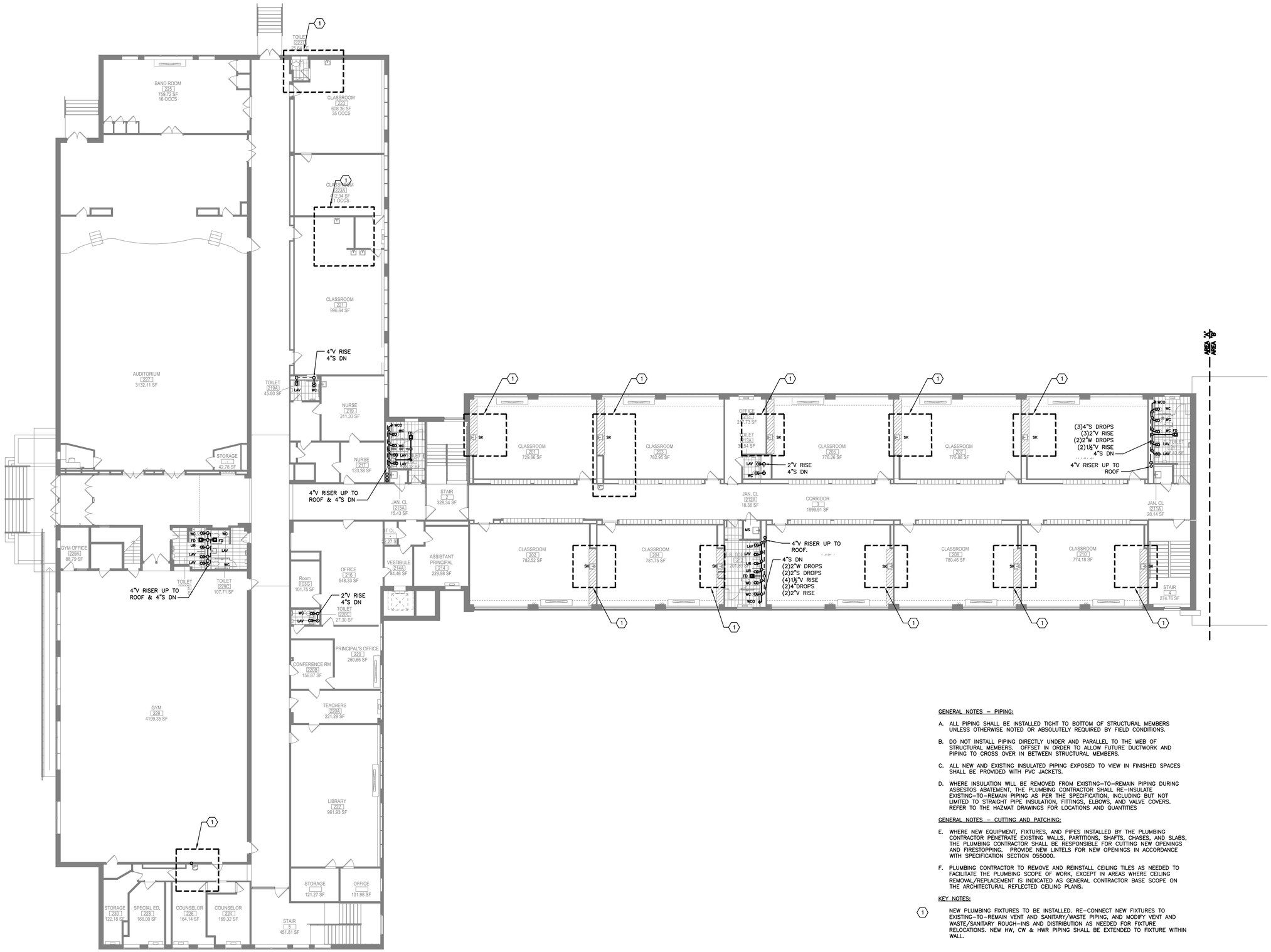


PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

PLUMBING PLAN - SANITARY AND VENT - GROUND FLOOR

AH P200



PART PLAN - FIRST FLOOR - AREA 'A'

3/32" = 1'-0"

GENERAL NOTES – PIPING:

A. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

B. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

C. ALL NEW AND EXISTING INSULATED PIPING EXPOSED TO VIEW IN FINISHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

D. WHERE INSULATION WILL BE REMOVED FROM EXISTING–TO–REMAIN PIPING DURING ASBESTOS ABATEMENT, THE PLUMBING CONTRACTOR SHALL RE–INSULATE EXISTING–TO–REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES

GENERAL NOTES – CUTTING AND PATCHING:

E. WHERE NEW EQUIPMENT, FIXTURES, AND PIPES INSTALLED BY THE PLUMBING CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

F. PLUMBING CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE PLUMBING SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

KEY NOTES:

(1) NEW PLUMBING FIXTURES TO BE INSTALLED. RE–CONNECT NEW FIXTURES TO EXISTING–TO–REMAIN VENT AND SANITARY/WASTE PIPING, AND MODIFY VENT AND WASTE/SANITARY ROUGH–INS AND DISTRIBUTION AS NEEDED FOR FIXTURE RELOCATIONS. NEW HW, CW & HWR PIPING SHALL BE EXTENDED TO FIXTURE WITHIN WALL.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
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HAZARDOUS MATERIALS CONSULTANT
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250 W 34TH ST., 4TH FLOOR
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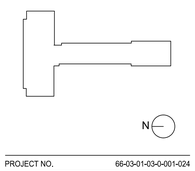
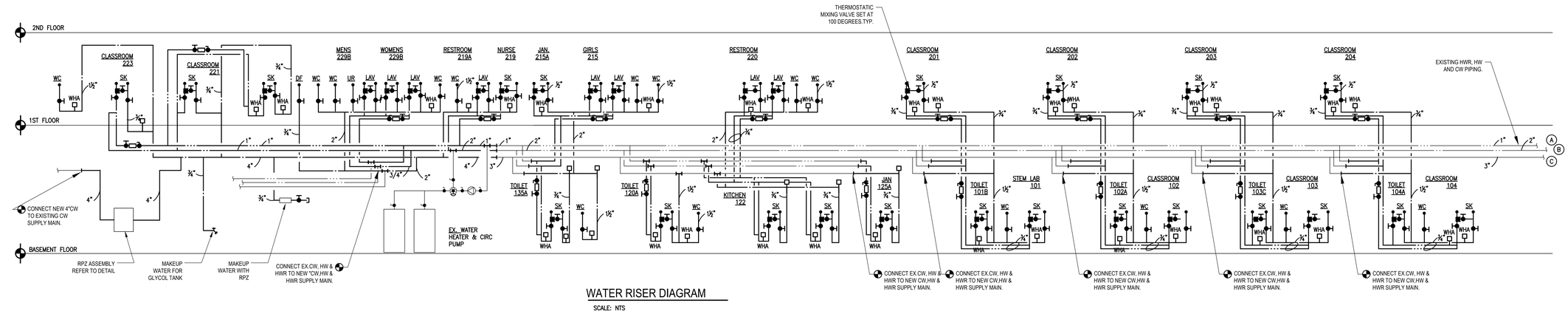


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

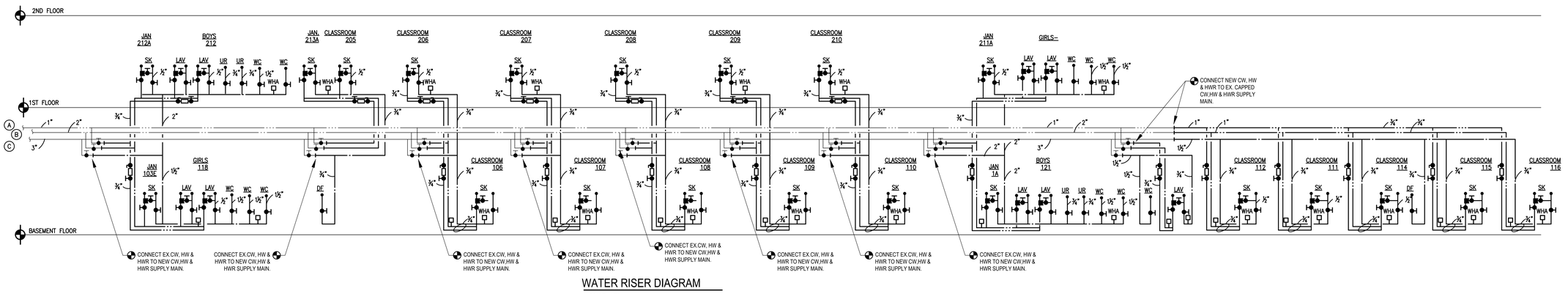
PLUMBING PLAN - SANITARY AND VENT - FIRST FLOOR

AH P201



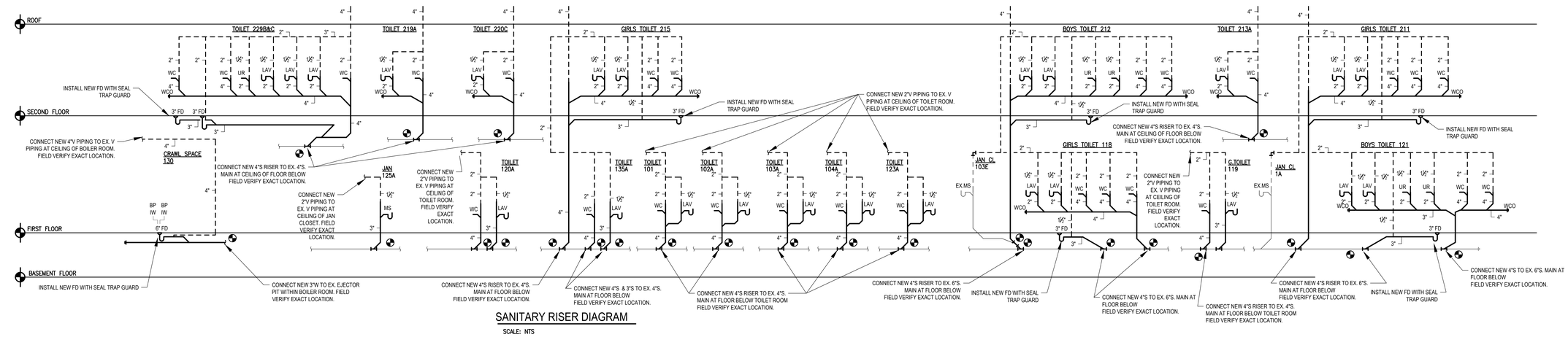
WATER RISER DIAGRAM

SCALE: NTS



WATER RISER DIAGRAM

SCALE: NTS



SANITARY RISER DIAGRAM

SCALE: NTS

NOTE:
PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH SUB-SLAB PIPING INCLUDING SAWCUT, JACKHAMMER, EXCAVATION, BACKFILL, CONCRETE SLAB PATCHING, ETC.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
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100 PARK BLVD, SUITE 209
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STANTEC
30 OAK STREET, SUITE 400
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HAZARDOUS MATERIALS CONSULTANT
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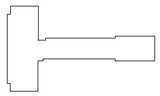

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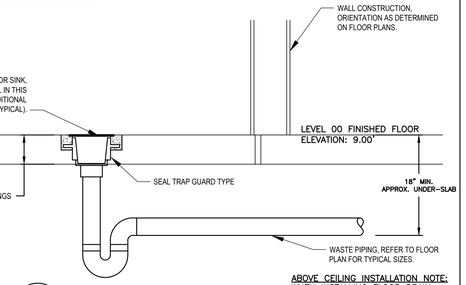
PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

PLUMBING RISER DIAGRAM

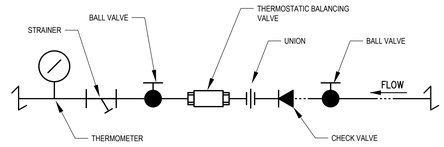
AH P500

FLOOR DRAIN INSTALLATION	
FLOOR DRAIN DEPRESSION(INCHES)	RADIUS OF AREA DRAIN (FEET)
1/2"	5 FT
3/3"	10 FT
1 1/2"	20 FT
	25 FT



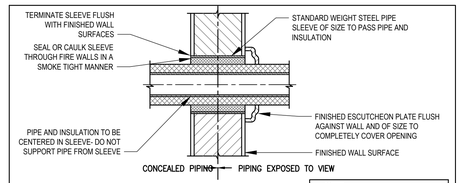
1 / P-600 TYPICAL FLOOR DRAIN DETAIL
SCALE: NOT TO SCALE

ABOVE CEILING INSTALLATION NOTE:
WHEN INSTALLING FLOOR DRAIN WASTE PIPING ABOVE CEILINGS, INSTALL PIPING AS TIGHT AS POSSIBLE TO STRUCTURE. SPACE BETWEEN STRUCTURE AND CEILING BELOW IS 1'-11"



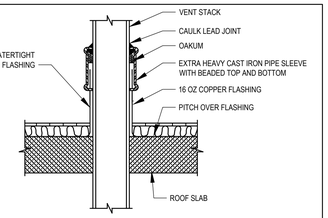
NOTES:
1. BALANCING VALVES 2" AND SMALL SHALL BE LEAD FREE BRONZE BODY RATED FOR A MAX WORKING PRESSURE OF 200 PSIG. BODY AND ALL INTERNAL COMPONENTS SHALL BE CONSTRUCTED OF STAINLESS STEEL WITH MAJOR COMPONENTS CONSTRUCTED OF TYPE 303 STAINLESS STEEL.
2. SHALL BE SELF-CONTAINED, TAMPER-PROOF AND FULLY AUTOMATIC WITHOUT ADDITIONAL PIPING OR CONTROL MECHANISMS.
3. BALANCING VALVE SHALL BE PROVIDED WITH TWO BALL VALVES, ONE CHECK VALVE, ONE STRAINER AND ONE THERMOMETER.
4. BALANCING VALVE SHALL BE CALIBRATED FOR 120 DEGREE F HOT WATER RETURN.
5. BALANCING VALVE SHALL BE THERMOMEGATECH BY CIRCUITSOLVER OR APPROVED OTHER.

2 / P-600 HOT WATER RETURN BALANCING VALVE DETAIL
SCALE: NOT TO SCALE



NOTE:
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE OR BELOW GRADE.

3 / P-600 PIPE SLEEVES THROUGH WALL
SCALE: NOT TO SCALE

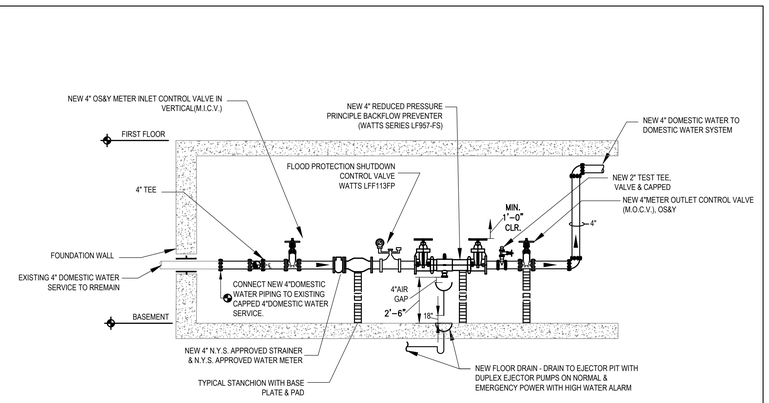


NOTES:

1. THE HEIGHT OF THE VENT PIPE SHALL EXTEND A MINIMUM OF 18" ABOVE THE FINISHED ROOF ELEVATION. IF THE ROOF IS TO BE OCCUPIED FOR A PURPOSE OTHER THAN MAINTENANCE THE VENT PIPE SHALL EXTEND A MINIMUM OF 7' ABOVE THE FINISHED ROOF ELEVATION.

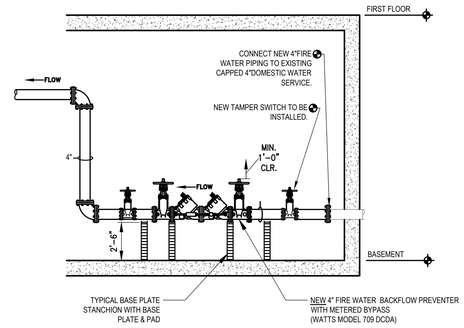
2. THE VENT PIPE DIAMETER SHALL BE INCREASED TO A MINIMUM OF 4" DIAMETER A MINIMUM OF 12" BELOW THE ROOF.

8 / P-600 VENT THROUGH ROOF DETAIL
SCALE: NOT TO SCALE

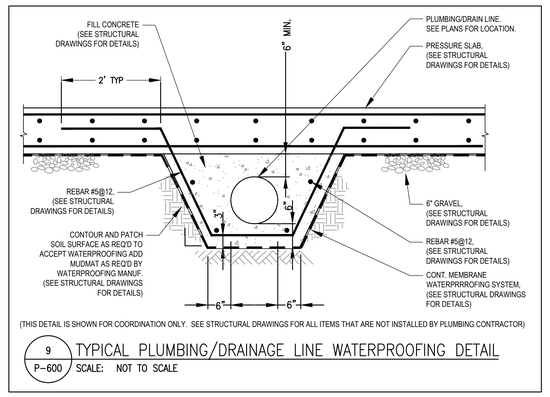


4 / P-600 DOMESTIC WATER SERVICE ELEVATION DETAIL
SCALE: NOT TO SCALE

NOTES:
1. SPRINKLER PIPING SHALL BE SCHEDULE 40 BLACK STEEL

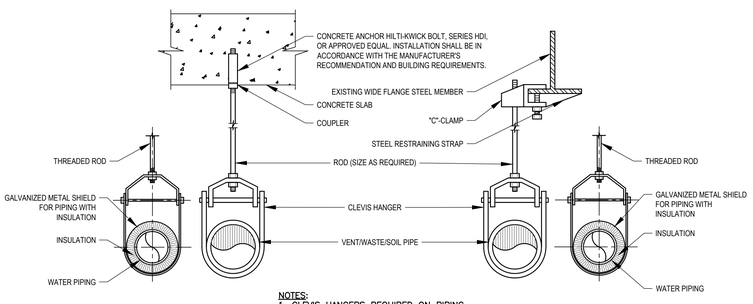


5 / P-600 FIRE WATER SERVICE ELEVATION DETAIL
SCALE: NOT TO SCALE



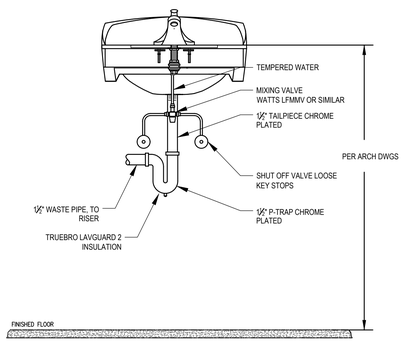
(THIS DETAIL IS SHOWN FOR COORDINATION ONLY. SEE STRUCTURAL DRAWINGS FOR ALL ITEMS THAT ARE NOT INSTALLED BY PLUMBING CONTRACTOR)

9 / P-600 TYPICAL PLUMBING/DRAINAGE LINE WATERPROOFING DETAIL
SCALE: NOT TO SCALE



NOTES:
1. CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1"
2. ALL COPPER PIPING TO BE PROTECTED FROM HANGERS OF A DISSIMILAR METAL BY ENGINEER ACCEPTED MEANS.

7 / P-600 TYPICAL HANGER DETAILS
SCALE: NOT TO SCALE



6 / P-600 TYPICAL LAVATORY PIPING INSTALLATION DETAIL
SCALE: NOT TO SCALE

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

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STANTEC
30 OAK STREET, SUITE 400
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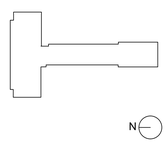


PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

PLUMBING DETAILS

AH P600

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ACM	ALUMINUM COMPOSITE MATERIAL
ADD	ADDENDUM
ADMIN	ADMINISTRATIVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIO VISUAL
BLDG	BUILDING
BOT OR B/	BOTTOM OF
BSMT	BASEMENT
CJ	CONTROL / CONSTRUCTION JOINT
CL	CENTERLINE
CLG / CLNG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DLO	DAYLIGHT OPENING
DN	DOWN
DO	DOOR OPENING
DWG	DRAWING
ED	EDUCATION
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FD	FRAME DIMENSION
FF	FACTORY FINISH
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDANT-TREATED MATERIAL
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZE(D)
GC	GENERAL CONTRACT(OR)
GND	GROUND
GWB	GYPSUM WALL BOARD
GWBS	GYPSUM WALL BOARD SOFFIT
HC	HANDICAPPED ACCESSIBLE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH / INCHES
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
LAB	LABORATORY
LB	POUND
LIN	LINEAR
LVL	LEVEL
MAN	MANUAL
MAS	MASONRY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER(R)
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
O/HD	OVERHEAD
OPT	OPTIONAL
OZ	OUNCE
PERIM	PERIMETER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
PR	PAIR
PREP	PREPARATORY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
RB	RUBBER / RUBBER WALL BASE
REQD	REQUIRED
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
SCH	SCHEDULED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
SAC	SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEMP	TEMPORARY
TMPD	TEMPERED
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
U.O.N	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WDV	WOOD VENEER
WPT	WOOD PRESERVED-TREATED MATERIAL
WT	WEIGHT
YD	YARD

ARCHITECTURAL LEGEND

MATERIAL INDICATIONS

- EARTH
- GRANULAR FILL
- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE
- GROUT
- ROUGH WOOD BLOCKING
- SHIM
- FINISH WOOD
- PLYWOOD
- SHEATHING
- RIGID INSULATION
- BATT INSULATION
- SPRAY FOAM INSULATION
- EPS INSULATION
- STEEL

DIMENSIONING CONVENTIONS

- FACE OF STUD OR CMU
- COLUMN CENTER LINE

SYMBOLS

- CLASSROOM / 100 / 000 S.F. — ROOM NAME; ROOM NUMBER; AREA OF ROOM
- A100 — DOOR NUMBER, REFER TO A900 DRAWINGS
- 1 — WINDOW TAG, REFER TO A900 DRAWINGS
- BL11 — BORROWED LIGHT NUMBER, REFER TO A900 DRAWINGS
- S1 — STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
- 1 — COLUMN GRID DESIGNATION
- 1 / M — PARTITION TAG, REFER TO A700 DRAWINGS; ADDITIONAL NOTES FOR PARTITION
- 1 — REVISION NUMBER
- 1 — KEY NOTE, NEW WORK
- 1 — KEY NOTE, DEMOLITION WORK
- +0'-0" — ELEVATION TAG
- ACCESSIBILITY SIGN
- WALL FINISH / BASE FINISH / FLOOR FINISH / CEILING FINISH — INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS
- CHANGE IN FINISH MATERIAL

DETAIL INDICATOR LEGEND

SECTION INDICATOR

SECTION NUMBER; DRAWING SHEET NUMBER SECTION IS DRAWN ON (1 / A100); DIRECTION OF VIEW

DETAIL INDICATOR (SECTION)

SECTION NUMBER; DRAWING SHEET NUMBER SECTION IS DRAWN ON (1 / A100); DIRECTION OF VIEW

ENLARGED DETAIL INDICATOR

DRAWING AREA REQUIRING DETAIL; DETAIL NUMBER; DRAWING SHEET NUMBER DETAIL IS DRAWN ON (1 / A100)

DETAIL TITLE

DETAIL TYPE / NAME — FLOOR PLAN — 1/8" = 1'-0" — SCALE; DETAIL TYPE / NAME — 10

EXTERIOR ELEVATION INDICATOR

DIRECTION OF VIEW; ELEVATION NUMBER; DRAWING SHEET NUMBER DETAIL IS DRAWN ON (1 / A100)

INTERIOR ELEVATION INDICATOR

BLANK ARROW INDICATES ELEVATIONS NOT DETAILED; ELEVATION NUMBER (B / A); DRAWING SHEET NUMBER DETAIL IS DRAWN ON (A600); DIRECTION OF VIEWS

GENERAL NOTES

1. DIMENSIONS ARE GIVEN THUS (UNLESS OTHERWISE NOTED)
   A. TO FACE OF MASONRY WALL
   B. TO FACE OF GYPSUM WALL BOARD
   C. TO COLUMN CENTERLINES
   D. TO FINISH FACE OF SOFFIT OR CEILING
   E. FACE OF EXISTING CONSTRUCTION
2. DO NOT SCALE DRAWINGS. IF A DIMENSION IS NOT SHOWN, BRING IT TO THE ATTENTION OF THE ARCHITECT FOR VERIFICATION BEFORE PROCEEDING WITH THE ASSOCIATED WORK
3. WALLS ON COLUMN LINES ARE CENTERED, U.O.N.
4. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.
5. LAYOUT OF TOILET FIXTURES AND ACCESSIBILITY CLEARANCES ARE SHOWN AS CLEAR DIMENSION. CONTRACTORS ARE REQUIRED TO COORDINATE LAYOUTS OF PARTITIONS, UTILITY CONNECTIONS, AND THICKNESS OF FINISHES TO ALLOW THESE CLEAR DIMENSIONS.
6. ALL ELEVATIONS (X'-X") ARE REFERENCE FROM FIRST FLOOR ELEVATION.
7. ALL WOOD BLOCKING WITHIN ROOFING SYSTEM AND WITHIN 2'-0" OF GRADE SHALL BE PRESSURE TREATED
8. ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND / OR FIRE STOPPED. COORDINATE WITH 'H' DWGS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
9. ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
10. PROVIDE PATCH TO MATCH EXISTING FINISHES AT ALL WALL REMOVAL AREAS, COORDINATE WITH DEMOLITION DRAWINGS AND SPECIFICATIONS.
11. FOR ALL MATERIAL TESTING, REFER TO SPECIFICATION DIVISION 000220.
12. ALL CONSTRUCTION SHOWN IS NEW UNLESS NOTED OTHERWISE.

DEMOLITION SCOPE OF WORK NOTES:

DEMOLITION NOTES:

1. CONTRACTOR SHALL PERFORM ALL OPERATIONS OF DEMOLITION AND ANY REMOVAL INDICATED ON THE DWGS. AS MAY BE REQUIRED TO FACILITATE NEW WORK. ALL DEMOLITION WORK SHALL BE DONE CAREFULLY, NEATLY IN A SYSTEMATIC MANNER.
2. ALL DEMOLITION WORK SHALL BE COORDINATED WITH ASBESTOS, MEP AND ANY STRUCTURAL DEMOLITION REQUIREMENTS. CONTRACTOR SHALL ADHERE TO ALL FEDERAL AND STATE LEAD BASED PAINT REMOVAL REQUIREMENTS AS OUTLINED IN THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS. THE CONTRACTOR IS TO PROVIDE ALL ABATEMENT WASTE MANIFESTS, PRE- AND POST- DEMOLITION CLEAN UP TEST RESULTS, AND ANY LEAD SPECIALIST CERTIFICATION CARDS AS REQUIRED IN A TIMELY MANNER.
3. ALL EXISTING SURFACES, EQUIPMENT AND OWNER ITEMS, AND/OR FURNITURE SCHEDULED TO REMAIN SHALL BE FULLY PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES AND SHALL MAKE REPAIRS OR PROVIDE REPLACEMENTS PROMPTLY AT NO ADDITIONAL COST TO THE OWNER.
4. ANY FIXTURES, APPLIANCES, HARDWARE, DOORS OR CASINGS THAT ARE SCHEDULED TO BE SALVAGED MUST BE REMOVED FROM THE SITE PRIOR TO THE START OF DEMOLITION. COORDINATE STORAGE REQUIREMENTS WITH THE OWNER.
5. ANY DISCREPANCIES DISCOVERED DURING DEMOLITION FROM EXISTING CONDITIONS DEPICTED ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER OF RECORD BEFORE ANY WORK CAN PROCEED.
6. UNLESS OTHERWISE NOTED IN THE DRAWINGS, NO STRUCTURAL MEMBERS SHALL BE REMOVED UNLESS PORTIONS AFFECTED ARE ADEQUATELY SUPPORTED BY EITHER TEMPORARY SHORING OR NEW STRUCTURAL ELEMENTS AS REQUIRED TO PROTECT THE INTEGRITY AND SUPPORT OF THE EXISTING STRUCTURE. REFER TO STRUCTURAL DEMOLITION DRAWINGS FOR MORE INFORMATION. CHANELLING OF FLOOR SLABS OR EXISTING STRUCTURAL WALLS IS GENERALLY PROHIBITED UNLESS OTHERWISE NOTED.
7. COORDINATE NEW MASONRY OPENINGS AS REQUIRED TO PROVIDE STEEL LINTELS. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTION FOR THE BUILDING AND ITS CONTENTS THROUGHOUT THE DURATION OF THE WORK. ALL OPENINGS IN ANY WALL, ROOF, FLOOR OR CEILING SHALL BE PROTECTED FROM ANY FORM OF WEATHER OR WATER PENETRATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES AND SHALL MAKE REQUIRED REPAIRS OR PROVIDE REPLACEMENTS PROMPTLY AT NO ADDITIONAL COST TO THE OWNER.
9. PROPERTY IS TO BE KEPT SECURE AT ALL TIMES.
10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARTITION FIRE RATINGS THROUGHOUT THE DURATION OF THE WORK. ANY HOLES OR DAMAGE CREATED IN RATED PARTITIONS SHALL BE IMMEDIATELY REPAIRED TO MATCH EXISTING CONSTRUCTION TO MAINTAIN FIRE RATINGS. PROPERLY FIRESTOP ALL NEW PENETRATIONS AND EXISTING PENETRATIONS NOT PROPERLY FIRESTOPPED.
11. DISCONNECT AND SEAL ALL UTILITIES SERVING ITEMS AFFECTED BY CONSTRUCTION, PRIOR TO START OF DEMOLITION WORK. COORDINATE ANY REQUIRED SHUTDOWNS WITH THE OWNER.
12. REMOVE OR RELOCATE ALL WIRING, PLUMBING, MECHANICAL EQUIPMENT, ETC. AFFECTED BY REMOVAL OF PARTITIONS. REMOVED PIPES AND/OR LINES SHALL BE CUT TO A POINT OF CONCEALMENT BEHIND OR BELOW FINISHED SURFACES AND SHALL BE PROPERLY CAPPED, PLUGGED OR DISCONNECTED. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
13. ANY EXISTING VENTILATION SHAFTS/GRILLES TO REMAIN IN OPERATION ARE TO BE PROTECTED AND COVERED IN ORDER TO CONTAIN DUST, ODORS, AND DEBRIS FROM ENTERING THE SYSTEM. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

14. FLOORING:

a. IN AREAS WITH FLOOR FINISHES SCHEDULED TO BE REMOVED, ALL EXISTING FINISHES ARE TO BE REMOVED TO EXPOSE THE EXISTING SUBSTRATE BELOW. ALL DEBRIS AND ADHESIVES ARE TO BE SCRAPED FROM SUBFLOOR IN PREPARATION FOR NEW FINISHES. THE CONTRACTOR IS TO BRING TO THE ATTENTION OF THE ARCHITECT ANY DEFICIENT EXISTING CONDITIONS IN EXISTING CONSTRUCTION BEYOND EASILY OBSERVED FINISHES UNCOVERED DURING DEMOLITION.

b. FOR AREAS WHERE EXISTING FLOOR FINISHES AND FLOOR CONSTRUCTION BELOW IS SCHEDULED TO BE REMOVED REFER TO DEMO NOTE 6 AND STRUCTURAL DRAWINGS FOR MORE INFORMATION. COORDINATE REMOVALS AS REQUIRED WITH NEW CONSTRUCTION.

15. WALL FINISHES:

a. WHERE EXISTING WALL TILE OR STONE FINISHES ARE SCHEDULED TO BE REMOVED, THE CONTRACTOR IS TO PERFORM INVESTIGATION PROBES TO DETERMINE THE EXISTING SUBSTRATE BEYOND EASILY OBSERVED FINISHES. ANY EXISTING CEMENT BOARD OR GWB SUBSTRATE IS TO BE REMOVED TOGETHER WITH THE TILE FINISH. CEMENT BLOCK OR MASONRY SUBSTRATES ARE TO BE SCRAPED AS REQUIRED IN PREPARATION TO RECEIVE NEW FINISHES. OTHER EXISTING SUBSTRATE CONDITIONS ARE TO BE FURTHER INVESTIGATED IN THE FIELD AND THE ARCHITECT IS TO BE NOTIFIED OF EXISTING SUBSTRATE CONDITIONS ONCE PROBES HAVE BEEN COMPLETED. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE TO THE ARCHITECT SO AS NOT TO DELAY THE PROGRESS OF THE WORK.

b. WHERE OTHER EXISTING WALL FINISHES (WOOD, METAL CLADDING ETC) ARE SCHEDULED TO BE REMOVED, THE CONTRACTOR IS TO REMOVE THE FINISHES ONLY. SUBSTRATE IS TO REMAIN, AND CONDITION IS TO BE VERIFIED IN THE FIELD AFTER PROBES ARE PERFORMED, ON A CASE BY CASE BASIS. CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE SO AS NOT TO DELAY THE WORK.

16. CEILING FINISHES:

a. WHERE EXISTING CEILING FINISHES ARE SCHEDULED TO BE REMOVED, DEMOLITION WORK IS TO BE PERFORMED AS FOLLOWS:

   i. REMOVE EXISTING ACOUSTIC CEILING TILE SYSTEM IN ITS ENTIRETY INCUDING ALL MAIN RUNNERS, TEES AND SUPPORTS UNLESS OTHERWISE NOTED.
   ii. REMOVE EXISTING SUSPENDED GWB SYSTEM IN ITS ENTIRETY AS INDICATED ON PLANS UNLESS OTHERWISE NOTED.
   iii. REMOVE EXISTING PLASTER FINISH AND ANY MESH BEYOND AS REQUIRED IN PREPARATION TO RECEIVE NEW FINISHES IN AREAS INDICATED IN PLANS.

b. PERFORM PROBES AS REQUIRED TO CLARIFY EXISTING SUBSTRATES AND SYSTEMS BEYOND IN AREAS WHERE EXISTING SYSTEMS ARE NOT EASILY IDENTIFIED BY OBSERVATION.

