CITY SCHOOL DISTRICT OF NEW ROCHELLE

HENRY BARNARD ELEMENTARY SCHOOL

2023 CAPITAL PROJECTS - PHASE 2A

129 BARNARD RD, NEW ROCHELLE, NY 10801

ISSUED FOR BID: 03/14/2025

REGISTERED ARCHITECT
THOMAS M. RITZENTHALER
023344
STATE OF NEW YORK

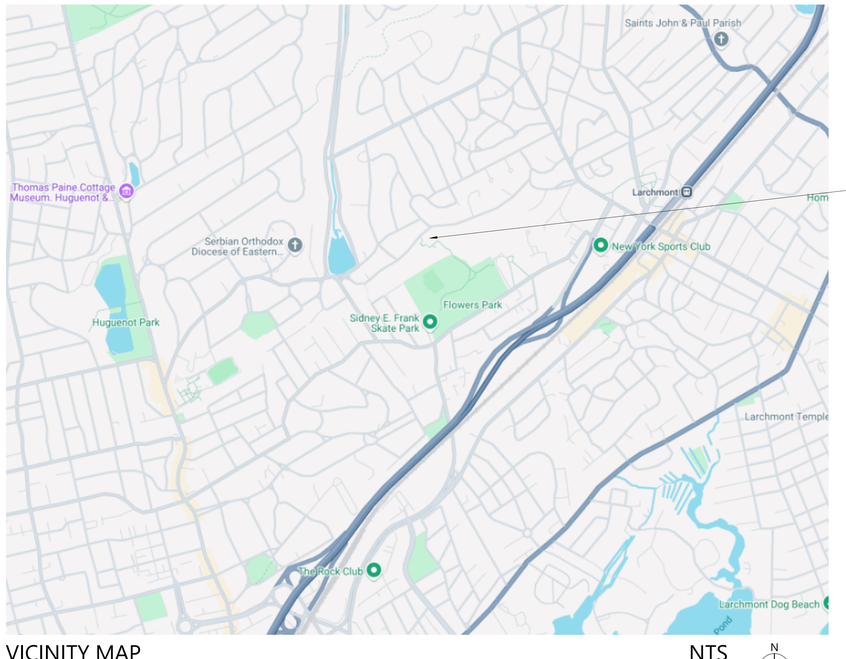
CSARCH - ARCHITECTS

GREENMAN - PEDERSEN, INC. - MEP & STRUCTURAL ENGINEER

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:
2023 CAPITAL PROJECTS - PHASE 2A 66-11-00-01-0-004-015

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.

CSArch PROJECT NO. 188-2301.02



HENRY BARNARD ELEMENTARY SCHOOL
129 BARNARD RD, NEW ROCHELLE, NY
10801

VICINITY MAP NTS

N

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VOLUME 3 OF 6

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT
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	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ED	EDUCATION
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
ELEV	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDENT-TREATED MATERIAL
FTG	FOOTING
G	GROUND
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
GWBS	GYPSUM WALL BOARD SOFFIT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH
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
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPT	OPTIONAL
OVR	OVERALL
OZ	OUNCE
PERIM	PERIMETER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
PR	PAIR
PREP	PREPARATORY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
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
SAG	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
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WPT	WOOD PRESERVED-TREATED MATERIAL
WGT	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

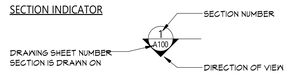
- FACE OF STUD OR CMU
- COLUMN CENTER LINE

SYMBOLS

- CLASSROOM — ROOM NAME
- 100 — ROOM NUMBER
- 000 S.F. — 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
- S 1 — STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
- 1 — COLUMN GRID DESIGNATION
- 1 — PARTITION TAG, REFER TO A700 DRAWINGS
- M — HOUR RATING OF PARTITION
- ADDITIONAL NOTES FOR PARTITION
- 1 — REVISION NUMBER
- 1 — KEY NOTE, NEW WORK
- 1 — KEY NOTE, DEMOLITION WORK
- 10'-0" — ELEVATION TAG
- HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE
- ROOM NAME 101 WALL FINISH BASE FINISH FLOOR FINISH — INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS

DETAIL INDICATOR LEGEND

SECTION INDICATOR



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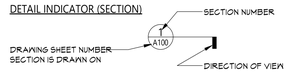
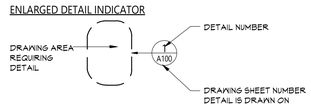


ENLARGED DETAIL INDICATOR



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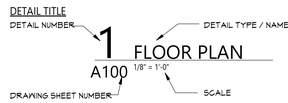
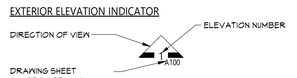
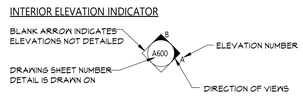


EXTERIOR ELEVATION INDICATOR



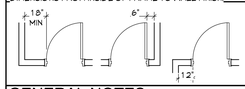
INTERIOR ELEVATION INDICATOR



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 UNO. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



GENERAL NOTES

1. DIMENSIONS ARE GIVEN THUS (UNLESS NOTED OTHERWISE)
   - A. TO FACE OF MASONRY WALL
   - B. TO FACE OF METAL STUD
   - 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, UNO
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 2'-0" OF GRADE SHALL BE PRESSURE TREATED
8. ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND /OR FIRE STOPPED. COORDINATE WITH M DWGS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
9. FOR INTERIOR PARTITION TYPES, REFER TO DRAWING A701
10. FOR DOOR SCHEDULE, REFER TO DRAWING A901
11. FOR FINISH SCHEDULE, REFER TO DRAWING AF401
12. ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
13. PROVIDE PATCH TO MATCH EXISTING FINISHES AT ALL WALL REMOVAL AREAS, COORDINATE WITH DEMOLITION DRAWINGS AND SPECIFICATIONS.
14. ALL CONSTRUCTION SHOWN IS NEW UNLESS NOTED OTHERWISE

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CSARCH

Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
CHARLES M. FITZSIMMONS
STATE OF NEW YORK

REGISTRATION EXPIRATION DATE: 02/28/2025

Expiration Date: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	66-11-00-01-0-004-016
CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

Sheet Title

SYMBOLS, ABBREVIATIONS & MISC

Sheet No.

HBE
2-G001

CONSTRUCTION DOCUMENTS

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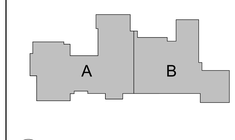
1 OVERALL GROUND FLOOR PLAN
2-G101 3/32" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES
2. REFER TO LS100 SERIES DRAWINGS FOR LIFE SAFETY PLANS AND DETAILED INFORMATION.
5. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
6. REFER TO SHEET G001 FOR PARTITION TYPES AND ADDITIONAL NOTES.
7. REFER TO A800 SERIES DRAWINGS ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CEILING SCOPE.
8. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, WINDOW, DETAILS, SCHEDULES, AND NOTES. REFER FOR LOOSE LINTEL SCHEDULE
9. REFER TO AF100 SERIES DRAWINGS FOR FINISH SCHEDULES, PLANS, AND NOTES.

KEY PLAN



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HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02-28-2025
Expiration Date: 02/28/2025

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Sheet Title

OVERALL GROUND FLOOR PLAN

Sheet No.

HBE
2-G101

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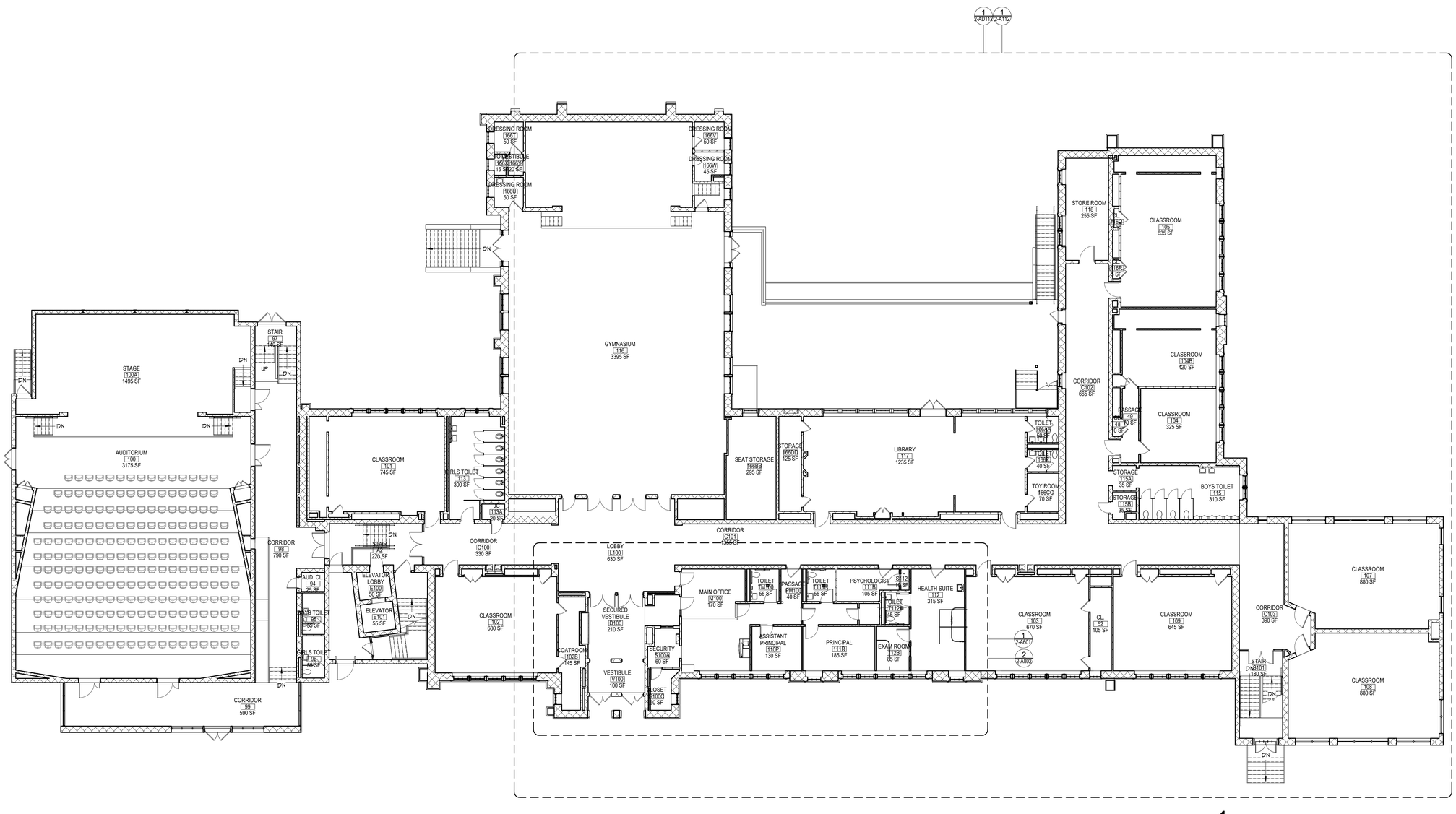

1 OVERALL FIRST FLOOR PLAN
2-G111 3/32" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES
2. REFER TO LS100 SERIES DRAWINGS FOR LIFE SAFETY PLANS AND DETAILED INFORMATION.
5. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
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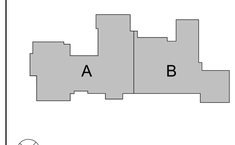
8. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, WINDOW, DETAILS, SCHEDULES, AND NOTES. REFER FOR LOOSE LINTEL SCHEDULE
9. REFER TO AF100 SERIES DRAWINGS FOR FINISH SCHEDULES, PLANS, AND NOTES.

KEY PLAN



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HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
STATE OF NEW YORK
Expiration Date: 02/28/2025

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Sheet Title

OVERALL FIRST FLOOR PLAN

Sheet No.

HBE
2-G111

CONSTRUCTION DOCUMENTS

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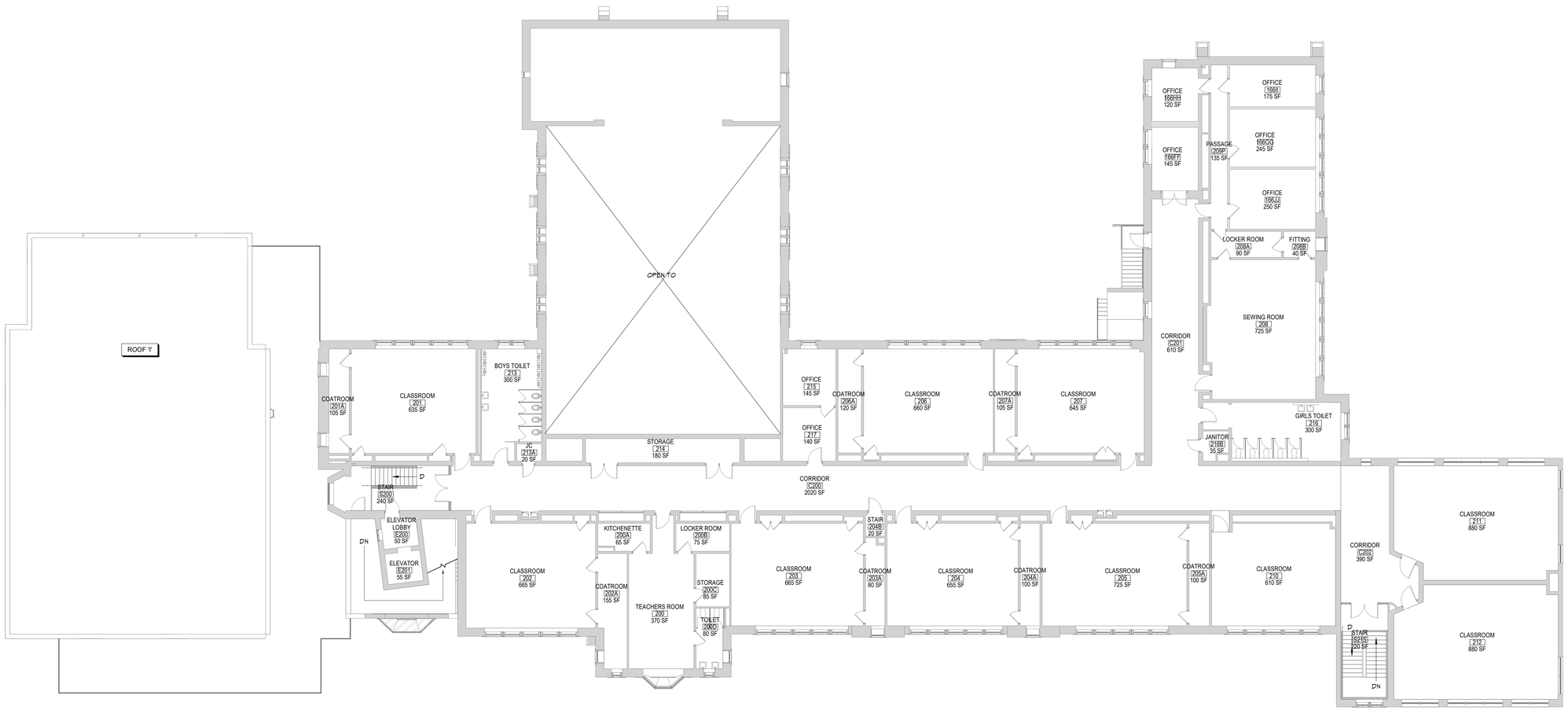
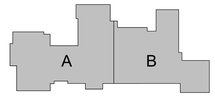


1 OVERALL SECOND FLOOR PLAN
2-G121 3/32" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES
2. REFER TO LS100 SERIES DRAWINGS FOR LIFE SAFETY PLANS AND DETAILED INFORMATION.
5. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
6. REFER TO SHEET G001 FOR PARTITION TYPES AND ADDITIONAL NOTES.
7. REFER TO A800 SERIES DRAWINGS ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CEILING SCOPE.
8. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, WINDOW, DETAILS, SCHEDULES, AND NOTES. REFER FOR LOOSE LINTEL SCHEDULE
9. REFER TO AF100 SERIES DRAWINGS FOR FINISH SCHEDULES, PLANS, AND NOTES.

KEY PLAN



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CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
JOHN M. RITSINGER
028343
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 10/28/2025
Expiration Date: 02/28/2025

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Sheet Title

OVERALL SECOND FLOOR PLAN

Sheet No.