17. PATCH AND REPAIR ALL SURFACES, SUBSTRATES AND FINISHES IN AREAS AFFECTED BY REMOVALS TO AS-NEW CONDITION TO MATCH EXISTING ADJACENT CONDITIONS. IF FLOOR-MOUNTED EQUIPMENT IS REMOVED AND NOT REPLACED, PROVIDE AND INSTALL NEW FLOORING TO MATCH EXISTING ADJACENT CONDITIONS.
18. REMOVE FROM SITE ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION WORK AND AS REQUIRED DURING THE COURSE OF NEW CONSTRUCTION WORK. THE WORK SITE IS TO BE KEPT CLEAN WITH NO DEBRIS PERMITTED TO ACCUMULATE ON SITE. THE CONTRACTOR SHALL LEAVE THE SITE BROOM CLEAN AT THE END OF DEMOLITION.

19. UNCOVERED CONDITIONS DURING DEMOLITION:

a. ALL WALLS SCHEDULED TO BE REMOVED HAVE BEEN INSPECTED TO DETERMINE WHETHER THEY ARE LOAD BEARING. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION. IF ANY EXISTING STRUCTURAL MEMBER OR LOAD BEARING WALL IS UNCOVERED DURING THE COURSE OF DEMOLTION IT IS NOT TO BE DISTURBED. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY SO THAT ANY DESIGN CHANGES CAN BE MADE TO ACCOMMODATE PROPOSED WORK WITHOUT DISTURBING EXISTING STRUCTURE. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE SO AS NOT TO DELAY THE WORK.

b. ANY MECHANICAL OR PLUMBING CHASES UNCOVERED DURING THE COURSE OF DEMOLITION ARE NOT TO BE DISTURBED UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONTRACTOR IS TO NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY EXISTING CONDITION NOT DEPICTED IN THE DRAWINGS FOR ARCHITECT/ENGINEER TO ASSESS THE EXISTING SYSTEM AND ACCOMMODATE PROPOSED WORK WITHOUT DISTURBING EXISTING BUILDING SYSTEMS. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE SO AS NOT TO DELAY THE WORK.

c. IN AREAS WHERE EXISTING CEILING FINISHES OR CEILINGS ARE SCHEDULED TO BE REMOVED OR REPLACED, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FROM EXISTING CONDITIONS DEPICTED IN THE DRAWINGS, AND OF ANY EXISTING STRUCTURAL MEMBER, MEP SERVICES OR EQUIPMENT UNCOVERED DURING DEMOLITION.

d. CONTRACTOR IS TO IDENTIFY ANY EXISTING CONDITIONS BEYOND EASILY OBSERVED FINISHES, OR PROPOSED FINISHES AFFECTING ALL WORK DURING THE COURSE OF DEMOLITION, AND NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH NEW CONSTUCTION, SO THAT ANY DESIGN CHANGES CAN BE MADE TO ACCOMMODATE UNCOVERED CONDITIONS. THE CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE SO AS NOT TO DELAY THE WORK.

e. AT DEMOLITION COMPLETION, A SITE MEETING IS TO BE SCHEDULED TO REVIEW EXISTING CONDITIONS WITH THE ARCHITECT AND ENGINEER SO THAT ANY UNFORSEEN AND UNCOVERED CONDITIONS CAN BE INCLUDED IN THE DESIGN AND CHANGES CAN BE MADE IN A TIMELY MANNER.

20. CONTRACTOR IS TO PROTECT ALL BUILDING COMMON AREAS THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL AFFECTED AREAS ARE TO BE KEPT DUST FREE AND CLEANED DAILY. CONTRACTOR SHALL ADHERE TO ALL OWNER REQUIREMENTS RELATIVE TO THE PROTECTION OF WORK AREAS AS OUTLINED IN THE PROJECT SPECS AND CONTRACT.

MIDDLE SCHOOL / HIGH SCHOOL

2 STEWART PLACE, EASTCHESTER, NY 10709

SED NO. 66-03-01-03-0-003-033

MEMASI PROJECT NO. 102-2301

ISSUED FOR BID: 11/06/2024

DRAWING LIST

2020 EXISTING BUILDING CODE OF NEW YORK STATE ANALYSIS - CLASSIFICATION OF WORK

EBC 603	**ALTERATION - LEVEL 2**	
EBC 603.1	SCOPE	LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE, AND THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM. OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT.

2020 BUILDING CODE OF NEW YORK STATE - ANALYSIS CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE CHAPTER 6 - TYPES OF CONSTRUCTION

BC 302.1	OCCUPANCY CLASSIFICATION	3. EDUCATIONAL (SECTION 305): **GROUP E**
BC 305.1	EDUCATIONAL GROUP E	EDUCATIONAL GROUP E OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.
TABLE 601	FIRE-RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS EXISTING BUILDING	PRIMARY STRUCTURAL FRAME, BEARING WALLS AND PARTITIONS, NONBEARING WALLS AND PARTITIONS, FLOOR CONSTRUCTION, AND ROOF CONSTRUCTION. **TYPE I-B AND II-B** FIRE-RESISTANCE (HOURS): **0**

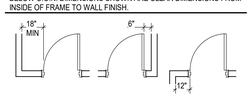
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

TABLE C301.1	NEW YORK STATE CLIMATE ZONES BY COUNTY	
	CLIMATE ZONE 4A	WESTCHESTER COUNTY, NY
TABLE C402.4	BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND AHGC REQUIREMENTS	
ENTRANCE DOORS	(CLIMATE ZONE 4)	U-FACTOR 0.77 SHGC 0.2 < PF < 0.5 0.43

PLAN GRAPHICS LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW CONCRETE MASONRY WALL
- NEW METAL STUD WALL
- NEW BRICK VENEER
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- NEW DOOR

FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW U.O.N. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

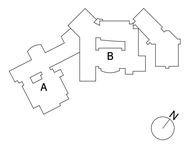
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

GENERAL INFORMATION

HS G001

SHEET NOTES

KEY NOTES

PARTITION NOTES

1A — PARTITION TYPE NUMBER

NOM. CMU SIZE	STC RATING	FIRE RATING / TEST DESIGN	SIDE ONE FINISH	SIDE TWO FINISH

GENERAL PARTITION NOTES

1. THIS PARTITION TYPE SCHEDULE IS GENERIC IN NATURE. NOT ALL OF THE PARTITION TYPES ILLUSTRATED ON THIS SHEET HAVE BEEN UTILIZED IN THIS PROJECT. SEE FLOOR PLANS FOR LOCATIONS OF PARTITION TYPES USED.
2. ALL INTERIOR PARTITIONS INDICATED ON THE FLOOR PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY PARTITION SHOWN ON THE FLOOR PLANS WITHOUT A PARTITION TAG. THE ARCHITECT WILL DETERMINE THE PARTITION TYPE TO BE USED AT SUCH LOCATIONS.

FIRE RATED SYSTEMS

1. PROVIDE FIRE RATED JOINT SYSTEMS AT ALL INTERSECTIONS OF FIRE RATED PARTITION ASSEMBLIES AND FIRE RATED FLOOR/ROOF ASSEMBLIES. THE FIRE RATED JOINT SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE PARTITION IN WHICH IT IS BEING USED. THIS JOINT SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
2. PROVIDE THROUGH-PENETRATION FIRE STOP SYSTEM AT ALL PENETRATIONS THROUGH FIRE RATED PARTITION, FLOOR AND ROOF ASSEMBLIES. THE THROUGH-PENETRATION FIRE STOP SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE ASSEMBLY THAT IT IS BEING USED IN. THIS FIRE STOP SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
3. ANY PRODUCT THAT EMITS ODOR MUST MEET THE REQUIREMENTS OF THE NEW YORK STATE EDUCATION DEPARTMENT.
4. CONCEALED VERTICAL SPACES IN PARTITIONS SHALL BE FILLED WITH NON COMBUSTIBLE MATERIAL, OR FIRE-STOPPED AT EACH FLOOR LEVEL AND AT THE CEILING OF THE UPPERMOST STORY, SO THAT SUCH SPACES WILL NOT BE CONTINUOUS FOR MORE THAN ONE STORY, OR COMMUNICATE WITH CONCEALED HORIZONTAL SPACES IN THE FLOOR OR ROOF CONSTRUCTION.
5. ALL PARTITION TYPE DIAGRAMS ARE GRAPHICAL IN NATURE. IN THE CASE WHERE A DIAGRAM DOES NOT SHOW ALL MATERIALS REQUIRED BY A FIRE-RATED PARTITION, THE PARTITION TYPE DESCRIPTION GOVERNS.

CMU WALL SYSTEMS

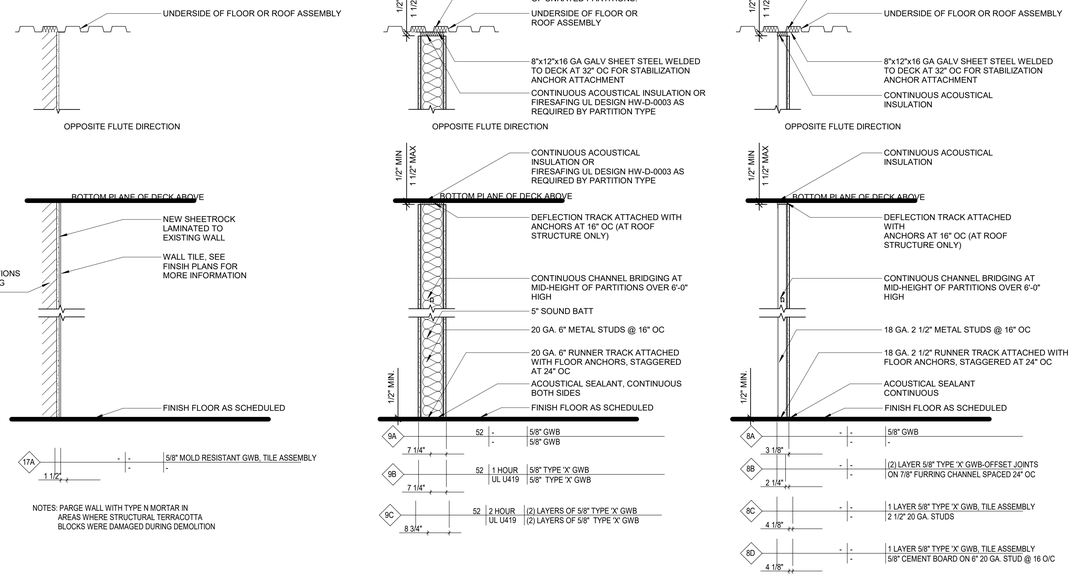
1. ALL PLAN DIMENSIONS ARE TO FACE OF CMU, UNLESS NOTED OTHERWISE.
2. PROVIDE HORIZONTAL JOINT REINFORCEMENT EVERY OTHER CMU COURSE.
3. PROVIDE (2) VERTICAL #4 BARS IN FULLY GROUTED CORES AT THE FOLLOWING LOCATIONS:
   A) PARTITION INTERSECTIONS (REINFORCE FULL HEIGHT)
   B) DOOR OPENINGS (REINFORCE FULL HEIGHT OFDOOR)
   C) WINDOW OPENINGS (REINFORCE FLOOR TO WINDOW HEAD)
   D) WALL ENDS (REINFORCE FULL HEIGHT)
4. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REINFORCING AND ANCHORING REQUIREMENTS.
5. PROVIDE BULLNOSE MASONRY UNITS ON ALL OUTSIDE CORNERS OF WALLS UNLESS NOTED OTHERWISE.

METAL STUD PARTITION AND CEILING SYSTEMS

1. ALL DIMENSIONS ARE TO THE FACE OF GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.
2. PROVIDE METAL BRACING AT THIRD POINTS AT THE INTERIOR OF METAL STUD CHASE PARTITIONS. BRACING SHALL NOT EXCEED 48" OC.
3. PROVIDE METAL L.C. BEAD, BACKER ROD AND SEALANT AT THE INTERSECTION OF GYP BD PARTITIONS AND MASONRY PARTITIONS.
4. PROVIDE ACOUSTICAL SEALANT IN THE FOLLOWING LOCATIONS:
   A) PERIMETER OF PARTITIONS
   B) RUNNERS
   C) ELECTRICAL OUTLETS
   D) PARTITION PENETRATIONS AND OPENINGS
5. PROVIDE BLOCKING WITHIN PARTITIONS TO SUPPORT PARTITION MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES. COORDINATE WITH CABINETRY DETAILS AND MEP DRAWINGS.
6. ALL INTERIOR METAL STUDS AND METAL FURRING AT PARTITIONS ARE 20 GAUGE UNLESS OTHERWISE NOTED. ALL INTERIOR METAL STUDS AND FURRING FOR CEILING SOFFITS ARE 25 GAUGE UNLESS NOTED OTHERWISE.
7. ANCHOR INSULATION TO STUD SYSTEM WITH WIRE SUPPORT SYSTEM IF INSULATION IS NOT SUPPORTED ON BOTH SIDES BY GYPSUM BOARD. WHERE DOUBLE STUD PARTITIONS ARE USED TO FORM CHASE PARTITIONS ONLY PROVIDE SOUND ATTENUATION BLANKETS ON ONE SIDE OF CHASE
8. GYPSUM BOARD SCHEDULE
   - 5/8" TYPE "X" GYPSUM BOARD UNLESS NOTED OTHERWISE.
   - CORRIDOR AND STUDENT OCCUPIED SPACES FROM FLOOR TO 8'-0" ABOVE FINISHED FLOOR: 5/8" TYPE "X" ABUSE RESISTANT GYPSUM BOARD
   -SUSPENDED GYPSUM BOARD CEILINGS: 5/8" TYPE "X" SAG RESISTANT GYPSUM BOARD
   -EXTERIOR CEILINGS AND SOFFITS: 5/8" GLASS-MAT GYPSUM SHEATHING
   -PARTITIONS TO RECEIVE TILE FINISH: 5/8" TYPE "X"GLASS-MAT WATER RESISTANT BACKING BOARD
   - TOILET ROOMS, KITCHENS & JANITOR CLOSETS: PARTITIONS & CEILINGS THAT DO NOT RECEIVE TILE SHALL RECEIVE 5/8" TYPE "X" MOISTURE & MOLD RESISTANT GYPSUM BOARD

MAXIMUM SPACING - GYPSUM BOARD CONTROL JOINTS

CONSTRUCTION AND LOCATION	MAX SINGLE DIMENSION FEET	MAX SINGLE AREA FEET
PARTITION - INTERIOR	30	-
CEILING - INTERIOR		
W/ PERIMETER RELIEF	50	2500
W/O PERIMETER RELIEF	30	900



PARTITION TYPES

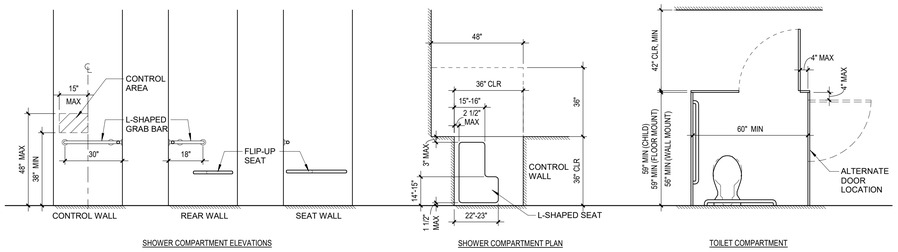
3/4" = 1'-0"

20

TOILET ROOM EQUIPMENT MOUNTING DETAILS

3/8" = 1'-0"

10



EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

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STANTEC
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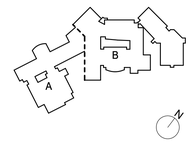
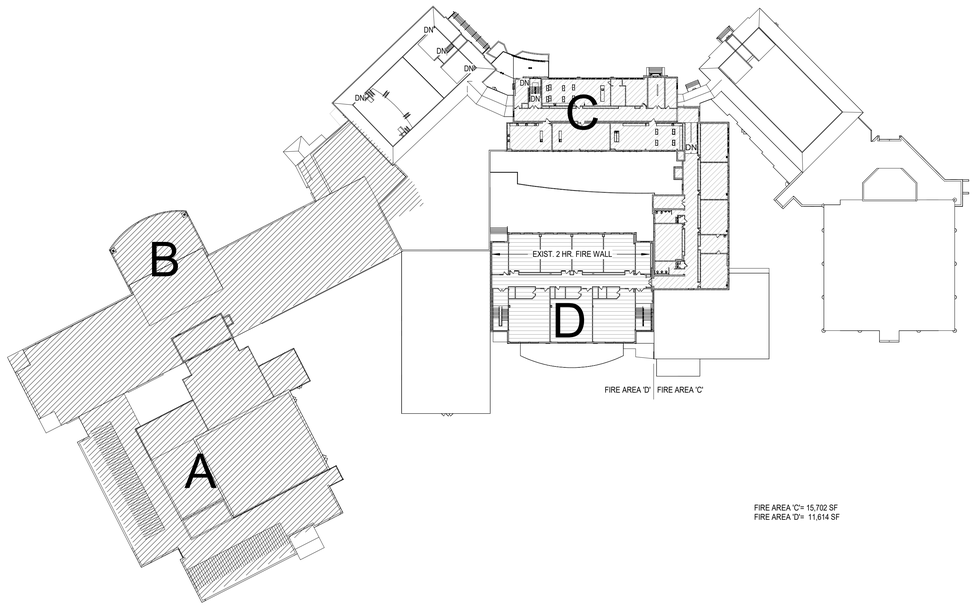
KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

PARTITION TYPES

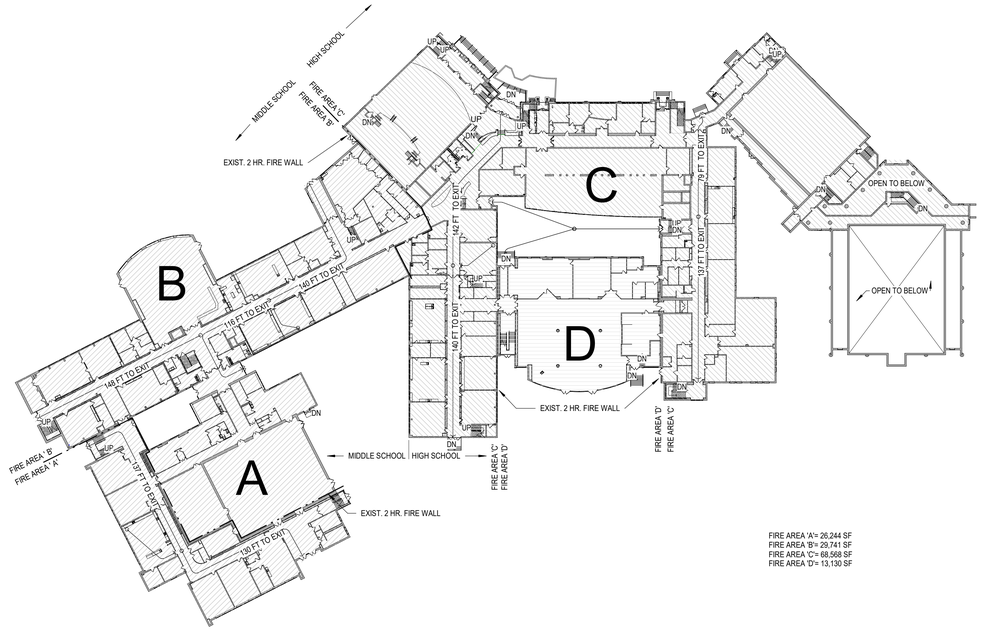
HS G002



FIRE AREA 'C'= 15,702 SF
FIRE AREA 'D'= 11,614 SF

LIFE SAFETY PLAN - THIRD FLOOR

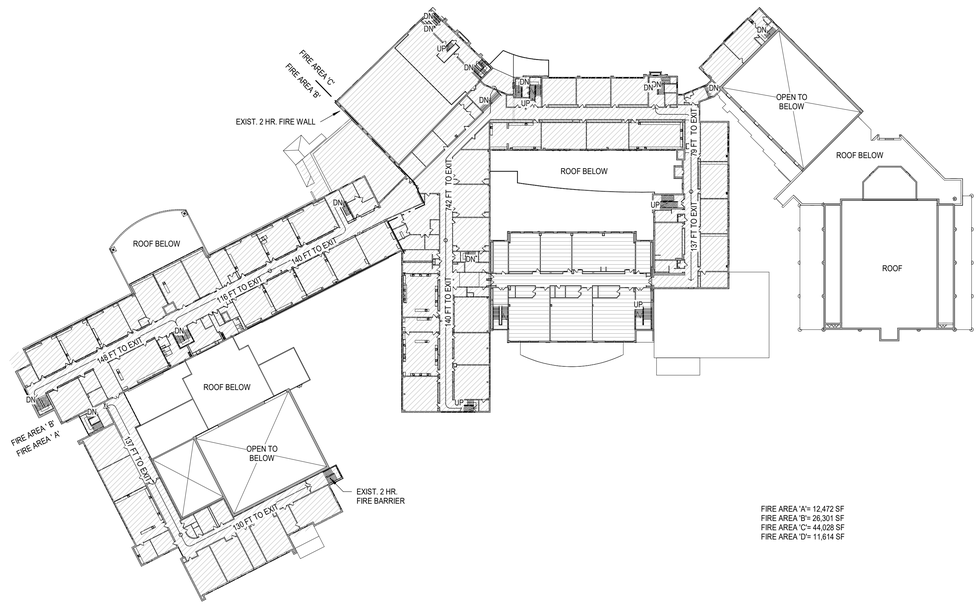
1" = 50'-0" — 22



FIRE AREA 'A'= 26,244 SF
FIRE AREA 'B'= 29,741 SF
FIRE AREA 'C'= 68,568 SF
FIRE AREA 'D'= 13,130 SF

LIFE SAFETY PLAN - FIRST FLOOR

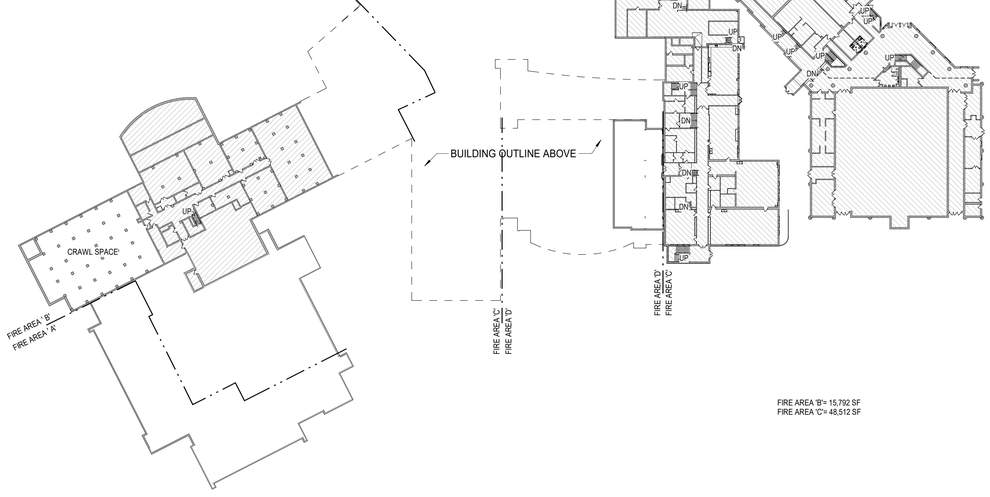
1" = 50'-0" — 20



FIRE AREA 'A'= 12,472 SF
FIRE AREA 'B'= 26,301 SF
FIRE AREA 'C'= 44,028 SF
FIRE AREA 'D'= 11,614 SF

LIFE SAFETY PLAN - SECOND FLOOR

1" = 50'-0" — 11



FIRE AREA 'B'= 15,792 SF
FIRE AREA 'C'= 48,512 SF

LIFE SAFTEY PLAN - BASEMENT

1" = 50'-0" — 10

2020 BUILDING CODE OF NEW YORK STATE ANALYSIS - CHAPTER 10 MEANS OF EGRESS

BC 1004.1	DESIGN OCCUPANT LOAD	IN DETERMINING MEANS OF EGRESS, THE NUMBER OF OCCUPANTS FOR WHOM MEANS OF EGRESS FACILITIES ARE PROVIDED SHALL BE DETERMINED IN ACCORDANCE WITH THIS SECTION.
TABLE1004.5	MAX. FLOOR AREA PER OCC.	ACCESSORY STORAGE AREAS, MECHANICAL EQUIP. RM 300 SF. GROSS/ OCC ASSEMBLY WITHOUT FIXED SEATS UNCONCENTRATED 15 SF. NET / OCC. WITH FIXED SEATS (1004.4) INSTALLED SEATS (THE TOTAL NUMBER OF INSTALLED SEATS AT ANNE HUTCHINSON ES IS 400) BUSINESS AREAS 150 SF. GROSS/ OCC. CONCENTRATED BUSINESS AREAS > 50 SF/OCC EDUCATIONAL CLASSROOM AREA 20 SF. NET / OCC. SHOPS AND OTHER VOCATIONAL 50 SF. NET / OCC. EXERCISE ROOMS 50 SF. GROSS / OCC.. LIBRARY READING ROOMS 50 SF. NET / OCC. STACK AREA 100 SF. GROSS/ OCC. STAGES AND PLATFORMS 15 SF. NET / OCC.
BC 1004.7	OUTDOOR AREAS	YARD, PATIOS, OCCUPIED ROOFS, COURTS AND SIMILAR OUTDOOR AREAS ACCESSIBLE TO AND USABLE BY THE BUILDING OCCUPANTS SHALL BE PROVIDED. MEANS OF EGRESS AS REQUIRED BY THIS CHAPTER. THE OCCUPANT LOAD SHALL BE ASSIGNED BY THE BUILDING OFFICIAL.
BC 1005.3.1	STAIRWAYS	THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAY BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT.
BC 1005.3.2	OTHER EGRESS COMPONENTS	THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT.
TABLE 1006.2.1	MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 75 FEET
TABLE 1006.3.1	MIN.NUMBER OF EXITS OR ACCESS TO EXITS PER STORY	OCCUPANT LOAD PER STORY MIN. NUMBER OF EXITS OR ACCESS TO EXITS 1-500 2 501-1,000 3 > 1,000 4
BC 1007.1.1	TWO EXITS OR EXIT	WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS [...] THE ACCESS DOORWAYS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED IN A STRAIGHT LINE BETWEEN THEM.
BC 1007.1.2	THREE OR MORE EXITS OR	WHERE ACCESS TO THREE OR MORE EXITS IS REQUIRED [...] ADDITIONAL REQUIRED EXIT OR EXIT ACCESS DOORWAYS ACCESS DOORWAYS SHALL BE ARRANGED A REASONABLE DISTANCE A SHALL BE ARRANGED A REASONABLE DISTANCE APART SO THAT ONE BECOMES BLOCKED THE OTHERS WILL BE AVAILABLE.
BC 1008.1	MEANS OF EGRESS	ILLUMINATION SHALL BE PROVIDED IN THE MEANS OF EGRESS IN ACCORDANCE TO SECTION ILLUMINATION 1008.2 UNDER EMERGENCY POWER, MEANS OF EGRESS ILLUMINATION SHALL COMPLY WITH SECTION 1008.3.
BC 1009.1	ACCESSIBLE MEANS OF EGRESS REQUIRED	[...] WHERE MORE THAN ONE MEANS OF EGRESS ARE REQUIRED [...] EACH ACCESSIBLE EGRESS REQUIRED PORTION OF THE SPACE SHALL BE SERVED NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS.
BY		EXCEPTION: 1. ACCESSIBLE MEANS OF EGRESS ARE NOT REQUIRED TO PROVIDED IN EXISTING BUILDINGS.
TABLE 1017.2	EXIT ACCESS TRAVEL DISTANCE	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 200 FEET
TABLE 1020.1	CORRIDOR FIRE-RESISTANCE RATING	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM 1 (HOUR)
BC 1020.4	DEAD ENDS	WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS WITH MORE THAN 20 FEET IN LENGTH.
BC 1028.1	EXIT DISCHARGE	EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER THE BUILDING.

TOTAL OCCUPANT LOAD AND EXIT CAPACITY

EXIST. BASEMENT FLOOR

		EXIT CAPACITY		TOTAL OCCUPANT LOAD
FIRE AREA 'B'	TOTAL EXIT CAPACITY BASEMENT FLOOR 180	>	48 (OCCS.)	COMPLIES WITH 2020 NYS BC.
FIRE AREA 'C'	TOTAL EXIT CAPACITY FROM BASEMENT 3,280	>	549 (OCCS.)	COMPLIES WITH 2020 NYS BC.

EXIST. FIRST FLOOR

		EXIT CAPACITY		TOTAL OCCUPANT LOAD
FIRE AREA 'A' & 'B'	TOTAL EXIT CAPACITY FROM FIRST FLOOR 2,700	>	1,019 (OCCS.)	COMPLIES WITH 2020 NYS BC.
FIRE AREA 'C'	TOTAL EXIT CAPACITY FROM GROUND FLOOR 2,700	>	750 (OCCS.)	COMPLIES WITH 2020 NYS BC.
FIRE AREA 'D'	TOTAL EXIT CAPACITY FROM GROUND FLOOR 1,080	>	59 (OCCS.)	COMPLIES WITH 2020 NYS BC.

EXIST. SECOND FLOOR

		EXIT CAPACITY		TOTAL OCCUPANT LOAD
FIRE AREA 'A' & 'B'	TOTAL EXIT CAPACITY FROM GROUND FLOOR 1,200	>	1,007 (OCCS.)	COMPLIES WITH 2020 NYS BC.
FIRE AREA 'C'	TOTAL EXIT CAPACITY FROM GROUND FLOOR 2,210	>	734 (OCCS.)	COMPLIES WITH 2020 NYS BC.
FIRE AREA 'D'	TOTAL EXIT CAPACITY FROM GROUND FLOOR 480	>	202 (OCCS.)	COMPLIES WITH 2020 NYS BC.

EXIST. THIRD FLOOR

		EXIT CAPACITY		TOTAL OCCUPANT LOAD
FIRE AREA 'C'	TOTAL EXIT CAPACITY FROM GROUND FLOOR 770	>	310 (OCCS.)	COMPLIES WITH 2020 NYS BC.
FIRE AREA 'D'	TOTAL EXIT CAPACITY FROM GROUND FLOOR 480	>	327 (OCCS.)	COMPLIES WITH 2020 NYS BC.

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ARCHITECT
MEMASI
2 LYON PLACE
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914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

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STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
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ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

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GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

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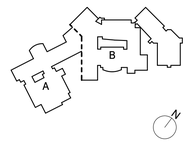
KEY PLAN



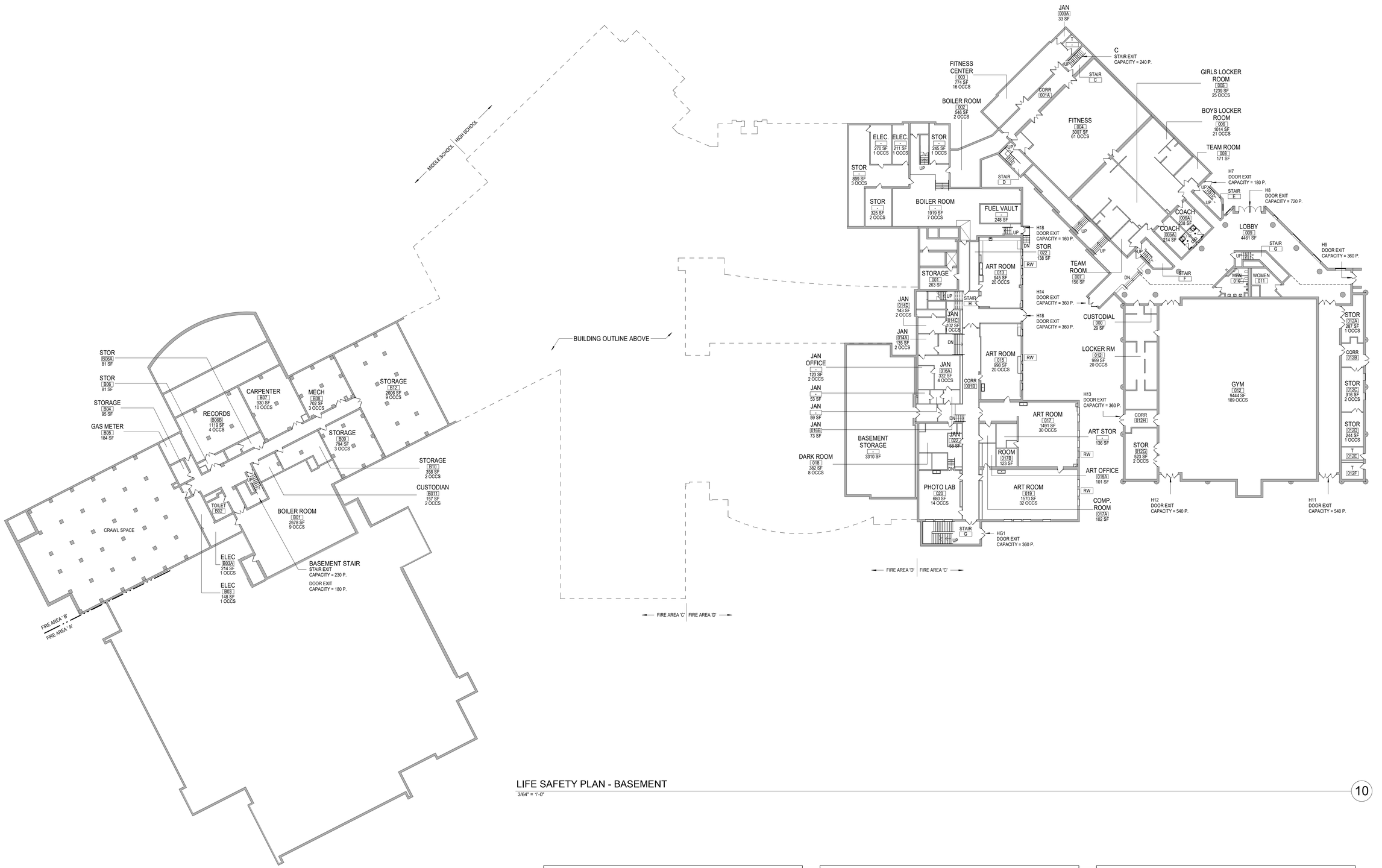
PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

LIFE SAFETY OVERALL PLANS AND NOTES

HS LS001

SHEET NOTES

KEY NOTES



LIFE SAFETY PLAN - BASEMENT

3/64" = 1'-0"

10

LS-OCCUPANT LOAD - BASEMENT FLOOR BUILDING AREA 'B'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
B01	BOILER ROOM	Accessory storage areas, mechanical equipment room	2678 SF	300	9
B03	ELEC	Accessory storage areas, mechanical equipment room	148 SF	300	1
B03A	ELEC	Accessory storage areas, mechanical equipment room	214 SF	300	1
B04	STORAGE	Accessory storage areas, mechanical equipment room	95 SF	300	1
B05	GAS METER	Accessory storage areas, mechanical equipment room	184 SF	300	1
B06	STOR	Accessory storage areas, mechanical equipment room	81 SF	300	1
B06A	STOR	Accessory storage areas, mechanical equipment room	81 SF	300	1
B06B	RECORDS	Accessory storage areas, mechanical equipment room	1119 SF	300	4
B07	CARPENTER	Industrial areas	930 SF	100	10
B08	MECH	Accessory storage areas, mechanical equipment room	702 SF	300	3
B09	STORAGE	Accessory storage areas, mechanical equipment room	794 SF	300	3
B10	STORAGE	Accessory storage areas, mechanical equipment room	358 SF	300	2
B011	CUSTODIAN	Business Areas	157 SF	100	2
B12	STORAGE	Accessory storage areas, mechanical equipment room	2606 SF	300	9
TOTAL OCCUPANCY					48

LS-OCCUPANT LOAD - BASEMENT FLOOR BUILDING AREA 'C'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
-	STOR	Accessory storage areas, mechanical equipment room	245 SF	300	1
-	ELEC.	Accessory storage areas, mechanical equipment room	211 SF	300	1
-	ELEC.	Accessory storage areas, mechanical equipment room	270 SF	300	1
-	STOR	Accessory storage areas, mechanical equipment room	899 SF	300	3
-	STOR	Accessory storage areas, mechanical equipment room	325 SF	300	2
-	JAN OFFICE	Business Areas	123 SF	100	2
-	BOILER ROOM	Accessory storage areas, mechanical equipment room	1919 SF	300	7
-	BASEMENT STORAGE	Accessory storage areas, mechanical equipment room	3310 SF	300	11
002	BOILER ROOM	Accessory storage areas, mechanical equipment room	546 SF	300	2
003	FITNESS CENTER	Exercise rooms	774 SF	50	16
004	FITNESS	Exercise rooms	3007 SF	50	61
005	GIRLS LOCKER ROOM	Locker rooms	1239 SF	50	25
005A	COACH	Business Areas	214 SF	100	2
006	BOYS LOCKER ROOM	Locker rooms	1014 SF	50	21
006A	COACH	Business Areas	208 SF	100	2
007	TEAM ROOM	Locker rooms	156 SF	50	4
008	TEAM ROOM	Locker rooms	171 SF	50	4
012	GYM	Exercise rooms	9444 SF	50	189
012A	STOR	Accessory storage areas, mechanical equipment room	287 SF	300	1

LS-OCCUPANT LOAD - BASEMENT FLOOR BUILDING AREA 'C'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
012C	STOR	Accessory storage areas, mechanical equipment room	316 SF	300	2
012D	STOR	Accessory storage areas, mechanical equipment room	244 SF	300	1
012G	STOR	Accessory storage areas, mechanical equipment room	523 SF	300	2
012I	LOCKER RM	Locker rooms	999 SF	50	20
013	ART ROOM	Educational, Shops and other vocational room areas	945 SF	50	20
014A	JAN	Business Areas	135 SF	100	2
014C	JAN	Business Areas	102 SF	100	1
014D	JAN	Business Areas	143 SF	100	2
015	ART ROOM	Educational, Shops and other vocational room areas	998 SF	50	20
016A	JAN	Business Areas	332 SF	100	4
017	ART ROOM	Educational, Shops and other vocational room areas	1491 SF	50	30
017A	COMP. ROOM	Educational, Shops and other vocational room areas	102 SF	50	2
017B	ROOM	Accessory storage areas, mechanical equipment room	123 SF	300	1
018	DARK ROOM	Educational, Shops and other vocational room areas	382 SF	50	8
019	ART ROOM	Educational, Shops and other vocational room areas	1570 SF	50	32
019A	ART OFFICE	Business Areas	101 SF	100	1
020	PHOTO LAB	Educational, Shops and other vocational room areas	680 SF	50	14
022	STOR	Accessory storage areas, mechanical equipment room	138 SF	300	1
TOTAL OCCUPANCY					518

EASTCHESTER UNION FREE SCHOOL DISTRICT

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
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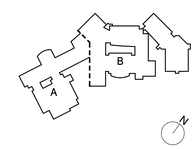


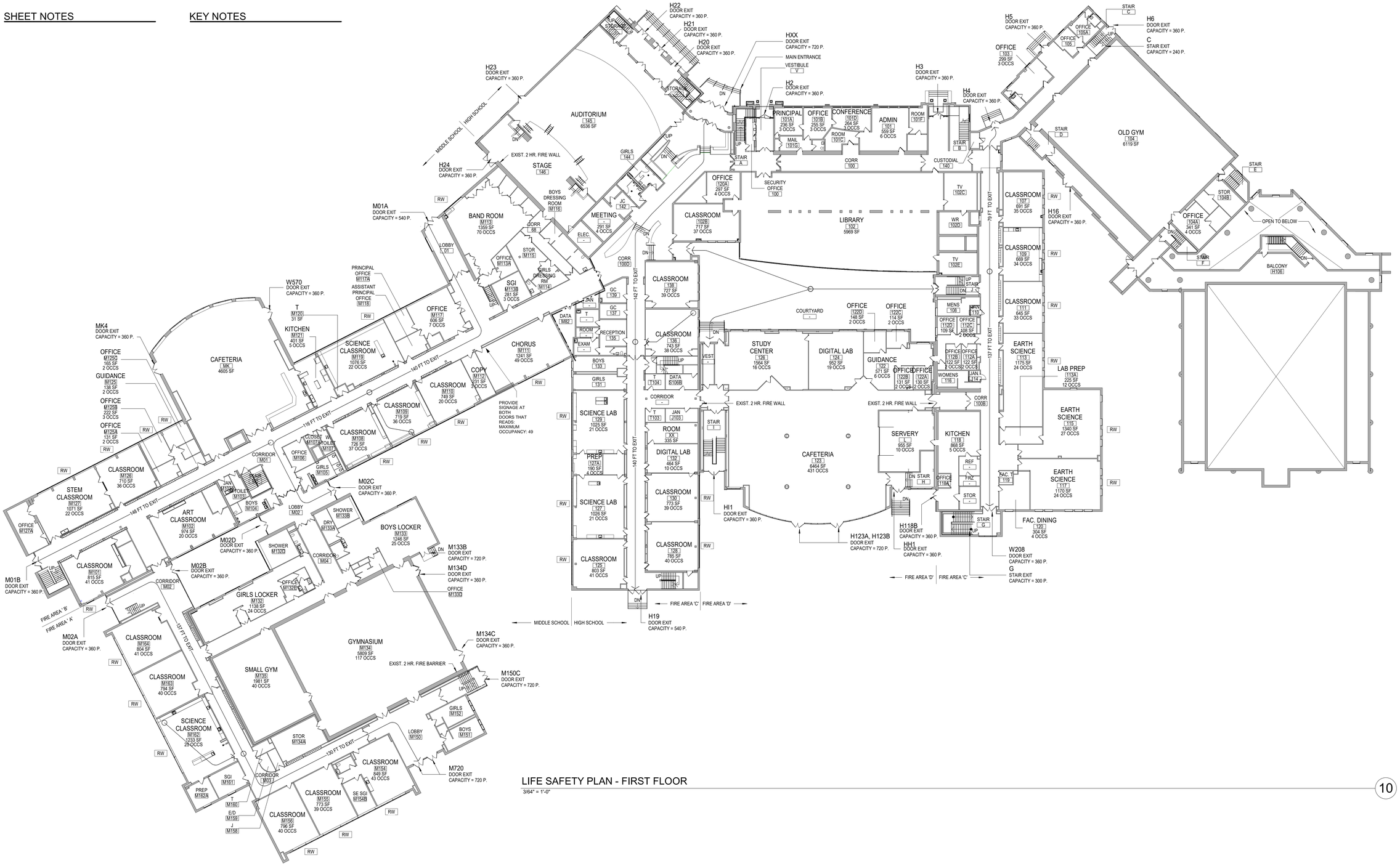
PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

LIFE SAFETY PLAN - BASEMENT

HS LS002

SHEET NOTES

KEY NOTES



LIFE SAFETY PLAN - FIRST FLOOR

3/64" = 1'-0"

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LS-OCCUPANT LOAD - FIRST FLOOR BUILDING AREA 'A'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
M134A	STOR	Accessory storage areas, mechanical equipment room	452 SF	300	2
M150	LOBBY	(none)	1017 SF		
M154	CLASSROOM	Educational, Classroom Area	849 SF	20	43
M154B	SE SGI	Educational, Classroom Area	228 SF	20	12
M155	CLASSROOM	Educational, Classroom Area	773 SF	20	39
M156	CLASSROOM	Educational, Classroom Area	796 SF	20	40
M159	E/D	(none)	62 SF		
M161	SGI	Business Areas	254 SF	100	3
M162	SCIENCE CLASSROOM	Educational, Shops and other vocational room areas	1233 SF	50	25
M162A	PREP	Business Areas	187 SF	100	2
M163	CLASSROOM	Educational, Classroom Area	794 SF	20	40
M164	CLASSROOM	Educational, Classroom Area	804 SF	20	41
TOTAL OCCUPANCY					247

LS-OCCUPANT LOAD - FIRST FLOOR BUILDING AREA 'B'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
M101	CLASSROOM	Educational, Classroom Area	815 SF	20	41
M102	ART CLASSROOM	Educational, Shops and other vocational room areas	974 SF	50	20
M106	OFFICE	Business Areas	201 SF	100	2
M107A	CLOSET	Accessory storage areas, mechanical equipment room	61 SF	300	1
M108	CLASSROOM	Educational, Classroom Area	726 SF	20	37
M109	CLASSROOM	Educational, Classroom Area	719 SF	20	36
M110	CLASSROOM	Educational, Classroom Area	749 SF	20	20
M111	CHORUS	Educational, Shops and other vocational room areas	1241 SF	50	49

LS-OCCUPANT LOAD - FIRST FLOOR BUILDING AREA 'B'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
M112	COPY	Business Areas	231 SF	100	3
M113	BAND ROOM	Educational, Classroom Area	1359 SF	20	70
M113A	OFFICE	Business Areas	149 SF	100	2
M113B	SGI	Business Areas	281 SF	100	3
M114	GIRLS DRESSING RM	Locker rooms	234 SF	50	5
M115	STOR	Accessory storage areas, mechanical equipment room	339 SF	300	2
M116	BOYS DRESSING ROOM	Locker rooms	311 SF	50	7
M117	OFFICE	Business Areas	606 SF	100	7
M117A	PRINCIPAL OFFICE	Business Areas	202 SF	100	2
M118	ASSISTANT PRINCIPAL OFFICE	Business Areas	187 SF	100	2
M119	SCIENCE CLASSROOM	Educational, Shops and other vocational room areas	1076 SF	50	22
M121	KITCHEN	Business Areas	401 SF	100	5
M125	GUIDANCE	Business Areas	138 SF	100	2
M125A	OFFICE	Business Areas	131 SF	100	2
M125B	OFFICE	Business Areas	222 SF	100	3
M125C	OFFICE	Business Areas	165 SF	100	2
M126	CLASSROOM	Educational, Classroom Area	710 SF	20	36
M127	STEM CLASSROOM	Educational, Shops and other vocational room areas	1071 SF	50	22
M127A	OFFICE	Educational, Shops and other vocational room areas	342 SF	50	7
M132	GIRLS LOCKER	Exercise rooms	1138 SF	50	24
M132E	OFFICE	Business Areas	124 SF	100	3
M133	BOYS LOCKER	Exercise rooms	1246 SF	50	25
M133D	OFFICE	Business Areas	140 SF	100	2
M134	GYMNASIUM	Exercise rooms	5809 SF	50	117
M135	SMALL GYM	Exercise rooms	1981 SF	50	40
TOTAL OCCUPANCY					621

LS-OCCUPANT LOAD - FIRST FLOOR BUILDING AREA 'C'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
-	EXAM	Business Areas	131 SF	100	2
-	ROOM	(none)	67 SF		
-	MEETING	Business Areas	291 SF	100	4
-	REF	(none)	124 SF		
-	STOR	Accessory storage areas, mechanical equipment room	146 SF	300	1
100B	CORR	(none)	2523 SF		
100D	CORR	(none)	3003 SF		
101	ADMIN	Business Areas	559 SF	100	6
101A	PRINCIPAL	Business Areas	236 SF	100	3
101B	OFFICE	Business Areas	255 SF	100	3
101C	ROOM	(none)	173 SF		
101D	CONFERENCE	Business Areas	264 SF	100	3
101F	ROOM	Business Areas	148 SF	100	
101G	MAIL	(none)	134 SF		
102B	CLASSROOM	Educational, Classroom Area	717 SF	20	37
102C	TV	(none)	389 SF		
102D	WR	(none)	229 SF		
102E	TV	(none)	261 SF		
103	OFFICE	Business Areas	299 SF	100	3
104A	OFFICE	Business Areas	341 SF	100	4
104B	STOR	Accessory storage areas, mechanical equipment room	237 SF	300	1
105	OFFICE	Business Areas	143 SF	100	2
105A	OFFICE	Business Areas	145 SF	100	2
107	CLASSROOM	Educational, Classroom Area	691 SF	20	35
109	CLASSROOM	Educational, Classroom Area	669 SF	20	34
110	JAN	(none)	28 SF		
111	CLASSROOM	Educational, Classroom Area	645 SF	20	33
112A	OFFICE	Business Areas	122 SF	100	2
112B	OFFICE	Business Areas	122 SF	100	2

LS-OCCUPANT LOAD - FIRST FLOOR BUILDING AREA 'C'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
112C	OFFICE	Business Areas	108 SF	100	2
113	EARTH SCIENCE	Educational, Shops and other vocational room areas	1175 SF	50	24
113A	LAB PREP	Educational, Classroom Area	225 SF	20	12
114	JAN	(none)	35 SF		
115	EARTH SCIENCE	Educational, Shops and other vocational room areas	1340 SF	50	27
117	EARTH SCIENCE	Educational, Shops and other vocational room areas	1170 SF	50	24
118	KITCHEN	Kitchen commercial	868 SF	200	5
118A	OFFICE	Business Areas	52 SF	100	1
120	FAC. DINING	Business Areas	304 SF	100	4
120A	OFFICE	Business Areas	297 SF	100	4
125	CLASSROOM	Educational, Classroom Area	803 SF	20	41
127	SCIENCE LAB	Educational, Shops and other vocational room areas	1026 SF	50	21
127A	PREP	Business Areas	190 SF	100	4
128	CLASSROOM	Educational, Classroom Area	785 SF	20	40
129	SCIENCE LAB	Educational, Shops and other vocational room areas	1025 SF	50	21
130	CLASSROOM	Educational, Classroom Area	773 SF	20	39
132	DIGITAL LAB	Educational, Shops and other vocational room areas	464 SF	50	10
135	RECEPTION	Business Areas	257 SF	100	3
136	CLASSROOM	Educational, Classroom Area	743 SF	20	38
137	GC	(none)	124 SF		
138	CLASSROOM	Educational, Classroom Area	727 SF	20	39
139	GC	(none)	164 SF		
142	JC	(none)	110 SF		
H106	BALCONY	(none)	1420 SF		
J103	JAN	Business Areas	139 SF	100	
S106B	DATA	Accessory storage areas, mechanical equipment room	157 SF	300	1
V	VESTIBULE	(none)	168 SF		
V-1	COURTYARD VESTIBULE	(none)	91 SF		
XX	ROOM	(none)	335 SF		
TOTAL OCCUPANCY					537

LS-OCCUPANT LOAD - FIRST FLOOR BUILDING AREA 'D'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
122	GUIDANCE	Business Areas	571 SF	100	6
122A	OFFICE	Business Areas	130 SF	100	2
122B	OFFICE	Business Areas	131 SF	100	2
122C	OFFICE	Business Areas	114 SF	100	2
122D	OFFICE	Business Areas	148 SF	100	2
123	CAFETERIA	Assembly, Unconcentrated (tables and chairs)	6464 SF	15	431
124	DIGITAL LAB	Educational, Shops and other vocational room areas	952 SF	50	19
126	STUDY CENTER	Business Areas	1564 SF	100	16
L	SERVERY	Business Areas	955 SF	100	10
TOTAL OCCUPANCY					490

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MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

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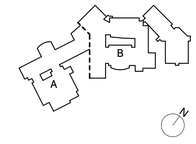

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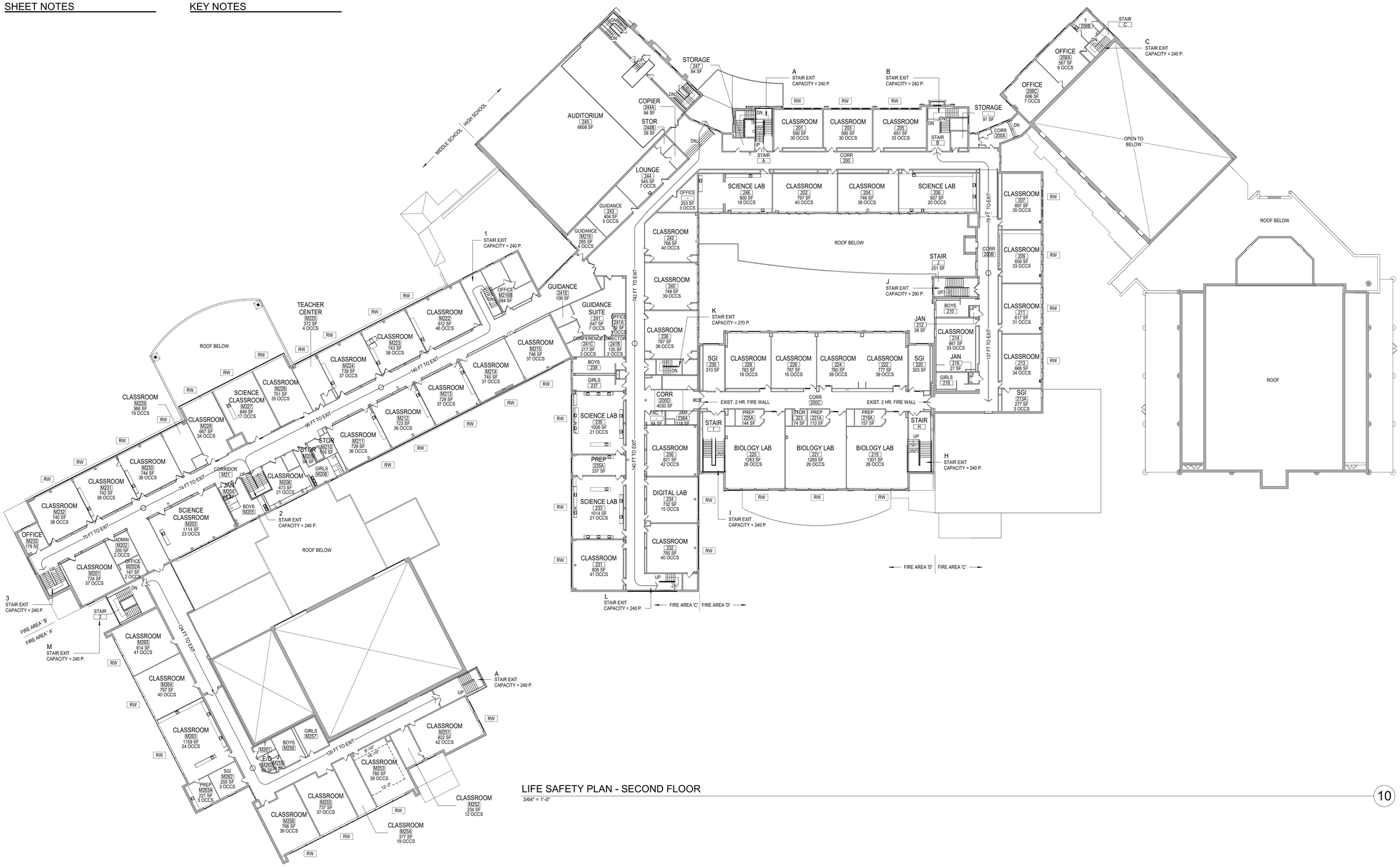
LIFE SAFETY PLAN - FIRST FLOOR

HS LS003

SHEET NOTES

KEY NOTES



LIFE SAFETY PLAN - SECOND FLOOR

3/64" = 1'-0"

10

LS-OCCUPANT LOAD - SECOND FLOOR AREA ' A'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
M251	CLASSROOM	Educational, Classroom Area	822 SF	20	42
M252	CLASSROOM	Educational, Classroom Area	234 SF	20	12
M253	CLASSROOM	Educational, Classroom Area	780 SF	20	39
M254	CLASSROOM	Educational, Classroom Area	377 SF	20	19
M255	CLASSROOM	Educational, Classroom Area	737 SF	20	37
M256	CLASSROOM	Educational, Classroom Area	766 SF	20	39
M262	SGI	Business Areas	255 SF	100	3
M263	CLASSROOM	Educational, Shops and other vocational room areas	1159 SF	50	24
M263A	PREP	Business Areas	221 SF	100	3
M264	CLASSROOM	Educational, Classroom Area	797 SF	20	40
M265	CLASSROOM	Educational, Classroom Area	814 SF	20	41
TOTAL OCCUPANCY					299

LS-OCCUPANT LOAD - SECOND FLOOR BUILDING AREA 'B'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
M201	CLASSROOM	Educational, Classroom Area	724 SF	20	37
M202	ADMIN	Business Areas	200 SF	100	2
M202A	OFFICE	Business Areas	147 SF	100	2
M203	SCIENCE CLASSROOM	Educational, Shops and other vocational room areas	1114 SF	50	23
M206	CLASSROOM	Educational, Classroom Area	473 SF	20	21
M210	STOR	Accessory storage areas, mechanical equipment room	116 SF	300	1
M211	CLASSROOM	Educational, Classroom Area	729 SF	20	36
M212	CLASSROOM	Educational, Classroom Area	723 SF	20	36
M213	CLASSROOM	Educational, Classroom Area	729 SF	20	37
M214	CLASSROOM	Educational, Classroom Area	745 SF	20	37
M215	CLASSROOM	Educational, Classroom Area	746 SF	20	37
M222	CLASSROOM	Educational, Classroom Area	912 SF	20	46
M223	CLASSROOM	Educational, Classroom Area	743 SF	20	38
M224	CLASSROOM	Educational, Classroom Area	739 SF	20	37
M225	TEACHER CENTER	Business Areas	372 SF	100	4
M226	CLASSROOM	Educational, Classroom Area	701 SF	20	35
M227	SCIENCE CLASSROOM	Educational, Shops and other vocational room areas	849 SF	50	17
M228	CLASSROOM	Educational, Classroom Area	667 SF	20	34
M229	CLASSROOM	Educational, Classroom Area	366 SF	20	19
M230	CLASSROOM	Educational, Classroom Area	744 SF	20	38
M231	CLASSROOM	Educational, Classroom Area	742 SF	20	38
M232	CLASSROOM	Educational, Classroom Area	740 SF	20	38
M233	OFFICE	Business Areas	179 SF	100	2
TOTAL OCCUPANCY					615

LS-OCCUPANT LOAD - SECOND FLOOR BUILDING AREA 'C'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
-	PREP	Educational, Shops and other vocational room areas	Not Placed	50	4
-	OFFICE	Business Areas	253 SF	100	3
-	STORAGE	Accessory storage areas, mechanical equipment room	91 SF	300	1
201	CLASSROOM	Educational, Classroom Area	590 SF	20	30
202	CLASSROOM	Educational, Classroom Area	797 SF	20	40
203	CLASSROOM	Educational, Classroom Area	595 SF	20	30
204	CLASSROOM	Educational, Classroom Area	746 SF	20	38
205	CLASSROOM	Educational, Classroom Area	651 SF	20	33
206	SCIENCE LAB	Educational, Shops and other vocational room areas	957 SF	50	20
207	CLASSROOM	Educational, Classroom Area	697 SF	20	35
208A	OFFICE	Business Areas	567 SF	100	6
208C	OFFICE	Business Areas	606 SF	100	7
209	CLASSROOM	Educational, Classroom Area	659 SF	20	33
211	CLASSROOM	Educational, Classroom Area	617 SF	20	31
213	CLASSROOM	Educational, Classroom Area	668 SF	20	34
213A	SGI	Business Areas	277 SF	100	3
214	CLASSROOM	Educational, Classroom Area	661 SF	20	33
231	CLASSROOM	Educational, Classroom Area	808 SF	20	41
232	CLASSROOM	Educational, Classroom Area	785 SF	20	40
233	SCIENCE LAB	Educational, Shops and other vocational room areas	1014 SF	50	21
234	DIGITAL LAB	Educational, Shops and other vocational room areas	732 SF	50	15
235	SCIENCE LAB	Educational, Shops and other vocational room areas	1006 SF	50	21
235A	PREP	Business Areas	337 SF	100	2
236	CLASSROOM	Educational, Classroom Area	821 SF	20	42

LS-OCCUPANT LOAD - SECOND FLOOR BUILDING AREA 'C'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
238	CLASSROOM	Educational, Classroom Area	767 SF	20	39
238A	JAN	Accessory storage areas, mechanical equipment room	118 SF	300	1
240	CLASSROOM	Educational, Classroom Area	749 SF	20	39
241	GUIDANCE SUITE	Business Areas	647 SF	100	7
241A	OFFICE	Business Areas	92 SF	100	1
241B	DIRECTOR	Business Areas	135 SF	100	2
241C	CONFERENCE	Business Areas	217 SF	100	3
241D	GUIDANCE	Business Areas	104 SF	100	1
241E	GUIDANCE	Business Areas	109 SF	100	1
242	CLASSROOM	Educational, Classroom Area	768 SF	20	40
243	GUIDANCE	Business Areas	404 SF	100	5
244	LOUNGE	Business Areas	545 SF	100	7
244A	COPIER	Business Areas	94 SF	100	1
244B	STOR	Accessory storage areas, mechanical equipment room	58 SF	300	1
246	SCIENCE LAB	Educational, Shops and other vocational room areas	900 SF	50	18
247	STORAGE	Accessory storage areas, mechanical equipment room	84 SF	300	1
M216	GUIDANCE	Business Areas	265 SF	100	4
TOTAL OCCUPANCY					734

LS-OCCUPANT LOAD - SECOND FLOOR BUILDING AREA 'D'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
219	BIOLOGY LAB	Educational, Shops and other vocational room areas	1301 SF	50	26
219A	PREP	Business Areas	157 SF	100	2
220	SGI	Business Areas	303 SF	100	3
221	BIOLOGY LAB	Educational, Shops and other vocational room areas	1269 SF	50	26
221A	PREP	Business Areas	110 SF	100	2
222	CLASSROOM	Educational, Classroom Area	777 SF	20	39
223	STOR	Accessory storage areas, mechanical equipment room	74 SF	300	1
224	CLASSROOM	Educational, Classroom Area	760 SF	20	39
225	BIOLOGY LAB	Educational, Shops and other vocational room areas	1263 SF	50	26
225A	PREP	Business Areas	144 SF	100	2
226	CLASSROOM	Educational, Shops and other vocational room areas	787 SF	50	16
228	CLASSROOM	Educational, Shops and other vocational room areas	783 SF	50	16
230	SGI	Business Areas	310 SF	100	4
TOTAL OCCUPANCY					202

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
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1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

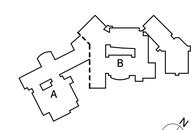
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

BID DOCUMENTS	11/06/2024
ISSUE	DATE

KEY PLAN



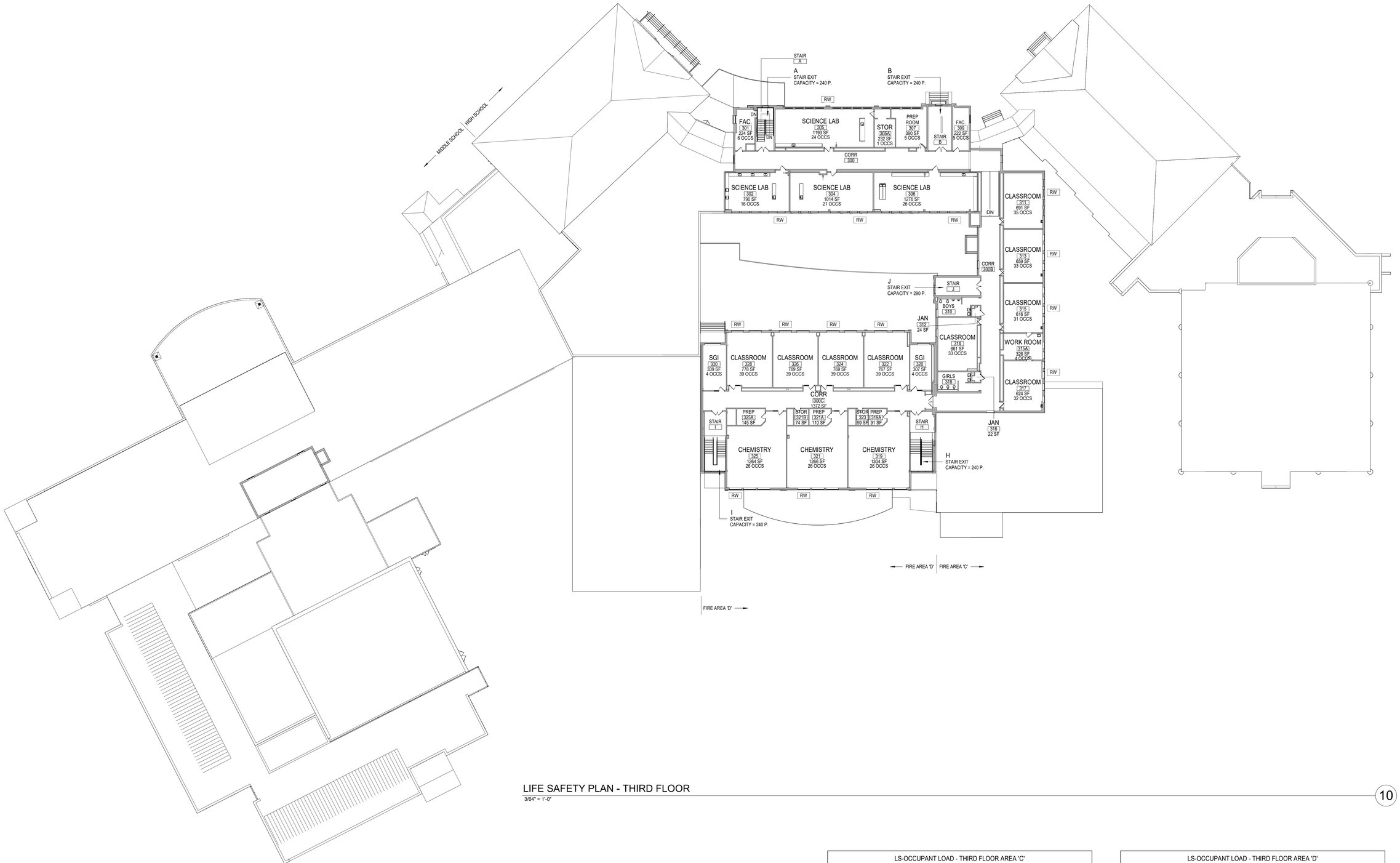
PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

LIFE SAFETY PLAN - SECOND FLOOR

HS LS004

SHEET NOTES

KEY NOTES



LIFE SAFETY PLAN - THIRD FLOOR

3/64" = 1'-0"

10

LS-OCCUPANT LOAD - THIRD FLOOR AREA 'C'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
301	FAC.	Educational, Shops and other vocational room areas	224 SF	50	6
302	SCIENCE LAB	Educational, Shops and other vocational room areas	790 SF	50	16
304	SCIENCE LAB	Educational, Shops and other vocational room areas	1014 SF	50	21
305	SCIENCE LAB	Educational, Shops and other vocational room areas	1193 SF	50	24
305A	STOR	Accessory storage areas, mechanical equipment room	232 SF	300	1
306	SCIENCE LAB	Educational, Shops and other vocational room areas	1276 SF	50	26
307	PREP ROOM	Business Areas	390 SF	100	5
309	FAC.	Educational, Shops and other vocational room areas	222 SF	50	5
311	CLASSROOM	Educational, Classroom Area	691 SF	20	35
313	CLASSROOM	Educational, Classroom Area	659 SF	20	33
314	CLASSROOM	Educational, Classroom Area	661 SF	20	33
315	CLASSROOM	Educational, Classroom Area	616 SF	20	31
315A	WORK ROOM	Business Areas	326 SF	100	4
317	CLASSROOM	Educational, Classroom Area	624 SF	20	32
TOTAL OCCUPANCY					272

LS-OCCUPANT LOAD - THIRD FLOOR AREA 'D'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
319	CHEMISTRY	Educational, Shops and other vocational room areas	1304 SF	50	26
319A	PREP	Business Areas	91 SF	100	1
320	SGI	Business Areas	307 SF	100	4
321	CHEMISTRY	Educational, Shops and other vocational room areas	1266 SF	50	26
321A	PREP	Business Areas	110 SF	100	2
321B	STOR	Accessory storage areas, mechanical equipment room	74 SF	300	1
322	CLASSROOM	Educational, Classroom Area	767 SF	20	39
323	STOR	Accessory storage areas, mechanical equipment room	59 SF	300	1
324	CLASSROOM	Educational, Classroom Area	769 SF	20	39
325	CHEMISTRY	Educational, Shops and other vocational room areas	1264 SF	50	26
325A	PREP	Business Areas	145 SF	100	2
326	CLASSROOM	Educational, Classroom Area	769 SF	20	39
328	CLASSROOM	Educational, Classroom Area	778 SF	20	39
330	SGI	Business Areas	339 SF	100	4
TOTAL OCCUPANCY					249