HBE
2-G121

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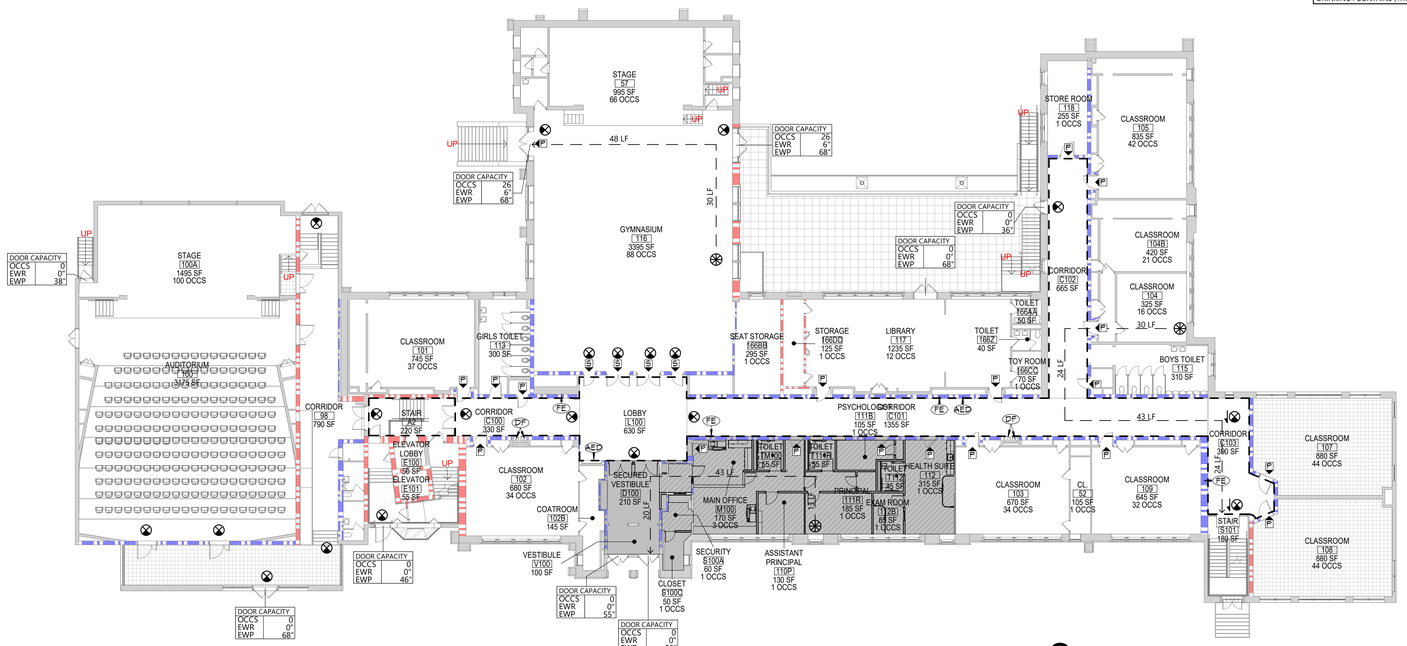
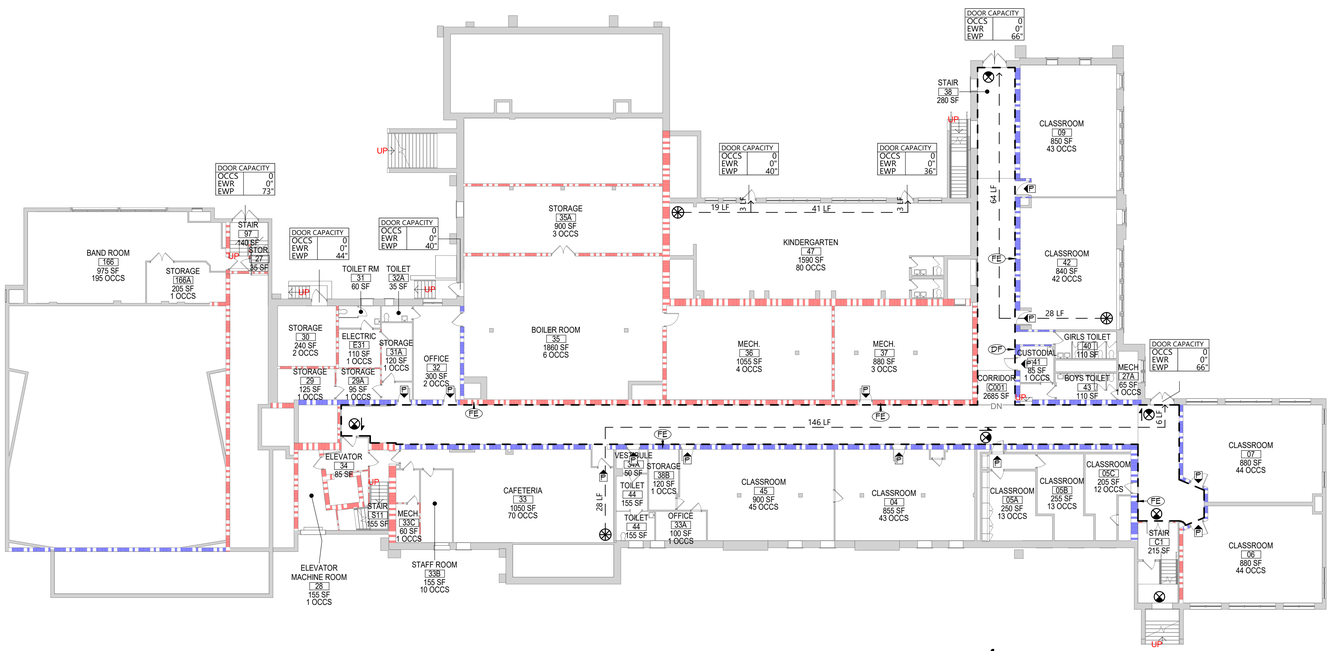


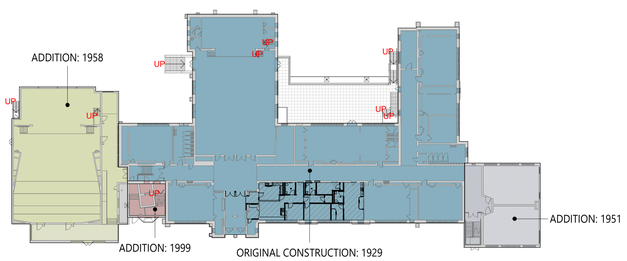
2 FIRST FLOOR LIFE SAFETY PLAN

2-LS111 1/16" = 1'-0"



1 GROUND FLOOR LIFE SAFETY PLAN

2-LS111 1/16" = 1'-0"



3 VINTAGE PLAN

2-LS111 1" = 40'-0"

2020 PLUMBING CODE OF NEW YORK STATE (TABLE 403.1)

CLASSIFICATION: EDUCATIONAL

OCCUPANCY: 150	MALE		FEMALE		TOTAL
STUDENTS:	75		75		150
FACULTY:	0		0		0
	MALE FIXTURES			FEMALE FIXTURES	
	WC (1:50)	URINAL *	LAV (1:50)	WC (1:50)	LAV (1:50)
STUDENT REQUIRED	1	1	2	2	2
STUDENT PROVIDED	0	0	0	0	0
FACULTY REQUIRED	0	0	0	0	0
FACULTY PRROVIDED	0	0	0	0	0

* URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

DRINKING FOUNTAINS (1:100) REQUIRED: 1 PROVIDED: 0

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

COUNTY: XXX	CLIMATE ZONE: XXX	
VERTICAL FENESTRATION (U-FACTOR), Table C402.4	REQUIRED	PROVIDED
FIXED FENESTRATION	x.xx	x.xx
OPERABLE FENESTRATION	x.xx	x.xx
ENTRANCE DOORS	x.xx	x.xx
VERTICAL FENESTRATION SHGC, Table C402.4		
PF < 0.2	x.xx	x.xx
0.2 ≤ PF ≥ 0.5	x.xx	x.xx
PF > 0.5	x.xx	x.xx
SKYLIGHTS, Table C402.4		
U-FACTOR	x.xx	x.xx
PF ≥ 0.5	x.xx	x.xx
ROOF ASSEMBLIES (R-VALUES), Table C402.1.3		
INSULATION ENTIRELY ABOVE ROOF DECK	R-XXci	R-XXci
METAL BUILDINGS	R-XX + R-XX LS	R-XX + R-XX LS
ATTIC AND OTHER	R-XX	R-XX
WALLS ABOVE GRADE (R-VALUES), Table C402.1.3		
MASS	R-XXci	R-XXci
METAL BUILDINGS	R-XX + R-XXci	R-XX + R-XXci
METAL FRAMED	R-XX + R-XXci	R-XX + R-XXci
WOOD FRAMED AND OTHER	R-XX + R-XXci	R-XX + R-XXci
WALLS BELOW GRADE (R-VALUES), Table C402.1.3		
BELOW GRADE WALL	R-XXci	R-XXci
FLOORS (R-VALUES), Table C402.1.3		
MASS	R-XXci	R-XXci
JOIST / FRAMING	R-XX	R-XX
SLABS ON GRADE FLOORS (R-VALUES), Table C402.1.3		
UNHEATED SLABS	R-XX FOR XX" BELOW	R-XX FOR XX" BELOW
HEATED SLABS	R-XX FOR XX" BELOW	R-XX FOR XX" BELOW
OPAQUE DOORS		
NONSWINGING (R-VALUE), Table C402.1.3	R-XX	R-XX
SWINGING (U-VALUE), Table C402.1.4	x.xx	x.xx

LIFE SAFETY PLAN LEGEND

- PRIMARY EXIT
- SECONDARY EXIT
- RESCUE WINDOW (SECONDARY EXIT)
- ACCESSIBLE EXIT
- RESCUE ASSISTANCE STATION/AREA OF REFUGE
- ## OCCS (## OCCS) — NUMBER OF OCCUPANTS PER TABLE 1004.1.2 (ACTUAL NUMBER OF OCCUPANTS)
- DOOR CAPACITY OCCS # EWR # EWP # — REQUIRED EXIT WIDTH FOR DOOR BASED ON (OCCUPANT * 0.2)
- STAIR CAPACITY OCCS # EWR # EWP # — REQUIRED EXIT WIDTH FOR STAIRS BASED ON (OCCUPANT * 0.3)
- EXIT PATH OF TRAVEL (START - END)
- EXIT SIGN, WALL MOUNTED, ILLUMINATED FACE INDICATED BY SHADING. ARROW INDICATES DIRECTIONAL ARROW REQUIRED.
- EXIT SIGN, CEILING MOUNTED, ILLUMINATED FACE INDICATED BY SHADING. ARROW INDICATES DIRECTIONAL ARROW REQUIRED.

ABBREVIATIONS

- AED AUTOMATED EXTERNAL DEFIBRILLATOR
- DF DRINKING FOUNTAIN
- ESS EMERGENCY EYEWASH STATION
- FE FIRE EXTINGUISHER, WALL MOUNT
- FEC FIRE EXTINGUISHER CABINET

SMOKE SEPARATION NOTES

- SMOKE BARRIER
- CORRIDOR, ENCLOSED WITH SMOKE PARTITIONS - NO COMMUNICATING MECHANICAL AIR BETWEEN CORRIDOR AND ADJACENT SPACES.

FIRE SEPARATION LEGEND

- 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE WALL

CODE NARRATIVE:

1929 ORIGINAL CONSTRUCTION:
CONSTRUCTION TYPE: IIB
GROUND AREA: 20,384 SF GROSS
FIRST FLOOR AREA: 20,672 SF GROSS

1951 CONSTRUCTION:
CONSTRUCTION TYPE: IIB
GROUND AREA: 2,111 SF GROSS
FIRST FLOOR AREA: 2,111 SF GROSS

1958 CONSTRUCTION:
CONSTRUCTION TYPE: IIB
GROUND AREA: 1,520 SF GROSS
FIRST FLOOR AREA: 7,003 SF GROSS

1999 CONSTRUCTION:
CONSTRUCTION TYPE: IIB
GROUND AREA: 550 SF GROSS
FIRST FLOOR AREA: 550 SF GROSS

CLASSIFICATION OF WORK:

LEVEL 2 ALTERATION
2,500 SF

OCCUPANT LOAD

ACCESSORY STORAGE AREA, MECH. ROOM	300 GROSS
ASSEMBLY W/ FIXED SEATS	SECT. 1004.6
ASSEMBLY W/OUT FIXED SEATS	
CONCENTRATED	7 NET
UNCONCENTRATED	15 NET
BUSINESS AREAS	150 GROSS
CLASSROOM AREAS	20 NET
VOCATIONAL ROOM AREAS	50 NET
LOCKER ROOMS	50 GROSS
EXERCISE ROOMS	50 GROSS
KITCHENS, COMMERCIAL	200 GROSS
READING ROOMS	50 GROSS
STAGES AND PLATFORMS	15 NET

STRUCTURAL LOAD

RISK CATAGORY: II	
DEAD LOADS:	
CONCRETE SLAB	xxx PSF
LIVE LOADS:	
SLAB	xxx PSF
RAIN LOADS:	
15-MINUTE RAINFALL INTENSITY	xxx IN./H
60-MINUTE RAINFALL INTENSITY	xxx IN./H
SNOW LOADS:	
GROUND SNOW LOAD	xx PSF
FLAT ROOF SNOW LOAD	xx.x PSF
SLOPED ROOF SNOW LOAD	xxx
WIND LOADS:	
ULTIMATE WIND SPEED	xxx MPH
EXPOSURE CATEGORY	x
SEISMIC DESIGN DATA:	
SITE CLASS	x
SEISMIC DESIGN CATEGORY	x

FIRE AREA MODIFICATIONS (NYS SECTION 506)

A_a	ALLOWABLE AREA PER FLOOR (SQUARE FEET)
A_t	TABULAR ALLOWABLE AREA FACTOR (NS,S1,S13R OR S13D VALUE) IN ACCORDANCE WITH TABLE 506.2 (SQUARE FEET)
I_f	AREA FACTOR INCREASE DUE TO FRONTAGE AS CALCULATED IN ACCORDANCE WITH SECTION 506.3 (PERCENT)
NS	TABULAR ALLOWABLE AREA FACTOR IN ACCORDANCE WITH TABLE 506.2 FOR NONSPRINKLERED BUILDING
S_a	ACTUAL NUMBER OF BUILDING STORIES ABOVE GRADE PLANE, NOT TO EXCEED THREE
W	CALCULATED WIDTH OF PUBLIC WAY OR OPEN SPACE (FEET) IN ACCORDANCE WITH SECTION 506.3.2
L_n	LENGTH OF A PORTION OF THE EXTERIOR PERIMETER WALL
W_n	WIDTH (≥ 20 FEET) OF A PUBLIC WAY OR OPEN SPACE ASSOCIATED WITH THAT PORTION OF THE EXTERIOR PERIMETER WALL
F	BUILDING PERIMETER THAT FRONTS ON A PUBLIC WAY OR OPEN SPACE HAVING A WIDTH OF 20 FEET OR MORE
P	PERIMETER OF ENTIRE BUILDING (FEET)

$I_f = [F/P - 0.25]W/30$
$I_f = [100/XX - 0.25]\ XX/30$
$I_f = [0.XX]\ 1.00$
$I_f = XX\%$

$A_a = A_t + (NS \times I_f)$
$A_a = XXX + (XXX \times 0.XX)$
$A_a = XXX + (XXX)$
$A_a = XXX$ sq ft

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518 -463 - 8068 www.csarchpc.com
CSARCH

Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
CHRISTOPHER M. RITZWOLLER
028434-1
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION
1	11/25/2024	SED ADD #2

Drawn By:	RC
Checked By:	MZ
Proj. #:	66-11-00-01-0-004-016
CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

Sheet Title
LIFE SAFETY GROUND AND FIRST FLOOR PLANS

Sheet No.
HBE
2-LS111

CONSTRUCTION DOCUMENTS

C:\Users\rcollura\Documents\188-2301.00_HENRY_BARNARD_ES_rcolluraXVARE.rvt

2020 PLUMBING CODE OF NEW YORK STATE (TABLE 403.1)

CLASSIFICATION: EDUCATIONAL

OCCUPANCY: 150	MALE		FEMALE		TOTAL	
STUDENTS:	75		75		150	
FACULTY:	0		0		0	
	MALE FIXTURES			FEMALE FIXTURES		
	WC (1:50)	URINAL *	LAV (1:50)	WC (1:50)	LAV (1:50)	
STUDENT REQUIRED	1	1	2	2	2	
STUDENT PROVIDED	0	0	0	0	0	
FACULTY REQUIRED	0	0	0	0	0	
FACULTY PPROVIDED	0	0	0	0	0	

* URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

DRINKING FOUNTAINS (1:100) REQUIRED: 1 PROVIDED: 0

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

COUNTY: XXX	CLIMATE ZONE: XXX	
VERTICAL FENESTRATION (U-FACTOR), Table C402.4	REQUIRED	PROVIDED
FIXED FENESTRATION	x.xx	x.xx
OPERABLE FENESTRATION	x.xx	x.xx
ENTRANCE DOORS	x.xx	x.xx
VERTICAL FENESTRATION SHGC, Table C402.4		
PF < 0.2	x.xx	x.xx
0.2 ≤ PF ≥ 0.5	x.xx	x.xx
PF > 0.5	x.xx	x.xx
SKYLIGHTS, Table C402.4		
U-FACTOR	x.xx	x.xx
PF ≥ 0.5	x.xx	x.xx
ROOF ASSEMBLIES (R-VALUES), Table C402.1.3		
INSULATION ENTIRELY ABOVE ROOF DECK	R-XXci	R-XXci
METAL BUILDINGS	R-XX + R-XX LS	R-XX + R-XX LS
ATTIC AND OTHER	R-XX	R-XX
WALLS ABOVE GRADE (R-VALUES), Table C402.1.3		
MASS	R-XXci	R-XXci
METAL BUILDINGS	R-XX + R-XXci	R-XX + R-XXci
METAL FRAMED	R-XX + R-XXci	R-XX + R-XXci
WOOD FRAMED AND OTHER	R-XX + R-XXci	R-XX + R-XXci
WALLS BELOW GRADE (R-VALUES), Table C402.1.3		
BELOW GRADE WALL	R-XXci	R-XXci
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UNHEATED SLABS	R-XX FOR XX" BELOW	R-XX FOR XX" BELOW
HEATED SLABS	R-XX FOR XX" BELOW	R-XX FOR XX" BELOW
OPAQUE DOORS		
NONSWINGING (R-VALUE), Table C402.1.3	R-XX	R-XX
SWINGING (U-VALUE), Table C402.1.4	x.xx	x.xx

LIFE SAFETY PLAN LEGEND

- PRIMARY EXIT
- SECONDARY EXIT
- RESCUE WINDOW (SECONDARY EXIT)
- ACCESSIBLE EXIT
- RESCUE ASSISTANCE STATION/AREA OF REFUGE
- ## OCCS (## OCCS) — NUMBER OF OCCUPANTS PER TABLE 1004.1.2 (ACTUAL NUMBER OF OCCUPANTS)
- EXIT CAPACITY / EXCAP / EXIT / EXIT — REQUIRED EXIT WIDTH FOR DOOR BASED ON (OCCUPANT * 0.2)
- EXIT CAPACITY / EXCAP / EXIT / EXIT — REQUIRED EXIT WIDTH FOR STAIRS BASED ON (OCCUPANT * 0.3)
- EXIT PATH OF TRAVEL (START - END)
- EXIT SIGN, WALL MOUNTED, ILLUMINATED FACE INDICATED BY SHADING. ARROW INDICATES DIRECTIONAL ARROW REQUIRED.
- EXIT SIGN, CEILING MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED.

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- DF DRINKING FOUNTAIN
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- FE FIRE EXTINGUISHER, WALL MOUNT
- FEC FIRE EXTINGUISHER CABINET

SMOKE SEPARATION NOTES

- SMOKE BARRIER
- CORRIDOR, ENCLOSED WITH SMOKE PARTITIONS - NO COMMUNICATING MECHANICAL AIR BETWEEN CORRIDOR AND ADJACENT SPACES.