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
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30 OAK STREET, SUITE 400
STAMFORD, CT 06905

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WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

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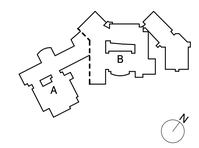
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO. 66-03-01-03-0-003-033

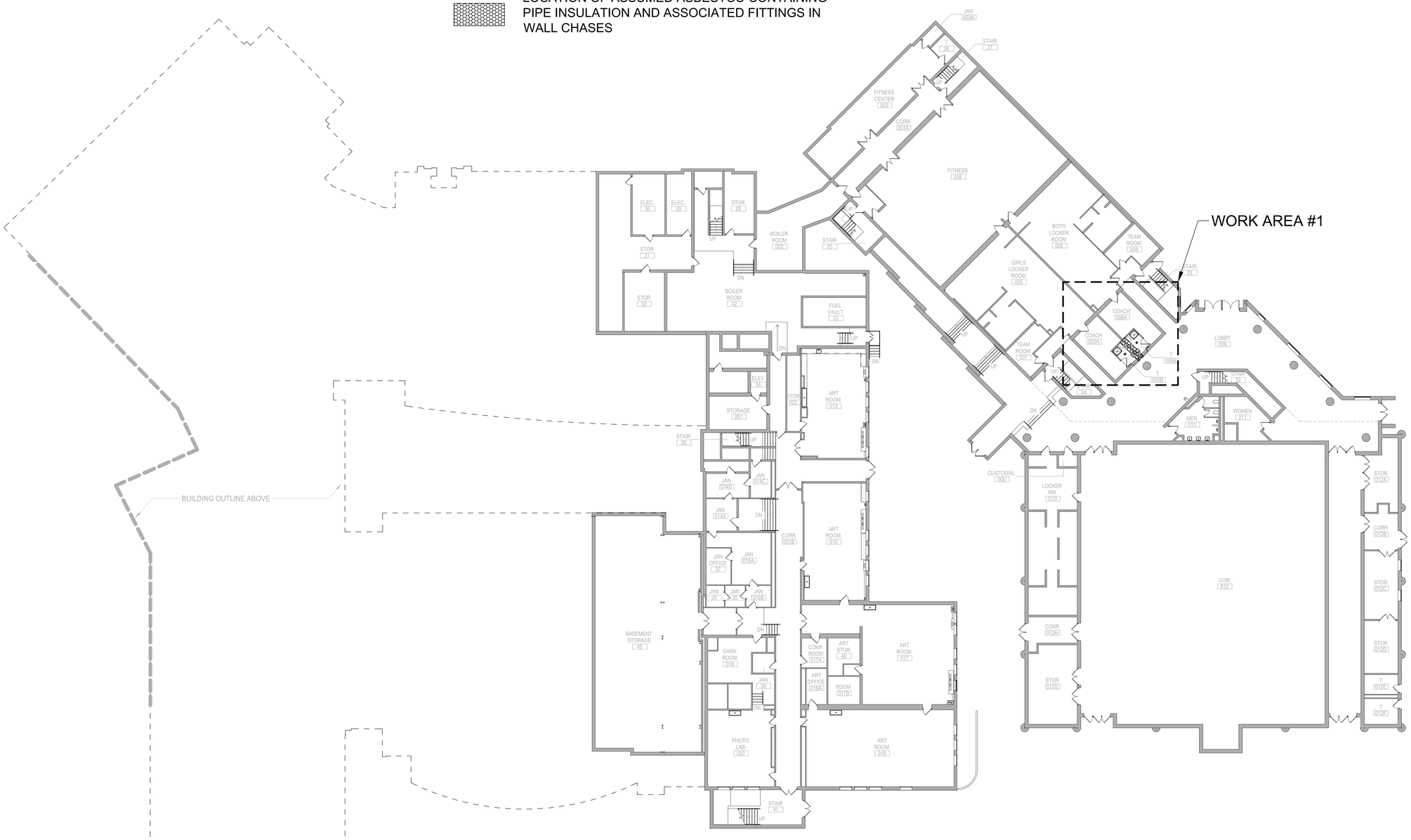
MEMASI PROJECT NO. 102-2301

LIFE SAFETY PLAN - THIRD FLOOR

HS LS005

LEGEND

LOCATION OF ASSUMED ASBESTOS-CONTAINING PIPE INSULATION AND ASSOCIATED FITTINGS IN WALL CHASES



Work Area #	Location	Asbestos-Containing Material	Approximate Quantity	Removal Procedure
1	BASEMENT BOYS & GIRLS COACH'S BATHROOM (WALL PIPE CHASE)	PIPE (AIRCELL) INSULATION & ASSOCIATED FITTINGS	50 LF	NYS DOL 12 NYCRR PART 56 §7.11 TENT REMOVAL PROCEDURE

BASEMENT FLOOR PLAN
1/16" = 1'-0"

1

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11749

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTAN
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

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WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
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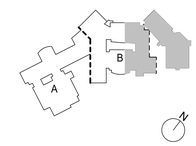
License Expire June 30, 2027

EXPIRATION DATE: XX/XX/202X

ISSUE	DATE
xxxxxxxxxxxx	xx/xx/xxxx

KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

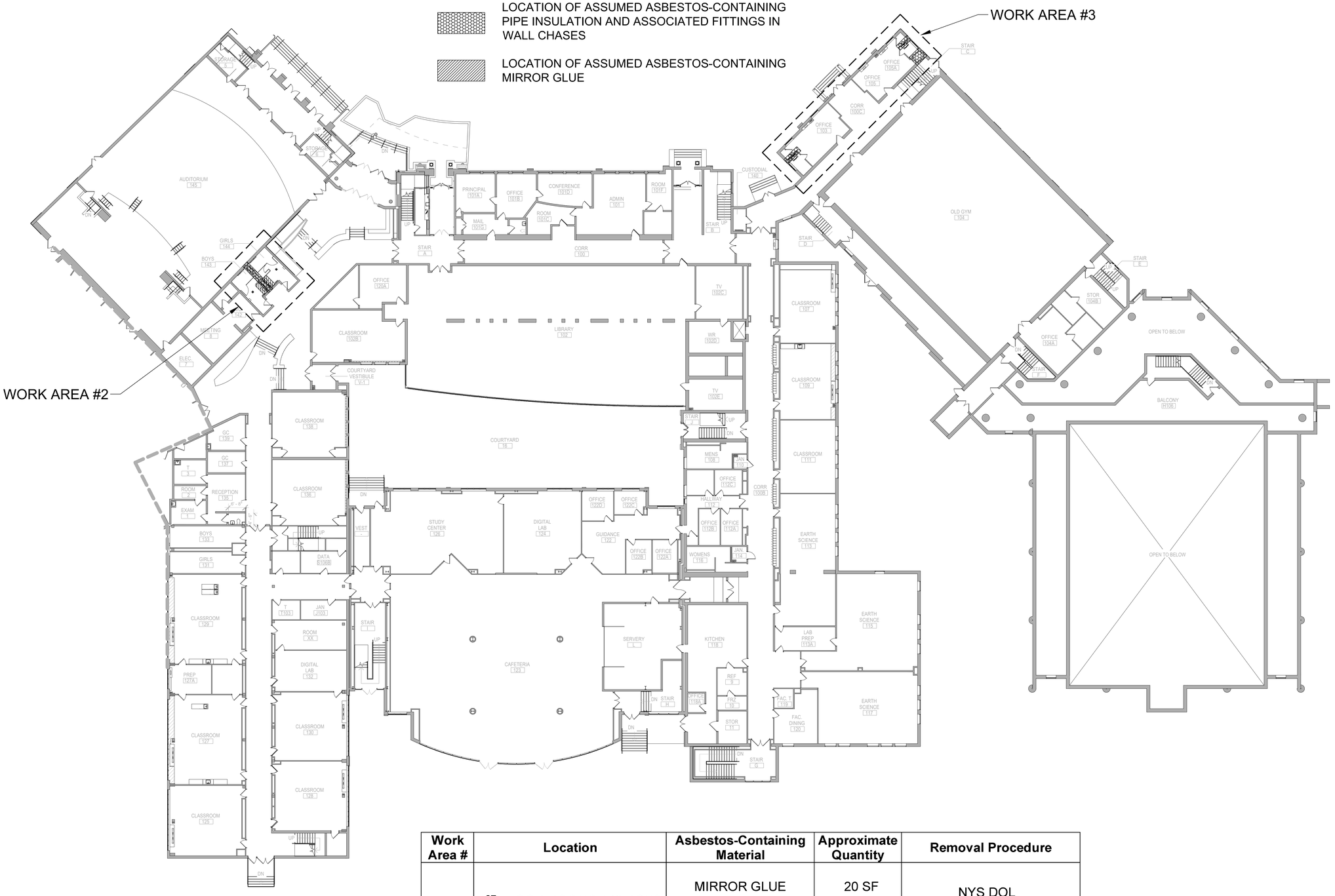
ASBESTOS REMOVAL PLAN - BASEMENT FLOOR PLAN

H-001.00

LEGEND

LOCATION OF ASSUMED ASBESTOS-CONTAINING PIPE INSULATION AND ASSOCIATED FITTINGS IN WALL CHASES

LOCATION OF ASSUMED ASBESTOS-CONTAINING MIRROR GLUE



Work Area #	Location	Asbestos-Containing Material	Approximate Quantity	Removal Procedure
2	1ST FLOOR ROOMS 143 BOYS BATHROOM & 144 GIRLS BATHROOM	MIRROR GLUE	20 SF	NYS DOL 12 NYCRR PART 56 §7.11 TENT REMOVAL PROCEDURE
		PIPE (AIRCELL) INSULATION & ASSOCIATED FITTINGS	50 LF	
3	1ST FLOOR OFFICE 103 & OFFICE 105 BATHROOMS (risers, incl. wall chases)	PIPE (AIRCELL) INSULATION & ASSOCIATED FITTINGS	120 LF	NYS DOL 12 NYCRR PART 56 §7.11 TENT REMOVAL PROCEDURE

1ST FLOOR PLAN
1/16" = 1'-0"

2

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11749

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

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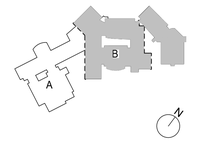
KEY PLAN



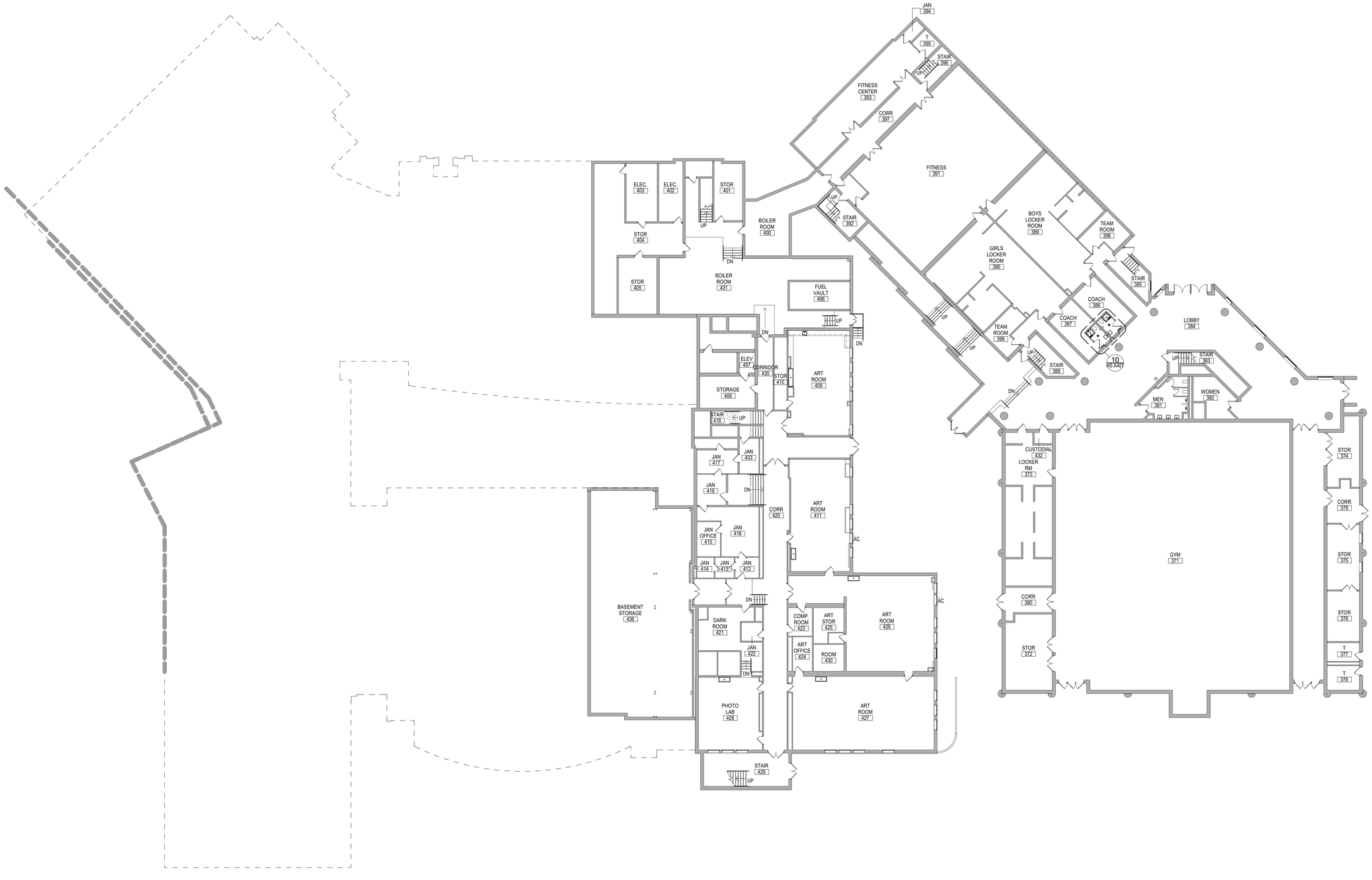
PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

ASBESTOS REMOVAL PLAN - 1ST FLOOR PLAN

H-002.00

SHEET NOTES

KEY NOTES



DEMOLITION PLAN - BASEMENT

1/16" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT

REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT

STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

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WSP
ONE PENN PLAZA
2ND FLOOR
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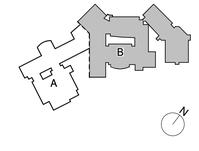
KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

DEMOLITION PLAN - BASEMENT

HS AD100

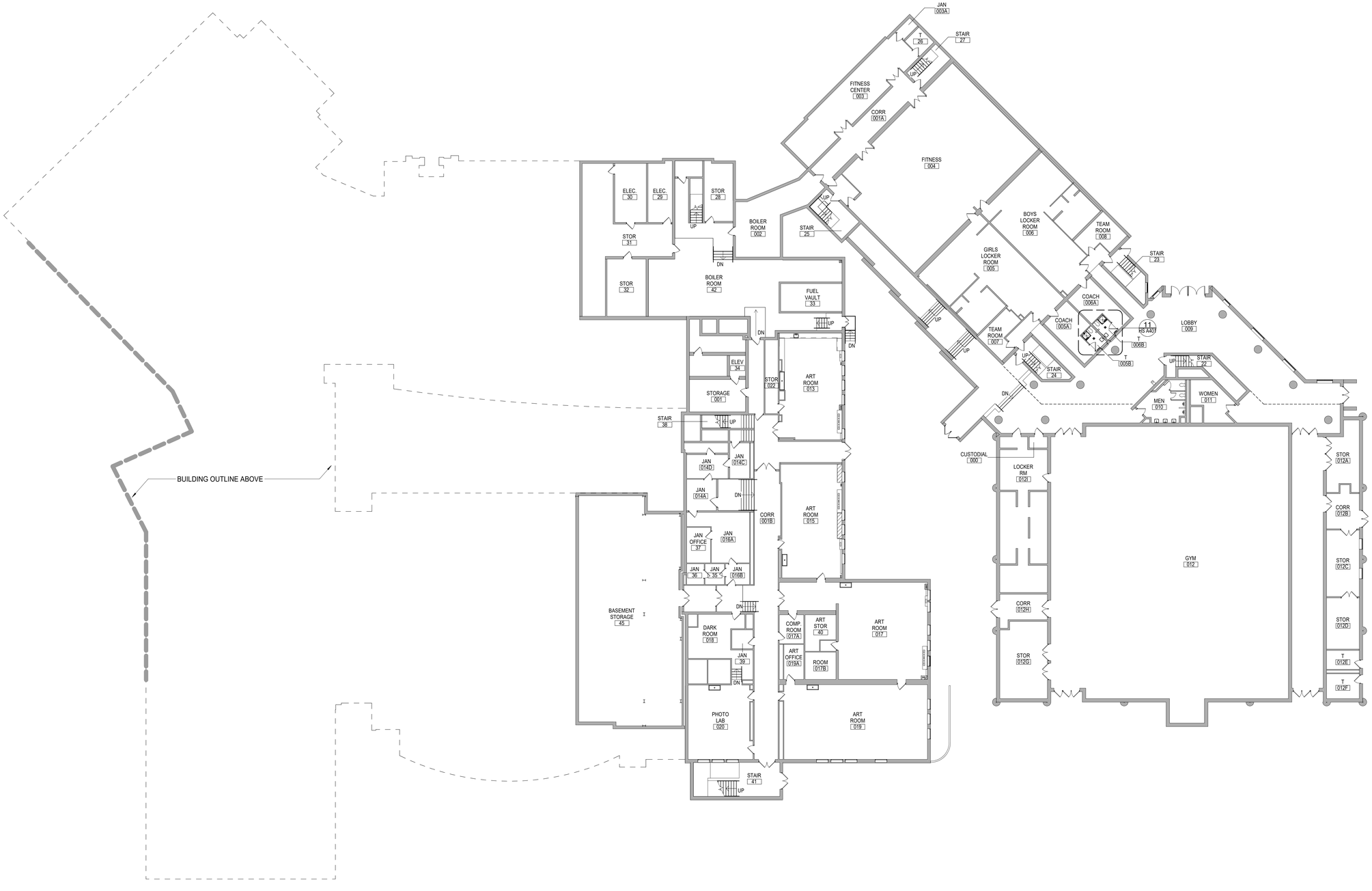
SHEET NOTES

A. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING FOR DETAILED SCOPE OF WORK. MEP EQUIPMENT /FIXTURES SHOWN IN ARCHITECTURAL DRAWING ARE FOR REFERENCE ONLY.

KEY NOTES

MILLWORK LEGEND

CASEWORK



OVERALL PLAN - BASEMENT

1/16" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT

REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT

STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT

WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

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ISSUE	DATE
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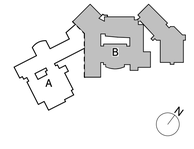
KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

BASEMENT PLAN

HS A100

SHEET NOTES

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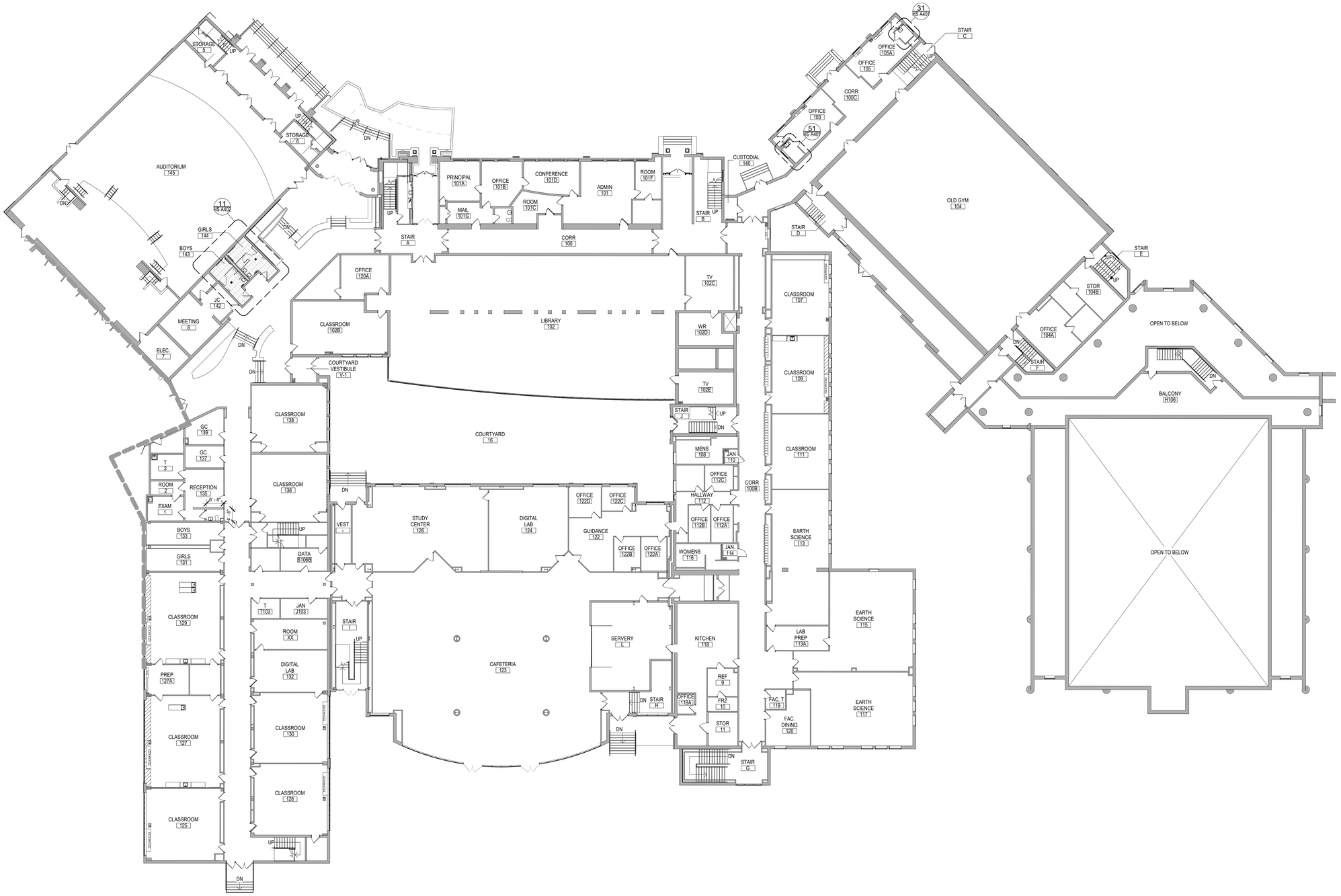
CASEWORK



OVERALL PLAN - FIRST FLOOR

1/16" = 1'-0"

10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

MIDDLE SCHOOL /
HIGH SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT

BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT

REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT

STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT

WSP
ONE PENN PLAZA
2ND FLOOR
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LIGHTING CONSULTANT

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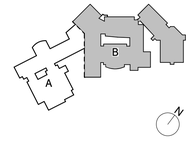
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

FIRST FLOOR PLAN

HS A101

SHEET NOTES

KEY NOTES

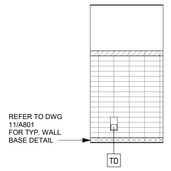
3	NEW TILE TO BE INSTALLED OVER EXISTING TERRAZO FLOORING.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SEE ELECTRICAL DRAWING FOR MORE INFORMATION
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
MR1	18"x30" CHANNEL FRAMED GLASS MIRROR
PD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
SD	SOAP DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
SH	SHOWER SYSTEM TRIM
SP	SHOWER PAN
TD	TOILET TISSUE DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD2	REMOVE ALL LAYERS OF WALL TILE PARGE WALL WITH TYPE N-MORTAR IN AREAS WHERE TERRACOTTA TILE WAS DAMAGED DURING DEMOLITION.
TD3	SCRAPE AND PREP WALLS, TRIM FOR NEW PAINTED FINISH.
TD4	REFER TO PLUMBING AND ELECTRICAL DRAWING FOR NEW FIXTURES.
TD5	GC TO REMOVE AND REPLACE EXISTING CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWING FOR EQUIPMENT REMOVALS.
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS
WR	WASTE RECEPTACLE

HATCH LEGEND

CWT-1

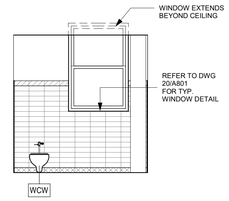
CWT-2

CWT-3

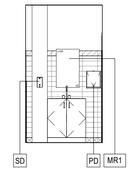


WEST ELEVATION - O. TOILET 103 — 63
1/4" = 1'-0"

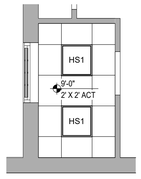
SOUTH ELEVATION - O. TOILET 103 — 62
1/4" = 1'-0"



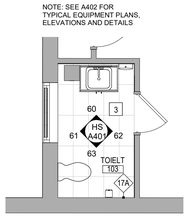
EAST ELEVATION - O. TOILET 103 — 61
1/4" = 1'-0"



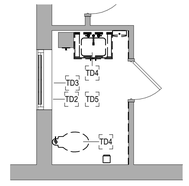
NORTH ELEVATION - O. TOILET 103 — 60
1/4" = 1'-0"



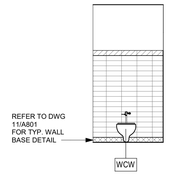
RCP - O. TOILET 103 — 52
1/4" = 1'-0"



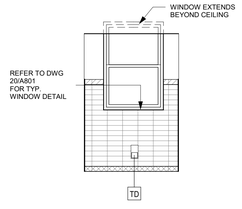
FIRST FLOOR PLAN - O. TOILET 103 — 51
1/4" = 1'-0"



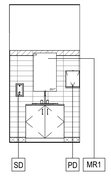
DEMO PLAN - FIRST FL - O. TOILET 103 — 50
1/4" = 1'-0"



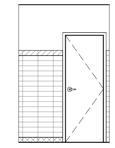
WEST ELEVATION - O. TOILET 105 — 43
1/4" = 1'-0"



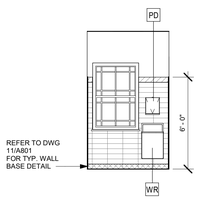
SOUTH ELEVATION - O. TOILET 105 — 42
1/4" = 1'-0"



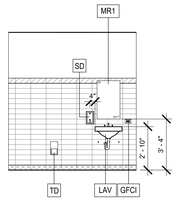
EAST ELEVATION - O. TOILET 105 — 41
1/4" = 1'-0"



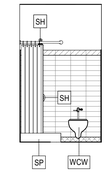
NORTH ELEVATION - O. TOILET 105 — 40
1/4" = 1'-0"



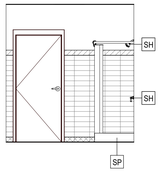
WEST ELEVATION - T - 005A/B — 23
1/4" = 1'-0"



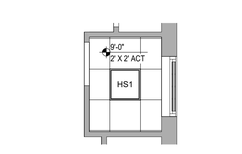
SOUTH ELEVATION - T - 005A/B — 22
1/4" = 1'-0"



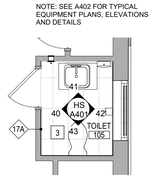
EAST ELEVATION - T - 005A/B — 21
1/4" = 1'-0"



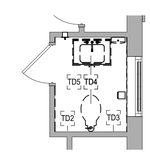
NORTH ELEVATION - T - 005A/B — 20
1/4" = 1'-0"



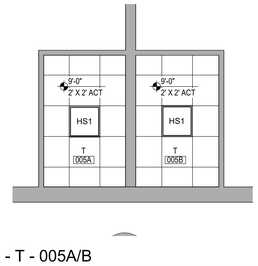
RCP - O. TOILET 105 — 32
1/4" = 1'-0"



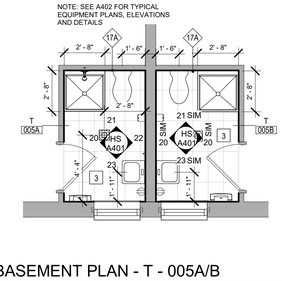
FIRST FLOOR PLAN - O. TOILET 105 — 31
1/4" = 1'-0"



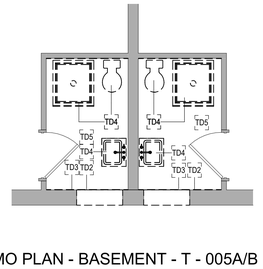
DEMO PLAN - FIRST FL - O. TOILET 105 — 30
1/4" = 1'-0"



RCP - T - 005A/B — 12
1/4" = 1'-0"



BASEMENT PLAN - T - 005A/B — 11
1/4" = 1'-0"



DEMO PLAN - BASEMENT - T - 005A/B — 10
1/4" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

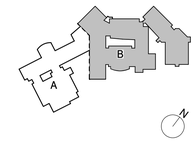
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

ENLARGED TOILET PLANS

HS A401

SHEET NOTES

KEY NOTES

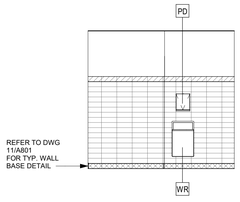
3	NEW TILE TO BE INSTALLED OVER EXISTING TERRAZO FLOORING.
EHD	ELECTRIC HAND DRYER SURFACE MOUNTING KIT
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SEE ELECTRICAL DRAWING FOR MORE INFORMATION
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
MR1	18"x30" CHANNEL FRAMED GLASS MIRROR
PD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
SD	SOAP DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD	TOILET TISSUE DISPENSER (SUPPLIED BY OWNER AND INSTALLED BY GC)
TD1	DEMOLISH TOILET PARTITION.
TD2	REMOVE ALL LAYERS OF WALL TILE,PARGE WALL WITH TYPE N-MORTAR IN AREAS WHERE TERRACOTTA TILE WAS DAMAGED DURING DEMOLITION.
TD3	SCRAPE AND PREP WALLS, TRIM FOR NEW PAINTED FINISH.
TD4	REFER TO PLUMBING AND ELECTRICAL DRAWING FOR NEW FIXTURES.
TD5	GC TO REMOVE AND REPLACE EXISTING CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWING FOR EQUIPMENT REMOVALS.
TP	TOILET PARTITION
UP	URINAL PARTITION
UR	URINAL, REFER TO PLUMBING DRAWINGS
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS
WR	WASTE RECEPTACLE

HATCH LEGEND

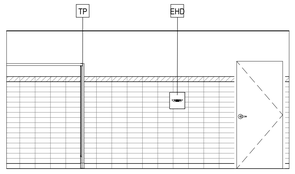
CWT-1

CWT-2

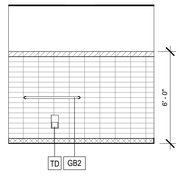
CWT-3



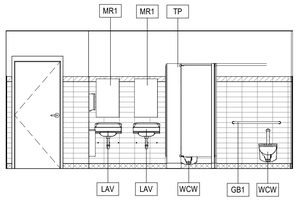
WEST ELEVATION - G. TOILET 144
1/4" = 1'-0" 33



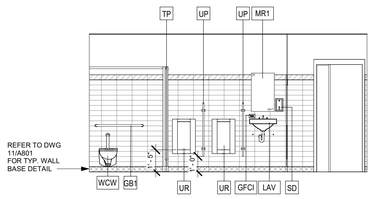
SOUTH ELEVATION - G. TOILET 144
1/4" = 1'-0" 32



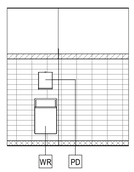
EAST ELEVATION - G. TOILET 144
1/4" = 1'-0" 31



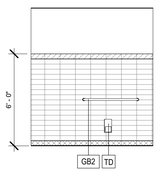
NORTH ELEVATION - G. TOILET 144
1/4" = 1'-0" 30



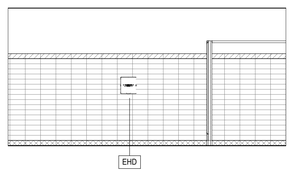
WEST ELEVATION - B. TOILET 143
1/4" = 1'-0" 23



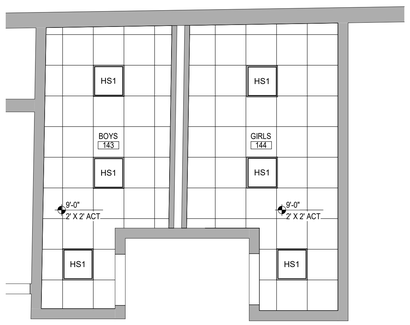
SOUTH ELEVATION - B. TOILET 143
1/4" = 1'-0" 22



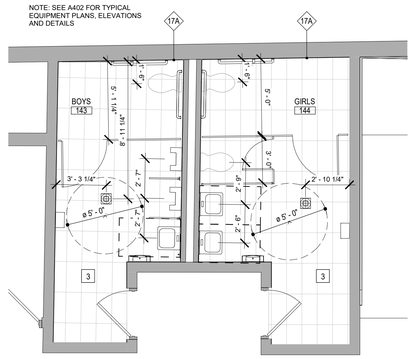
EAST ELEVATION - B. TOILET 143
1/4" = 1'-0" 21



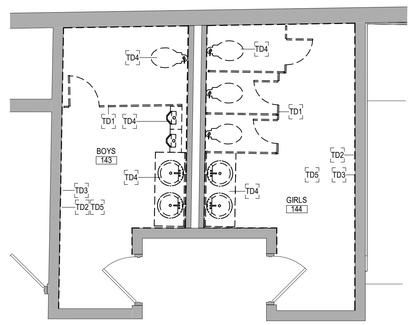
NORTH ELEVATION - B. TOILET 143
1/4" = 1'-0" 20



RCP - B. - G. TOILET 143-144
1/4" = 1'-0" 12



FIRST FLOOR PLAN - B. - G. TOILET
1/4" = 1'-0" 11



DEMO PLAN - FIRST FL - B. - G. TOILET
1/4" = 1'-0" 10

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT

BOHLER ENGINEERING
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ISSUE	DATE
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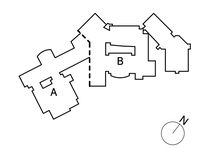
KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

ENLARGED TOILET PLANS

HS A402

SHEET NOTES

KEY NOTES

FINISH NOTE

MANUFACTURER'S NAMES AND FINISH INFORMATION ARE INDICATED AS REFERENCE TO THE ARCHITECT'S BASIS-OF-DESIGN SELECTIONS AND HAVE BEEN DETERMINED PRIOR TO BID. THE CONTRACTOR AND OWNER ARE HEREBY NOTIFIED THAT FINISHES INSTALLED IN THE WORK ARE SUBJECT TO CHANGE IN RESPONSE TO SUBMITTALS, CONFIRMED SELECTIONS, PRODUCT AVAILABILITY AND THE SUBSEQUENT COORDINATION OF FINISHES BY ARCHITECT AND MAY DIFFER FROM PRODUCTS LISTED HEREIN.