FIRE SEPARATION LEGEND

- 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE BARRIER
- 2 HOUR RATED FIRE WALL

CODE NARRATIVE:

1929 ORIGINAL CONSTRUCTION:
CONSTRUCTION TYPE: IIB
GROUND AREA: 20,384 SF GROSS
FIRST FLOOR AREA: 20,672 SF GROSS

1951 CONSTRUCTION:
CONSTRUCTION TYPE: IIB
GROUND AREA: 2,717 SF GROSS
FIRST FLOOR AREA: 2,717 SF GROSS

1958 CONSTRUCTION:
CONSTRUCTION TYPE: IIB
GROUND AREA: 1,520 SF GROSS
FIRST FLOOR AREA: 7,003 SF GROSS

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CONSTRUCTION TYPE: IIB
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FIRST FLOOR AREA: 550 SF GROSS

CLASSIFICATION OF WORK:

- LEVEL 2 ALTERATION 2,500 SF

OCCUPANT LOAD

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ASSEMBLY W/ FIXED SEATS	SECT. 1004.6
ASSEMBLY W/OUT FIXED SEATS	
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BUSINESS AREAS	150 GROSS
CLASSROOM AREAS	20 NET
VOCATIONAL ROOM AREAS	50 NET
LOCKER ROOMS	50 GROSS
EXERCISE ROOMS	50 GROSS
KITCHENS, COMMERCIAL	200 GROSS
READING ROOMS	50 GROSS
STAGES AND PLATFORMS	15 NET

STRUCTURAL LOAD

RISK CATAGORY: III	
DEAD LOADS:	
CONCRETE SLAB	xxx PSF
LIVE LOADS:	
SLAB	xxx PSF
RAIN LOADS:	
15-MINUTE RAINFALL INTENSITY	xxx IN./H
60-MINUTE RAINFALL INTENSITY	xxx IN./H
SNOW LOADS:	
GROUND SNOW LOAD	xx PSF
FLAT ROOF SNOW LOAD	xxx PSF
SLOPED ROOF SNOW LOAD	xxx
WIND LOADS:	
ULTIMATE WIND SPEED	xxx MPH
EXPOSURE CATEGORY	X
SEISMIC DESIGN DATA:	
SITE CLASS	X
SEISMIC DESIGN CATEGORY	X

FIRE AREA MODIFICATIONS (NYS SECTION 506)

A_a	ALLOWABLE AREA PER FLOOR (SQUARE FEET)
A_t	TABULAR ALLOWABLE AREA FACTOR (NS,S1,S13R OR S13D VALUE) IN ACCORDANCE WITH TABLE 506.2 (SQUARE FEET)
I_f	AREA FACTOR INCREASE DUE TO FRONTAGE AS CALCULATED IN ACCORDANCE WITH SECTION 506.3 (PERCENT)
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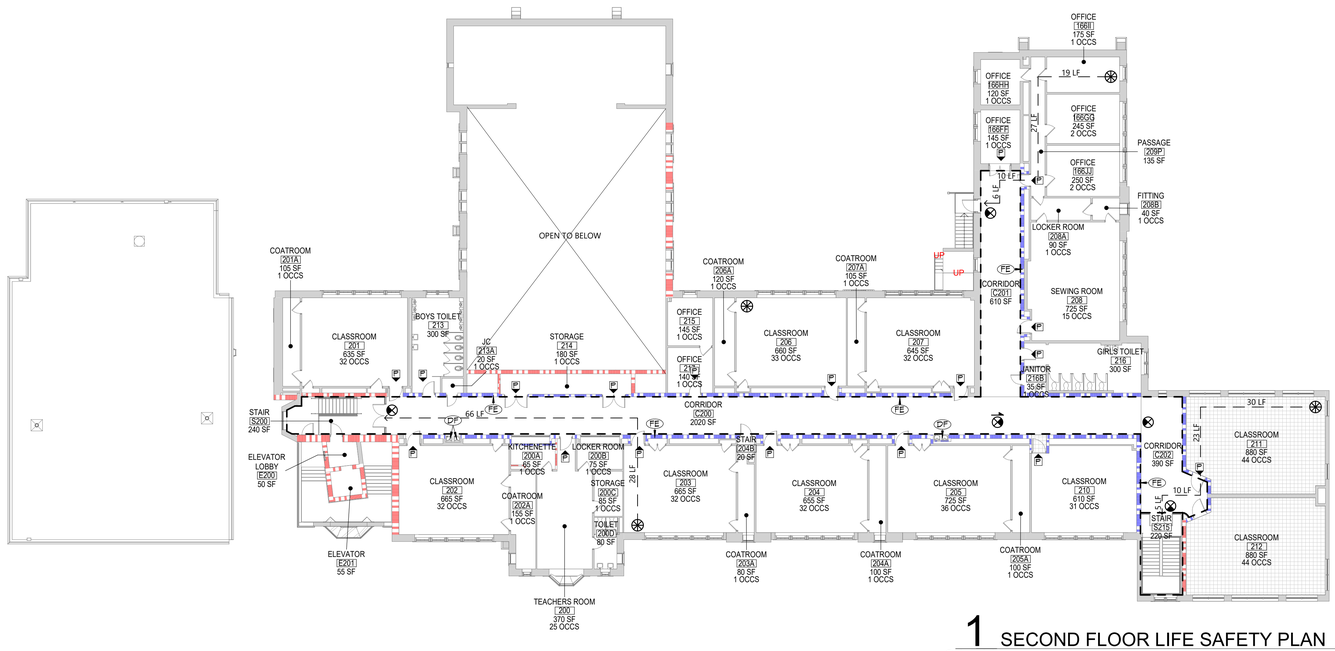
P	PERIMETER OF ENTIRE BUILDING (FEET)

$I_f = [F/P - 0.25]W/30$
$I_f = [100/XX - 0.25]\ XX/30$
$I_f = [0.XX]\ 1.00$
$I_f = XX\%$

$A_a = A_t+(NS \times I_f)$
$A_a = XXX+(XXX \times 0.XX)$
$A_a = XXX+(XXX)$
$A_a = XXX$ sq ft



1 SECOND FLOOR LIFE SAFETY PLAN
2-LS112 1/16" = 1'-0"

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Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT ANDREW M. RITZENTHALER 024234 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 10/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	RC
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Sheet Title

LIFE SAFETY SECOND FLOOR

Sheet No.

HBE 2-LS112

CONSTRUCTION DOCUMENTS

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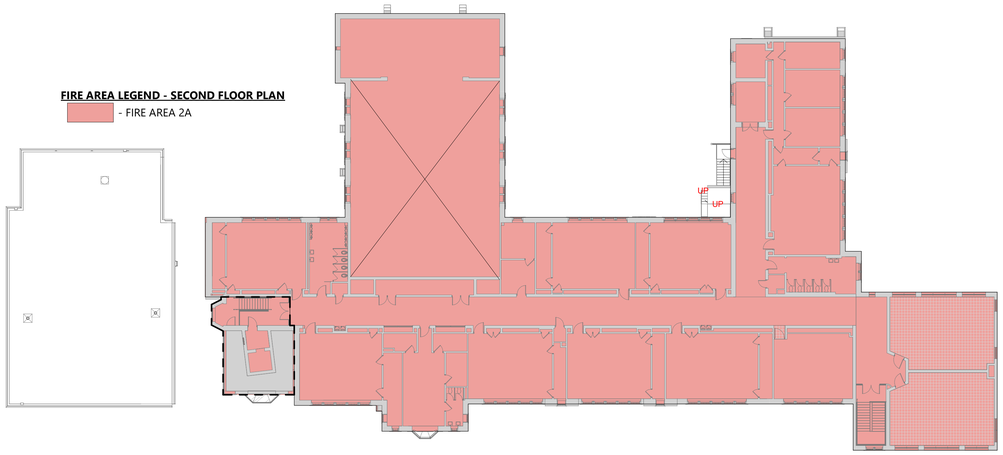
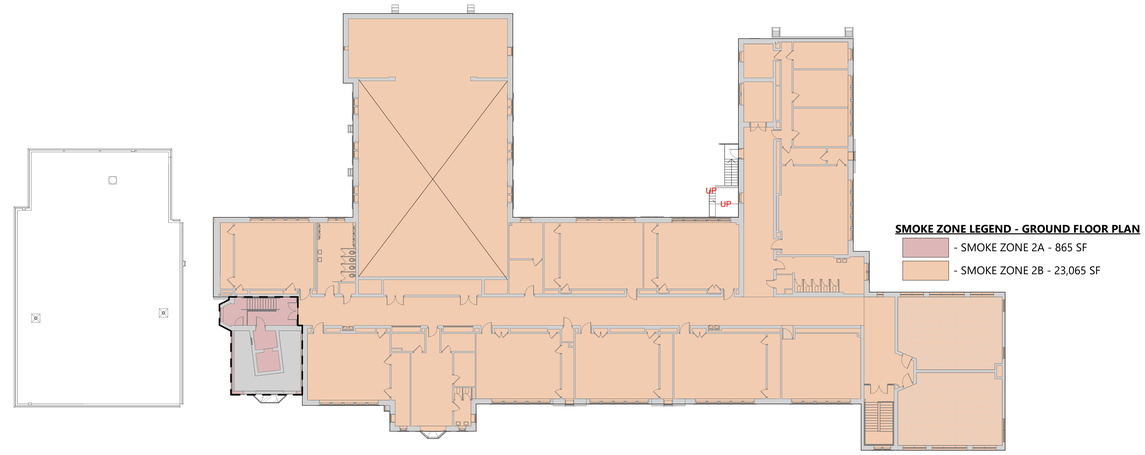
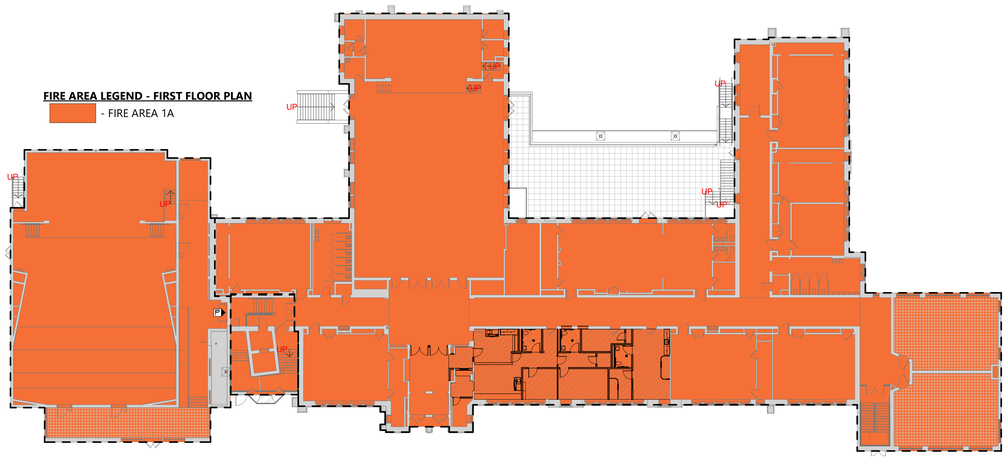


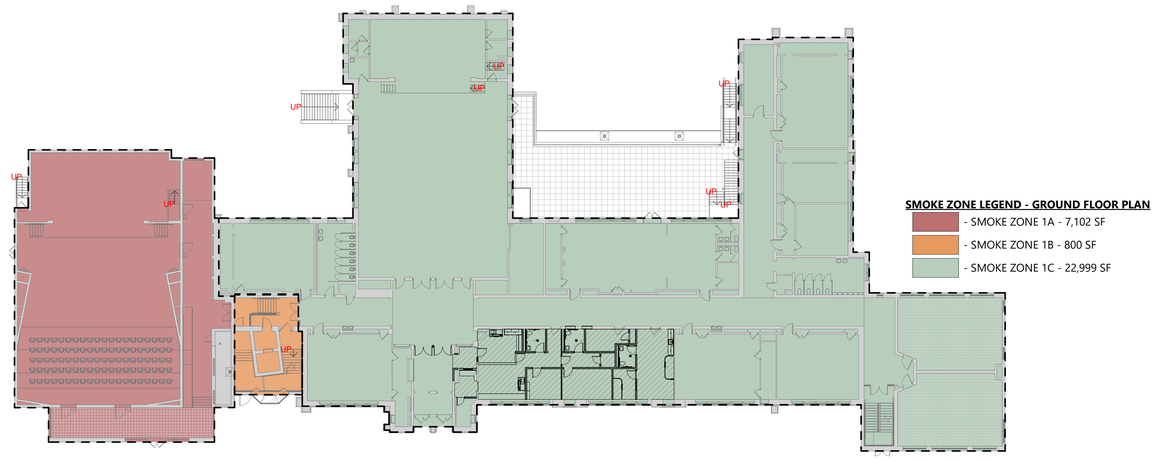
7 FIRE AREA - SECOND FLOOR PLAN
2-LS113 3/64" = 1'-0"



3 SMOKE ZONE - SECOND FLOOR PLAN
2-LS113 3/64" = 1'-0"

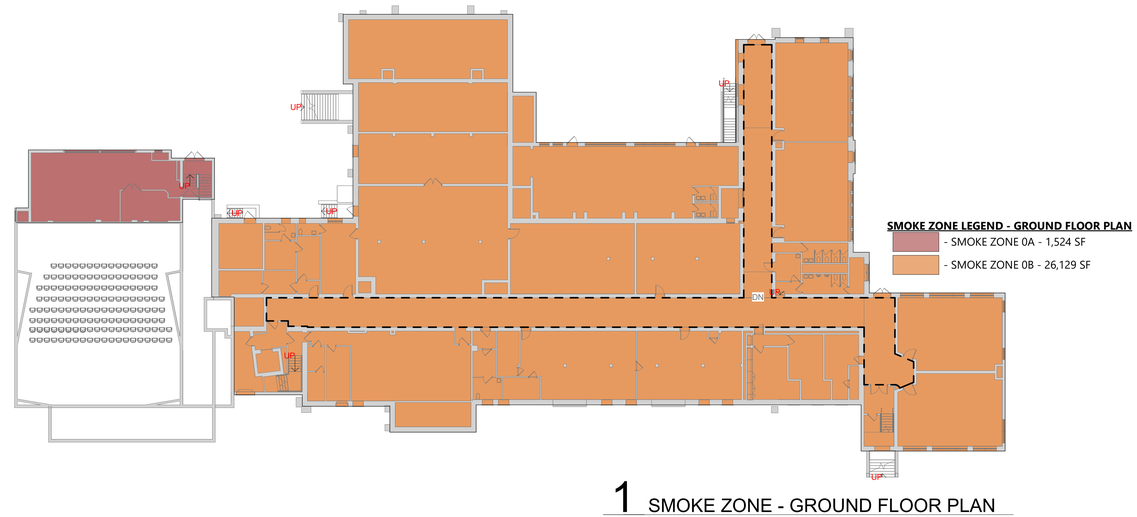


6 FIRE AREA - FIRST FLOOR PLAN
2-LS113 3/64" = 1'-0"



2 SMOKE ZONE - FIRST FLOOR PLAN
2-LS113 3/64" = 1'-0"

5 FIRE AREA - GROUND FLOOR PLAN
2-LS113 3/64" = 1'-0"



1 SMOKE ZONE - GROUND FLOOR PLAN
2-LS113 3/64" = 1'-0"

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Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
CHARLES M. RITZENTHALER
022345
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	RC
Checked By:	MZ
Proj. #:	66-11-00-01-0-004-016
CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

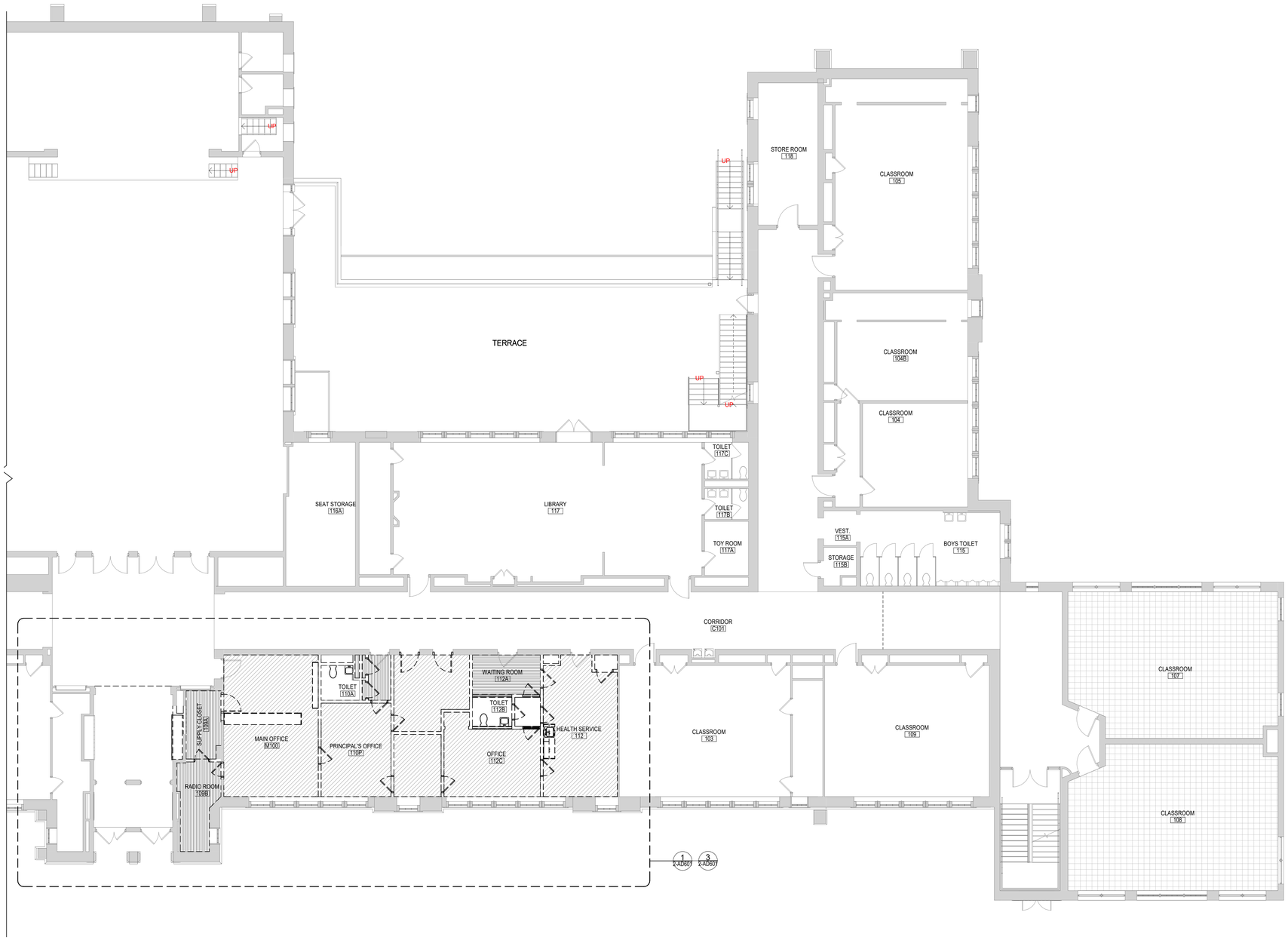
Sheet Title

LIFE SAFETY DIAGRAMS

Sheet No.

HBE
2-LS113

CONSTRUCTION DOCUMENTS

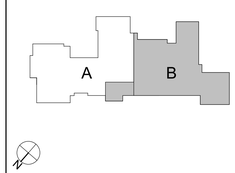


1 AREA 'B' FIRST FLOOR DEMOLITION PLAN
2-AD112 1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER, UNO
4. ALL KEYED REMOVALS SHALL INCLUDE REMOVAL OF ANY AND ALL ANCHORING SYSTEMS INCLUDING OBJECTS EMBEDDED INTO EXISTING WALLS.
5. REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SAWCUT OPENING PRIOR TO SAWCUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.
8. GRIND FLOOR SMOOTH TO MATCH EXISTING ADJACENT FLOOR FINISH ELEVATION FOR CLEAN FINISH, UNDER ANY MASONRY WALLS TO BE FULLY REMOVED.

KEY PLAN



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845 561 3179 www.csarchpc.com
CSARCH

Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
DAVID M. CARDELLA
023343
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

No.	DATE	DESCRIPTION

Drawn By:	RC
Checked By:	MZ
Proj. #:	66-11-00-01-0-004-015
CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

Sheet Title
AREA B - FIRST FLOOR DEMOLITION PLAN

Sheet No.
HBE
2-AD112

CONSTRUCTION DOCUMENTS

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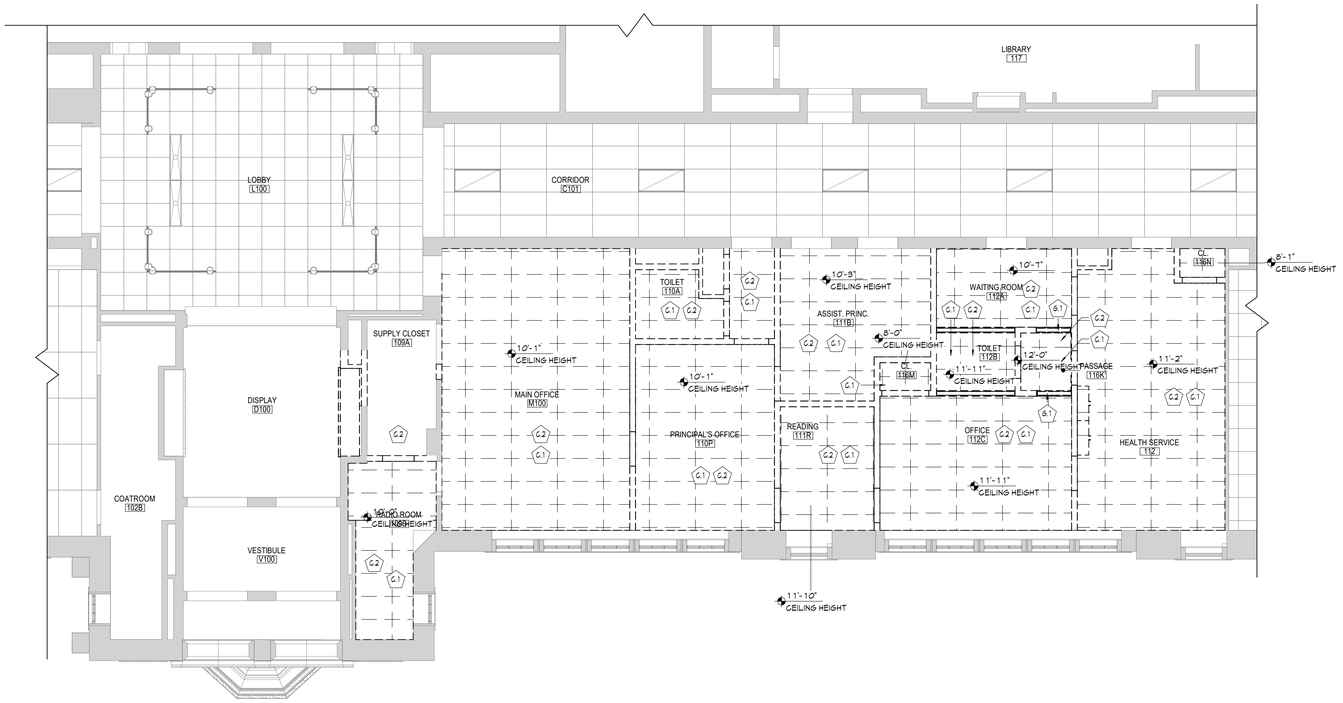
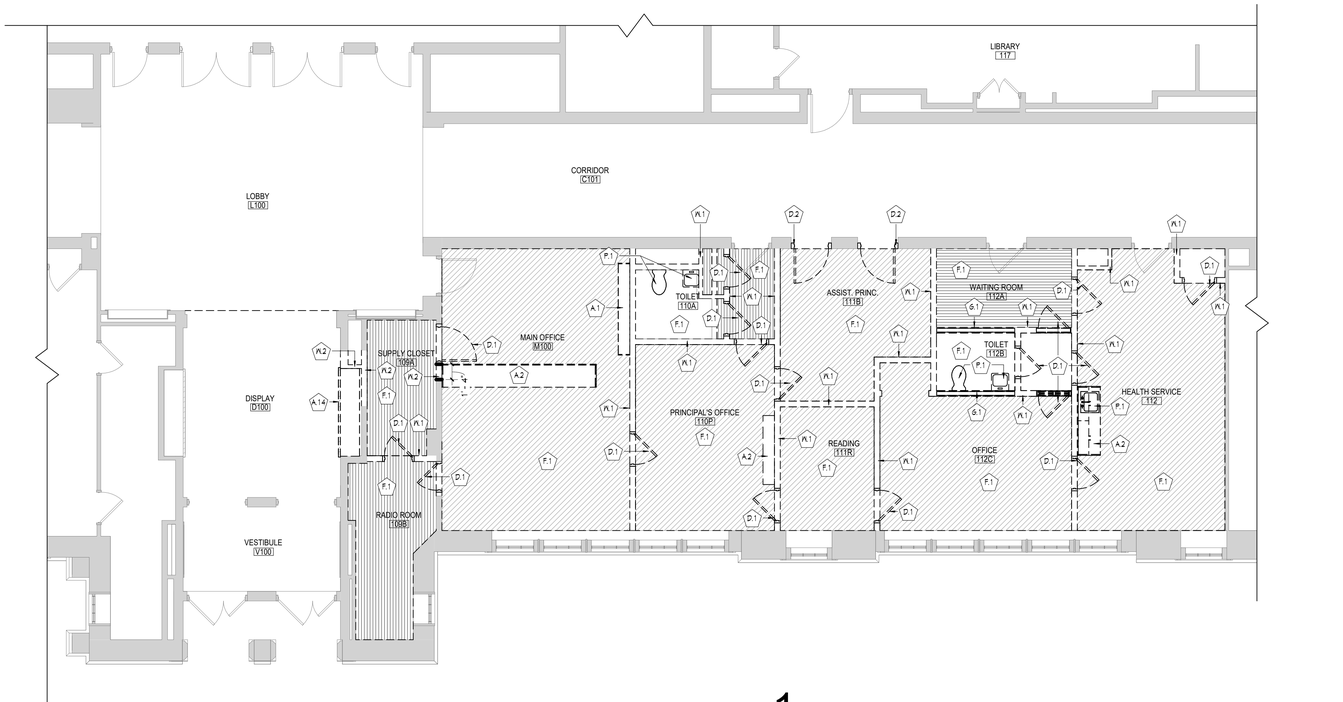


3 AREA 'B' - PARTIAL FIRST FLOOR DEMO RCP
2-AD601 3/16" = 1'-0"



1 AREA 'B' - PARTIAL FIRST FLOOR DEMOLITION PLAN
2-AD601 3/16" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL REMOVALS WITH NEW CONSTRUCTION.
2. PATCH AND REPLACE EXISTING AND NEWLY CREATED HOLES IN WALLS (DUE TO REMOVAL) WITH MATERIALS TO MATCH EXISTING CONSTRUCTION.
3. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER, UNO
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5. REFER TO ASBESTOS AND MEP DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION.
6. PROVIDE TEMPORARY SHORING AS NECESSARY AT ALL AREAS OF WALL REMOVAL AND NEW WALL PENETRATIONS.
7. DRILL CORNERS OF ALL NEW SAWCUT OPENING PRIOR TO SAWCUTTING, TO PREVENT CUTTING INTO SCHEDULED CONSTRUCTION TO REMAIN.
8. GRIND FLOOR SMOOTH TO MATCH EXISTING ADJACENT FLOOR FINISH ELEVATION FOR CLEAN FINISH, UNDER ANY MASONRY WALLS TO BE FULLY REMOVED.

CEILING DEMOLITION LEGEND

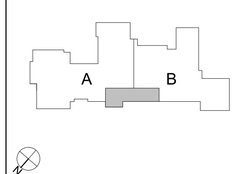
2x4 LIGHTING FIXTURES

(S) SMOKE DETECTOR

KEYNOTES

#	DESCRIPTION
A.1	REMOVE WALL MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO ALL WHITEBOARDS, CHALKBOARDS, TACKBOARDS, MAILBOXES, PROJECTION SCREENS, AND MAP ROLLS. PATCH REMOVAL CONSTUCTION AREAS AS REQUIRED TO MATCH EXISTING ADJACENT FINISHES.
A.2	REMOVE CASEWORK IN ITS ENTIRETY, INCLUDING ALL BLOCKING, FASTENERS, AND BASE. REFER TO ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL REMOVALS.
A.14	REMOVE EXISTING DISPLAY CASE IN ITS ENTIRETY, INCLUDING ALL BLOCKING AND FASTENERS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REMOVALS.
C.1	REMOVE EXISTING SUSPENDED CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL HANGERS AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT REMOVALS.
C.2	REMOVE EXISTING PLASTER CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL FRAMING AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT REMOVALS.
D.1	REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
D.2	REMOVE DOOR AND HARDWARE, FRAME TO REMAIN.
F.1	REMOVE FLOOR FINISH, INCLUDING ALL PADDING, ADHESIVES AND WALL BASE, TO SLAB BELOW.
G.1	REMOVE WINDOW SYSTEM IN ITS ENTIRETY, INCLUDING ALL SILLS, FLASHING AND FASTENERS.
P.1	PLUMBING FIXTURE/EQUIPMENT REMOVAL, REFER TO 'P' DRAWINGS.
W.1	SAWCUT AND REMOVE MASONRY WALL IN ITS ENTIRETY.
W.2	SAWCUT AND REMOVE MASONRY WALL FOR EXTENT SHOWN. COORDINATE REMOVAL WITH NEW WORK.

KEY PLAN



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CSARCH

Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
DAVID M. RITZENBERG
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	RC
Checked By:	MZ
Proj. #:	66-11-00-01-0-004-016
CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

Sheet Title

ENLARGED DEMOLITION PLAN & RCP

Sheet No.

HBE
2-AD601

CONSTRUCTION DOCUMENTS

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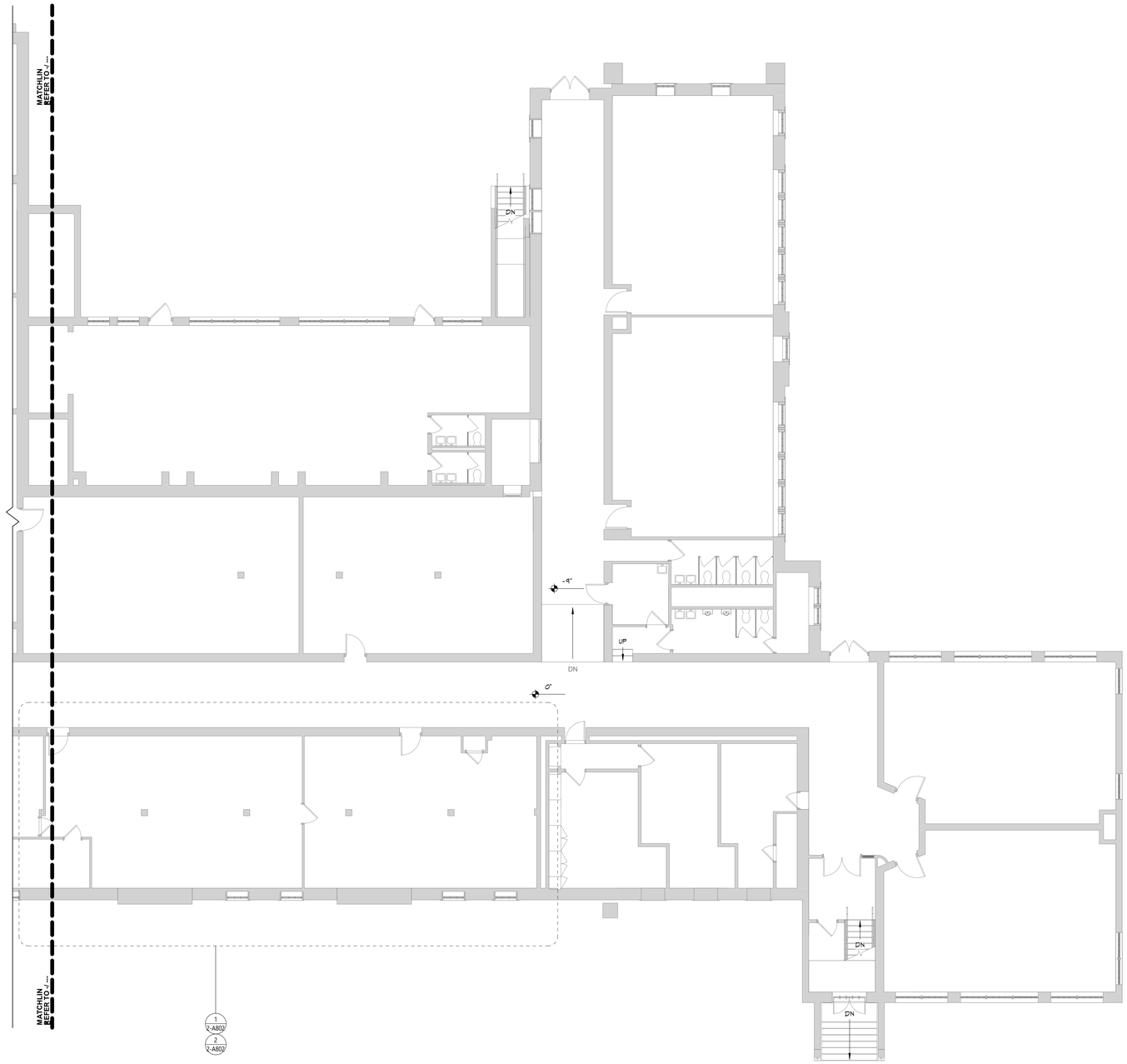
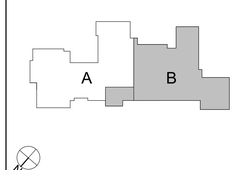


1 AREA 'B' GROUND FLOOR PLAN
2-A102 1/8" = 1'-0"

KEY PLAN



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CSARCH

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Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
MICHAEL R. TRIPOLI
E23334
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02-28-2025
Expiration Date: 02/28/2025

#:	DATE	DESCRIPTION

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Issued for Bid:	03/14/2025

Sheet Title

AREA B - GROUND FLOOR NEW WORK PLAN

Sheet No.

HBE
2-A102

CONSTRUCTION DOCUMENTS

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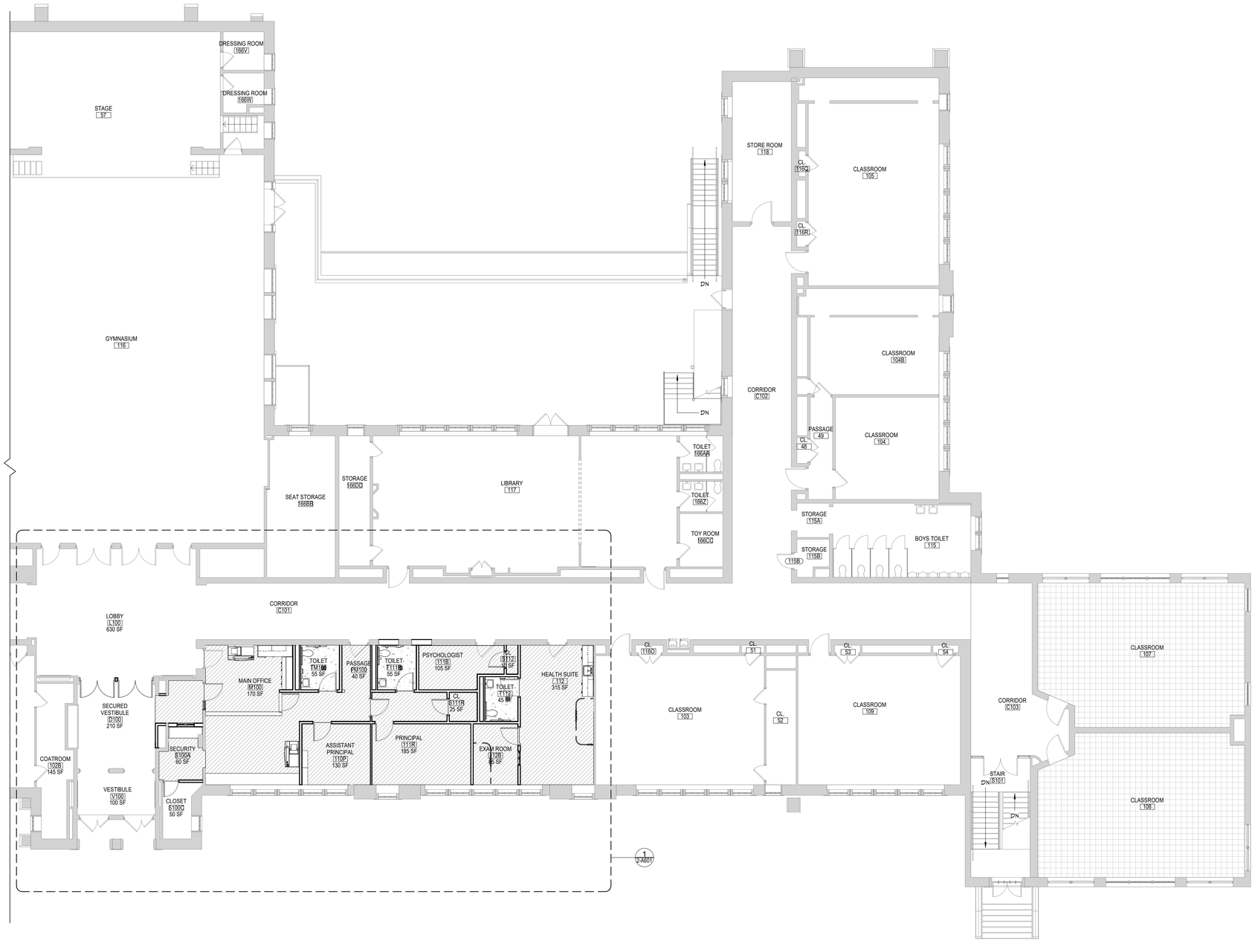


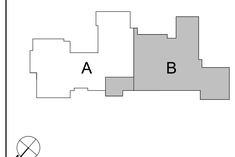
1 AREA 'B' FIRST FLOOR PLAN

2-A112 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES
2. REFER TO LS100 SERIES DRAWINGS FOR LIFE SAFETY PLANS AND DETAILED INFORMATION.
5. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
6. REFER TO SHEET G001 FOR PARTITION TYPES AND ADDITIONAL NOTES.
7. REFER TO A800 SERIES DRAWINGS ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CEILING SCOPE.
8. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, WINDOW, DETAILS, SCHEDULES, AND NOTES. REFER FOR LOOSE LINTEL SCHEDULE
9. REFER TO AF100 SERIES DRAWINGS FOR FINISH SCHEDULES, PLANS, AND NOTES.