ABBREVIATIONS

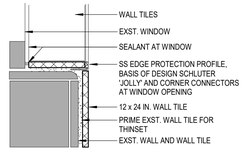
ACT	ACOUSTICAL CEILING TILE
EPX	EPOXY
GYP	GYPSUM BOARD
IGU	INSULATED GLASS UNIT
PLAM	PLASTIC LAMINATE
PNT	PAINT
RB	RUBBER BASE
WDV	WOOD VENEER
EXIST	EXISTING

SCHEDULE OF FINISH MATERIALS

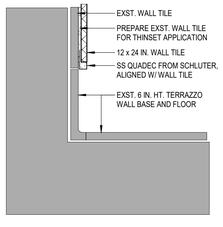
TAG	MATERIAL	MANUFACTURER	STYLE / TYPE	COLOR	SIZE	NOTES
ACT-1	ACOUSTIC CEILING TILE	CERTAINTEED	SAND MICRO	WHITE	24" x 24"	
CWT-1	CERAMIC WALL TILE					
CWT-2	CERAMIC WALL TILE					
CWT-3	CERAMIC WALL TILE					
PT-1	PORCELAIN TILE					
PNT-1	PAINT	SHERWIN-WILLIAMS		ON THE ROCKS		

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	FLOOR BASE	WALL FINISH	ACCENT WALL	CEILING	COMMENTS	REMARKS
005A	T	PT-1	CWT-1	CWT-2,CWT-3,PNT-1	-	ACT-1		
005B	T	PT-1	CWT-1	CWT-2,CWT-3,PNT-1	-	ACT-1		
103	TOIELT	PT-1	CWT-1	CWT-2,CWT-3,PNT-1	-	ACT-1		
105	TOILET	PT-1	CWT-1	CWT-2,CWT-3,PNT-1	-	ACT-1		
143	BOYS	PT-1	CWT-1	CWT-2,CWT-3,PNT-1		ACT-1		
144	GIRLS	PT-1	CWT-1	CWT-2,CWT-3,PNT-1		ACT-1		

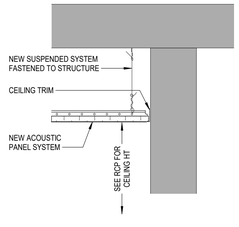


TYP. WINDOW DETAIL 20
3" = 1'-0"



TYP. WALL BASE DETAIL 11
3" = 1'-0"

GC AND MC TO VERIFY IN FIELD AVAILABLE CLEARANCES BEYOND EASILY OBSERVED EXISTING FINISHES, TYP.



CEILING DTL. 10
1 1/2" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

MIDDLE SCHOOL / HIGH SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - C/VIL CONSULTANT
BOHLER ENGINEERING
275 BROADHOLLOW RD, SUITE 100
MELVILLE, NY 11747

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

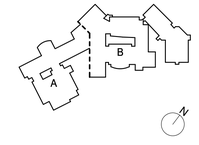
MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
2ND FLOOR
NEW YORK, NY 10119

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
420 COLUMBUS AVE, SUITE 203
VALHALLA, NY 10595

ISSUE	DATE
BID DOCUMENTS	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-003-033
MEMASI PROJECT NO.	102-2301

CEILING DETAILS AND SCHEDULES

HS A801

MECHANICAL SYMBOLS - GENERAL

	NEW PIPING, DUCTWORK, OR EQUIPMENT
	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO REMAIN
	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO BE REMOVED
	NEW EQUIPMENT
ER	EXISTING EQUIPMENT TO BE REMOVED
E	EXISTING EQUIPMENT TO REMAIN
ERR	EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
	CONTINUATION FOR DUCTWORK OR PIPING
AHU-1	TYPE OF EQUIPMENT (AIR HANDLING UNIT) UNIT NUMBER
	POINT OF CONNECTION (OF NEW WORK TO EXISTING WORK) OR POINT OF DISCONNECTION (TO REMOVE AND PATCH EXISTING WORK)
#	DRAWING NOTE TAG
1	REVISION SYMBOL
A / B	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A – SECTION DESIGNATION B – DRAWING NO.
T	THERMOSTAT (HAS DISPLAY, OCCUPANT ADJUSTMENT, OR BOTH) TO BE WALL MOUNTED. REFER TO PLANS FOR LOCATION.
TS	TEMPERATURE SENSOR (HAS NO DISPLAY OR OCCUPANT ADJUSTMENT) TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.
SD	DUCT MOUNTED SMOKE DETECTOR

MECHANICAL ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CV	CONSTANT VOLUME
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
ER	EXISTING EQUIPMENT TO REMOVED
ERR	EXISTING EQUIPMENT TO REMOVED AND RELOCATED
EWT	ENTER WATER TEMPERATURE
FLA	FULL LOAD AMPS
FPI	FIN PER INCH
FTR	FIN TUBE RADIATION
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
HZ	HERTZ
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OED	OPEN END DUCT
PH	PHASE
PSI	POUND PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
RE:	REFER TO...
TYP	TYPICAL
VN	VENT
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN

MECHANICAL SYMBOLS - DUCTWORK

18X12	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
18ø	ROUND DUCT DIAMETER
	SUPPLY OR OUTSIDE AIR INTAKE DUCT UP
	SUPPLY OUTSIDE AIR INTAKE DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	ACOUSTICAL LINING IN DUCT
	TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT
AD	ACCESS DOOR IN DUCT
R	SLOPING RISE IN DUCT IN DIRECTION OF ARROW
D	SLOPING DROP IN DUCT IN DIRECTION OF ARROW
	MITERED ELBOW WITH TURNING VANES
	RADIUS ELBOW (INNER RADIUS = WIDTH)
	DUCT SPLIT
	90° BRANCH TAP (USE 45° BOOT, OR CONICAL TAP FOR BRANCH SERVING A SINGLE DIFFUSER/REGISTER ONLY)
	45° BRANCH TAP
	SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) RADIUS ELBOW TYPE
	SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) MITERED ELBOW TYPE WITH TURNING VANES
	SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) BULLHEAD TYPE
	OFFSET (WITH RADIUS ELBOWS)
	SUPPLY REGISTER
	RETURN OR EXHAUST REGISTER
VD	VOLUME DAMPER
FD	FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
M	MOTORIZED DAMPER W/DUCT ACCESS DOOR
FXC	FLEXIBLE CONNECTION
	FLEXIBLE DUCT
VD	MODULAR LINEAR DIFFUSER WITH PLENUM
VD	BRANCH TAKEOFF TO CEILING DIFFUSER/REGISTER
	SUPPLY CEILING DIFFUSER (4-WAY BLOW)
	SUPPLY CEILING DIFFUSER (3-WAY BLOW)
	SUPPLY CEILING DIFFUSER (2-WAY BLOW)
	SUPPLY CEILING DIFFUSER (1-WAY BLOW)
CD-B(500)	DIFFUSER TYPE AND CFM (CUBIC FEET PER MINUTE). REFER TO SCHEDULE.
	RETURN CEILING GRILLE OR REGISTER
VAV-B(500)	TERMINAL BOX (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE, AND CFM. QUANTITY (REFER TO SCHEDULES).
VAV-B(500)	TERMINAL BOX WITH REHEAT COIL (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE AND CFM. QUANTITY (REFER TO SCHEDULES).
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
OA	OUTSIDE AIR INTAKE DUCT
EXH	EXHAUST DUCT

MECHANICAL SYMBOL LIST - PIPING

	DIRECTION OF FLOW IN PIPE
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	FLEXIBLE CONNECTION
	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE (ARROW INDICATES FLOW DIRECTION)
	AUTOMATIC THREE-WAY CONTROL VALVE
	AUTOMATIC TWO-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PLUG VALVE
	BUTTERFLY VALVE (MANUAL)
	CIRCUIT SETTER/BALANCING VALVE
	PIPE GUIDE
	EXPANSION JOINT
	CONCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
	ECCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
	UNION
	CAPPED PIPE
	"Y" TYPE STRAINER WITH BLOW DOWN VALVE
	PIPE SLEEVE
	PIPE FLANGE
	VALVE IN VERTICAL PIPE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL
	PRESSURE GAUGE WITH SHUT OFF VALVE
	PUMP
DTWS	DUAL-TEMPERATURE HOT/CHILLED WATER SUPPLY
DTWR	DUAL-TEMPERATURE HOT/CHILLED WATER RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
CD	CONDENSATE DRAIN LINE (GRAVITY)
PD	PUMPED DRAIN LINE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
GLR	GLYCOL WATER RETURN
GLS	GLYCOL WATER SUPPLY

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 2022 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

MECHANICAL DRAWING LIST

Sheet Number	Sheet Title
HS M001	MECHANICAL COVER SHEET
HS M002	MECHANICAL GENERAL NOTES
HS M100	MECHANICAL PLAN – BASEMENT
HS M101	MECHANICAL PLAN – FIRST FLOOR
HS M701	MECHANICAL DETAILS

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

HIGH SCHOOL

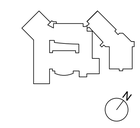
ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUED FOR BID	11/06/2024
ISSUE	DATE

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL COVER SHEET

HS M001

MECHANICAL GENERAL NOTES

1. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF DUCTWORK AND PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT, DUCTWORK, AND PIPING FABRICATION SHOP DRAWING APPROVAL.
2. THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED SO AS TO REQUIRE THE MOST SUBSTANTIAL AND COMPREHENSIVE PERFORMANCE OF THE WORK, CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. IN THE CASE OF A DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, THE WORST CASE OR HIGHEST COST SHALL APPLY FOR BIDDING PURPOSES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY VIA RFI PRIOR TO PERFORMING THE ASSOCIATED WORK.
3. ANY MATERIAL, WORK, OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
4. DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHERE ACOUSTICALLY LINED DUCT IS SPECIFIED, OUTER DUCT DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING.
5. WHERE WORK IS INDICATED TO BE BY OTHER CONTRACTORS, FOR EXAMPLE: "BY GENERAL CONSTRUCTION CONTRACTOR", THIS WORK IS NOT IN THE HVAC/MECHANICAL CONTRACT. EACH CONTRACTOR WILL BE RESPONSIBLE FOR CLOSE COORDINATION WITH OTHER CONTRACTORS' WORK.
6. REFER TO APPROPRIATE SPECIFICATION SECTION FOR EQUIPMENT SELECTION PARAMETERS WHERE DRAWINGS DO NOT CONTAIN EQUIPMENT SCHEDULES.
7. FOR AIR SYSTEMS, THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BRANCH VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTWORK, REGARDLESS IF VOLUME DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL VOLUME DAMPERS SHALL BE ADJUSTABLE HANDLE TYPE FOR LAY-IN ACCESSIBLE CEILING OR CABLE OPERATED FOR CONCEALED TYPE OF CEILING. ALL BRANCH DUCT VOLUME DAMPERS SERVING DIFFUSERS IN GYPSUM BOARD CEILINGS (OR OTHERWISE INACCESSIBLE) SHALL BE REMOTELY (CORD OR CABLE) OPERABLE THROUGH THE FACE OF THE DIFFUSER.
8. INSTALL THERMOSTATS, FAN SPEED CONTROLLERS, AND OTHER ROOM OCCUPANT ADJUSTABLE CONTROLS WITH TOP OF DEVICE 4'-0" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT. COORDINATE EXACT LOCATIONS WITH THE ARCHITECTURAL PLANS. DEVICE COLORS TO BE SELECTED BY THE ARCHITECT. MANUFACTURER'S LOGO SHALL NOT BE EXPOSED.
9. WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
10. PROVIDE UL LISTED AND LABELED FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS, REGARDLESS IF FIRE DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 2 HOUR OR LESS RATING. PROVIDE 3 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 3 HOUR OR MORE RATING. ALL FIRE DAMPERS SHALL BE TYPE "B" WITH SHUTTER OUT OF AIRSTREAM, AND SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS 2,000 FT/MIN AND 4.0 IN-WC. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN GENERAL CONSTRUCTION.
11. PROVIDE UL LISTED AND LABELED COMBINATION FIRE/SMOKE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE AND SMOKE RATED WALLS AND FLOORS, REGARDLESS IF FIRE DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE PROVIDED WITH AN END SWITCH FOR STATUS SIGNAL TO THE BMS AND FIRE SMOKE CONTROL PANEL. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS 2,000 FT/MIN AND 4.0 IN-WC. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN GENERAL CONSTRUCTION.
12. PROVIDE FIRESTOPPING FOR ALL DUCT, PIPE, AND CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS.
13. WHERE DUCTS AND PIPES PENETRATE FIRE AND/OR SMOKE RATED WALLS, LEAVE A MINIMUM OF 2 INCHES CLEAR ABOVE THE DUCTS AND PIPES, SUCH THAT THE MECHANICAL CONTRACTOR CAN SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCTWORK THROUGH FIRE AND/OR SMOKE RATED WALLS.
14. PROVIDE ESCUTCHEON PLATES WHERE DUCTS OR PIPES PENETRATE CEILINGS, WALLS, OR FLOORS WHERE EXPOSED TO VIEW IN FINISHED AREAS. ESCUTCHEONS FOR DUCTS SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS DUCT. PIPE ESCUTCHEONS SHALL BE CHROME-PLATED BRASS.
15. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING THERMOSTATS FOR ANY EQUIPMENT THAT REQUIRES CONTROL, SUCH AS VAV BOXES, FCU, FANS, HEATERS, FINNED TUBE RADIATION, RTU'S, ETC., REGARDLESS IF THERMOSTATS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL THERMOSTATS SHALL BE DIRECT DIGITAL PROGRAMMABLE TYPE, UNLESS OTHERWISE NOTED. PROVIDE ONE THERMOSTAT FOR EACH FAN COIL UNIT, FAN UNIT, VAV, FPB, ENTRANCE HEATER, BASEBOARD RADIATION, ETC. THERMOSTAT LOCATIONS SHALL BE AS SHOWN ON PLANS AND/OR WHERE DIRECTED AND APPROVED BY THE ARCHITECT AND ENGINEER.
16. ALL DUCTWORK AND PIPING REQUIRING FIRE RATING AND WHERE SHOWN ON PLANS SHALL BE PROVIDED WITH UL LISTED FIRE-RATED DUCT WRAP WITH APPROPRIATE FIRE RATING (1-HOUR, 2-HOUR, ETC.), UNLESS A FIRE-RATED ARCHITECTURAL ENCLOSURE IN THAT LOCATION IS SPECIFIED WITHIN DRAWINGS AND SPECIFICATIONS FOR ANOTHER TRADE.
17. ALL LINEAR DIFFUSERS ARE TO BE COORDINATED WITH ARCHITECTURAL PLANS FOR EXACT LENGTHS AND LOCATIONS. ACTIVE PLENUM SECTIONS SHALL BE OF THE SIZES AS SHOWN ON PLANS. EACH BRANCH TAP SERVING THE LINEAR DIFFUSER SHALL BE PROVIDED WITH A VOLUME DAMPER WHICH SHALL BE OPERABLE THROUGH THE DIFFUSER FACE. ACTIVE SUPPLY SECTION OF LINEAR DIFFUSER SHALL BE PROVIDED WITH PATTERN CONTROL DEVICES AND EQUALIZING GRIDS. ACTIVE OR INACTIVE RETURN SECTIONS SHALL NOT BE FURNISHED WITH PATTERN CONTROL OR EQUALIZING GRIDS.
18. BORDER TYPES AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.
19. REFER TO SPECIFICATIONS FOR ACOUSTIC LINING REQUIREMENTS NOT SHOWN ON THE DRAWINGS.
20. FOR WATER SYSTEMS: THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BALL TYPE SHUT-OFF VALVES AND SEPARATE BALANCING VALVE FOR ALL BRANCH PIPING REGARDLESS IF VALVES ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL SHUT-OFF VALVES SHALL BE FULL PORT AND PRESSURE RATED FOR SYSTEM PRESSURE. THE BALANCING VALVE SHALL BE SIMILAR TO B&G CIRCUIT SETTER PLUS CALIBRATED BALANCE VALVE, UNLESS OTHERWISE NOTED.
21. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING SECONDARY DRAIN PANS FOR ALL AIR CONDITIONING CEILING HUNG EQUIPMENT REGARDLESS IF DRAIN PANS ARE NOT SHOWN IN CONTRACT DOCUMENTS. REFER TO DETAIL FOR INSTALLATION OF DRAIN PANS. IF NO DETAIL IS SHOWN, CONTRACTOR MUST REQUEST DRAIN PAN DETAIL THRU RFI PROCESS DURING BIDDING.
22. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING CONDENSATE PIPING FOR ALL COOLING TYPE EQUIPMENT REGARDLESS IF CONDENSATE PIPING IS NOT SHOWN IN CONTRACT DOCUMENTS. ALL CONDENSATE PIPING SHALL BE INSULATED AND ROUTED TO NEAREST DRAIN OR JANITORS CLOSET. IF NO CONDENSATE PIPING IS SHOWN, CONTRACTOR MUST REQUEST CONDENSATE PIPING ROUTING THRU RFI PROCESS DURING BIDDING.

MECHANICAL GENERAL NOTES (CONT.)

23. GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
24. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
25. COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
26. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL, EXCEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
27. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
28. PROVIDE ACCESS PANELS IN DUCTS AND CEILINGS/SOFFITS/WALLS/FLOORS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS FOR ALL CONCEALED EQUIPMENT THAT REQUIRES PERIODIC SERVICE, INCLUDING AIR CONDITIONING UNITS, FANS, CONDENSATE PUMPS, FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, AND DUCT MOUNTED SMOKE DETECTORS. MATCH FIRE RATING OF CEILING/SOFFIT/WALL/FLOOR WHERE APPLICABLE.
29. PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
30. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
31. COORDINATE ALL ROOF PENETRATIONS WITH THE WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE ALL ROOF PENETRATION LOCATIONS WITH THE OWNER. NOTIFY THE OWNER PRIOR TO STARTING WORK AND VERIFY COMPLIANCE WITH BOND AND WARRANTY OF THE ROOF.
32. RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED, AND CLEAR OF CEILING INSERTS.
33. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND EQUIPMENT MANUFACTURERS' REQUIREMENTS.
34. PRIOR TO SUBMISSION OF SHOP DRAWINGS, COORDINATE WITH ELECTRICAL CONTRACTOR TO VERIFY VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT.
35. MOTOR STARTERS AND VARIABLE FREQUENCY DRIVES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED/WIRED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. COORDINATE AND VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO SHOP DRAWING SUBMISSION.
36. ALL DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED, INSTALLED, AND WIRED BY THE ELECTRICAL CONTRACTOR, UNLESS INTEGRAL TO HVAC EQUIPMENT OR OTHERWISE NOTED. COORDINATE AND VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO SHOP DRAWING SUBMISSION.
37. USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
38. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
39. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
40. DO NOT INSTALL DUCTWORK DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
41. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.
42. VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATED TYPE, WITH CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS AND CLEARLY LABELED FOR DIFFUSER OR REGISTER SERVED.
43. UNLESS OTHERWISE NOTED, ALL EXPOSED DUCTWORK IN FINISHED SPACES SHALL BE SPIRAL ROUND OR FLAT OVAL TYPE, WITH SOLID OUTER WALL, PERFORATED INNER WALL, 1 INCH THICK INTERSTITIAL ACOUSTICAL LINING, AND FLAT SEAMS.
44. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
45. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
46. CONDENSATE DRAIN (CD) AND CONDENSATE PUMP DISCHARGE (PD) PIPING SHALL BE RIGID COPPER, TYPE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED OR SOLDERED, WITH 1" INSULATION, UNLESS OTHERWISE NOTED ON DRAWINGS.
47. ALL NEW AND EXISTING INSULATED HVAC PIPING EXPOSED TO VIEW IN FINSHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.
48. WHERE EXISTING DUCTS, PIPES, LOUVERS, GRILLES, WIRES, CONDUITS, AND PNEUMATIC TUBING THROUGH EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS ARE REMOVED BY THE MECHANICAL CONTRACTOR, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INFILLING AND REPAIRING OPENINGS TO MATCH EXISTING CONSTRUCTION, INCLUDING FIRE RATING, SMOKE RATING, INSULATION VALUE, MOISTURE BARRIER, PAINTING, AND GENERAL FINISH APPEARANCE.
49. WHERE NEW DUCTS, PIPES, LOUVERS, GRILLES, WIRES, AND CONDUITS INSTALLED BY THE MECHANICAL CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.
50. NEW AND EXISTING PERMANENT HVAC AIR EQUIPMENT MAY BE USED BY CONTRACTORS DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, AND VENTILATION, ONLY UNDER THE FOLLOWING CONDITIONS:
    - 50.1. CONTRACTOR TO PROVIDE TEMPORARY FILTERS IN EACH UNIT DURING CONSTRUCTION, WHICH SHALL BE REPLACED WITH NEW CLEAN FILTERS AFTER GENERAL CONSTRUCTION IS COMPLETED.
    - 50.2. CONTRACTOR TO PROVIDE FILTER FABRIC AT ALL RETURN AND EXHAUST REGISTERS, GRILLES, AND OPENINGS DURING CONSTRUCTION.
    - 50.3. THE WARRANTY PERIOD FOR ALL EQUIPMENT SHALL NOT BEGIN UNTIL CONSTRUCTION IS COMPLETED. IF THE EQUIPMENT MANUFACTURER'S WARRANTY PERIOD BEGINS WHILE THE UNIT USED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE WARRANTY TO PROVIDE THE FULL PERIOD OF COVERAGE TO THE OWNER.
    - 50.4. IF NEW PERMANENT HVAC AIR EQUIPMENT INSTALLED UNDER THIS PROJECT WILL NOT BE OPERATED BY THE CONTRACTOR DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS.
    - 50.5. IF THE ABOVE CONDITIONS ARE NOT MET, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY HEATING, COOLING, AND VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, PIPING, AND POWER AT HIS OWN EXPENSE.
    - 50.6. IF PERMANENT HVAC EQUIPMENT IS USED DURING CONSTRUCTION BUT NOT PROPERLY PROTECTED AS DESCRIBED ABOVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DUST AND DEBRIS FROM DUCTWORK AND EQUIPMENT, AS WELL AS ANY NECESSARY REPAIR OR REPLACEMENT OF DAMAGED EQUIPMENT AT HIS OWN EXPENSE.
    - 50.7. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS.

MECHANICAL DEMOLITION GENERAL NOTES

1. DEMOLITION NOTES, SYMBOL LIST, AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2. ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED, AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
3. AFTER REMOVING PIPE THROUGH THE FLOOR SLABS, PACK OPENING WITH APPROVED FIRE-RATED PACKING.
4. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
5. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
6. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR, OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL REMOVE ALL DUCT AND PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
8. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REAVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
9. PORTIONS OF PIPING AND DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED, AND RECONNECTED.
10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE, SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE OWNER.
12. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
13. THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO A SHUTDOWN.
14. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
15. WHERE THE DEMOLITION OF EXISTING PNEUMATIC CONTROL EQUIPMENT, THERMOSTATS, OR TUBING IS INDICATED IN THE PLANS, THE CONTRACTOR SHALL CAP THE ENDS OF ALL EXISTING TO REMAIN PNEUMATIC LINES AIRTIGHT UNLESS OTHERWISE NOTED. IF ADDITIONAL PNEUMATIC LINES OR DEVICES ARE DISCOVERED BY THE CONTRACTOR INSIDE WALLS OR ABOVE CEILINGS DURING DEMOLITION, THE CONTRACTOR SHALL INFORM THE DESIGN TEAM PRIOR TO REMOVAL OF THESE LINES OR DEVICES.

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2022 CAPITAL PROJECT PHASE 4

HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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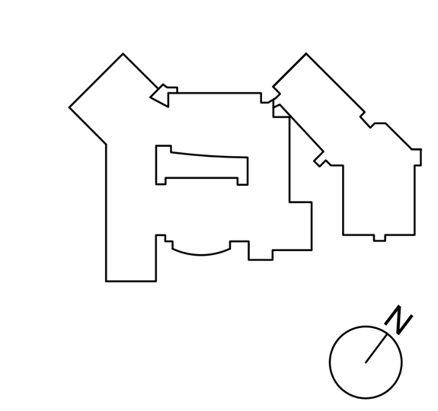
KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL GENERAL NOTES

HS M002

11/4/2024 6:12 PM Valenti, Thomas

DEMOLITION GENERAL NOTES – CONTROLS:

A. UNLESS OTHERWISE NOTED, CONTROLS FOR MECHANICAL EQUIPMENT TO BE REMOVED UNDER THIS PROJECT (INCLUDING BUT NOT LIMITED TO THERMOSTATS, WIREMOLD, CONDUITS, AND JUNCTION BOXES) WHICH ARE ACCESSIBLE AFTER GENERAL DEMOLITION SHALL BE REMOVED BACK TO EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS. WHERE CONTROLS COMPONENTS ARE REMOVED ON BOTH SIDES OF A WALL OR SLAB, ALSO REMOVE THE PORTION PENETRATING THE WALL OR SLAB. WHERE CONTROLS COMPONENTS ENTER A SHAFT OR CHASE, CAP 3/4" BEHIND EXISTING SURFACE.

DEMOLITION GENERAL NOTES – CUTTING AND PATCHING:

B. WHERE EXISTING EQUIPMENT, DUCTS, PIPES, LOUVERS, GRILLES, CONTROLS, WIRES, CONDUITS, AND PNEUMATIC TUBING THROUGH EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS ARE REMOVED BY THE MECHANICAL CONTRACTOR, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INFILLING AND REPAIRING OPENINGS TO MATCH EXISTING CONSTRUCTION, INCLUDING FIRE RATING, SMOKE RATING, INSULATION VALUE, MOISTURE BARRIER, PAINTING, AND GENERAL FINISH APPEARANCE. WHERE SURFACE-MOUNTED COMPONENTS ARE REMOVED, REPAIR SURFACE FINISHES TO MATCH EXISTING.

GENERAL NOTES – DUCTWORK:

A. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.

B. ALL DUCTWORK SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

C. DO NOT INSTALL DUCTWORK DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

D. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.

E. VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATED TYPE, WITH CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS AND CLEARLY LABELED FOR DIFFUSER OR REGISTER SERVED.

F. UNLESS OTHERWISE NOTED, ALL EXPOSED DUCTWORK IN FINISHED SPACES SHALL BE SPIRAL ROUND OR FLAT OVAL TYPE, WITH SOLID OUTER WALL, PERFORATED INNER WALL, 1 INCH THICK INTERSTITIAL ACOUSTICAL LINING, AND FLAT SEAMS.

GENERAL NOTES – PIPING:

G. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

H. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

I. CONDENSATE DRAIN (CD) AND CONDENSATE PUMP DISCHARGE (PD) PIPING SHALL BE RIGID COPPER, TYPE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED OR SOLDERED, WITH 1" INSULATION, UNLESS OTHERWISE NOTED ON DRAWINGS.

J. ALL NEW AND EXISTING INSULATED HVAC PIPING EXPOSED TO VIEW IN FINSHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

GENERAL NOTES – CUTTING AND PATCHING:

K. WHERE NEW EQUIPMENT, DUCTS, PIPES, LOUVERS, GRILLES, WIRES, AND CONDUITS INSTALLED BY THE MECHANICAL CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

L. MECHANICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE MECHANICAL SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

MECHANICAL PLAN - BASEMENT

1/16" = 1'-0"

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HIGH SCHOOL

ARCHITECT

MEMASI

2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT

STANTEC
30 OAK STREET, SUITE 400
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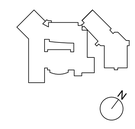


PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

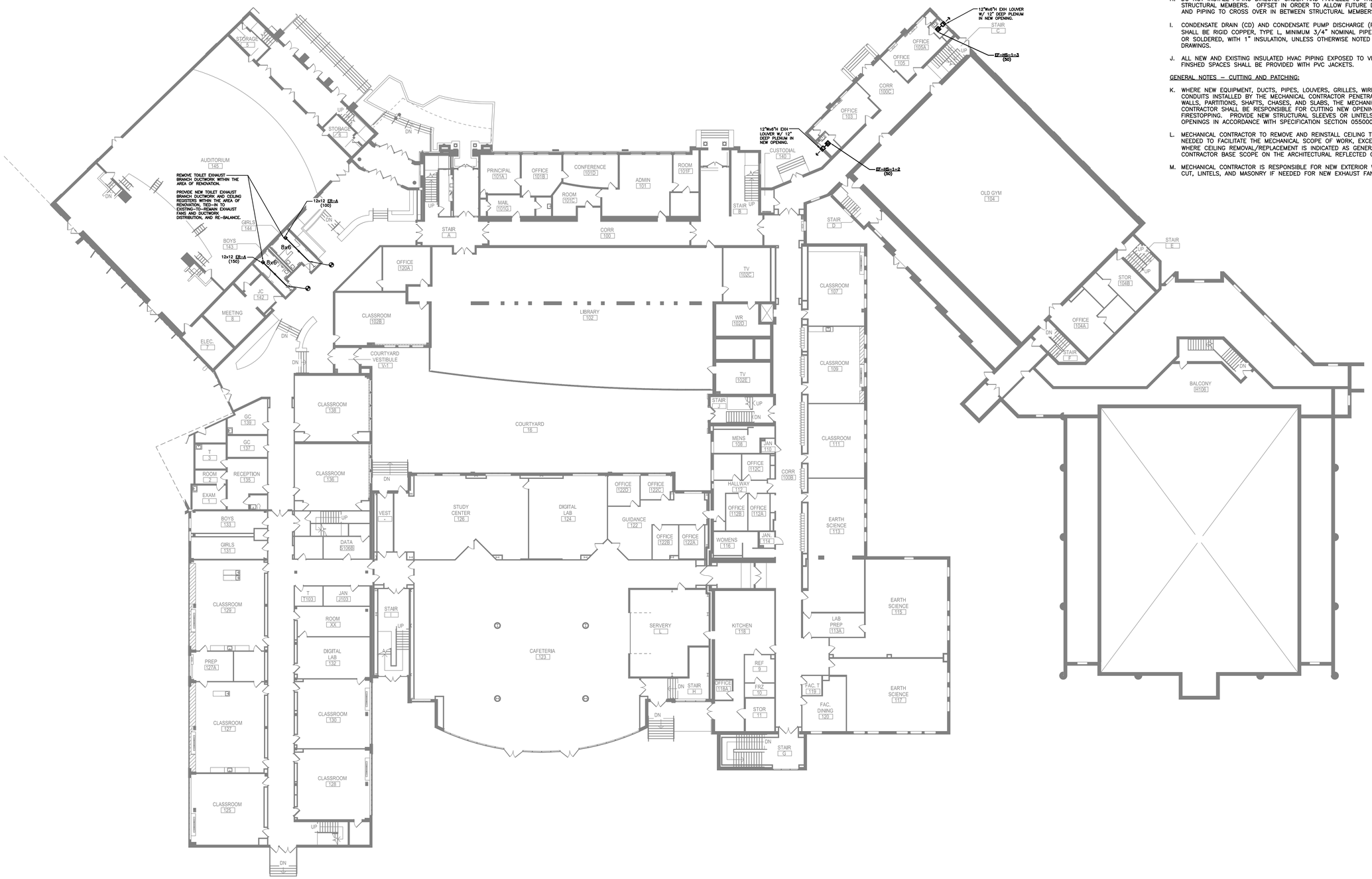
MECHANICAL PLAN - BASEMENT

HS M100

FAN SCHEDULE

DESIGNATION	LOCATION	AREA SERVED	SERVICE	CONFIGURATION	DRIVE TYPE	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN WC)	BHP	RPM	MHP	ELECTRICAL DATA												PHYSICAL DIMENSIONS LxWxH	WEIGHT (LBS)	SONES	MANUFACTURER	MODEL	REMARKS
											VOLTS	PH	Hz	FLA	DISCONNECT				STARTER				EMER. POWER (Y/N)					
															BY E.C. OR MANUF.	LOCATION	TYPE	ENCLOSURE TYPE	BY M.C. OR MANUF.	LOCATION	TYPE	ENCLOSURE TYPE						
EF-HS-1-2	OFFICE 103	BATHROOM	TOILET EXHAUST	CEILING	DIRECT	50	0.25	N/A	887	6W	115	1	60	0.29	E.C.	PLENUM	DISC	NEMA-1	MANUF.	N/A	N/A	N/A	N	11X14X9	12	2	GREENHECK	SP-A50-VG	SEE NOTES BELOW
EF-HS-1-3	OFFICE 105A	BATHROOM	TOILET EXHAUST	CEILING	DIRECT	50	0.25	N/A	887	6W	115	1	60	0.29	E.C.	PLENUM	DISC	NEMA-1	MANUF.	N/A	N/A	N/A	N	11X14X9	12	2	GREENHECK	SP-A50-VG	SEE NOTES BELOW

NOTES:
1. PROVIDE THE FOLLOWING:
   1.1. BUILT-IN BAROMETRIC BACKDRAFT DAMPER.
   1.2. ECM MOTOR CONTROLLER INTEGRAL TO FAN MOTOR, WITH CONTACTS SUITABLE FOR BMS TIE-IN, GREENHECK "VARI-GREEN" OR EQUAL.



MECHANICAL PLAN - FIRST FLOOR
1/16" = 1'-0"

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C. DO NOT INSTALL DUCTWORK DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

D. BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.

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J. ALL NEW AND EXISTING INSULATED HVAC PIPING EXPOSED TO VIEW IN FINISHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

GENERAL NOTES – CUTTING AND PATCHING:

K. WHERE NEW EQUIPMENT, DUCTS, PIPES, LOUVERS, GRILLES, WIRES, AND CONDUITS INSTALLED BY THE MECHANICAL CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW STRUCTURAL SLEEVES OR LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

L. MECHANICAL CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE MECHANICAL SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

M. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR NEW EXTERIOR WALL OPENING CUT, LINTELS, AND MASONRY IF NEEDED FOR NEW EXHAUST FANS.