KEY PLAN



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Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
CHRISTIAN M. RITZWOLLER
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STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION

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CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

Sheet Title

AREA B - FIRST FLOOR NEW WORK PLAN

Sheet No.

HBE
2-A112

CONSTRUCTION DOCUMENTS

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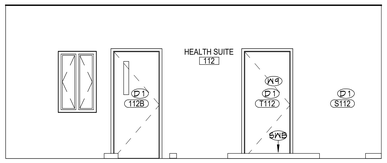
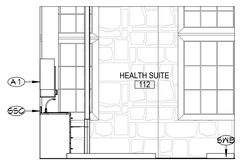
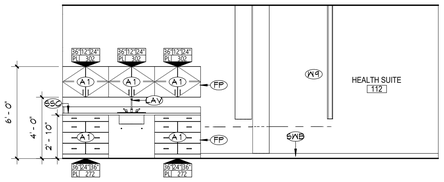


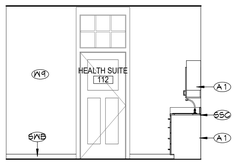
13 NURSE WEST ELEVATION
2-A601 1/4" = 1'-0"



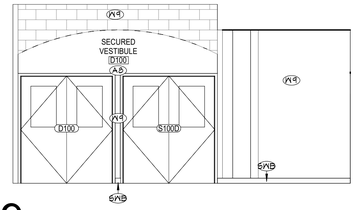
12 NURSE SOUTH ELEVATION
2-A601 1/4" = 1'-0"



11 NURSE EAST ELEVATION
2-A601 1/4" = 1'-0"



10 NURSE NORTH ELEVATION
2-A601 1/4" = 1'-0"



9 SECURED VESTIBULE ELEVATION
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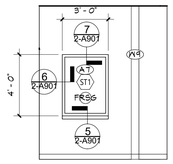

8 SECURITY NORTH ELEVATION
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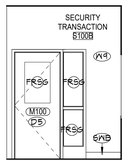

7 SECURITY SOUTH ELEVATION
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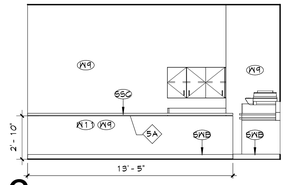
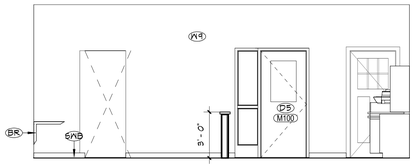
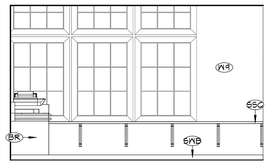


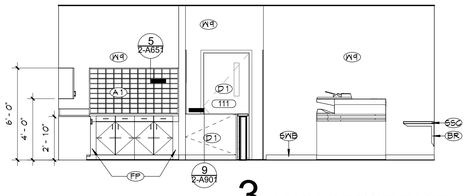
6 MAIN OFFICE NORTH ELEVATION
2-A601 1/4" = 1'-0"



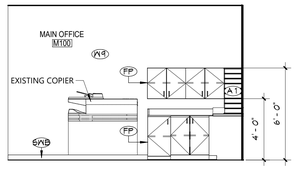
5 MAIN OFFICE WEST ELEVATION
2-A601 1/4" = 1'-0"



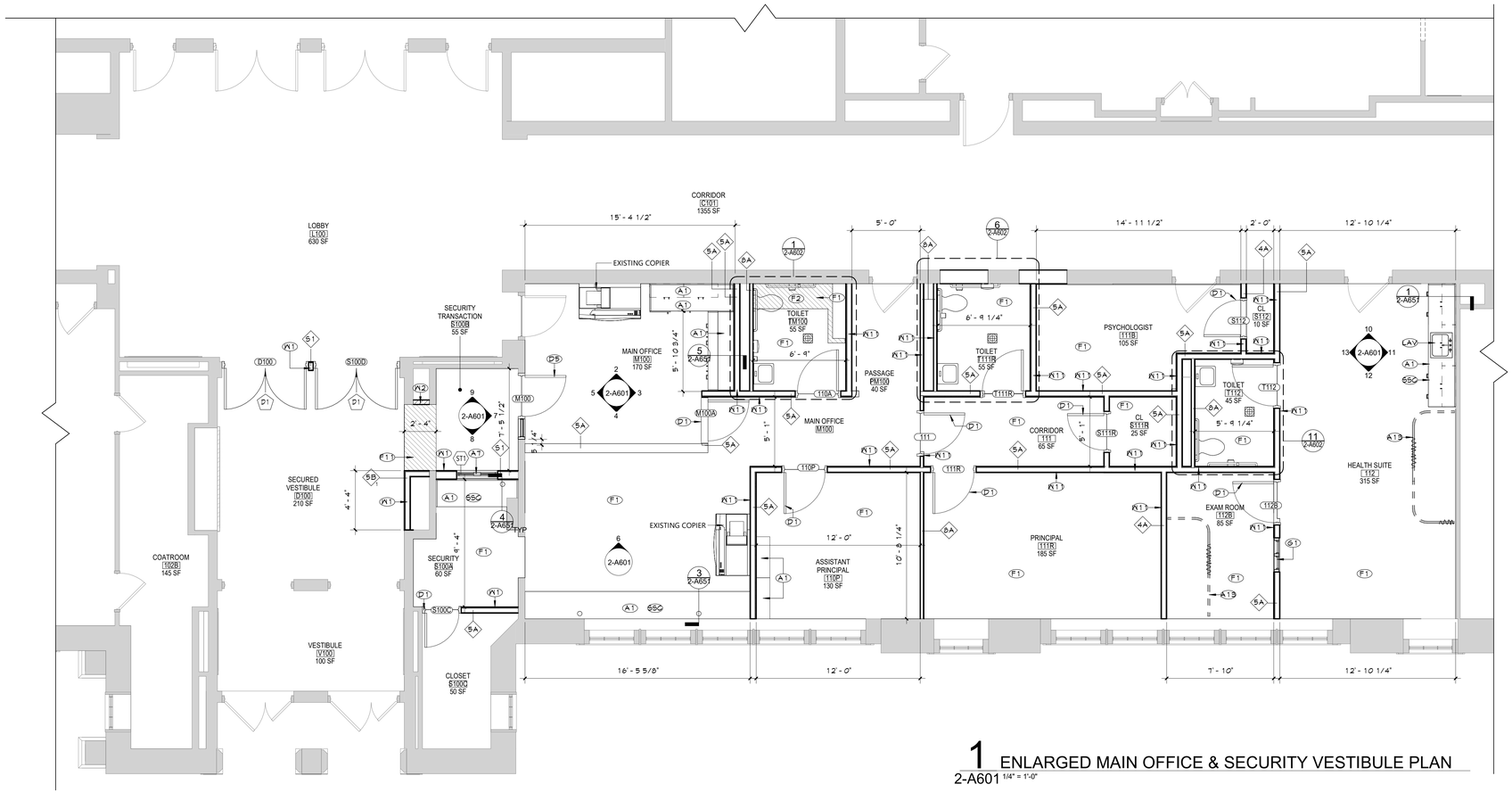
4 MAIN OFFICE SOUTH ELEVATION
2-A601 1/4" = 1'-0"



3 MAIN OFFICE EAST
2-A601 1/4" = 1'-0"



2 MAIN OFFICE NORTH ELEVATION
2-A601 1/4" = 1'-0"

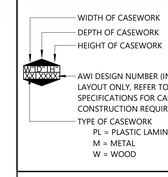


1 ENLARGED MAIN OFFICE & SECURITY VESTIBULE PLAN
2-A601 1/4" = 1'-0"

GENERAL CASEWORK NOTES

1. ALL CASEWORK SHALL HAVE SOLID SURFACE (SSC) COUNTERTOPS AND 4" BACK SPLASHES, UNO.
2. INSTALL MATCHING FILLER PANELS IN LOCATIONS SHOWN. ADD MATCHING FILLER PANELS AS REQUIRED FOR FINAL FIT/FINISH.
3. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK.
4. PROVIDE FINISHED END PANEL AT ALL EXPOSED FACES OF CASEWORK.
5. PROVIDE WALL BASE AS SCHEDULED ON ALL EXPOSED TOE KICK SPACES AND EXPOSED END PANELS.

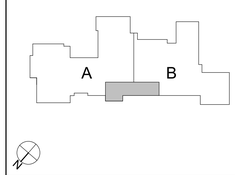
CASEWORK LEGEND



KEYNOTES

#	DESCRIPTION
A1	PROVIDE AND INSTALL NEW CASEWORK.
A7	PROVIDE NEW SECURITY TRANSACTION WINDOW AS SPECIFIED.
A8	PROVIDE NEW FULL HEIGHT HARDENED PARTITION. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
A13	PROVIDE NEW CURTAIN SYSTEM. SEE SPECS FOR MORE INFORMATION.
BR	STEEL SUPPORT BRACKET
D1	PROVIDE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
D5	PROVIDE NEW DOOR, FRAME AND HARDWARE IN LARGER OPENING. COORDINATE SIZE WITH DOOR SCHEDULE. REFER TO THE LINTEL SCEHDULE FOR LINTEL SIZING. HEAD, JAMB AND FLOOR SURFACES OF WIDER OPING TO MATCH ADJACENT FINISH.
F1	PROVIDE NEW FLOOR FINISH, (TYPICAL FOR ROOM, UNLESS NOTED OTHERWISE); REFER TO 'AF' DRAWINGS.
F2	PROVIDE SELF-LEVELING COMPOUND TO ACHIEVE LEVEL SURFACE FOR FINISHED FLOORING.
F11	PATCH FLOOR AS NEEDED.
FP	FILLER PANEL, MATERIAL TO MATCH CASEWORK BODY
G1	PROVIDE NEW SPECIFIED WINDOW SYSTEM.
LAV	LAVATORY. REFER TO PLUMBING DRAWINGS
SSC	SOLID SURFACE COUNTERTOP, CONTINUOUS
SWB	SCHEDULED WALL BASE
W1	INFILL WALL WITH STUD WALL TO MATCH ADJACENT WALL THICKNESS AND FINISH. REFER TO LIFE SAFETY DRAWINGS FOR MORE INFORMATION ON RATED WALLS.
W2	INFILL WALL WITH CMU WALL TO MATCH ADJACENT WALL THICKNESS AND FINISH. REFER TO LIFE SAFETY DRAWINGS FOR MORE INFORMATION ON RATED WALLS.
W9	PREP AND PAINT WALL SURFACE IN ITS ENTIRETY.
W11	PROVIDE NEW PARTITION.

KEY PLAN



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Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
CHRISTOPHER M. RITZENTHALER
083934
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION
1	11/25/2024	SED ADD #2

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Issued for Bid:	03/14/2025

Sheet Title
ENLARGED PLANS AND INTERIOR ELEVATIONS

Sheet No.
HBE
2-A601

CONSTRUCTION DOCUMENTS

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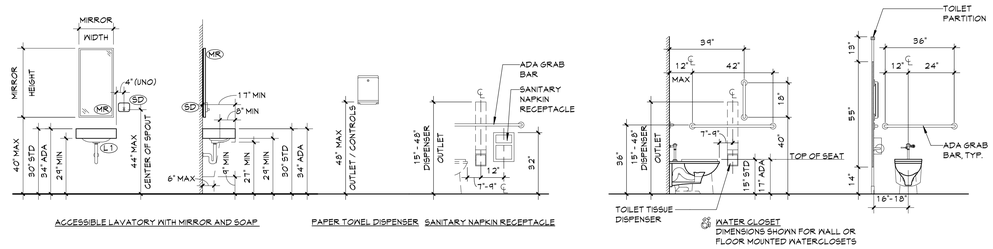
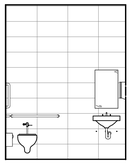
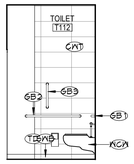


16 TYPICAL PLUMBING FIXTURE ELEVATIONS
2-A602 3/8" = 1'-0"

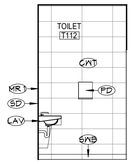


15 T112 WEST ELEVATION
2-A602 1/4" = 1'-0"

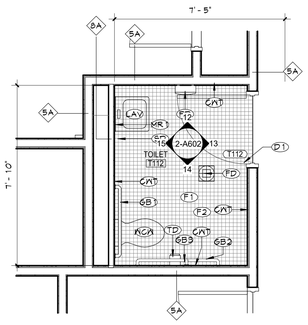


14 T112 SOUTH ELEVATION
2-A602 1/4" = 1'-0"

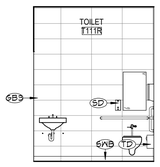
13 T112 EAST ELEVATION
2-A602 1/4" = 1'-0"



12 T112 NORTH ELEVATION
2-A602 1/4" = 1'-0"



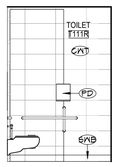
11 TOILET T112 FLOOR PLAN
2-A602 3/8" = 1'-0"



10 T1114 WEST ELEVATION
2-A602 1/4" = 1'-0"

9 T111R SOUTH ELEVATION
2-A602 1/4" = 1'-0"

8 T111R EAST ELEVATION
2-A602 1/4" = 1'-0"



7 T111R NORTH ELEVATION
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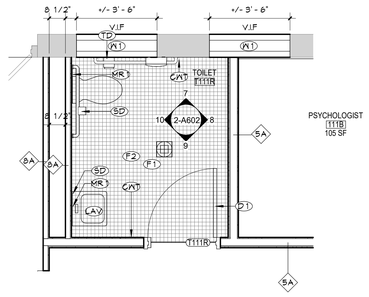

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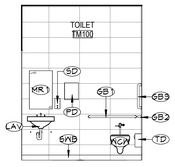
2-A602 3/8" = 1'-0"



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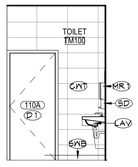

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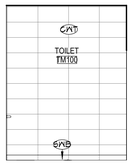
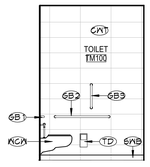
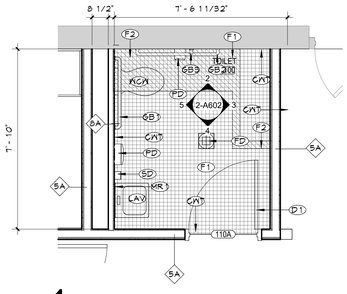


3 TM100 EAST ELEVATION
2-A602 1/4" = 1'-0"



2 TM100 NORTH ELEVATION
2-A602 1/4" = 1'-0"



1 TOILET TM100 FLOOR PLAN
2-A602 3/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES
2. REFER TO LS100 SERIES DRAWINGS FOR LIFE SAFETY PLANS AND DETAILED INFORMATION.
5. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
6. REFER TO SHEET G001 FOR PARTITION TYPES AND ADDITIONAL NOTES.
7. REFER TO A800 SERIES DRAWINGS ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CEILING SCOPE.
8. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, WINDOW, DETAILS, SCHEDULES, AND NOTES. REFER FOR LOOSE LINTEL SCHEDULE
9. REFER TO AF100 SERIES DRAWINGS FOR FINISH SCHEDULES, PLANS, AND NOTES.

TOILET ROOM NOTES

1. THE HEIGHTS SHOWN ARE TYPICAL AND DO NOT NECESSARILY SHOW ALL EQUIPMENT THAT ARE TO BE LOCATED ON WALLS.
2. THESE GUIDELINES ESTABLISH LOCATION OF FIXTURES AND EQUIPMENT VERTICALLY AT THE WALL GENERALLY THROUGHOUT THE PROJECT.
3. THE DIMENSIONS CALLED OUT ARE TO THE TOP OR BOTTOM OF FIXTURES AND EQUIPMENT FACE PLATES/TRIM AS SHOWN, UNO.
4. THE DIMENSIONS CALLED OUT ARE TO THE CENTERLINE OF FIXTURES AND EQUIPMENT AS SHOWN, UNO.
5. ALL ACCESSORIES TO BE SURFACE MOUNTED, UNO.
6. INSTALL PRESSURE TREATED WOOD BLOCKING IN STUD PARTITIONS AT ALL LOCATIONS WHERE TOILET ACCESSORIES ARE MOUNTED TO THE WALL.

KEYNOTES

#	DESCRIPTION
CWT	CERAMIC WALL TILE. REFER TO FINISH DRAWINGS FOR SPECIFIC TILE SIZE, FINISH AND PATTERN.
D1	PROVIDE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
F1	PROVIDE NEW FLOOR FINISH, (TYPICAL FOR ROOM, UNLESS NOTED OTHERWISE); REFER TO 'AF' DRAWINGS
F2	PROVIDE SELF-LEVELING COMPOUND TO ACHIEVE LEVEL SURFACE FOR FINISHED FLOORING.
FD	FLOOR DRAIN
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
MR1	18"x30" CHANNEL FRAMED GLASS MIRROR
PD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER)
SD	SOAP DISPENSER (SUPPLIED BY OWNER)
SWB	SCHEDULED WALL BASE
TD	TOILET TISSUE DISPENSER (SUPPLIED BY OWNER)
W1	INFILL WALL WITH STUD WALL TO MATCH ADJACENT WALL THICKNESS AND FINISH. REFER TO LIFE SAFETY DRAWINGS FOR MORE INFORMATION ON RATED WALLS.
WCW	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS

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Project Title
CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

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Drawn By:	RC
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Sheet Title
ENLARGED TOILET ROOM PLANS, ELEVATIONS AND DETAILS

Sheet No.
HBE
2-A602

CONSTRUCTION DOCUMENTS

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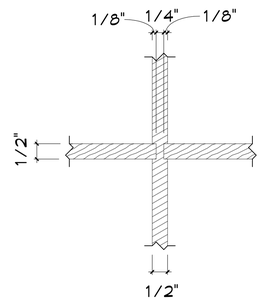
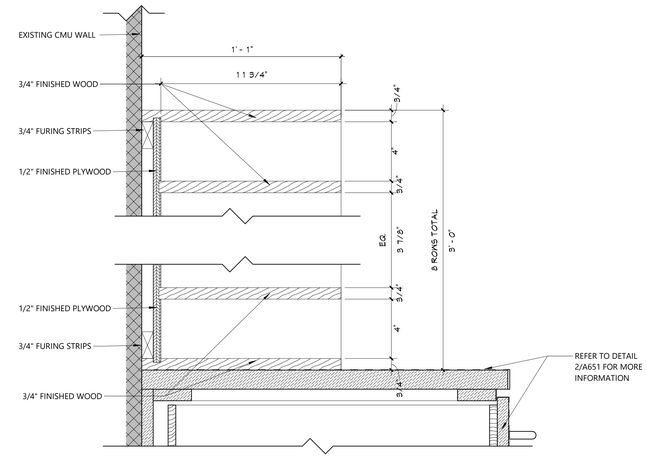
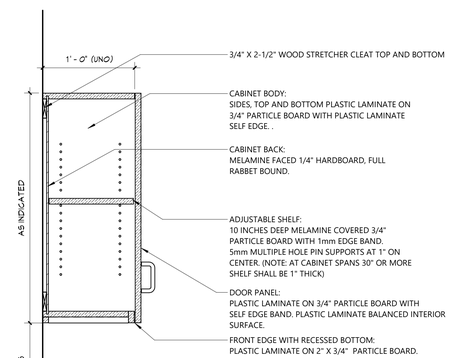
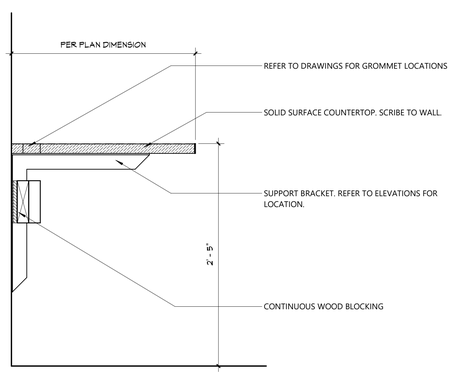


6 MAILBOX DETAIL
2-A651 6" = 1'-0"

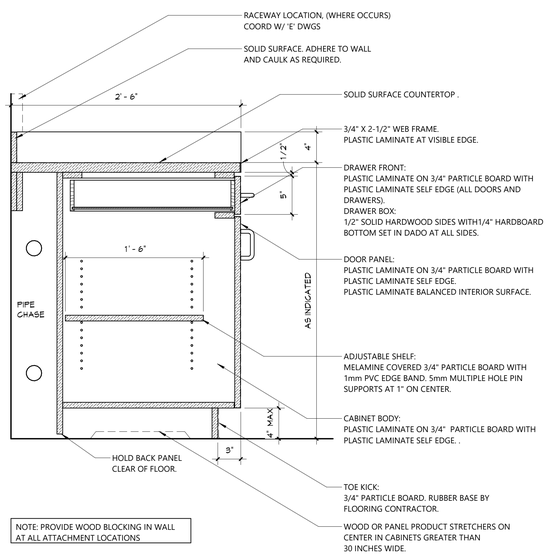


5 MAILBOX DETAIL
2-A651 3" = 1'-0"



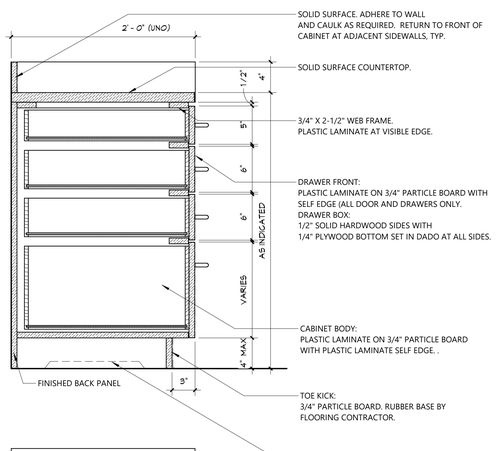


4 COUNTER DETAIL
2-A651 1 1/2" = 1'-0"



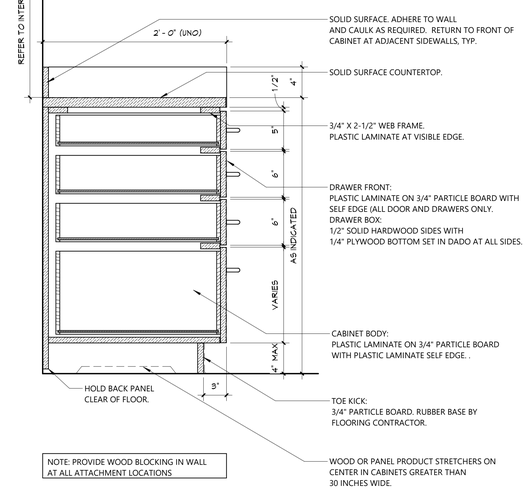
NOTE: PROVIDE WOOD BLOCKING IN WALL AT ALL ATTACHMENT LOCATIONS

3 CASEWORK DETAIL
2-A651 1 1/2" = 1'-0"



NOTE: PROVIDE WOOD BLOCKING IN WALL AT ALL ATTACHMENT LOCATIONS

2 CASEWORK DETAIL
2-A651 1 1/2" = 1'-0"



NOTE: PROVIDE WOOD BLOCKING IN WALL AT ALL ATTACHMENT LOCATIONS

1 CASEWORK DETAIL
2-A651 1 1/2" = 1'-0"

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CSARCH

Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
RICHARD J. RITTER
E23345
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02-28-2025
Expiration Date: 02/28/2025

#:	DATE	DESCRIPTION

Drawn By:	RC
Checked By:	MZ
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CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

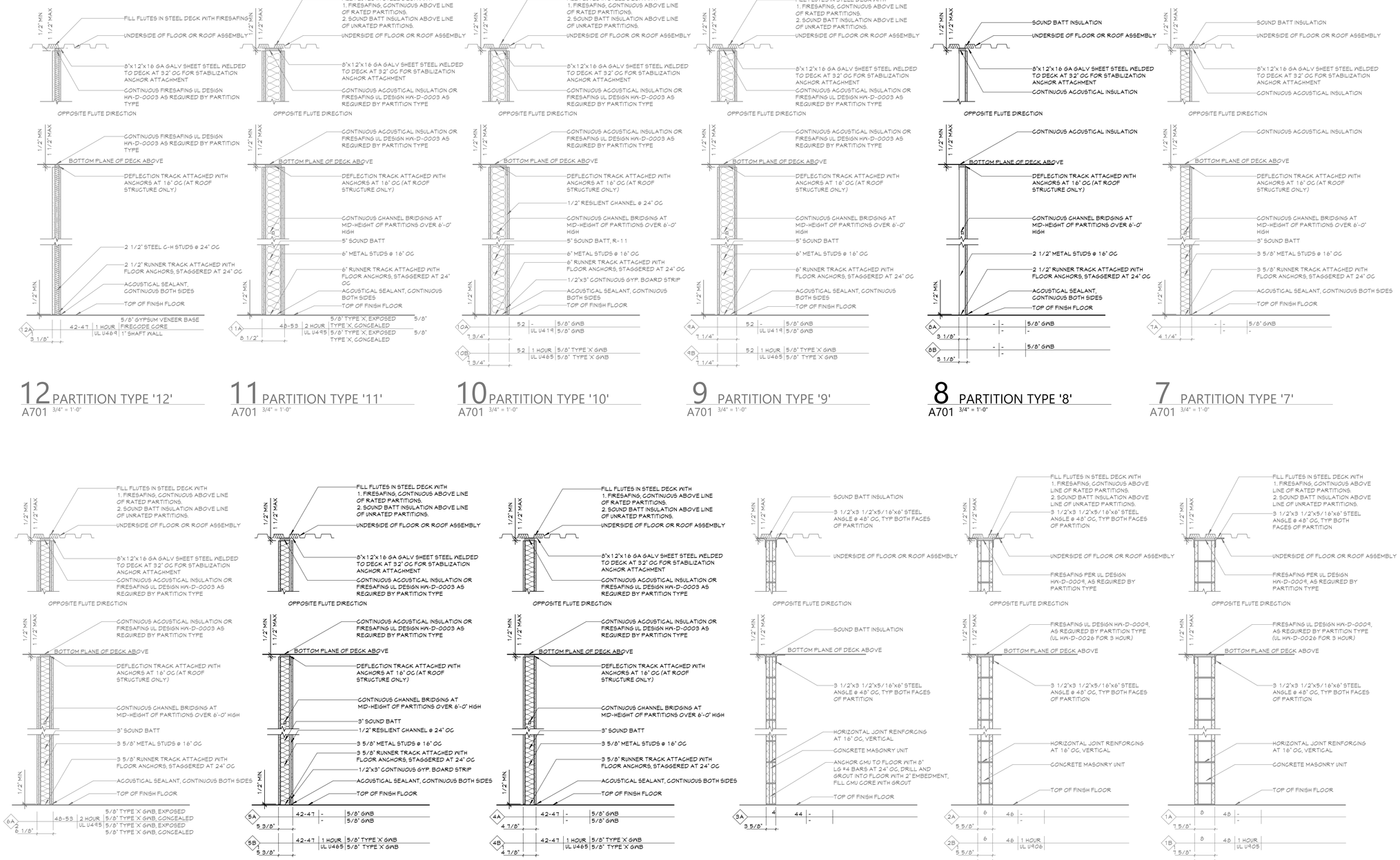
Sheet Title

CASEWORK DETAILS

Sheet No.

HBE
2-A651

CONSTRUCTION DOCUMENTS



12 PARTITION TYPE '12'
A701 3/4" = 1'-0"

11 PARTITION TYPE '11'
A701 3/4" = 1'-0"

10 PARTITION TYPE '10'
A701 3/4" = 1'-0"

9 PARTITION TYPE '9'
A701 3/4" = 1'-0"

8 PARTITION TYPE '8'
A701 3/4" = 1'-0"

7 PARTITION TYPE '7'
A701 3/4" = 1'-0"

6 PARTITION TYPE '6'
A701 3/4" = 1'-0"

5 PARTITION TYPE '5'
A701 3/4" = 1'-0"

4 PARTITION TYPE '4'
A701 3/4" = 1'-0"

3 PARTITION TYPE '3'
A701 3/4" = 1'-0"

2 PARTITION TYPE '2'
A701 3/4" = 1'-0"

1 PARTITION TYPE '1'
A701 3/4" = 1'-0"

PARTITION NOTES

1A — PARTITION TYPE NUMBER
— FIRE RATING HOUR
— ASTERISK DENOTES LEVEL 5 FINISH

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 CONTINUOS 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 OF DOOR)
   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 METAL STUDS 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

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Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
CHRISTOPHER J. MCDONNELL
032434
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 10/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	RC
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Sheet Title

PARTITION TYPES

Sheet No.

HBE
2-A701

CONSTRUCTION DOCUMENTS

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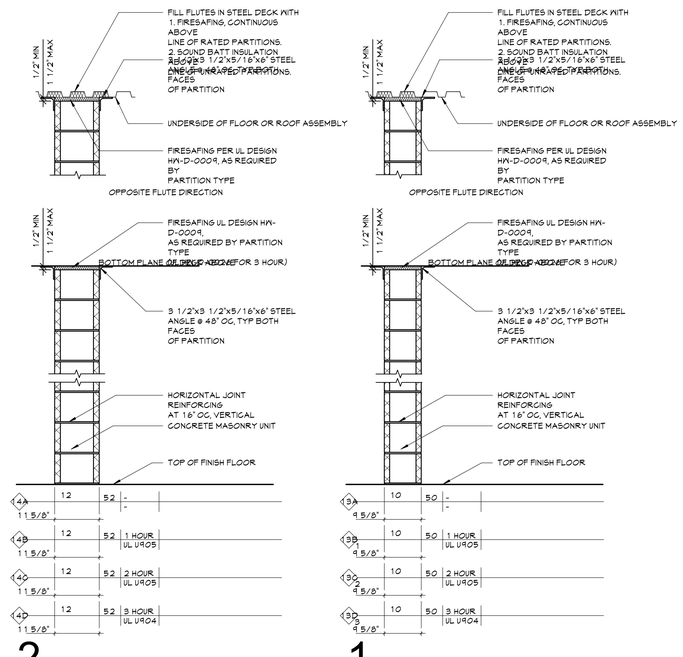

2 PARTITION TYPE '14'
A702 3/4" = 1'-0"

1 PARTITION TYPE '13'
A702 3/4" = 1'-0"

PARTITION NOTES

1A — PARTITION TYPE NUMBER
— FIRE RATING HOUR
— ASTERISK DENOTES LEVEL 5 FINISH

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.

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 OF DOOR)
   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 METAL STUDS 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

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Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT CHRISTOPHER M. RITZENTHALER 022135 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
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Sheet Title

PARTITION TYPES

Sheet No.

HBE
2-A702

CONSTRUCTION DOCUMENTS

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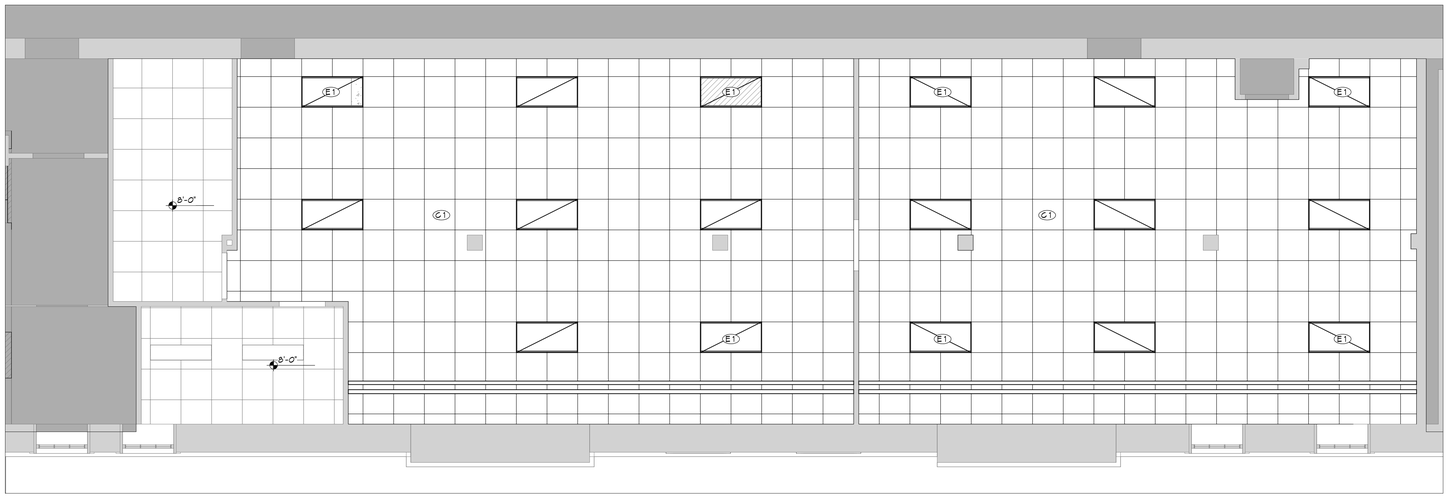
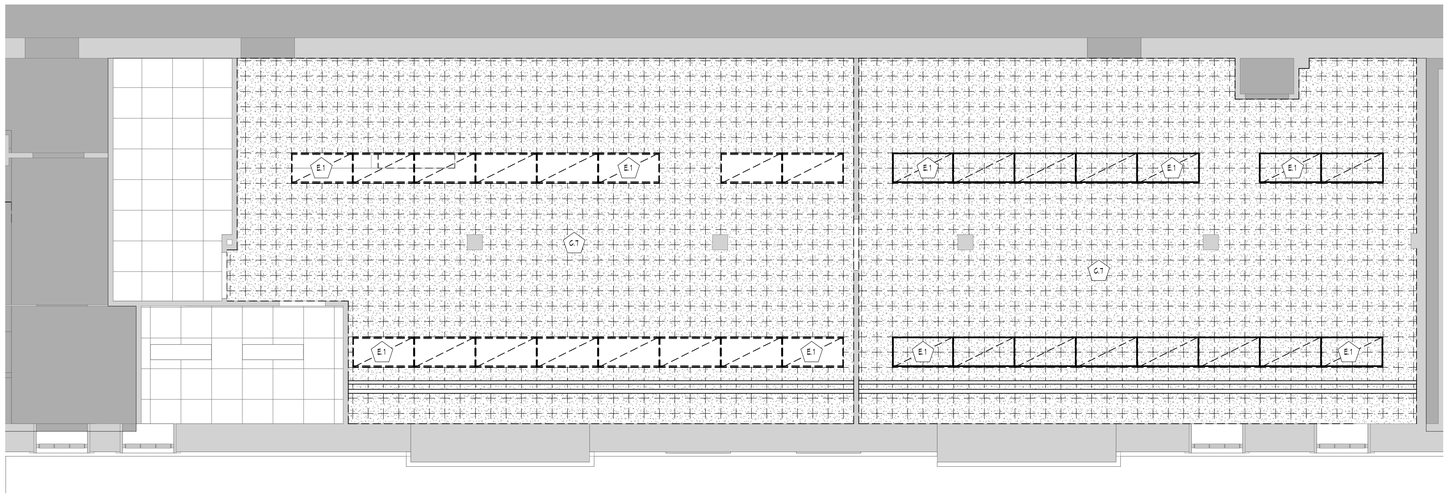


2 ENLARGED GROUND FLOOR RCP
2-A802 1/4" = 1'-0"



1 ENLARGED GROUND FLOOR DEMO RCP
2-A802 1/4" = 1'-0"

CEILING NOTES

1. INSTALL CEILING GRIDS CENTERED IN THE ROOM, UNO. IN ROOMS OTHER THAN RECTANGULAR SHAPED, INSTALL GRIDS CENTERED ON WALLS OR OTHER BUILT FEATURES AS INDICATED.
2. INSTALLATION HEIGHTS OF THE CEILINGS MAY VARY SLIGHTLY FROM PLANS IN ROOMS WITH EXTERIOR WINDOWS. ACTUAL CEILING HEIGHT TO BE VERIFIED IN THE FIELD.
3. FINAL INSTALLED CEILINGS SHALL HAVE HEIGHTS COORDINATED WITH OTHER CONTRACTORS WITH ABOVE CEILING WORK AND VERIFIED WITH FIELD CONDITIONS. ALL CHANGES IN CONFIGURATION OR HEIGHTS ARE TO BE APPROVED BY THE ARCHITECT.
4. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES, AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
5. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM SPEAKERS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN MULTIPLE ITEM CENTER OR EDGES.