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PHASE 4

HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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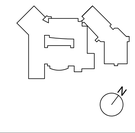

PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

MECHANICAL PLAN - FIRST FLOOR

HS M101

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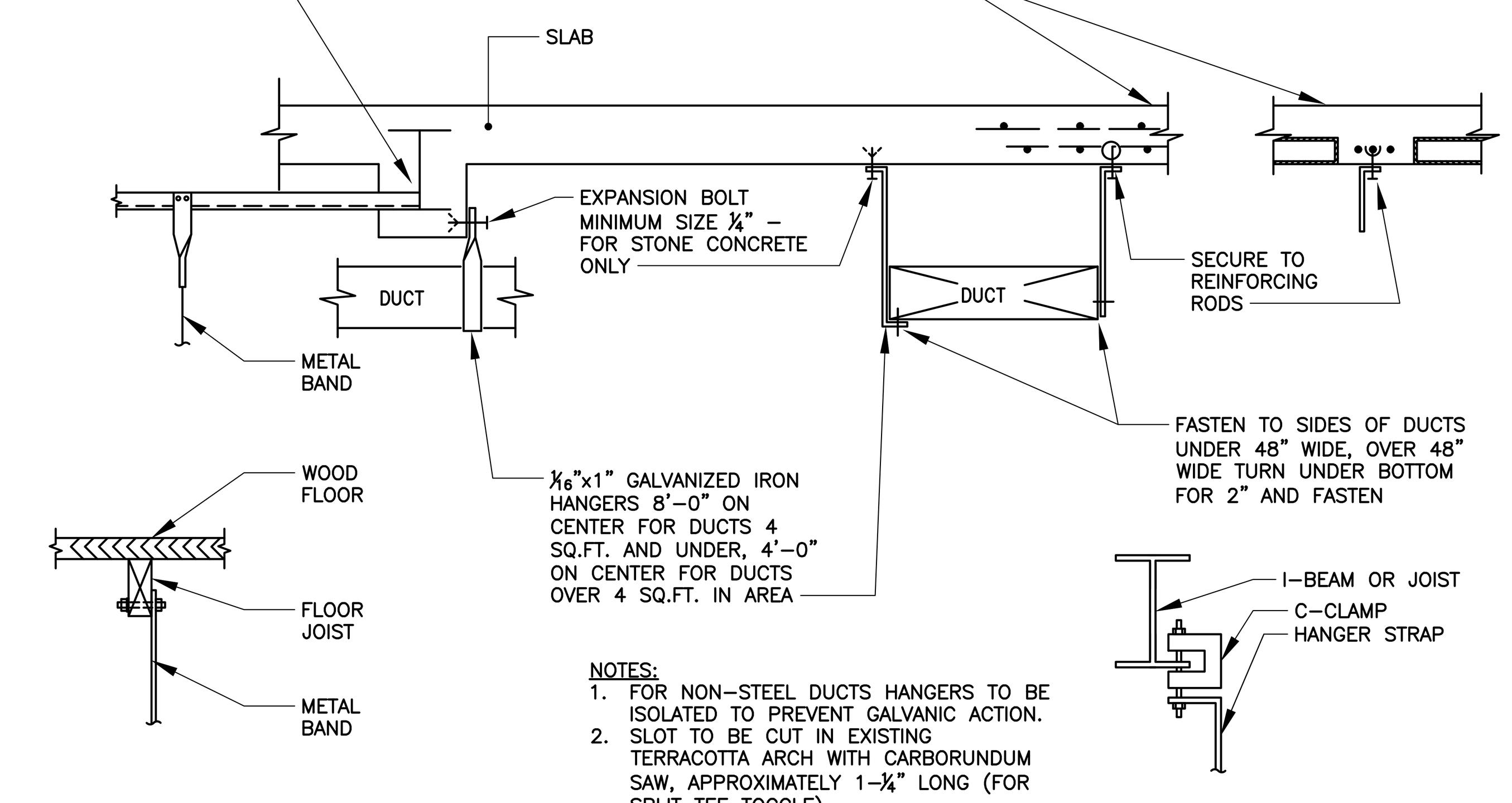
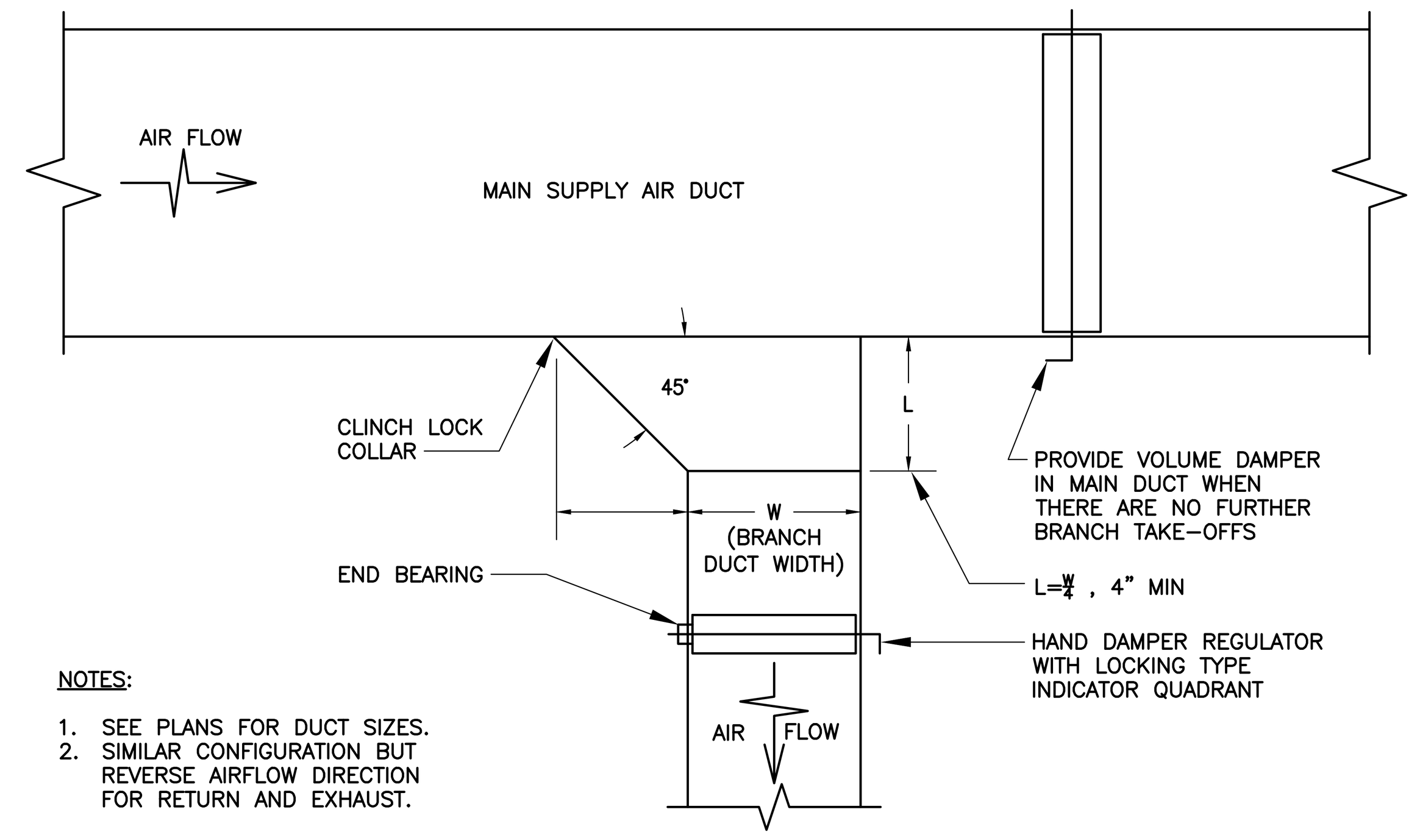


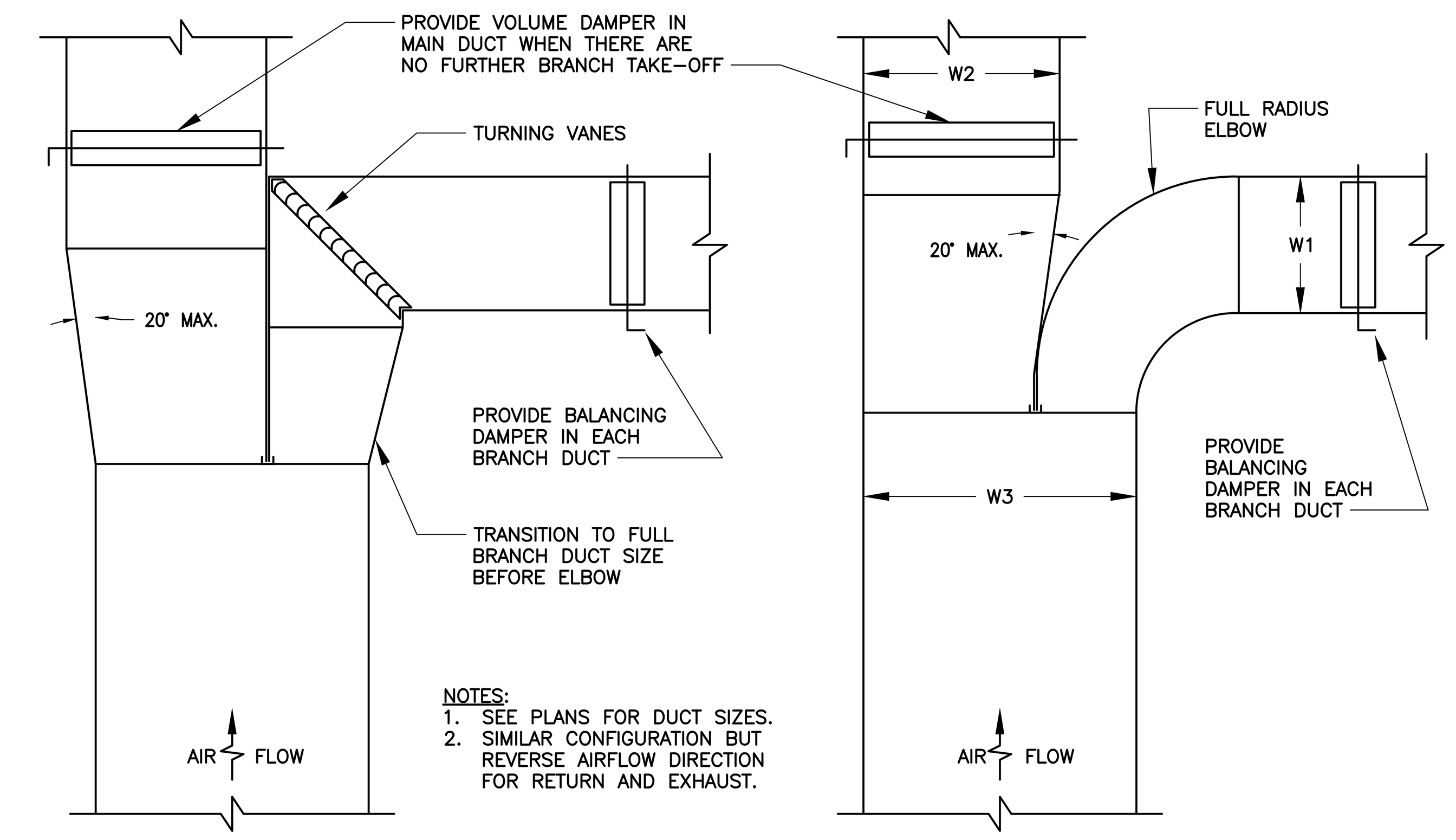
NOTES:
1. FOR NON-STEEL DUCTS HANGERS TO BE ISOLATED TO PREVENT GALVANIC ACTION.
2. SLOT TO BE CUT IN EXISTING TERRACOTTA ARCH WITH CARBORUNDUM SAW, APPROXIMATELY 1-¼" LONG (FOR SPLIT TEE TOGGLE).

TYPICAL DUCT HANGING DETAIL
N.T.S.



NOTES:
1. SEE PLANS FOR DUCT SIZES.
2. SIMILAR CONFIGURATION BUT REVERSE AIRFLOW DIRECTION FOR RETURN AND EXHAUST.

TYPICAL DETAIL OF RECTANGULAR SUPPLY AIR DUCT TAP
N.T.S.



NOTES:
1. SEE PLANS FOR DUCT SIZES.
2. SIMILAR CONFIGURATION BUT REVERSE AIRFLOW DIRECTION FOR RETURN AND EXHAUST.

DETAIL OF LOW PRESSURE SUPPLY AIR DUCT NECK CONNECTIONS
N.T.S.

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ARCHITECT
MEMASI
2 LYON PLACE
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MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
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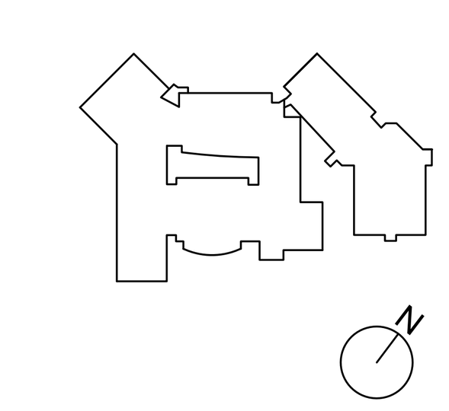

PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

MECHANICAL DETAILS

HS M701

ELECTRICAL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE GFCI TYPE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
WP	20A, 125V GFCI TYPE WEATHER RESISTANT DUPLEX RECEPTACLE IN WEATHER PROOF ENCLOSURE
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE – CEILING MOUNTED
	SPECIAL PURPOSE RECEPTACLE – FLUSH WALL MOUNTED
	DATA OUTLET WITH 1 1/4"E.C. UP TO CEILING. TURN 90° AND STUB AND BUSH 6" INTO ACCESSIBLE CEILING
J	CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH FLOOR MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	UNFUSED DISCONNECT SWITCH
100A / 60A	FUSED DISCONNECT SWITCH – 100 AMP SWITCH, 60 AMP FUSE, UNFUSED (EXCEPT WHERE FUSE SIZE IS INDICATED) 3–POLE (EXCEPT WHERE NOTED)
	COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COOR. LOCATION W/MECH. CONT.
CB 100A / 60A	CIRCUIT BREAKER 100A FRAME/60A TRIP, 3 POLE, U.O.N. ST – SHUNT TRIP
VFD	VARIABLE FREQUENCY DRIVE (VFD), FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COORD. LOCATION WITH MECH. CONTRACTOR
M	MOTOR
	PULLBOX, SIZED PER NEC
T	DRY TYPE 480–208V TRANSFORMER DELTA–WYE WITH GROUNDED SECONDARY SIDE, UON.
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
GND	GROUND BAR
	2#12+1#12G–3/4"C FOR ONE CKT. HOMERUN, U.O.N.
	4#12+1#12G–3/4"C FOR TWO CKT. HOMERUN, U.O.N.
	6#12+1#12G–3/4"C FOR THREE CKT. HOMERUN, U.O.N.
	3#12+1#12G–3/4"C HOMERUN, U.O.N.
	CONCEALED CONDUIT
	CONDUIT TURNING UP
	CAPPED CONDUIT
	FLEXIBLE EQUIPMENT CONNECTION
	GROUND CONNECTION
$T	MANUAL STARTER – TOGGLE TYPE WITH THERMAL ELEMENT – 250V HP RATED, FURNISHED BY ELEC CONTRACTOR
RP	SECURITY DEVICE REPEATER

LIGHTING CONTROL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
$	SINGLE POLE LINE VOLTAGE SWITCH
$K	KEY ACTIVATED LINE VOLTAGE SWITCH
DS	DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL MTD.
VS	DUAL TECHNOLOGY VACANCY SENSOR, CEILING MTD.
WS M	LOW VOLTAGE LIGHTING CONTROL MASTER LIGHTING CONTROL WALL STATION
WS K,OR	LOW VOLTAGE LIGHTING CONTROL LOCAL LIGHTING CONTROL WALL STATION ("OR" DENOTES VACANCY SENSOR OVERRIDE, "K" DENOTES KEY SWITCH)
PC	EXTERIOR LIGHTING PHOTOCELL
DS	INTERIOR DAYLIGHT ZONE SENSOR
RC a,b	ROOM CONTROLLER (LOWER CASE LETTER DENOTES CONTROL ZONES). REFER TO LIGHTING CONTROL DETAILS
WS D	LOW VOLTAGE LIGHTING CONTROL LOCAL LIGHTING CONTROL WALL STATION WITH VACANCY SENSOR OVERRIDE AND ZONE DIMMING
DS	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MTD.

FIRE ALARM SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
S	CEILING MOUNTED ADDRESSABLE SMOKE DETECTOR
D	DUCT SMOKE DETECTOR
F	COMBINATION FIRE ALARM BELL/STROBE LIGHT UNIT - FLUSH WALL MOUNTED (WITH ADJUSTABLE CANDELA RATING)
F	FIRE ALARM PULL STATION
R	FIRE ALARM RELAY
RAN	FIRE ALARM REMOTE ANNUNCIATOR PANEL
ST 75	FIRE ALARM STROBE LIGHT - "75" INDICATES CANDELA SET POINT
CO	CARBON MONOXIDE DETECTOR
ST 75	FIRE ALARM STROBE LIGHT (CEILING MOUNTED) - "75" INDICATES CANDELA SET POINT

ELECTRICAL ABBREVIATIONS

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

A	AMPERE	KCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER	KV	KILOVOLT
AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERE
AHJ	AUTHORITY HAVING JURISDICTION	KW	KILOWATT
AIC	AMP INTERRUPTING CAPACITY	KWH	KILOWATT HOUR
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
AUTO	AUTOMATIC	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MCB	MAIN CIRCUIT BREAKER
BLDG	BUILDING	MCC	MOTOR CONTROL CENTER
C	CONDUIT	MIN	MINIMUM
CB	CIRCUIT BREAKER	MTD	MOUNTED
CCTV	CLOSED CIRCUIT TELEVISION	N	NEUTRAL
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CO	CARBON MONOXIDE	NTS	NOT TO SCALE
COMM	COMMUNICATION	OC	ON CENTER
CT	CURRENT TRANSFORMER	P	POLE
CU	COPPER	ø or PH	PHASE
DEG	DEGREE	PNL	PANEL
DGP	DATA GATHERING PANEL	PWR	POWER
DISC	DISCONNECT	R	RELOCATED
DN	DOWN	RECEPT	RECEPTACLE
DWG	DRAWING	TEL	TELEPHONE
E/EX	EXISITNG TO REMAIN	TOS	TOP OF SHAFT
EC	ELECTRICAL CONTRACTOR	TV	TELEVISION
EM	EMERGENCY	TYP	TYPICAL
ER	EXISTING TO BE REMOVED	UON	UNLESS OTHERWISE NOTED
ERR	EXISTING TO BE REMOVED AND RELOCATED	V	VOLT OR VOLTAGE
FA	FIRE ALARM	VA	VOLT AMPERE
FACP	FIRE ALARM CONTROL PANEL	VIF	VERIFY IN FIELD
FL	FLOOR	W	WATT
FT	FEET OR FOOT	WP	WEATHERPROOF
GRD	GROUND	WT	WATERTIGHT
GFI	GROUND FAULT INTERRUPTER	XP	EXPLOSION PROOF
HID	HIGH INTENSITY DISCHARGE		
HP	HORSE POWER		
HZ	HERTZ		
JB	JUNCTION BOX		

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 2022 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

ELECTRICAL DRAWING LIST

Sheet Number	Sheet Title
HS E001	ELECTRICAL COVER SHEET
HS E002	ELECTRICAL GENERAL NOTES
HS E100	ELECTRICAL PLAN - BASEMENT
HS E101	ELECTRICAL PLAN - FIRST FLOOR
HS E501	ELECTRICAL LIGHTING CONTROL DIAGRAMS

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE / CCT / LUMENS / CRI	VOLTS	NOTES
F1	2X4 FLAT PANEL	METALUX	24FP4735C	41 / 3500K / 4591 / 80	UNV	EL14W EM PACK WHERE INDICATED
F2	2X2 FLAT PANEL	METALUX	22FP3235C	29 / 3500K / 3307 / 80	UNV	EL14W EM PACK WHERE INDICATED
F3	2X4 TROFFER	LITHONIA	ENVX 2X4 HRG 6000LM 80CRI 35K MIN1 EZT MVOLT	50 / 3500K / 6000 / 80	UNV	EL15WLCP EM PACK WHERE INDICATED
X1	LED EDGE-LIT EXIT SIGN	LITHONIA	LRP 1/2 RC/RMR 120/277 EL N	2W	UNV	SHIP WITH ALL MOUNTING OPTIONS AND DIRECTIONAL INDICATORS

ROOF

3RD FLOOR

2ND FLOOR

1ST FLOOR — ST E BOYS 143 — ST E GIRLS 144 — ST TOILET (OFFICE 103) — ST TOILET (OFFICE 105A)

BASEMENT — ST E TOILET ROOM 005B — ST E TOILET ROOM 006B

PARTIAL FIRE ALARM RISER (HIGH SCHOOL)

N.T.S.

FIRE ALARM GENERAL NOTES:

1. PROVIDE ALL EQUIPMENT, PROGRAMMING & WIRING REQUIRED FOR A COMPLETE CODE COMPLIANT SYSTEM.
2. PROVIDE ALL FILING, PERMIT & FIRE DEPARTMENT INSPECTION FEES.
3. ALL NOTIFICATION AND SIGNAL LINE CIRCUITS SHALL BE CLASS B WIRING WITHOUT T–TAPPING OF CIRCUITS.
4. COORDINATE WITH THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE EXACT SEQUENCE OF OPERATIONS.
5. SMOKE DETECTORS SHALL BE A MINIMUM OF 3 FEET FROM ALL SUPPLY DIFFUSERS.
6. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT WHEN RUN EXPOSED IN MECHANICAL ROOMS. PROVIDE CONDUIT CONCEALED IN WALLS UP TO ACCESSIBLE CEILING WITH INSULATING BUSHING FOR ALL WALL MOUNTED FIRE ALARM DEVICES.
7. ALL FIRE ALARM EQUIPMENT SHALL BE APPROVED BY LOCAL AHJ PRIOR TO ORDERING.
8. FIRE ALARM RISER IS A DIAGRAMMATIC REPRESENTATION OF THE SYSTEM. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
9. ALL FIRE ALARM CABLING SHALL BE PLENUM RATED AND MEET PATHWAY SURVIVABILITY LEVEL 2.
10. ALL FIRE ALARM ANNUNCIATING DEVICES SHALL BE "RED".
11. PROVIDE A CONTROL MODULE AND RELAY FOR ALL FIRE SMOKE DAMPERS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES. PROVIDE DUCT SMOKE DETECTORS TO ACTIVATE FIRE SMOKE DAMPERS AS REQUIRED.
12. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT INCLUDE MANUFACTURER'S CUT SHEETS WITH EQUIPMENT MODEL NUMBERS, BATTERY CALCULATIONS, CONDUCTOR TYPE AND SIZES, AND VOLTAGE DROP CALCULATIONS.
13. REMOVE EXISTING FIRE ALARM DEVICES IN SCOPE OF WORK AREA WHERE NEW DEVICES ARE INDICATED.
14. ALL NEW FIRE ALARM DEVICES SHALL BE TIED INTO EXISTING ADDRESSABLE FIRE ALARM LOOPS. PROVIDE ADDITIONAL ADDRESSABLE CARDS/AMPLIFIER/POWER SUPPLY/WIRING AND CONDUIT AS REQUIRED.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUED FOR BID	11/06/2024
ISSUE	DATE

KEY PLAN

PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

ELECTRICAL COVER SHEET

HS E001

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, BUILDING DEPARTMENT, BUILDING MANAGEMENT, ALL AUTHORITIES HAVING JURISDICTION, AND APPLICABLE NATIONAL, STATE, AND LOCAL CODES. LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS TO INFORM THE ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION OF LAWS AND REGULATIONS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER.
2. PRIOR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATED TO THE WORK AS INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO SUBMISSION OF BID, AND, IF NOT RESOLVED TO SATISFACTION, SHALL BE SUBMITTED AS A WRITTEN QUALIFICATION OF THE BID. SUBMISSION OF A BID SHALL BE EVIDENCE THAT SITE VERIFICATION HAS BEEN PERFORMED AS DESCRIBED ABOVE.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND COORDINATE FINAL LOCATIONS OF SWITCHES, LIGHT FIXTURES, RECEPTACLES, ETC. WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.
4. PRIOR TO SUBMISSION OF BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING GENERAL CONSTRUCTIONS, DEMOLITION, ARCHITECTURAL, MECHANICAL, ELECTRICAL, TELECOM/AV/SECURITY, PLUMBING, AND FIRE PROTECTION AND SHALL INCLUDE ANY WORK REQUIRED IN THE BID WHICH IS INDICATED OR IMPLIED TO BE PERFORMED BY THIS TRADE IN OTHER SECTIONS OF THE WORK.
5. ANY EQUIPMENT, PARTS, MATERIALS, ACCESSORIES, OR LABOR THAT IS NECESSARY FOR PROPER PERFORMANCE OF THE ELECTRICAL WORK, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL WITHOUT ADDITIONAL COST.
6. THIS CONTRACTOR SHALL SUBMIT FOR APPROVAL, A PLAN INDICATING THE SIZE AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, JUNCTION BOXES, PULL BOXES, ETC. THIS CONTRACTOR SHALL ARRANGE FOR FURNISHING AND INSTALLATION OF ALL ACCESS DOORS IN FINISHED CONSTRUCTION AND INCLUDE COSTS IN THE BID.
7. REMOVAL, TEMPORARY CONNECTIONS, AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK.
8. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO ENSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE ORGANIZED WITH BUILDING MANAGEMENT. PROVIDE TEMPORARY FEEDERS, CIRCUITRY, ETC., AS REQUIRED TO MINIMIZE DOWNTIME.
9. DISCONNECTS SHALL BE 'QUICK-BREAK' HEAVY DUTY TYPE IN NEMA 1 ENCLOSURE FUSED OR UN-FUSED AS INDICATED ON THE DRAWINGS. FUSES FOR SWITCHES SHALL BE CURRENT LIMITING TYPE WITH AN INTERRUPTING CAPACITY OF 200,000 RMS AMPERES AND OF THE CONTINUOUS CURRENT RATING AS SHOWN ON THE DRAWINGS.
10. CIRCUIT BREAKERS SHALL BE 'THERMAL MAGNETIC' TYPE, QUICK-MAKE, QUICK-BREAK WITH NON-WELDING CONTACTS COMPENSATED FOR AMBIENT TEMPERATURES AND SHALL HAVE A MINIMUM SHORT CIRCUIT RATING OF 10,000 AMPERES SYMMETRICAL FOR 120/208V PANELS AND 14,000 AMPERES SYMMETRICAL FOR 277/480V PANELS OR HIGHER WHERE NOTES.
11. CONDUIT SHALL BE RIGID THREADED REGARDLESS OF SIZE IN LOCATIONS PER PROJECT SPECIFICATIONS.
12. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION, UNLESS OTHERWISE NOTED. UNLESS SPECIFIED ALL WIRE #10 AWG AND SMALLER SHALL BE SOLID CONDUCTORS AND 8 AWG AND LARGER SHALL BE STRANDED.
13. BRANCH CIRCUIT WIRE SIZE: THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS SHALL BE NO. 12 AWG EXCEPT 120V CIRCUITS OVER 80 FEET IN LENGTH SHALL BE 10 AWG.
14. PULL BOXES, JUNCTION BOXES, AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED INDUSTRY STANDARD SHALL STEEL.
15. PROVIDE PULL BOXES AND JUNCTION BOXES IN LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED, TO FULFILL REQUIREMENTS AS TO THE NUMBER OF BENDS PERMITTED IN RACEWAY BETWEEN CABLE ACCESS POINTS, THE ACCESSIBILITY OF CABLE JOINTS AND SPLICES, AND THE APPLICATION OF CABLE SUPPORTS.
16. PULL BOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED.
17. ALL EQUIPMENT, DEVICE BOXES, JUNCTION BOXES, PULL BOXES, AND OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO THE BOX. IF NECESSARY AND APPROVED BY OWNER/ENGINEER, PROVIDE ACCESS DOOR OR COVER PLATES IN AREAS WHERE UNOBSTRUCTED ACCESS IS NOT POSSIBLE.
18. OPENINGS AROUND ELECTRICAL PENETRATION THROUGH FIRE RESISTANCE RATED WALL, PARTITIONS, FLOOR OR CEILING SHALL BE FIRE STOPPED USING APPROVED METHODS. SEALANT SHALL BE RATED FOR THREE (3) HOURS.
19. FOR HEIGHTS OF OUTLETS REFER TO DETAILS SHEET. EXCEPTIONS APPLY AT JUNCTION BOXES OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE REQUIREMENTS, AS NOTED OR DIRECTED.
20. PROVIDE WEIGHTS, LOCATIONS, AND DIMENSIONS OF EQUIPMENT IN EXCESS OF 200 LBS. SUPPORTED ON FLOOR OR HUNG FROM BUILDING STRUCTURE TO BASE BUILDING STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
21. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH HVAC, PLUMBING, FIRE PROTECTION, TELECOM/AV/SECURITY, AND OTHER TRADES FOR EXACT LOCATION OF ALL MOTOR AND CONTROL DEVICES, BACK BOXES, AND CONDUIT REQUIREMENTS. LOCATIONS AS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE.
22. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH WEATHERPROOF DIE CAST ALUMINUM LOCAKBLE "WHILE IN USE" COVERS.
23. ALL FIRE ALARM NOTIFICATION APPLIANCES SHALL BE "RED."

ELECTRICAL LIGHTING NOTES

A. FOR EXACT ELEVATION, LOCATION, QUANTITY AND SPECIFICATIONS OF LIGHTING FIXTURES AND SWITCHES REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH ARCHITECT IN THE FIELD.

B. LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH FIXTURE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.

C. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.

D. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.

E. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.

F. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.

G. ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH DEDICATED NEUTRAL CONDUCTOR.

H. ALL LIGHT FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK CAPABLE OF FULL LIGHT OUTPUT FOR MINIMUM 90 MINUTES.

I. EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELLS AND TIMECLOCKS WITH A MANUAL OVERRIDE SWITCHES LOCATED IN ELECTRICAL ROOMS.

ELECTRICAL DEMOLITION NOTES

1. GENERAL
   - 1.1. SEE HVAC DRAWINGS FOR HVAC EQUIPMENT TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.
   - 1.2. SEE PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT TO BE REMOVED.
   - 1.3. FOR EQUIPMENT TO BE REMOVED DISCONNECT POWER AND REMOVED CONDUIT/WIRING BACK TO PANEL.
   - 1.4. REMOVE ALL DRYWALL MOUNTED DUPLEX RECEPTACLES AND ASSOCIATED CIRCUITING. WHERE OUTLETS ARE REMOVED AND THROUGH CIRCUITING SERVE OTHER OUTLETS BEYOND THE DEMOLITION AREA, RESTORE OR MAINTAIN THROUGH CIRCUITING.
   - 1.5. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO BUNDLE, NEATEN, AND CLEAN UP EXISTING LOOSE CABLING INCLUDING BUT NOT LIMITED TO LOW VOLTAGE CABLING, FIRE ALARM CABLING, ETC. WHERE CEILINGS ARE EXPOSED, CONTRACTOR SHALL REINSTALL ALL EXISTING CABLING IN EMT CONDUIT AS CLOSE TO UNDERSIDE OF STRUCTURE AS POSSIBLE.
   - 1.6. REMOVE ALL CLIPS AND HANGERS FROM CEILING SLAB AND REPAIR IF REQUIRED.
2. EXISTING CONDUIT
   - 2.1. THIS CONTRACTOR SHALL REMOVE ALL WALL CONDUITS, BOXES, CEILING CONDUITS LEFT AFTER WALL DEMOLITION. REMOVE ALL WIRING BACK TO EXISTING PANELS.
3. EXISTING ELECTRICAL PANELS
   - 3.1. CONTRACTOR SHALL USE CARE IN DISCONNECTING WIRING FROM PANELS AND CIRCUIT BREAKERS. CAREFULLY STORE ALL PANEL COVERS AS CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE USABLE PANEL INSTALLATION.
4. EXISTING LIGHTING FIXTURES
   - 4.1. REMOVE ALL ASSOCIATED CONDUIT, WIRE, SWITCHES, BOXES ASSOCIATED WITH EQUIPMENT TO BE REMOVED.
   - 4.2. DISCONNECT POWER AND REMOVE CONDUIT/WIRING BACK TO PANEL FOR EQUIPMENT TO BE REMOVED.
5. EXISTING FIRE ALARM
   - 5.1. NO EXISTING SMOKE DETECTOR, PUBLIC ADDRESS SPEAKER, FIRE ALARM BOX OR SIMILAR SERVICES INCLUDING THE ASSOCIATED WIRING SHALL BE DAMAGED DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION.
   - 5.2. NO ACTIVE SMOKE DETECTOR SHALL BE COVERED OR OTHERWISE RENDERED INEFFECTIVE FOR ITS INTENDED PURPOSE.
   - 5.3. ALL ACTIVE SMOKE DETECTION, PUBLIC ADDRESS AND FIRE ALARM SYSTEM SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. ANY DAMAGES TO THESE SYSTEMS AS A RESULT OF CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND CONSTRUCTION MANAGER.
   - 5.4. DURING DEMOLITION WORK CONTRACTOR IS TO PROTECT FIRE ALARM DEVICES AGAINST DUST AND OTHER PARTICLES.
6. TEMPORARY LIGHTING AND POWER
   - 6.1. FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL POWER TOOLS FOR THE PROJECT.
   - 6.2. MAINTAIN THE SYSTEM IN GOOD AND ADEQUATE WORKING CONDITIONS AT ALL TIMES.
   - 6.3. FURNISH AND INSTALL ALL LAMPS, BREAKERS, AND FUSING, AS IS NECESSARY.
   - 6.4. REPLACE BURNED OUT LAMPS, DEFECTIVE BREAKERS, OR BLOWN FUSES.
   - 6.5. TEMPORARY MAINTENANCE FOR THE ABOVE SHALL BE BASED ON OPERATION 1/2 HOUR BEFORE START OF FIRST TRADE THROUGH 1/2 HOUR AFTER END OF LAST TRADE NORMAL WORK DAY.
   - 6.6. TEMPORARY LIGHT AND POWER SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND AUTHORITIES HAVING JURISDICTION.