CEILING LEGEND

GWB OR PLASTER CEILING, REFER TO DETAILS AND ROOM FINISH SCHEDULE

SUSPENDED ACOUSTICAL CEILING TILE SYSTEM (TYPCIALLY 2X2 OR 2X4)

+X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR, REFER TO FINISH PLANS & SCHEDULE

ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2'x4' LIGHT FIXTURE

2'x2' LIGHT FIXTURE

1'x LIGHT FIXTURE

MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

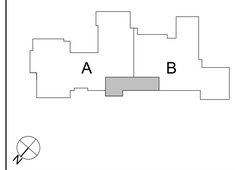
HVAC SUPPLY GRILLE

HVAC RETURN GRILLE

KEYNOTES

#	DESCRIPTION
C1	24"x24" ACOUSTIC PANELS AND SUSPENSION SYSTEM.
C.7	REMOVE 1X1 CONCEALED SPLINE CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL HANGERS AND FASTENERS. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS FOR OTHER REMOVALS.
E1	LIGHT FIXTURE INSTALLATION, TYPICAL REFER TO 'E' DRAWINGS.
E.1	LIGHT FIXTURE REMOVAL, REFER TO 'E' DRAWINGS AND ABATEMENT DRAWINGS AND REPORT.

KEY PLAN



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CSARCH

Consultant

Project Title
CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
ROBERT W. RITZENHEIMER
082334
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	RC
Checked By:	MZ
Proj. #:	66-11-00-01-0-004-016
CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

Sheet Title
ENLARGED GROUND DEMOLITION & NEW WORK RCP

Sheet No.
HBE
2-A802

CONSTRUCTION DOCUMENTS

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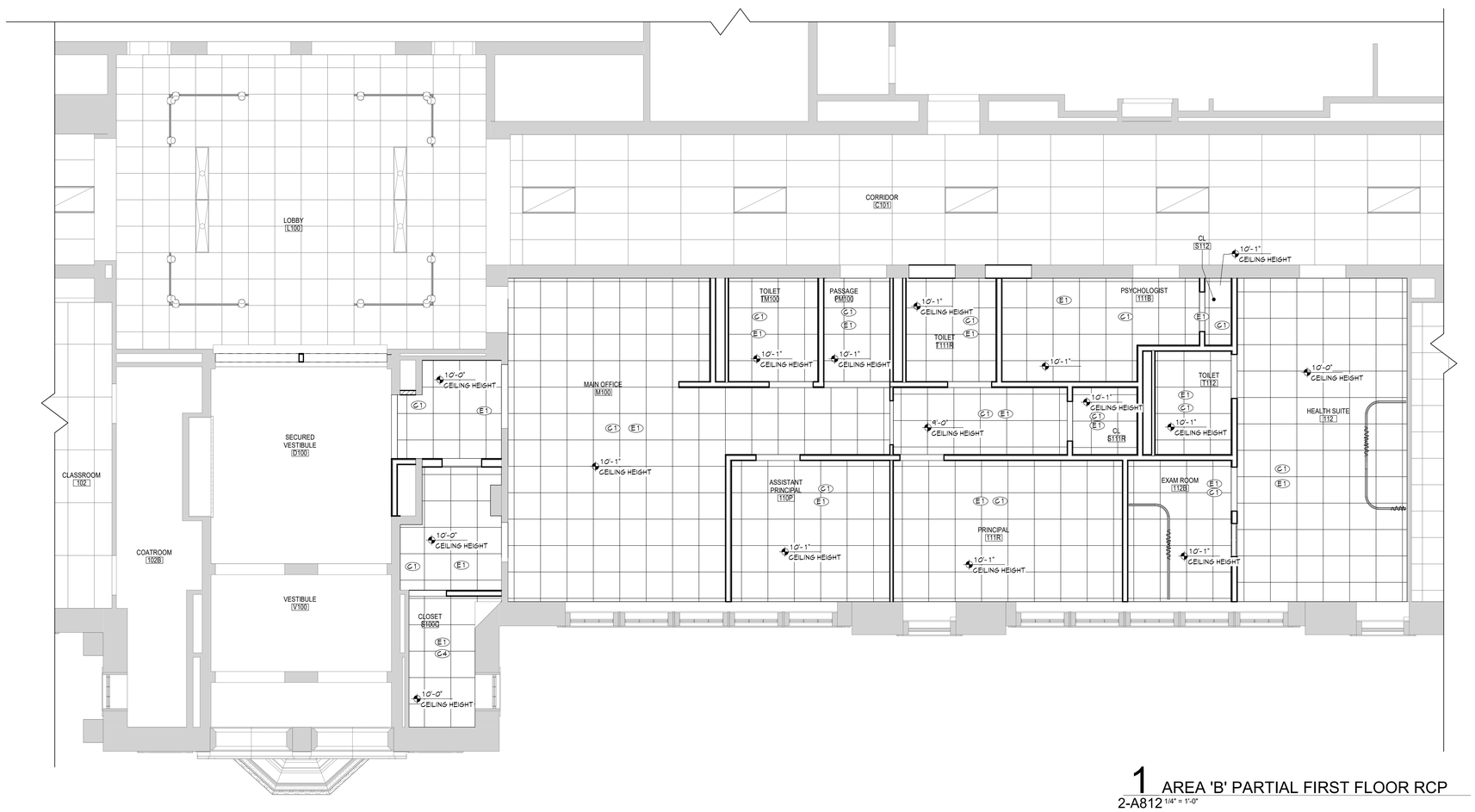


1 AREA 'B' PARTIAL FIRST FLOOR RCP
2-A812 1/4" = 1'-0"

CEILING NOTES

1. INSTALL CEILING GRIDS CENTERED IN THE ROOM, UNO. IN ROOMS OTHER THAN RECTANGULAR SHAPED, INSTALL GRIDS CENTERED ON WALLS OR OTHER BUILT FEATURES AS INDICATED.
2. INSTALLATION HEIGHTS OF THE CEILINGS MAY VARY SLIGHTLY FROM PLANS IN ROOMS WITH EXTERIOR WINDOWS. ACTUAL CEILING HEIGHT TO BE VERIFIED IN THE FIELD.
3. FINAL INSTALLED CEILINGS SHALL HAVE HEIGHTS COORDINATED WITH OTHER CONTRACTORS WITH ABOVE CEILING WORK AND VERIFIED WITH FIELD CONDITIONS. ALL CHANGES IN CONFIGURATION OR HEIGHTS ARE TO BE APPROVED BY THE ARCHITECT.
4. LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES, AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
5. CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM SPEAKERS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN MULTIPLE ITEM CENTER OR EDGES.

CEILING LEGEND

GWB OR PLASTER CEILING, REFER TO DETAILS AND ROOM FINISH SCHEDULE

SUSPENDED ACOUSTICAL CEILING TILE SYSTEM (TYPCIALLY 2X2 OR 2X4)

+X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR, REFER TO FINISH PLANS & SCHEDULE

ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2'x4' LIGHT FIXTURE

2'x2' LIGHT FIXTURE

1'x LIGHT FIXTURE

MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

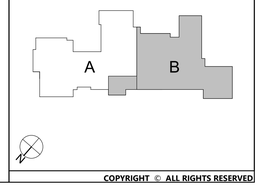
HVAC SUPPLY GRILLE

HVAC RETURN GRILLE

KEYNOTES

#	DESCRIPTION
C1	24"x24" ACOUSTIC PANELS AND SUSPENSION SYSTEM.
C4	REINSTALL SALVAGED EXISTING SUSPENDED CEILING PANELS IN NEW NEW MODIFIED ACOUSTIC PANEL GRID SYSTEM. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT INSTALLATIONS.
E1	LIGHT FIXTURE INSTALLATION, TYPICAL REFER TO 'E' DRAWINGS.

KEY PLAN



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Consultant

Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

#	DATE	DISCRIPTION

Drawn By:	RC
Checked By:	MZ
Proj. #:	66-11-00-01-0-004-016
CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

Sheet Title

ENLARGED VESTIBULE REFLECTED CEILING PLAN

Sheet No.

HBE
2-A812

CONSTRUCTION DOCUMENTS

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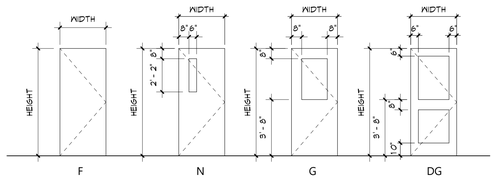
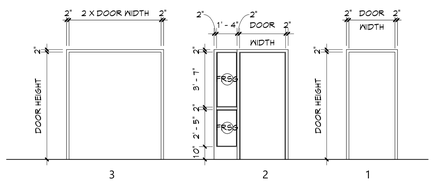
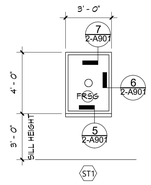


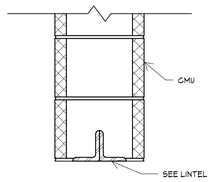
A900 DOOR TYPES
1/4" = 1'-0"



A900 FRAME TYPES
1/4" = 1'-0"



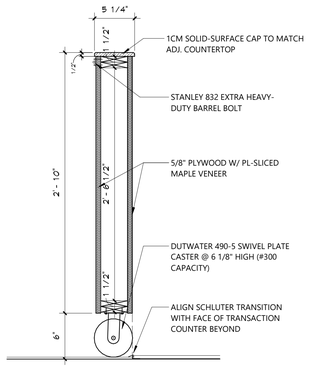
A900 WINDOW TYPES
1/4" = 1'-0"



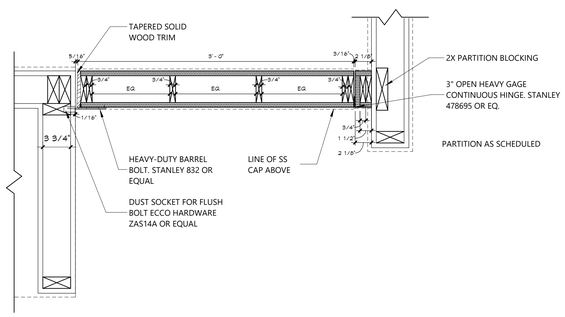
NOTES:
1. PROVIDE 1 ANGLE FOR EACH 4" OF MASONRY WIDTH.
2. BEAR LINTELS 6" MINIMUM EACH END OF OPENING.
3. PROVIDE SOLID MASONRY AT LINTEL BEARING.
4. WHERE LINTEL BEARING INTERFERES WITH CONTROL JOINT PLACEMENT, PROVIDE FLEXIBLE CAULK JOINT AT THIS LOCATION.
5. ALL EXTERIOR/EXPOSED LINTELS ARE TO BE HOT-DIP GALVANIZED.
6. SEE ARCH AND MECH DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
7. CONSULT THE ENGINEER TO CONFIRM LINTEL REQUIREMENTS WHEN THE LINTEL SIZE IS NOT SHOWN ON PLAN AND ONE OF THE FOLLOWING OCCURS:
   A. WHEN LINTEL OPENING OCCURS IN BEARING WALLS.
   B. THE HEIGHT OF CMU ABOVE LINTEL IS LESS THAN THE OPENING WIDTH.
   C. A CONTROL JOINT IS LOCATED DIRECTLY ABOVE OR WITHIN 16" OF THE JAMB OPENING.
8. PLANS DO NOT SHOW THE FULL SCOPE OF STEEL LINTELS REQUIRED FOR NEW WALL OPENINGS FOR DOORS, WINDOWS, DUCTS, LOUVERS, ETC. FOR MASONRY OPENING SIZE, SEE ARCH AND MECH DRAWINGS.

STEEL ANGLE LOOSE LINTEL SCHEDULE		
MASONRY OPENING	ANGLE SIZE	LABEL
UP TO	L3 1/2" x 3	L
OVER 4'-0" TO	L4" x 3 1/2" x	L
OVER 5'-0" TO	L4" x 3 1/2" x	L
OVER 6'-0" TO	L6" x 3 1/2" x	L

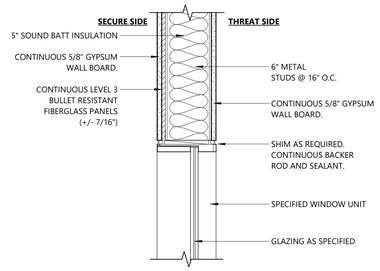
10 LOOSE LINTEL SCHEDULE
2-A901 1 1/2" = 1'-0"



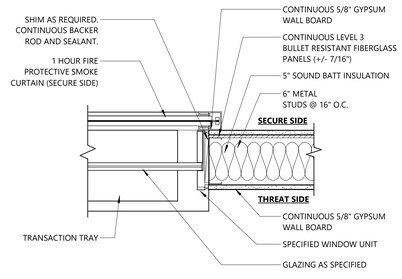
9 COUNTER DOOR DETAIL
2-A901 1 1/2" = 1'-0"



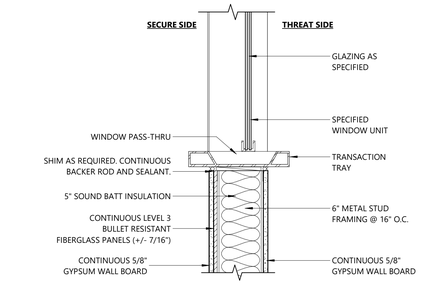
8 COUNTER DOOR DETAIL
2-A901 1 1/2" = 1'-0"



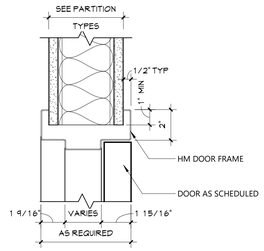
7 HEAD DETAIL - SECURITY WINDOW
2-A901 1 1/2" = 1'-0"



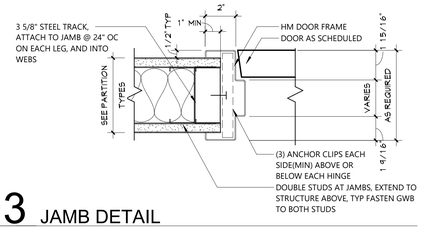
6 JAMB DETAIL - SECURITY WINDOW
2-A901 1 1/2" = 1'-0"



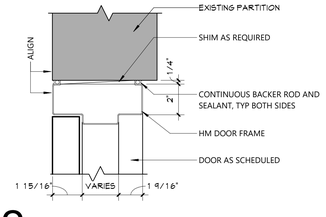
5 SILL DETAIL - SECURITY WINDOW
2-A901 1 1/2" = 1'-0"



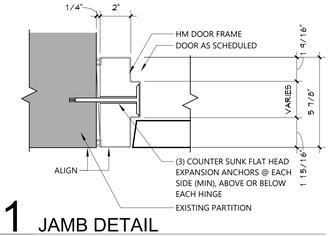
4 HEAD DETAIL
2-A901 3" = 1'-0"



3 JAMB DETAIL
2-A901 3" = 1'-0"



2 HEAD DETAIL
2-A901 3" = 1'-0"



1 JAMB DETAIL
2-A901 3" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	QUANTITY	FROM	ROOM NAME	TO	ROOM NAME	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	LABEL (MIN)	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	REMARKS	DOOR NUMBER
110A	1	M100	MAIN OFFICE	TM100	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	3/A901	-	-	-	9.0	-	-		110A
110P	1	M100	MAIN OFFICE	110P	ASSISTANT PRINCIPAL	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PT	4/A901	3/A901	-	-	LM	10.0	-	-		110P
111	1	M100	MAIN OFFICE	111	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PT	4/A901	3/A901	-	-	LM	11.0	-	-		111
111R	1	111	CORRIDOR	111R	PRINCIPAL	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PT	4/A901	3/A901	-	-	LM	10.0	-	-		111R
112B	1	112	HEALTH SUITE	112B	EXAM ROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PT	4/A901	3/A901	-	-	LM	13.0	-	-		112B
D100	PR	L100	LOBBY	D100	SECURED VESTIBULE	3' - 0"	7' - 0"	1 3/4"	G	ALUM	FF	3	HM	PT	4/A901	3/A901	-	-	SG	14.0	-	YES		D100
M100	1	S100B	SECURITY TRANSACTION	M100	MAIN OFFICE	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	2	HM	PT	4/A901	3/A901	-	45	FRSG	15.0	-	YES		M100
M100A	1	M100	MAIN OFFICE	M100	MAIN OFFICE	3' - 0"	2' - 10"	1 3/4"	F	ALUM	FF	1	HM	PT		8/A901								M100A
S100C	1	S100C	CLOSET	S100A	SECURITY	2' - 6"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	3/A901	-	-	-	16.0	-	-		S100C
S100D	PR	L100	LOBBY	D100	SECURED VESTIBULE	3' - 0"	7' - 0"	1 3/4"	G	ALUM	FF	3	HM	PT	4/A901	3/A901	-	-	SG	17.0	-	-		S100D
S111R	1	S111R	CL	111	CORRIDOR	2' - 8"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	3/A901	-	-	-	18.0	-	-		S111R
S112	1	111B	PSYCHOLOGIST	S112	CL	2' - 8"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	3/A901	-	-	-	19.0	-	-		S112
T111R	1	111	CORRIDOR	T111R	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	3/A901	-	-	-	20.0	-	-		T111R
T112	1	112	HEALTH SUITE	T112	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	3/A901	-	-	-	21.0	-	-		T112

Grand total: 14

GLAZING TYPES

GCL	LOW-E COATED, INSULATED GLASS
CI	CLEAR INSULATED GLASS
FR	FIRE RATED GLASS
FRSG	FIRE RATED SECURITY GLASS
FT	FULLY TEMPERED GLASS
LM	LAMINATED GLASS
SG	SECURITY GLASS
SP	SPANDREL GLASS

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Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT JOHN M. RITARDI 025234 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

1	11/25/2024	SED ADD #2
A	DATE	DESCRIPTION

Drawn By:	RC
Checked By:	MZ
Proj. #:	66-11-00-01-0-004-016
CSArch Proj. #:	188-2301.02
Issued for Bid:	03/14/2025

Sheet Title

DOOR SCHEDULE AND DETAILS

Sheet No.