ELECTRICAL POWER NOTES

A. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND ARCHITECT IN FIELD FOR EXACT LOCATION, QUANTITY AND ELEVATION OF POWER AND TELEPHONE/DATA OUTLETS PRIOR TO INSTALLATION.

B. RECEPTACLES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH DEVICE. CIRCUITRY MAY BE SHOWN IN CERTAIN INSTANCES.

C. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.

D. EXACT LOCATIONS FOR ALL MECHANICAL EQUIPMENT SHALL BE DETERMINED FROM THE MECHANICAL DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR IN FIELD.

E. WHERE APPLICABLE, RUN 1" EMPTY CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING WITH GROMMET END FITTINGS FOR TELEPHONE/DATA & PROVIDE DRAG LINES FOR PULLING CABLE.

F. COORDINATE THE HARDWARE REQUIREMENTS FOR THE DOORS WITH THE ARCHITECT & SECURITY CONSULTANT PRIOR TO INSTALLATION (I.E. ELECTRIC HINGES, CARD READERS, ELECTRIC STRIKES, MAGNETIC SWITCHES, POWER SUPPLIES, ETC.) PROVIDE A BACKBOX WITH 1" CONDUIT WITH DRAG LINES STUBBED UP ABOVE CEILING FOR ALL LOW VOLTAGE DEVICES SUCH AS CARD READERS, MAGNETIC LOCKS, ELECTRIC LOCKSET, ELECTRIC STRIKE, ETC.

G. ALL BRANCH CIRCUIT HOME RUNS SHALL BE 2#12 & 1#12 GND IN 3/4" CONDUIT IN LOCATIONS PERMITTED PER PROJECT SPECIFICATIONS TO PANEL & CIRCUIT INDICATED. MAXIMUM OF THREE HOME RUNS PER CONDUIT.

H. MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO FURNITURE PARTITIONS SHALL BE PROVIDED WITH MEANS TO DISCONNECT POWER SIMULTANEOUSLY.

I. ELECTRICAL CONTRACTOR SHALL PROVIDE A BACKBOX AND 1" EMPTY CONDUIT WITH DRAG LINE FOR ALL IN-WALL WIRED KEYPADS AND TOUCHSCREENS.

J. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS, PLUMBING DRAWINGS, AND COORDINATE WITH MECHANICAL CONTRACTOR AND PLUMBING CONTRACTOR FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE DISCONNECT SWITCHES AND CIRCUITING SIZED PER THEIR EQUIPMENT SCHEDULES.

K. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH AUDIO/VISUAL, TELECOM, AND SECURITY DRAWINGS AND CONTRACTORS FOR ANY ADDITIONAL BACKBOX, CONDUIT, AND POWER REQUIREMENTS.

L. ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE VOLTAGE, PHASE, AND HORSEPOWER OF ALL ELECTRICAL EQUIPMENT PURCHASED AND SUPPLIED TO THE SITE. ELECTRICAL CONTRACTOR SHALL SUPPLY FUSES OR CIRCUIT BREAKERS PER MANUFACTURER'S RECOMMENDATIONS WHERE NECESSARY.

M. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE TYPEWRITTEN PANEL SCHEDULE DIRECTORY IN ANY PANEL UNDERGOING WORK AT PROJECT COMPLETION OF ALL CIRCUITS UTILIZED, IDENTIFYING THE LOADS THAT THEY ARE SERVING.

N. ALL JUNCTION BOXES AND DISCONNECT SWITCH LOCATIONS SHALL BE COORDINATED IN THE FIELD. JUNCTION BOXES AND DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT ABOVE CEILINGS SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE FROM ACCESS PANELS. COORDINATE WITH MECHANICAL CONTRACTOR.

O. ELECTRICAL CONTRACTOR SHALL INSTALL ALL STARTERS, AND VARIABLE FREQUENCY DRIVES (FURNISHED BY MECHANICAL CONTRACTOR) AND PROVIDE CONDUIT AND WIRING TO AND FROM STARTERS AND VFDs TO MECHANICAL EQUIPMENT AND/OR ITS ASSOCIATED DISCONNECT SWITCHES. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS AND REQUIREMENTS.

FIRE ALARM COORDINATION NOTES

1. ALL FIRE ALARM WORK SHALL BE UNDER THE ELECTRICAL CONTRACT.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER REQUIREMENTS TO FIRE ALARM EQUIPMENT-DEVICES REGARDLESS IF ONLY INDICATED ON FA-DRAWINGS.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WIRING OF EQUIPMENT-DEVICES FURNISHED AND/OR INSTALLED BY OTHER DIVISIONS ASSOCIATED WITH THE FA SYSTEM.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE INTERFACES-CONNECTIONS TO EQUIPMENT PROVIDED BY OTHER DIVISIONS ASSOCIATED WITH THE FA SYSTEM.
5. REFER TO FIRE ALARM DRAWINGS/SPECS FOR ADDITIONAL COORDINATION REQUIREMENTS.

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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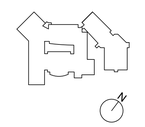
KEY PLAN



PROJECT NO. 66-03-01-03-0-001-024

MEMASI PROJECT NO. 102-2301

ELECTRICAL GENERAL NOTES

HS E002

11/4/2024 4:38 PM Guido, Raphael U:\22303082P\D_WORKING_FILES\02_MEP\02_CAD\PHASE_4_EUFSD_M5_H5_#829_#2430\SHEETS\22303082P_PHASE4_H5_E001_E002.DWG

ELECTRICAL DEMOLITION PLAN NOTES:

1. WITHIN NOTED AREA ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONDUIT WIRING BACK TO SOURCE. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT THAT IS EXISTING TO REMAIN THEN REMOVE WIRE AND CONDUIT BACK TO POINT OF SPLICE. DISCONNECT AND REMOVE EXISTING WIRING TO LOCAL LIGHTING CONTROLS.
2. WITHIN NOTED AREA ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING RECEPTACLES AND ASSOCIATED CONDUIT WIRING BACK TO SOURCE. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT THAT IS EXISTING TO REMAIN THEN REMOVE WIRE AND CONDUIT BACK TO POINT OF SPLICE
3. WITHIN NOTED AREA ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING ALL ASSOCIATED CONDUIT AND WIRE TO ALL DEMOLISHED MECHANICAL EQUIPMENT (WHERE INDICATED ON MECHANICAL DRAWINGS) BACK TO SOURCE.
4. WITHIN NOTED AREA ELECTRICAL CONTRACTOR SHALL MAINTAIN AND TEMPORARILY SUPPORT EXISTING FIRE ALARM DEVICES AS REQUIRED.
5. ELECTRICAL CONTRACTOR SHALL DOCUMENT EXISTING CIRCUITS FREED DURING DEMOLITION FOR RE-USE DURING CONSTRUCTION

ELECTRICAL CONSTRUCTION NOTES:

1. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL LIGHTING FIXTURES AND ASSOCIATED CONTROLS. LIGHTING CONTROLS SHALL INCLUDE A ROOM CONTROLLER WITH LOW VOLTAGE WIRING TO EXISTING CENTRAL LIGHTING CONTROL SYSTEM. PROVIDE CIRCUIT WIRING AND CONDUIT FROM ORIGINAL LIGHTING FIXTURE SOURCE AND WIRE THROUGH ROOM CONTROLLER AS REQUIRED.
2. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL RECEPTACLES AT EXISTING LOCATIONS WITH A DEDICATED CIRCUIT BACK TO EXISTING SOURCE.
3. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A DEDICATED CIRCUIT TO MECHANICAL EQUIPMENT (WHERE INDICATED ON MECHANICAL DRAWINGS) BACK TO EXISTING SOURCE.
4. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A DEDICATED HARDWIRED CIRCUIT TO HAND DRYER BACK TO EXISTING SOURCE.
5. ELECTRICAL CONTRACTOR TO PROVIDE TYPE WRITTEN PANEL SCHEDULES TO INCLUDE ANY MODIFICATIONS TO EXISTING CIRCUITS AT EXISTING PANEL.
6. ELECTRICAL CONTRACTOR TO REINSTALL EXISTING FIRE ALARM DEVICES TO FINISHED SURFACES AND TEST DEVICES AS REQUIRED. ALLOW FOR THE INSTALLATION OF BOXES AND WIRING AS REQUIRED WHERE EXISTING DEVICE LOCATION IS MOVED TO ACCOMMODATE PROPOSED ARCHITECTURAL LAYOUT.

ELECTRICAL PLAN - BASEMENT
1/16" = 1'-0"

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EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

HIGH SCHOOL

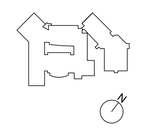
ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

KEY PLAN



PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

ELECTRICAL PLAN - BASEMENT

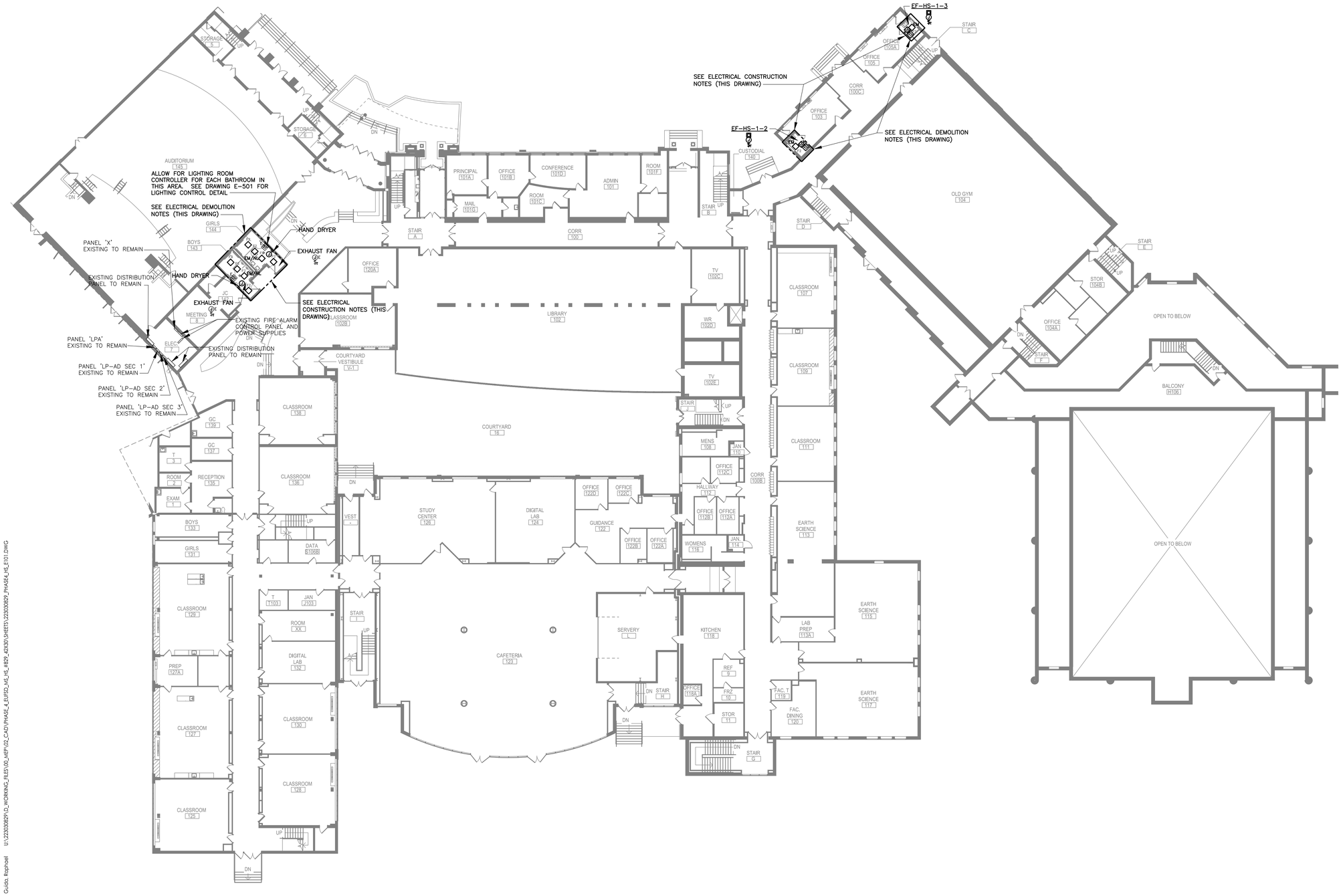
HS E100

ELECTRICAL DEMOLITION PLAN NOTES:

1. WITHIN NOTED AREA ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONDUIT WIRING BACK TO SOURCE. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT THAT IS EXISTING TO REMAIN THEN REMOVE WIRE AND CONDUIT BACK TO POINT OF SPLICE. DISCONNECT AND REMOVE EXISTING WIRING TO LOCAL LIGHTING CONTROLS.
2. WITHIN NOTED AREA ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING RECEPTACLES AND ASSOCIATED CONDUIT WIRING BACK TO SOURCE. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT THAT IS EXISTING TO REMAIN THEN REMOVE WIRE AND CONDUIT BACK TO POINT OF SPLICE
3. WITHIN NOTED AREA ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING ALL ASSOCIATED CONDUIT AND WIRE TO ALL DEMOLISHED MECHANICAL EQUIPMENT (WHERE INDICATED ON MECHANICAL DRAWINGS) BACK TO SOURCE.
4. WITHIN NOTED AREA ELECTRICAL CONTRACTOR SHALL MAINTAIN AND TEMPORARILY SUPPORT EXISTING FIRE ALARM DEVICES AS REQUIRED.
5. ELECTRICAL CONTRACTOR SHALL DOCUMENT EXISTING CIRCUITS FREED DURING DEMOLITION FOR RE-USE DURING CONSTRUCTION

ELECTRICAL CONSTRUCTION NOTES:

1. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL LIGHTING FIXTURES AND ASSOCIATED CONTROLS. LIGHTING CONTROLS SHALL INCLUDE A ROOM CONTROLLER WITH LOW VOLTAGE WIRING TO EXISTING CENTRAL LIGHTING CONTROL SYSTEM. PROVIDE CIRCUIT WIRING AND CONDUIT FROM ORIGINAL LIGHTING FIXTURE SOURCE AND WIRE THROUGH ROOM CONTROLLER AS REQUIRED.
2. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL RECEPTACLES AT EXISTING LOCATIONS WITH A DEDICATED CIRCUIT BACK TO EXISTING SOURCE.
3. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL RECEPTACLES AT EXISTING LOCATIONS WITH A DEDICATED CIRCUIT BACK TO EXISTING SOURCE.
4. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A DEDICATED CIRCUIT TO MECHANICAL EQUIPMENT (WHERE INDICATED ON MECHANICAL DRAWINGS) BACK TO EXISTING SOURCE.
5. WITHIN NOTED AREA ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A DEDICATED HARDWIRED CIRCUIT TO HAND DRYER BACK TO EXISTING SOURCE AT MULTI-OCCUPANT RESTROOMS ONLY.
6. ELECTRICAL CONTRACTOR TO PROVIDE TYPE WRITTEN PANEL SCHEDULES TO INCLUDE ANY MODIFICATIONS TO EXISTING CIRCUITS AT EXISTING PANEL.
7. ELECTRICAL CONTRACTOR TO REINSTALL EXISTING FIRE ALARM DEVICES TO FINISHED SURFACES AND TEST DEVICES AS REQUIRED. ALLOW FOR THE INSTALLATION OF BOXES AND WIRING AS REQUIRED WHERE EXISTING DEVICE LOCATION IS MOVED TO ACCOMMODATE PROPOSED ARCHITECTURAL LAYOUT.



ELECTRICAL PLAN - FIRST FLOOR
1/16" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
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NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

KEY PLAN

PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

ELECTRICAL PLAN - FIRST FLOOR

HS E101

11/4/2024 4:59 PM Guido, Raphael U:\225035829\CD_WORKING_FILES\00_MEP\02_CAD\PHASE_4_EUFSD_MS_HS_#829_42X30\SHEETS\225035829_PHASE4_HS_E101.DWG

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DLM RULES & BEST PRACTICES

DLM INSIDE THE ROOM

- Always power Room Controllers with a constant hot (unswitched) circuit.
- Use WS LMRJ-xx Cat 5e cables for reliable communication.
- No more than 4 total 100 series room controllers (RCs) LMRC-10x / LMPL-101 / LMPB-100 on a DLM Cat 5e Room Network (aka IRB "In Room Bus"). Other DLM RCs and LMCPs have smart power supplies, so you can have a DLM max of 64 loads or 48 devices. (IRBs with only 100 series RCs have a max of 24 devices and 8 loads.)
- Check total mA consumption of DLM devices against total current available from all LMRCs, LMCPs & LMZCs on the Cat 5e network to a max of 800mA. LMRC-10x / LMPL-100 / LMPB-100 will not limit their 150mA current which is why their 4 unit max. Other LMRCs, LMCPs & LMZCs will limit their current on Cat 5e room network to ≤ 800mA.
- Don't overload rooms: DLM allows 150' Cat 5e (free topology) per intelligent DLM device, to a max of 1,000' per IRB. Suggest rooms have < 32 loads (and never more than 4 total 100 series RCs and < 24 DLM devices unless reviewed by Project Management.
- 2 & 3 Relay Room Controllers are for multi-level lighting or multiple zones inside a room, not multiple rooms.
- Rooms ideally should have only one "occupancy state". Multiple occupancy zones in a room are possible, but makes setup more challenging.
- LMLS units require another DLM device (LMCP, OS, etc...) to set initial On state, else set Load to "Auto On" in LMCS.
- Pay attention to all LMRC-22x warnings: 1) Don't share neutrals; 2) Don't mix dimming loads types on LMRC-222s; 3) Every dimming load type should be on separate circuits.

DLM NETWORKING (via MS/TP or "Segment Wire")

- ONLY USE WS LM-MSTP CABLE for DLM Networking.
- Only one Network Bridge per room. LMCPs and LMZCs have this device on their LMPI intelligence card.
- Do not run LM-MSTP to multiple floors (except for LMCP panel only runs). Locate LMSM-3E or a NB-ROUTER at start of all LM-MSTP runs on a network project, and ONLY ground shield there. MS/TP wire cannot exceed 4,000' and must be run in daisy chain topology to all rooms/panels. Pay close attention on how LM-MSTP connects to DLM networking devices and where terminating resistors are required (see device installation instructions and TB-179.2).
- WS Networks are defined and limited as follows:
  - BASIC: LMSM-3E with up to 3 LM-MSTP segment runs. Each segment limited to max 40 Rooms / 250 DLM devices. Integration only via LMSM Export Table.
  - ADVANCED: LMSM-6E with NB-ROUTERs and an NB-SWITCH (can connect to max 250 Rooms / 1000 DLM devices). Integration other than via Export Table is Advanced. Advanced requires WS PM review!

DLM LMCP RELAY PANEL

- Panels are basically large RCs, but DO NOT connect multiple panels with Cat 5e wire - use Network Bridges.
- Each LMCP Panel provides 2 separate Cat 5e IRB networks, each allowing max 47 DLM devices. Max loads for all relays in panel and in RCs stays max 64.
- Panels use below equivalency table when connecting to a LMSM (to calculate allowed segment room/device limits):
  - LMZC-301 panel = 1 rooms / 10 devices
  - LMCP-8 panel = 3 rooms / 20 devices
  - LMCP-24 panel = 5 rooms / 30 devices
  - LMCP-48 panel = 7 rooms / 40 devices

DIMMING COMPATIBILITY:

Contractor shall coordinate and confirm dimming compatibility of all lighting controls devices with final approved lighting fixture submittal documents. SLS shall not be held responsible for compatibility issues if not provided with all applicable approved documentation.

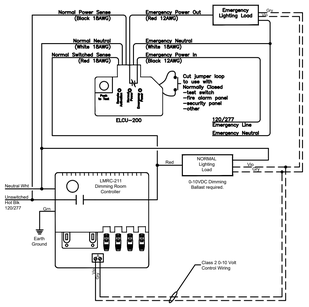
Prior to purchase and install, contractor shall coordinate and confirm an exact match between the led array, driver and controls devices. SLS cannot guarantee compatibility or performance prior to dimming type confirmation.

Prior to purchase and install, coordinate with system manufacturer for confirmation of compatibility and any required testing that may be required.a testing request with system manufacturer may be required.

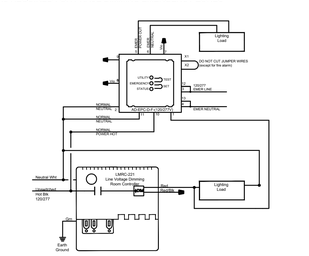
CONTRACTORS TO CONTACT ELECTRICAL DISTRIBUTORS FOR LIGHTING CONTROL SYSTEM QUOTATION / PRICING. ALL OTHER LIGHTING CONTROL SYSTEM INQUIRIES TO BE DIRECTED TOWARD PATRICK CLARKE (PCLARKE@SLSLTG.COM) AT SLS CONTROLS.

TYPICAL EMERGENCY LOAD SIDE RELAY DEVICE DETAIL

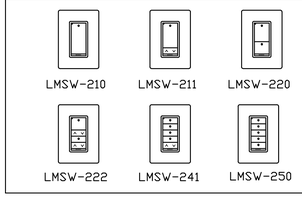
TYPICAL ELCU-200 AS REQUIRED
FOR 0-10V DIMMING AND ON/OFF SWITCHING EMERGENCY ZONES



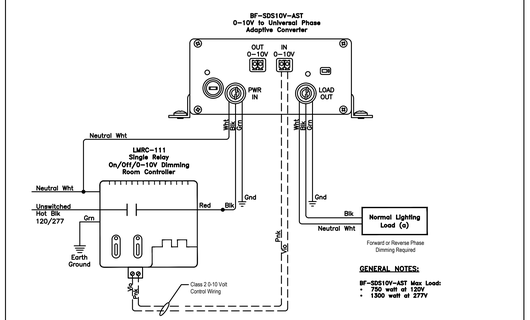
TYPICAL EPC-D-F-ATS
AS REQUIRED FOR PHASE DIMMING EMERGENCY ZONES



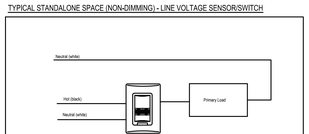
LMSW-200 SERIES KEYPAD OPTIONS



AS REQUIRED FOR FORWARD OR REVERSE PHASE DIMMING LOADS:



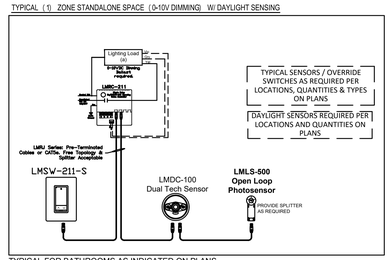
TYPICAL STANDALONE SPACE (NON-DIMMING) - LINE VOLTAGE SENSOR/SWITCH



DSW-301
DUAL-TECH OCCUPANCY SENSOR SWITCH
120VAC, 0-1000W BALLAST/DRIVER
240/277VAC, 0-1200W BALLAST/DRIVER

TO BE MOUNTED IN A 1 GANG ELECTRICAL BACKBOX
RWQ-26-TBD 1 GANG FACEPLATE

TYPICAL (1) ZONE STANDALONE SPACE (0-10V DIMMING) W/ DAYLIGHT SENSING



TYPICAL FOR BATHROOMS AS INDICATED ON PLANS

TYPICAL FOR BATHROOMS INSIDE CLASSROOMS

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
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HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
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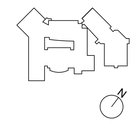

PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

ELECTRICAL LIGHTING CONTROL DIAGRAMS

HS E501

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GENERAL NOTES

1. ALL REFERENCES HEREIN TO THE CONTRACTOR SHALL REFER TO THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
2. THE ENTIRE INSTALLATION SHALL BE COORDINATED WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE EXACT LOCATION OF ALL EXISTING PLUMBING SYSTEMS PRIOR TO MAKING NEW CONNECTIONS TO EXISTING LINES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. DO NOT SCALE FROM THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK WITHIN A DISTANCE OF FIVE FEET FROM THE BUILDING PERIMETER.
5. DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
6. THE CONTRACTOR SHALL REFER TO WRITTEN SPECIFICATION IN CONJUNCTION WITH THESE DRAWINGS FOR FULL PROJECT SCOPE.
7. ANY DISCREPANCIES OR INADEQUACIES WITHIN BID DOCUMENTS, BETWEEN THESE DOCUMENTS AND RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR, AND STRUCTURAL DOCUMENTS, OR BETWEEN THESE DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
8. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, CONCEALED OR EMBEDDED PIPING, EXPOSED PIPING, PIPING CONNECTIONS, AND ACCESS PANELS/DOORS. THESE DRAWINGS SHALL INCLUDE ALL CHANGES AND DEVIATIONS FROM CONSTRUCTION DOCUMENTS.
9. THE CONTRACTOR SHALL SCHEDULE ALL WORK TO AVOID INTERFERENCE WITH FIRE PROOFING WORK.
10. THE CONTRACTOR SHALL COORDINATE ALL UNDERGROUND PIPING LOCATIONS AND INVERTS WITH ALL UTILITIES.
11. THE CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL FURNISH PLUMBING EQUIPMENT WIRED FOR THE VOLTAGES SHOWN IN CONTRACT DOCUMENTS AND COORDINATED WITH ELECTRICAL CONTRACTOR.
12. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
13. THE CONTRACTOR SHALL SUBMIT, PRIOR TO ANY FABRICATION OR INSTALLATION, ALL NECESSARY DRAWINGS, EQUIPMENT/MATERIAL PRODUCT DATA, DOCUMENTATION, AND CALCULATIONS REQUIRED TO COMPLETE THE WORK OUTLINED IN THE CONTRACT DOCUMENTS.
14. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION PRIOR TO ANY FABRICATION OR INSTALLATION. ALL FEES FOR PERMITS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL ABOVE GRADE PIPING SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE. NO PIPING SHALL REST ON CEILING TILES OR CEILING STRUCTURE.
16. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT AND IN THE MOST INCONSPICUOUS LOCATION POSSIBLE. VERTICAL DROPS SHOULD BE KEPT TO A MINIMUM AND SHOULD BE LOCATED WITHIN CHASES, WALLS, AND SOFFITS WITH OTHER MECHANICAL PIPING AND ELECTRICAL CONDUITS WHEN POSSIBLE. ALL SUCH LOCATION ARE TO BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALLATION.
17. WATER METER SHALL BE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS AND SHALL BE PROVIDED WITH REMOTE READING.
18. THE CONTRACTOR SHALL PROVIDE ALL CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS, AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
19. THE CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS AND ASSOCIATED FLASHING REQUIREMENTS WITH OTHER TRADES.
20. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING. THE CONTRACTOR SHALL PROVIDE INSULATION ON ALL HORIZONTAL STORM WATER PIPING.
21. ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN SHUTOFF VALVES INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
22. THE CONTRACTOR SHALL PROVIDE ACCESS PANELS/DOORS FOR ALL CLEANOUTS, VALVES, AND ANY OTHER EQUIPMENT LOCATED WITHIN WALLS, PARTITIONS, OR CEILINGS THAT REQUIRE ACCESS FOR MAINTENANCE AND/OR OPERATION.
23. THE CONTRACTOR SHALL INSTALL TRAP SEAL PRIMERS ON ALL FLOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE NECESSARY COLD WATER CONNECTION TO ALL TRAP SEAL PRIMERS.
24. THE CONTRACTOR SHALL PROVIDE CLEANOUTS AT THE BASE OF ALL SANITARY, WASTE, STORM, AND VENT STACKS. CLEANOUT DECK PLATES PLATES MUST ALSO BE PROVIDED ON ALL BURIED SANITARY, WASTE, AND STORM PIPING AT INTERVALS OUTLINED IN APPLICABLE CODE.
25. SUDS PRESSURE ZONE REQUIREMENTS SHALL BE MEET IN THE DESIGN OF THE SANITARY, WASTE, AND VENT SYSTEMS. NO CONNECTION SHALL BE MADE TO THE VERTICAL PORTION OF A SANITARY OR WASTE STACK WITHIN FORTY STACK DIAMETERS OF THE BASE FITTING. NO CONNECTION SHALL BE MADE TO THE HORIZONTAL OFFSET PORTION OF A SANITARY OR WASTE STACK WITHIN TEN STACK DIAMETERS OF THE BASE FITTINGS.
26. NO DRAINAGE BRANCH SHALL BE CONNECTED TO A SANITARY OR WASTE STACK WITHIN TWO FEET ABOVE OR BELOW A HORIZONTAL OFFSET EXCEPT WHERE NO OTHER DRAINAGE BRANCH IS CONNECTED TO THE STACK AT A HIGHER STORY.
27. THE CONTRACTOR SHALL PROVIDE REDUCING FITTING AT ALL CHANGES IN DIAMETER OF SANITARY, WASTE, AND STORM PIPING.
28. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO ALL EQUIPMENT AND FIXTURE INDICATED ON THE ARCHITECTURAL AND PLUMBING DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICE CONNECTIONS TO HVAC AND FIRE PROTECTION EQUIPMENT.
29. UPON COMPLETION, EXISTING SYSTEM SHALL BE IN WORKING ORDER.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL INCLUDE IN THEIR PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING PLUMBING WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL LAYOUTS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE REMOVED BACK TO ACTIVE LINES.
3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE TO FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
5. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS AS NECESSARY.
6. PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
7. THE CONTRACTOR SHALL NOTIFY THE BUILDING OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
8. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.
9. THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH THE BUILDING OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

OPENING / SLEEVE SCHEDULE

INSULATED DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING		
PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
½" & ¾"	3"	4"
1"	4"	4½"
1¼"	4"	5"
1½"	4"	5"
2" & 2½"	5"	6"
3"	6"	6½"
4"	8"	7½"
5"	8"	8½"
6"	10"	9½"
UNINSULATED SANITARY, WASTE, VENT, STORM, AND GAS PIPING		
PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
1½"	3"	3"
2"	4"	3½"
2½"	4"	4"
3"	5"	4½"
4"	6"	5½"
5"	8"	6½"
6"	8"	7½"
8"	10"	9½"
10"	12"	11½"
12"	15"	13½"
15"	18"	16½"

SYMBOL LIST

S	SANITARY/SOIL PIPING
W	WASTE PIPING
IW	INDIRECT WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	ARROW REPRESENTS DIRECTION OF FLOW
— X — X — X — X —	PIPING TO BE DEMOLISHED
	PIPE BREAK
	CAPPED OUTLET
	CLEANOUT / PLUGGED OUTLET
	CLEANOUT DECK PLATE
	P-TRAP
	PIPE DROP / DOWN
	PIPE RISE / UP
	PIPE BOTTOM CONNECTION
	PIPE TOP CONNECTION
	PIPE SIDE CONNECTION
	VACUUM BREAKER
	SHOCK ARRESTOR
	DRAIN
	TEMPERATURE GAUGE
	CHECK VALVE
	BALL VALVE
	MIXING VALVE
	SOLENOID VALVE
	STRAINER
	POINT OF DISCONNECTION FROM EXISTING PIPING
	POINT OF CONNECTION TO EXISTING PIPING

ABBREVIATIONS LIST

AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CO	CLEANOUT
CM	COFFEE MAKER
CLG	CEILING
CONN	CONNECT / CONNECTION
CONT	CONTINUE / CONTINUATION
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DW	DISHWASHER
DWG	DRAWING
EX	EXISTING
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
HC	HANDICAPPED ACCESSIBLE FIXTURE
HW	DOMESTIC HOT WATER
IW	INDIRECT WASTE
NTS	NOT TO SCALE
NFWH	NON-FREEZE WALL HYDRANT
PD	PUMP DISCHARGE
SAN	SANITARY/SOIL
SK	SINK
TYP	TYPICAL
UP	UP (PENETRATES FLOOR SLAB)
V	VENT
VB	VACUUM BREAKER
W	WASTE

PLUMBING DRAWING LIST

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- NYS EDUCATION DEPARTMENT 2022 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

PIPE, FITTING, AND JOINT MATERIAL SCHEDULE

PIPING SYSTEM	PIPING LOCATION	PIPING SIZE	PIPING SPECIFICATION	FITTING SPECIFICATION	JOINT SPECIFICATION
SANITARY/WASTE/ VENT	ABOVE GROUND	ALL	NO HUB CAST IRON	NO HUB CAST IRON	NEOPRENE RUBBER SEALING SLEEVE AND HEAVY DUTY STAINLESS STEEL CORRUGATED SHIELDS WITH A MINIMUM OF FOUR HEAVY DUTY BANDS
	BELOW GROUND	ALL	SERVICE WEIGHT HUB & SPIGOT CAST IRON	SERVICE WEIGHT HUB & SPIGOT CAST IRON	HIGH QUALITY NEOPRENE RUBBER COMPRESSION GASKET
COLD WATER/HOT WATER/ HOT WATER CIRCULATION	DISTRIBUTION	ALL	TYPE L HARD DRAWN COPPER TUBING	WROUGHT COPPER WITH SOLDER ENDS	95.5 TIN / 4.0 COPPER / 0.5 SILVER SOLDER

FIXTURE SCHEDULE

DESIGNATION	FIXTURE SPECIFICATION			SERVICE CONNECTIONS						ADDITIONAL COMMENTS
	COMPONENT	MANUFACTURER	MODEL NUMBER	S	W	IW	V	CW	HW	
WC	WATER CLOSET	KOHLER	K-4325-0	4"	–	–	2"	1"	–	– ADA COMPLIANT, WALL HUNG, ELONGATED BOWL, HIGH EFFICIENCY FLUSH VALVE TOILET. – PROVIDE 1.28 GPF HARDWIRED FLUSH VALVE. – PROVIDE OPEN FRONT SOFT CLOSE SEAT LESS COVER. – PROVIDE CHAIR CARRIER SUPPORT.
	FLUSH VALVE	SLOAN	111-1.28 SFSM							
	SEAT	KOHLER	K-4731-GC-0							
	CARRIER	JAY R. SMITH	210 SERIES							
UR	URINAL	KOHLER	K-4904-ET	2"	–	–	1-1/2""	3/4"	–	– ADA COMPLIANT, WALL HUNG, ELONGATED BOWL, HIGH EFFICIENCY FLUSH VALVE TOILET. – PROVIDE 0.125 GPF HARDWIRED FLUSH VALVE. – PROVIDE FLOOR MOUNTED URINAL SUPPORT.
	FLUSH VALVE	SLOAN	186-0.125 SFSM							
	CARRIER	JAY R. SMITH	637 SERIES							
LAV	LAVATORY (WALL MOUNT)	KOHLER	KINGSTON K-2007	–	1-1/2"	–	1-1/2"	1/2"	1/2"	– ADA COMPLIANT, WALL HUNG. RECTANGULAR LAVATORY & BASIN. COORDINATE VANITY WITH ARCHITECT. – PROVIDE CHROME PLATED BRASS LAVATORY GRID DRAIN ASSEMBLY FOR ALL TOILET ROOM LOCATION. PROVIDE OFFSET TRAP AS REQUIRED. – 0.35 GPM SENSOR TYPE HARDWIRED FAUCET. – 4" FAUCET HOLD CTRS – PROVIDE THERMOSTATIC MIXING VALVE BELOW SINK. – TRUEBRO LAVGUARD2 INSULATION KIT – PROVIDE LAVATORY SUPPORT
	FAUCET	SLOAN	EAF300							
	DRAIN	MCGUIRE MANUFACTURING	148							
	P-TRAP	MCGUIRE MANUFACTURING	V8090C							
	SUPPLY	MCGUIRE MANUFACTURING	LFBV2-170SS12							
LAV	LAVATORY (VANITY)	SLOAN	QSGR-81000	–	1-1/2"	–	1-1/2"	1/2"	1/2"	– ADA COMPLIANT, WALL HUNG. RECTANGULAR LAVATORY & BASIN. – PROVIDE CHROME PLATED BRASS LAVATORY GRID DRAIN ASSEMBLY FOR ALL TOILET ROOM LOCATION. PROVIDE OFFSET TRAP AS REQUIRED. – 0.35 GPM SENSOR TYPE HARDWIRED FAUCET. – 4" FAUCET HOLD CTRS – PROVIDE THERMOSTATIC MIXING VALVE BELOW SINK. – TRUEBRO LAVGUARD2 INSULATION KIT – PROVIDE LAVATORY SUPPORT
	FAUCET	SLOAN	EAF300							
	DRAIN	MCGUIRE MANUFACTURING	148							
	P-TRAP	MCGUIRE MANUFACTURING	V8090C							
	SUPPLY	MCGUIRE MANUFACTURING	LFBV2-170SS12							
SH	SHOWER STALL	REFER TO ARCH. DWGS.	REFER TO ARCH. DWGS.	–	1-1/2"	–	1-1/2"	1/2"	1/2"	– CURTAIN ROD (AS REQUIRED), GRID STRAINER DRAIN. – PROVIDE TEMPERATURE & PRESSURE BALANCE MIXING VALVE W/ LEVER HANDLE, INTEGRAL SERVICE STOPS & ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. SET HIGH TEMPERATURE LIMIT STOP TO 110 DEGREES. – PROVIDE COLLAPSIBLE NEOPRENE WATER DAMN W/ END CAPS & SELF ADHESIVE BACK : AQARIOUS MODEL NO : 1THR132.
	SHOWER SYSTEM TRIM	SYMMONS	ALLURA 4701-TRMTC							
	DRAIN & P-TRAP	JR SMITH	2030T-A06CP-U							

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD AND ADA FIXTURE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND DETAILS.
2. INSTALL PRE-FORMED INSULATION COVER FOR ALL EXPOSED SUPPLY AND DRAINAGE PIPING SERVING ADA COMPLIANT LAVATORIES AND SINKS MANUFACTURED BY TRUEBRO, PLUMBEREX, HANDYSHIELD.
3. PLUMBING FIXTURE SHALL HAVE CHROME PLATED SUPPLIES, STOPS, ESCUTCHEON COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAINS CONNECTION, SHOWER DRAIN & TAILPIECE ASSEMBLIES SHALL BE CHROME PLATED BRASS, (IN LOCATIONS WHERE PIPING IS TO BE COVERED W/ INSULATION, BRASS FINISHES ONLY SHOULD ONLY BE SUBSTITUTED.)
4. GRID STRAINER/BASKET STRAINER & TAILPIECE SHALL BE STAINLESS STEEL WHERE SERVING STAINLESS STEEL FIXTURES
5. WATER CLOSET/TOILET SEATS SHALL BE OF SMOOTH NON ABSORBENT MATERIAL: ALL SEATS TO BE HINGED OPEN FRONT TYPE W/ STAINLESS STEEL HINGE & HARDWARE. (COORDINATE SEAT COLOR WITH ARCHITECT)
6. PROVIDE FIXTURES WITH COMPATIBLE CARRIER AND/OR FACTORY FURNISHED WALL HANGER/SUPPORT BRACKET ASSEMBLY UNLESS OTHERWISE INDICATED.
7. PLUMBING FIXTURES (VITREOUS CHINA & SOLID SURFACE) SHALL BE WHITE IN COLOR UNLESS OTHERWISE INDICATED.

DRAIN SCHEDULE

DESIGNATION	MANUFACTURER	MODEL NUMBER	DRAIN BODY SPECIFICATION									STRAINER SPECIFICATION															APPLICABLE AREAS
			BRONZE	CAST IRON	GALVANIZED	STAINLESS STEEL	CLAMPING DEVICE	SECONDARY CLAMP	SUMP RECEIVER	ACID RESISTANT COATING	TRAP PRIMER CONNECTION	BRONZE	CAST IRON	GALVANIZED	NICKEL BRONZE	STAINLESS STEEL	CHROME PLATED	POLISHED FINISH	SATIN FINISH	SECONDARY STRAINER	SEDIMENT BUCKET	LESS GRATE	HALF GRATE	FLUSH GRATE	TRACTOR GRATE	SQUARE TOP	FUNNEL TOP	DOME	EXTENSION	ADJUSTABLE	
FD	JAY R. SMITH	2010		●						●	●				●						●		●							●	RESTROOMS

NOTES:

1. ALL FLOOR DRAINS IN FINISHED AREAS SHALL BE LOCATED AS PER THE ARCHITECTURAL DRAWINGS.
2. THE CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF THE DRAINS WITH THE APPROVED WATER PROOFING SYSTEMS PRIOR TO SUBMITTING SHOP DRAWINGS.
3. THE TOP OF ALL FLOOR DRAINS SHALL BE FLUSH WITH THE ADJACENT FINISHED FLOOR.
4. PROVIDE BARRIER TYPE SEAL TRAP GUARDS ON ALL FLOOR DRAINS UNLESS OTHERWISE NOTED.

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

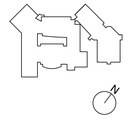
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

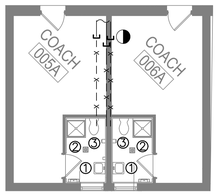
KEY PLAN



PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

PLUMBING COVER SHEET

HS P001

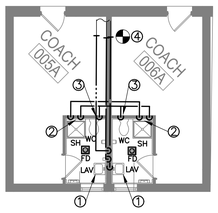


PLUMBING REMOVALS KEYNOTES LEGEND

1. EXISTING LAVATORY TO BE REMOVED. EXISTING HW, HWR & CW TO BE REMOVED WITHIN TOILET ROOM. EXISTING SAN TO BE CUT & CAPPED AT WALL FOR FUTURE RECONNECTION. EXISTING VENT TO REMAIN. VERIFY EXACT PIPING LOCATIONS IN FIELD.
2. EXISTING SHOWER TO BE REMOVED. EXISTING HW, HWR & CW TO BE REMOVED WITHIN TOILET ROOM. EXISTING SAN PIPING TO BE CUT & CAPPED AT TAKE–OFF FROM MAIN. EXISTING VENT TO BE CUT & CAPPED WITHIN WALL FOR FUTURE RECONNECTION. VERIFY EXACT PIPING LOCATIONS IN FIELD.
3. EXISTING FLOOR MOUNT WATER CLOSET TO BE REMOVED. EXISTING CW TO BE REMOVED WITHIN TOILET ROOM. EXISTING SAN TO BE CUT & CAPPED AT TAKE–OFF FROM MAIN. EXISTING VENT PIPING TO BE CUT & CAPPED WITHIN WALL FROM FUTURE RECONNECTION. VERIFY EXACT PIPING LOCATIONS IN FIELD.

ENLARGED PLUMBING REMOVALS PLAN - ROOM 005A/006A

1/8" = 1'-0"

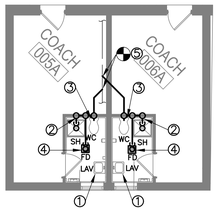


PLUMBING DOMESTIC WATER KEYNOTES LEGEND

1. NEW LAVATORY TO BE INSTALLED. NEW ½" HW, ½" HWR, AND ½" CW DROP. NEW THERMOSTATIC MIXING VALVE TO BE PROVIDED. VERIFY EXACT PIPING LOCATIONS IN FIELD.
2. NEW SHOWER TO BE INSTALLED. NEW ¾" HW & ¾" CW DROP. NEW THERMOSTATIC MIXING VALVE TO BE PROVIDED. VERIFY EXACT PIPING LOCATIONS IN FIELD.
3. NEW WALL HUNG WATER CLOSET TO BE INSTALLED. NEW 1¼" CW DROP. VERIFY EXACT PIPING LOCATIONS IN FIELD.
4. NEW CONNECTION TO EXISTING PIPING – 2" CW, 1" HW, ¾" HWR. VERIFY EXACT LOCATION IN FIELD.

ENLARGED PLUMBING DOMESTIC WATER PLAN - ROOM 005A/006A

1/8" = 1'-0"



PLUMBING DOMESTIC WATER KEYNOTES LEGEND

1. NEW LAVATORY TO BE INSTALLED. NEW 1–1/2" WASTE TO BE CONNECTED TO EXISTING SAN CAPPED OUTLET. OFFSET AS REQUIRED. VERIFY EXACT PIPING LOCATIONS IN FIELD.
2. NEW SHOWER TO BE INSTALLED. NEW 1½" WASTE. NEW 1½" VENT. NEW VENT SHALL BE CONNECTED TO EXISTING VENT PIPING WITHIN WALL. VERIFY EXACT PIPING LOCATIONS IN FIELD.
3. NEW WALL HUNG WATER CLOSET TO BE INSTALLED. NEW 4" SAN. NEW 2" VENT. NEW VENT SHALL BE CONNECTED TO EXISTING VENT PIPING WITHIN WALL. VERIFY EXACT PIPING LOCATIONS IN FIELD.
4. NEW FLOOR DRAIN TO BE INSTALLED. NEW 3" SAN. NEW 1½" VENT. NEW VENT SHALL BE CONNECTED TO EXISTING VENT PIPING WITHIN WALL. BARRIER TYPE TRAP SEAL SHALL BE PROVIDED. VERIFY EXACT LOCATION IN FIELD.
5. NEW 4" SAN SHALL CONNECT TO EXISTING SAN MAIN. VERIFY EXACT LOCATION IN FIELD.

ENLARGED PLUMBING SANITARY & VENT PLAN - ROOM 005A/006A

1/8" = 1'-0"

DEMOLITION GENERAL NOTES – CUTTING AND PATCHING:

A. WHERE EXISTING EQUIPMENT, PLUMBING FIXTURES, AND PIPES THROUGH EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS ARE REMOVED BY THE PLUMBING CONTRACTOR, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INFILLING AND REPAIRING OPENINGS TO MATCH EXISTING CONSTRUCTION, INCLUDING FIRE RATING, SMOKE RATING, INSULATION VALUE, MOISTURE BARRIER, PAINTING, AND GENERAL FINISH APPEARANCE. WHERE SURFACE–MOUNTED COMPONENTS AND FINISHES ARE REMOVED, REPAIR SURFACE FINISHES TO MATCH EXISTING.

B. PLUMBING CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE PLUMBING REMOVALS SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

GENERAL NOTES – PIPING:

A. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

B. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

C. ALL NEW AND EXISTING INSULATED PIPING EXPOSED TO VIEW IN FINISHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

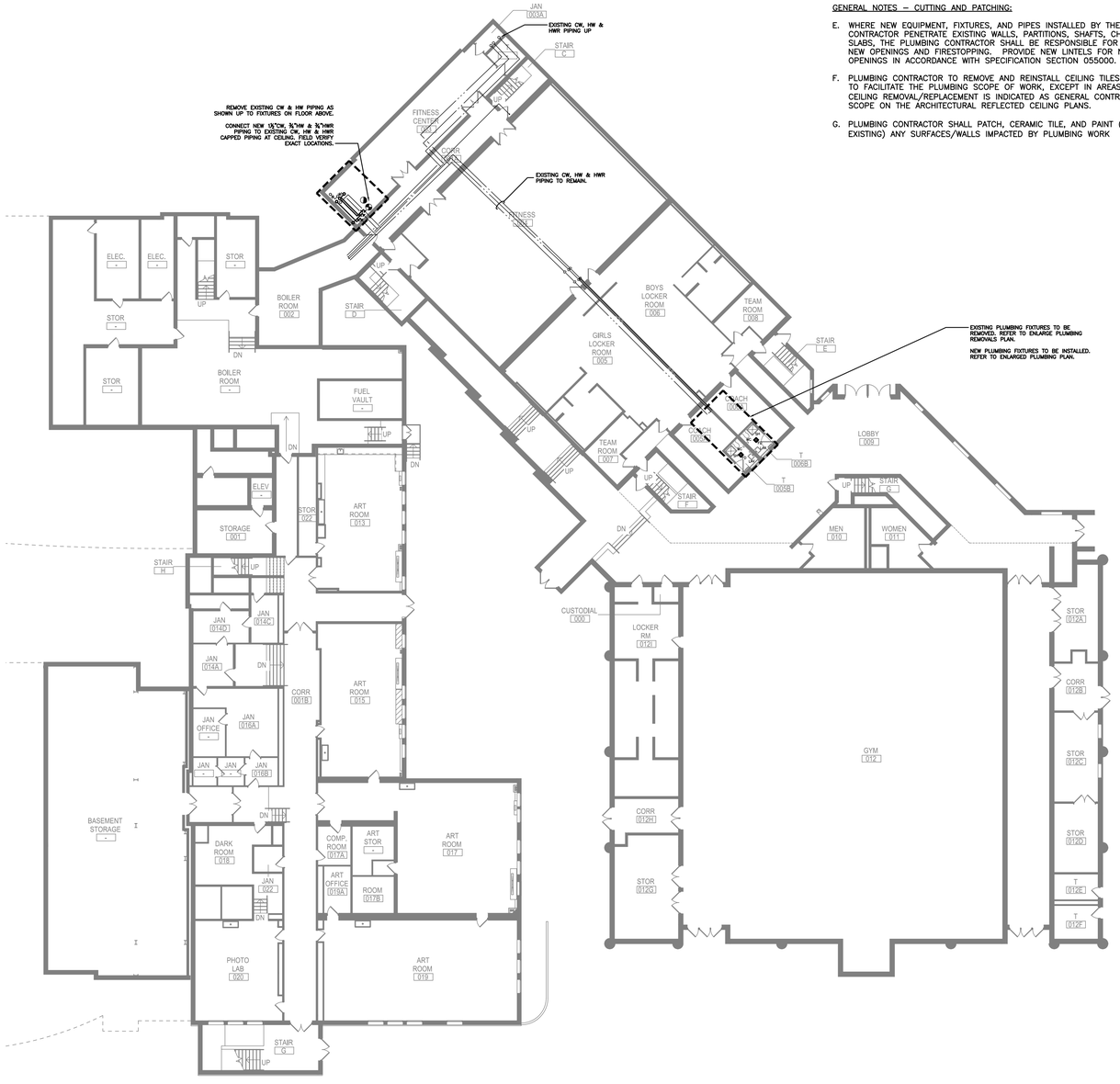
D. WHERE INSULATION WILL BE REMOVED FROM EXISTING–TO–REMAIN PIPING DURING ASBESTOS ABATEMENT, THE PLUMBING CONTRACTOR SHALL RE–INSULATE EXISTING–TO–REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES.

GENERAL NOTES – CUTTING AND PATCHING:

E. WHERE NEW EQUIPMENT, FIXTURES, AND PIPES INSTALLED BY THE PLUMBING CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

F. PLUMBING CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE PLUMBING SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

G. PLUMBING CONTRACTOR SHALL PATCH, CERAMIC TILE, AND PAINT (TO MATCH EXISTING) ANY SURFACES/WALLS IMPACTED BY PLUMBING WORK



PLUMBING PLAN - BASEMENT

1/16" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

HIGH SCHOOL

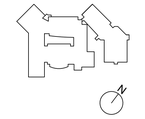
ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

KEY PLAN



PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

PLUMBING PLAN - BASEMENT

HS P100

DEMOLITION GENERAL NOTES – CUTTING AND PATCHING:

A. WHERE EXISTING EQUIPMENT, PLUMBING FIXTURES, AND PIPES THROUGH EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS ARE REMOVED BY THE PLUMBING CONTRACTOR, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INFILLING AND REPAIRING OPENINGS TO MATCH EXISTING CONSTRUCTION, INCLUDING FIRE RATING, SMOKE RATING, INSULATION VALUE, MOISTURE BARRIER, PAINTING, AND GENERAL FINISH APPEARANCE. WHERE SURFACE-MOUNTED COMPONENTS ARE REMOVED, REPAIR SURFACE FINISHES TO MATCH EXISTING.

B. PLUMBING CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE PLUMBING REMOVALS SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

GENERAL NOTES – PIPING:

A. ALL PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.

B. DO NOT INSTALL PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.

C. ALL NEW AND EXISTING INSULATED PIPING EXPOSED TO VIEW IN FINSHED SPACES SHALL BE PROVIDED WITH PVC JACKETS.

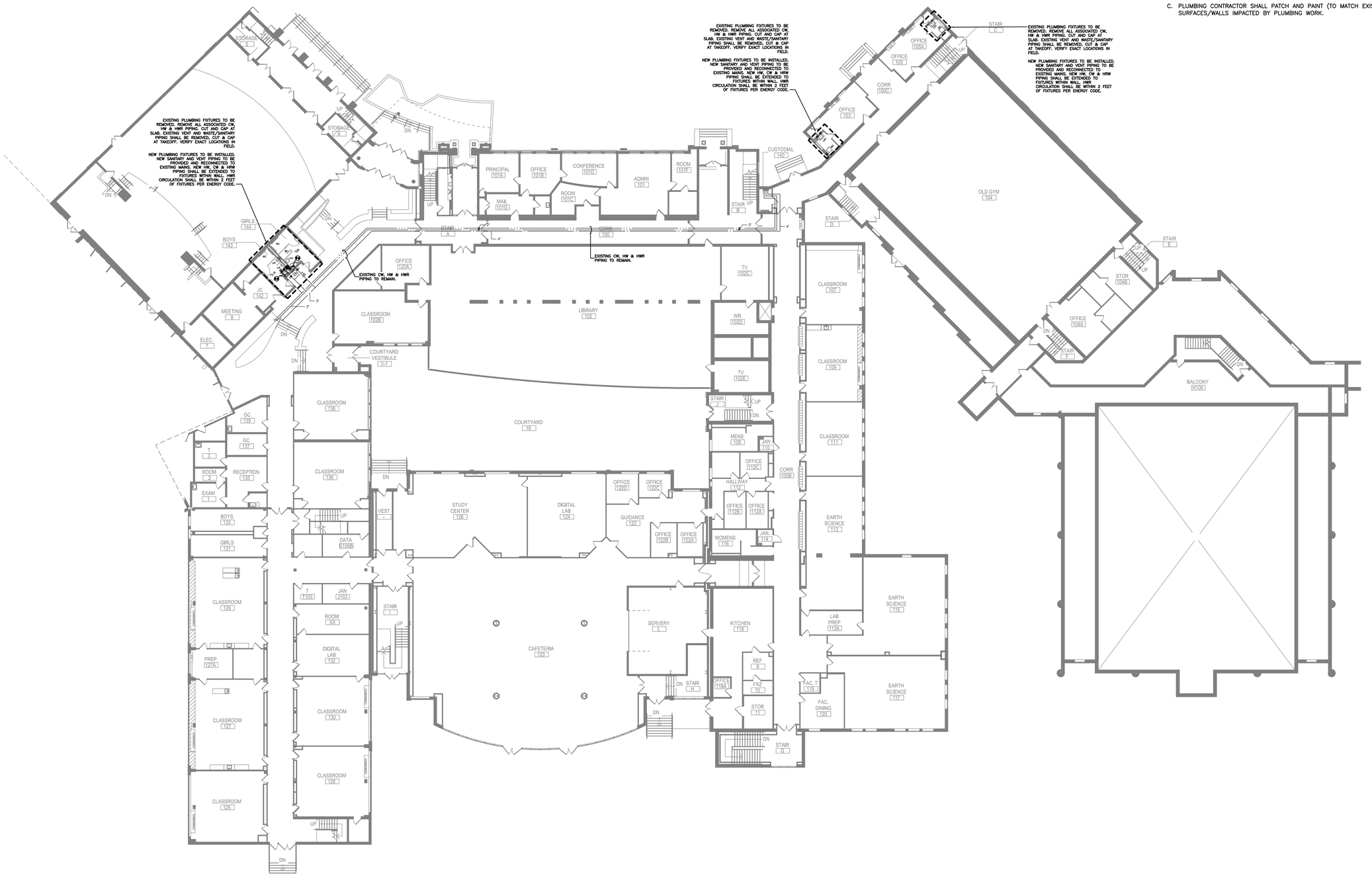
D. WHERE INSULATION WILL BE REMOVED FROM EXISTING-TO-REMAIN PIPING DURING ASBESTOS ABATEMENT, THE PLUMBING CONTRACTOR SHALL RE-INSULATE EXISTING-TO-REMAIN PIPING AS PER THE SPECIFICATION, INCLUDING BUT NOT LIMITED TO STRAIGHT PIPE INSULATION, FITTINGS, ELBOWS, AND VALVE COVERS. REFER TO THE HAZMAT DRAWINGS FOR LOCATIONS AND QUANTITIES

GENERAL NOTES – CUTTING AND PATCHING:

A. WHERE NEW EQUIPMENT, FIXTURES, AND PIPES INSTALLED BY THE PLUMBING CONTRACTOR PENETRATE EXISTING WALLS, PARTITIONS, SHAFTS, CHASES, AND SLABS, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING NEW OPENINGS AND FIRESTOPPING. PROVIDE NEW LINTELS FOR NEW OPENINGS IN ACCORDANCE WITH SPECIFICATION SECTION 055000.

B. PLUMBING CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS NEEDED TO FACILITATE THE PLUMBING SCOPE OF WORK, EXCEPT IN AREAS WHERE CEILING REMOVAL/REPLACEMENT IS INDICATED AS GENERAL CONTRACTOR BASE SCOPE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

C. PLUMBING CONTRACTOR SHALL PATCH AND PAINT (TO MATCH EXISTING) ANY SURFACES/WALLS IMPACTED BY PLUMBING WORK.



PLUMBING PLAN - FIRST FLOOR
1/8" = 1'-0"

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT PHASE 4

HIGH SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

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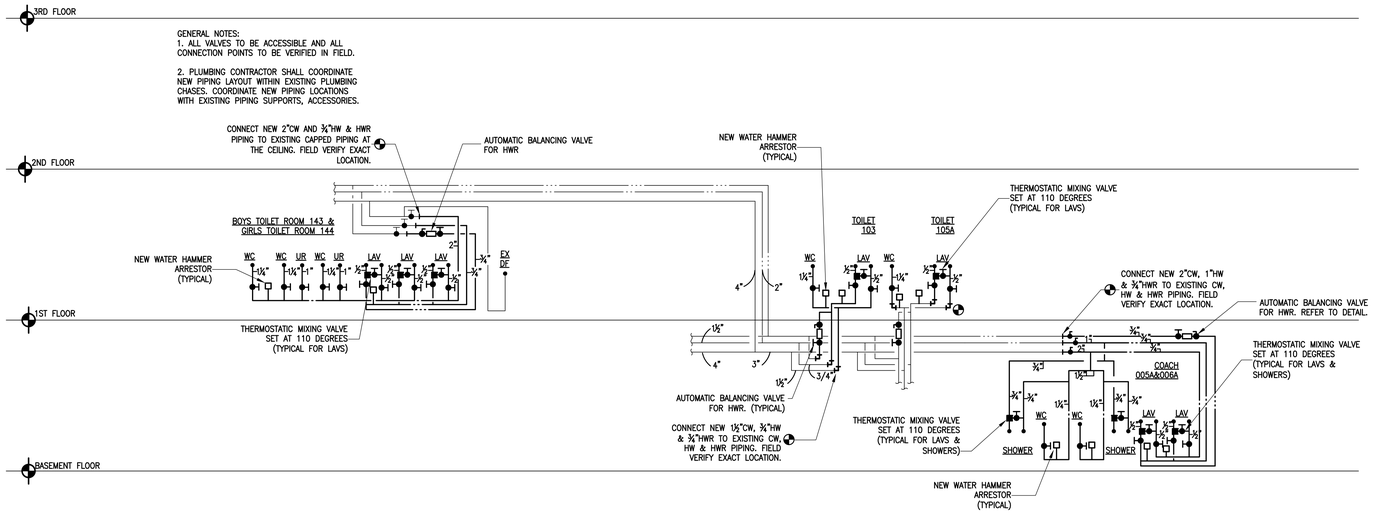
KEY PLAN

PROJECT NO. 66-03-01-03-0-001-024
MEMASI PROJECT NO. 102-2301

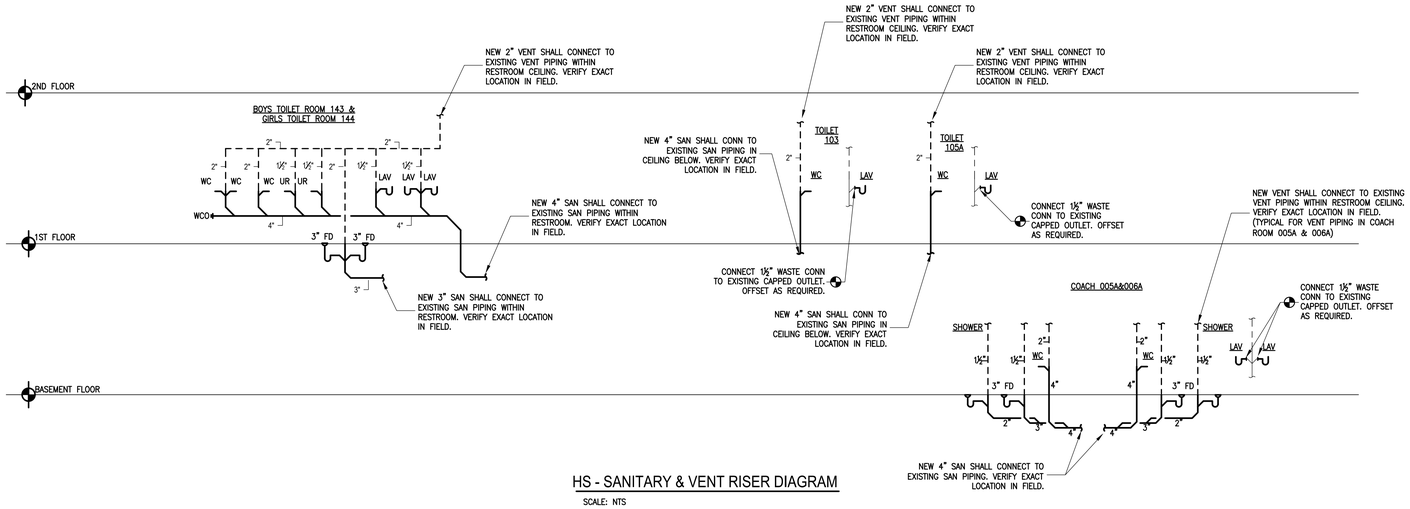
PLUMBING PLAN - FIRST FLOOR

HS P101



HS - DOMESTIC WATER RISER DIAGRAM

SCALE: NTS



HS - SANITARY & VENT RISER DIAGRAM

SCALE: NTS

EASTCHESTER UNION FREE SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON ELEMENTARY SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

SITE - CIVIL CONSULTANT
BOHLER ENGINEERING
2929 EXPRESS DRIVE NORTH, SUITE 120
HAUPPAUGE, NY 11762

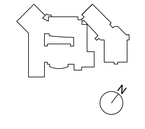
STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
100 PARK BLVD, SUITE 209
MASSAPEQUA PARK, NY 11762

MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905

HAZARDOUS MATERIALS CONSULTANT
WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

ISSUE	DATE
ISSUED FOR BID	11/06/2024

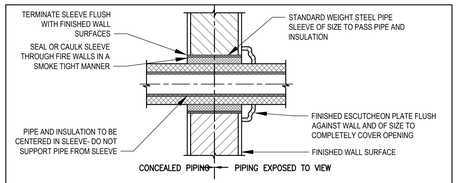
KEY PLAN



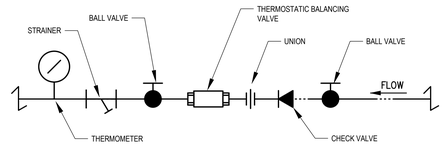
PROJECT NO.	66-03-01-03-0-001-024
MEMASI PROJECT NO.	102-2301

PLUMBING RISER DIAGRAM

HS P500



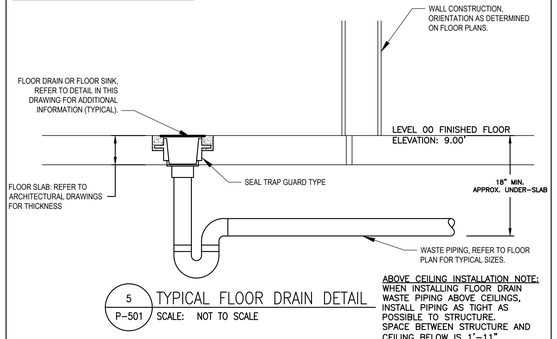
1 P-501 PIPE SLEEVES THROUGH WALL
SCALE: NOT TO SCALE



NOTES:
1. BALANCING VALVES 2" AND SMALL SHALL BE LEAD FREE BRONZE BODY RATED FOR A MAX WORKING PRESSURE OF 200 PSIG. BODY AND ALL INTERNAL COMPONENTS SHALL BE CONSTRUCTED OF STAINLESS STEEL WITH MAJOR COMPONENTS CONSTRUCTED OF TYPE 303 STAINLESS STEEL.
2. SHALL BE SELF-CONTAINED, TAMPER-PROOF AND FULLY AUTOMATIC WITHOUT ADDITIONAL PIPING OR CONTROL MECHANISMS.
3. BALANCING VALVE SHALL BE PROVIDED WITH TWO BALL VALVES, ONE CHECK VALVE, ONE STRAINER AND ONE THERMOMETER.
4. BALANCING VALVE SHALL BE CALIBRATED FOR 120 DEGREE F HOT WATER RETURN.
5. BALANCING VALVE SHALL BE THERMOMEGATECH BY CIRCUITSOLVER OR APPROVED OTHER.

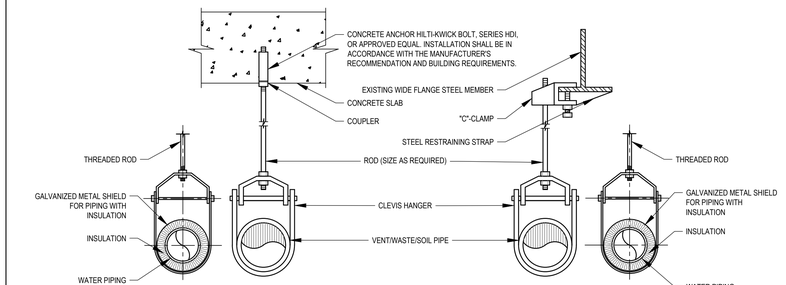
2 P-501 HOT WATER RETURN BALANCING VALVE DETAIL
SCALE: NOT TO SCALE

FLOOR DRAIN INSTALLATION	
FLOOR DRAIN DEPRESSION(INCHES)	RADIUS OF AREA DRAIN (FEET)
1/2"	5 FT
3/4"	10 FT
1 1/4"	20 FT
1 1/2"	25 FT



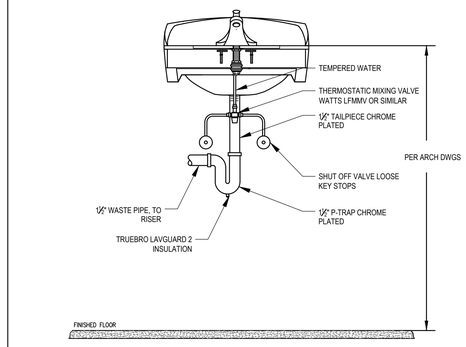
5 P-501 TYPICAL FLOOR DRAIN DETAIL
SCALE: NOT TO SCALE

ABOVE CEILING INSTALLATION NOTE:
WHEN INSTALLING FLOOR DRAIN WASTE PIPING ABOVE CEILINGS, INSTALL PIPING AS TIGHT AS POSSIBLE TO STRUCTURE. SPACE BETWEEN STRUCTURE AND CEILING BELOW IS 1'-11"



NOTES:
1. CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1"
2. ALL COPPER PIPING TO BE PROTECTED FROM HANGERS OF A DISSIMILAR METAL BY ENGINEER ACCEPTED MEANS.

3 P-501 TYPICAL HANGER DETAILS
SCALE: NOT TO SCALE



4 P-501 TYPICAL LAVATORY PIPING INSTALLATION DETAIL
SCALE: NOT TO SCALE

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
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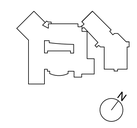

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PLUMBING DETAILS

HS P501