HBE
2-A901

CONSTRUCTION DOCUMENTS

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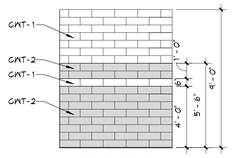
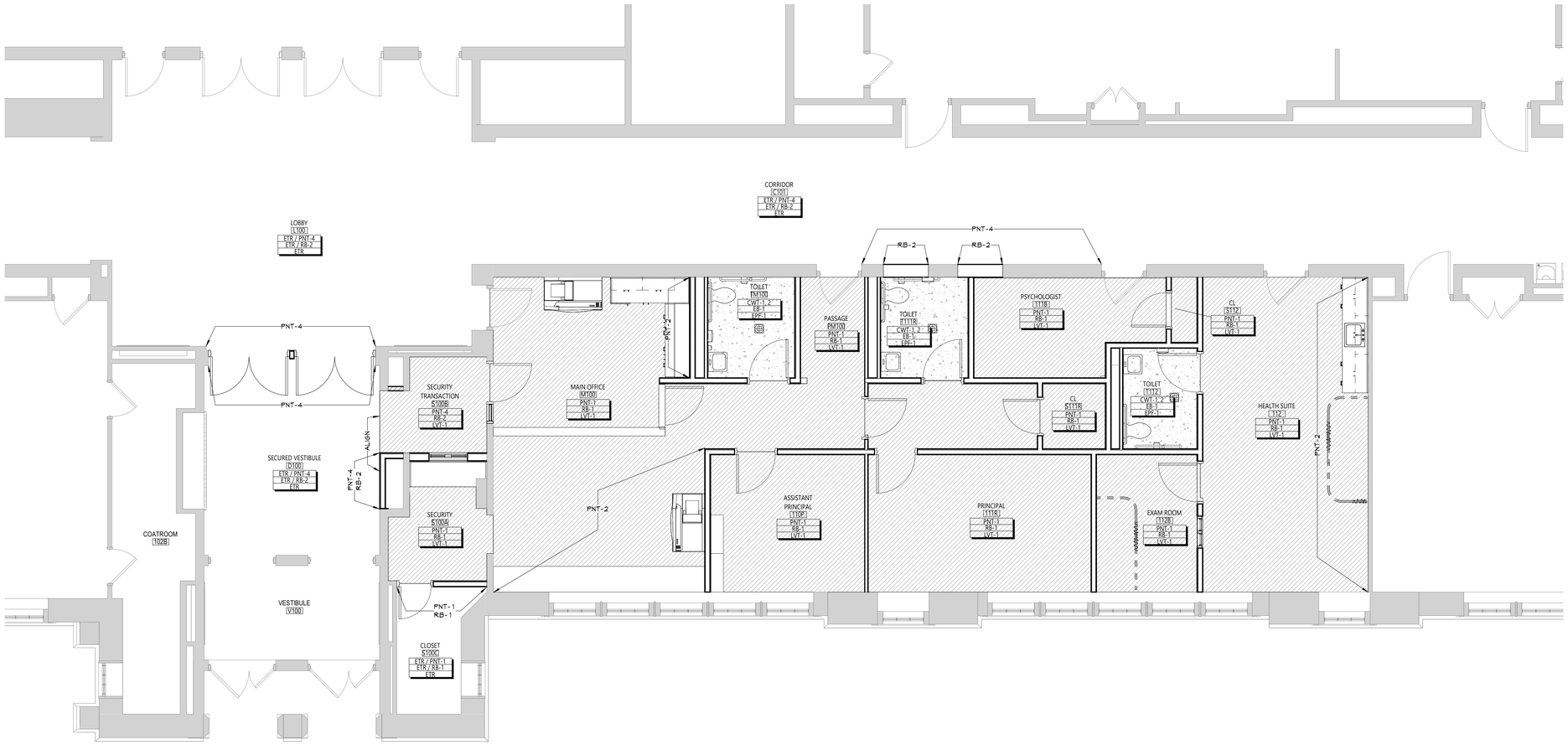
MATERIALS LEGEND					
MATERIAL	MANUFACTURER	MODEL	COLOR #/NAME	SIZE	NOTE
CERAMIC TILE BASE					
CTB-1	DALTILE	COLOR WHEEL LINEAR	X114 DESERT GRAY GLOSSY	4" x 12"	TOILETS
CERAMIC WALL TILE					
CWT-1	DALTILE	COLOR WHEEL LINEAR	0190 ARCTIC WHITE GLOSSY	6" X 18"	GENERAL WALL TILE @ TOILETS
CWT-2	DALTILE	COLOR WHEEL LINEAR	X114 DESERT GRAY GLOSSY	6" X 18"	GENERAL WALL TILE @ TOILETS
EPOXY RESIN FLOOR					
EPF-1	STONHARD	STONBLEND	CRUSHED SLATE	6" X 18"	TOILETS
LUXURY VINYL TILE					
LVT-1	MOHAWK GROUP	MATUTO PLUS STONE	915A FROSTBITE STONE	12" x 24"	TYP. FLOOR
PAINT					
PNT-1	SHERWIN WILLIAMS	EGGSHELL	SW 7064 PASSIVE		TYP. WALL
PNT-2	SHERWIN WILLIAMS	EGGSHELL	SW 9147 FAVORITE JEANS		ACCENT PAINT
PNT-3	SHERWIN WILLIAMS	SEMI GLOSS	SW 7650 ELLIE GRAY		HM DOOR FRAMES
PNT-4	SHERWIN WILLIAMS	EGGSHELL	AS SELECTED FROM FULL RANGE OF COLOR / MATCH EXISTING		VESTIBULE / CORRIDOR
PLASTIC LAMINATE					
PLAM-1	WILSONART	PLASTIC LAMINATE	FAWN CYPRESS		CASEWORK
RUBBER BASE					
RB-1	TARKETT	BASEWORKS	TAS COLONIAL GREY		FIELD
RB-2	TARKETT	BASEWORKS	AS SELECTED FROM FULL RANGE OF COLOR / MATCH EXISTING		PATCH @ CORRIDOR/ VESTIBULE
SOLID SURFACE					
SS-1	WILSONART	SOLID SURFACE	BLUESTONE 9074EA		COUNTERTOPS

FINISH SCHEDULE							
NUMBER	ROOM NAME	BASE FINISH	FLOOR FINISH	WALL FINISH	ACCENT WALL	CEILING FINISH	REMARKS
110P	ASSISTANT PRINCIPAL	RB-1	LVT-1	PNT-1			
111B	PSYCHOLOGIST	RB-1	LVT-1	PNT-1			
111R	PRINCIPAL	RB-1	LVT-1	PNT-1			
112	HEALTH SUITE	RB-1	LVT-1	PNT-1	PNT-2		
112B	EXAM ROOM	RB-1	LVT-1	PNT-1			
C101	CORRIDOR	ETR / RB-2	ETR	ETR / PNT-4		ETR	
D100	SECURED VESTIBULE	ETR / RB-2	ETR	ETR / PNT-4		ETR	
L100	LOBBY	ETR / RB-2	ETR	ETR / PNT-4		ETR	
M100	MAIN OFFICE	RB-1	LVT-1	PNT-1	PNT-2		
PM100	PASSAGE	RB-1	LVT-1	PNT-1			
S100A	SECURITY	RB-1	LVT-1	PNT-1			
S100B	SECURITY TRANSACTION	RB-2	LVT-1	PNT-4			
S100C	CLOSET	ETR / RB-1	ETR	ETR / PNT-1		ETR	
S111R	CL	RB-1	LVT-1	PNT-1			
S112	CL	RB-1	LVT-1	PNT-1			
T111R	TOILET	EB-1	EPF-1	CWT-1, 2			
T112	TOILET	EB-1	EPF-1	CWT-1, 2			
TM100	TOILET	EB-1	EPF-1	CWT-1, 2			



TOILET ROOMS
TYPICAL
ALL SIDES



1 FIRST FLOOR FINISH PLAN
2-AF001 1/4" = 1'-0"

DISCLAIMER NOTE

MANUFACTURER'S NAMES AND FINISH INFORMATION ARE INDICATED AS REFERENCED 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

ACMU	ARCHITECTURAL CONCRETE MASONRY UNIT
ACT	ACOUSTICAL CEILING TILE
APC	ACOUSTICAL PANEL CEILING
BBT	BIO-BASED TILE
BRK	BRICK
CFT	CERAMIC FLOOR TILE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CTB	CERAMIC TILE BASE
CWT	CERAMIC WALL TILE
ETR	EXISTING TO REMAIN
EXP	EXPOSED
EXST	EXISTING
FAC/FF	FACTORY FINISH
GWB	GYPSUM WALL BOARD
LMC	LINEAR METAL CEILING
MSS	MUSIC STORAGE SYSTEM
MWP	METAL WALL PANEL
PCON	POLISHED CONCRETE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PNT	PAINT
RAF	RESILIENT ATHLETIC FLOORING
RB	RUBBER BASE
RF	RESINOUS FLOORING
RST	RUBBER STAIR TREAD / LANDING
RT	RUBBER TILE FLOORING
SCONC	SEALED CONCRETE
SS	STAINLESS STEEL
STF	SYNTHETIC TURF FLOORING
STL	STEEL
TERR	TERRAZZO
TP	TOILET PARTITIONS
TYP	TYPICAL
VCT	VINYL COMPOSITION TILE
VCTAS	VINYL COMPOSITION TILE ANTI-STATIC
VWC	VINYL WALLCOVERING
WAF	WOOD ATHLETIC FLOORING
WD	WOOD
WOM	WALK-OFF MAT

GENERAL FINISH NOTES

1. ALL EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE PAINTED.
2. WHEN ANY WORK IS PERFORMED ON ANY EXISTING WALL, THE ENTIRE WALL SURFACE IS TO BE PAINTED CORNER TO CORNER, UNLESS NOTED OTHERWISE.
3. NEW HM DOOR FRAMES AND WINDOW FRAMES AS SCHEDULED ON A900 SERIES DRAWINGS, PNT-3.

FINISH KEYS

Room Name
[101]
Wall Finish
Base Finish
Floor Finish
= Finish Tag

PNT-# ACCENT PAINT LOCATION

= LVT-1

= EPF-1

KEY PLAN

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Project Title

CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2A

REGISTERED ARCHITECT
MARK E. RITZENHEIMER
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 02/28/2025
Expiration Date: 02/28/2025

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Sheet Title

FINISH PLAN, NOTES & SCHEDULES

Sheet No.

HBE
2-AF001

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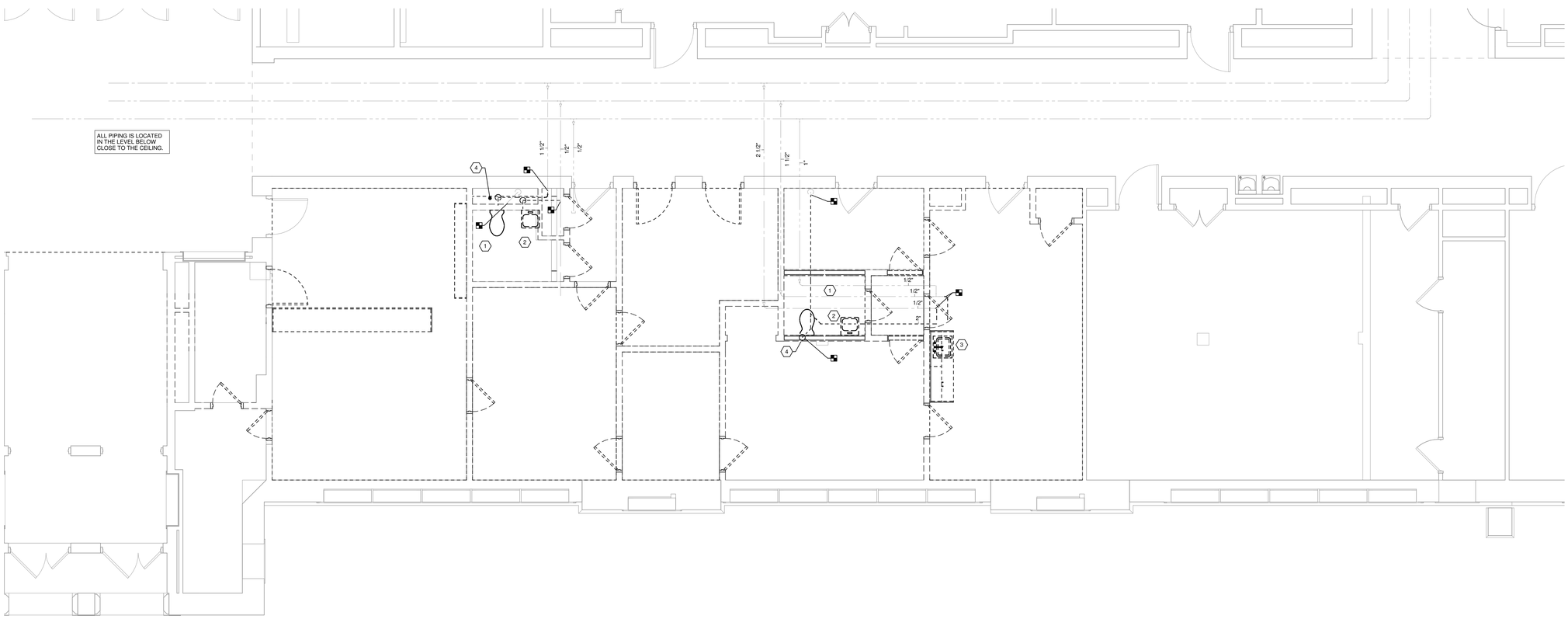


1 / PD101 FIRST FLOOR PLUMBING REMOVAL PLAN
1/4" = 1'-0"

GENERAL REMOVAL NOTES

A. UNLESS NOTED OTHERWISE, ALL ITEMS INDICATED ARE TO BE REMOVED "COMPLETE". REMOVAL SHALL INCLUDE ALL COMPONENTS, PIPING, HANGERS, SUPPORTS, ASSOCIATED WITH THE EQUIPMENT.

B. CONTRACTOR IS TO INSPECT EQUIPMENT THAT IS TO BE REUSED AND DETERMINE THAT IT IS COMPLETE AND IN GOOD WORKING ORDER. IF NOT, REPORT FINDINGS TO THE ARCHITECT/ENGINEER.

C. EVERY EFFORT HAS BEEN MADE TO INDICATE ALL EQUIPMENT THAT IS TO BE REMOVED THROUGH FIELD OBSERVATIONS, HOWEVER, THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BIDDING AND VERIFY ALL REMOVALS.

D. ALL ITEMS BEING REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER FOR FUTURE USE. IF OWNER DECIDES THE FIXTURES ARE NOT REUSABLE, THE PLUMBING CONTRACTOR SHALL DISPOSE OF THEM. COORDINATE WITH OWNER TO WALK THRU THE AREA TO DETERMINE FIXTURES TO BE SALVAGED PRIOR TO ANY DEMOLITION WORK.

E. IF THERE IS A QUESTION REGARDING A REMOVAL, THE CONTRACTOR IS TO VERIFY WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AS TO THE REMOVAL STATUS BEFORE PROCEEDING.

F. ALL INTERRUPTIONS OF SERVICE SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER. PLUMBING SYSTEMS FEEDING FROM OR THROUGH THE CONTRACT AREA SHALL BE MAINTAINED.

G. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

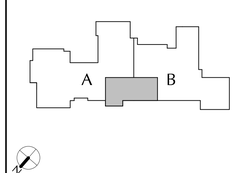
H. WORK THIS DRAWING WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF NEW WALL AND CEILING WORK.

I. COORDINATE THIS PLAN WITH NEW WORK PLAN.

KEYED NOTES FOR DRAWING PD101

1. REMOVE EXISTING WATER CLOSET AND TRIM INCLUDING ALL COMPONENTS. REMOVE EXISTING SOIL, VENT & CW PIPING BACK TO POINT OF DISCONNECTION. TEMPORARILY CAP PIPING FOR RECONNECTION TO NEW FIXTURES.
2. REMOVE EXISTING LAVATORY INCLUDING TRIM AND WALL CARRIER. REMOVE EXISTING WASTE, VENT, HW & CW PIPING BACK TO POINT OF DISCONNECTION. TEMPORARILY CAP PIPING FOR FUTURE RECONNECTION OF NEW FIXTURES.
3. REMOVE EXISTING SINK INCLUDING TRIM. REMOVE EXISTING WASTE, VENT, HW & CW PIPING BACK TO POINT OF DISCONNECTION. TEMPORARILY CAP PIPING FOR RECONNECTION TO NEW FIXTURES.
4. REMOVE VENT PIPING TO ABOVE CEILING. TEMPORARILY CAP FOR CONNECTION TO NEW VENT PIPING.

KEY PLAN



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Project Title
CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2

STATE OF NEW YORK
CLAYTON RENEDE MARTIN
089635
LICENSED PROFESSIONAL ENGINEER
EXP:11/30/2025

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Sheet Title
PLUMBING REMOVALS PLAN

Sheet No.
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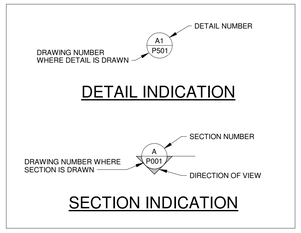

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AC	AIR COMPRESSOR
ACD	ACCESS DOOR
AD	AREA DRAIN
AP	ACCESS PANEL
BFP	BACKFLOW PREVENTER
BWV	BACKWATER VALVE
BOP	BOTTOM OF PIPE
CB	CATCH BASIN
CI	CAST IRON
CLG	CEILING
CO	CLEAN OUT
CONT	CONTINUED
CODP	CLEAN OUT DECK PLATE
COTG	CLEAN OUT TO GRADE
COWP	CLEAN OUT WALL PLATE
CTE	CONNECT TO EXISTING
CW	COLD WATER
DN	DOWN
DWG	DRAWING
DF	DRINKING FOUNTAIN
ELEV	ELEVATION
EMST	EMERGENCY STORM (OVERFLOW)
EWC	ELECTRIC WATER COOLER
EXCODP	EXISTING FLOOR CLEANOUT DECK PLATE
EXFD	EXISTING FLOOR DRAIN
EXFS	EXISTING FLOOR SINK
EXMSB	EXISTING MOP SINK BASIN
EXSAN	EXISTING SANITARY
EXSK	EXISTING SINK
EXSS	EXISTING SERVICE SINK
EXST	EXISTING STORM
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FLR	FLOOR
FF	FINISHED FLOOR
FS	FLOOR SINK
G	GAS
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
LAV	LAVATORY
LDR	LEADER
MSB	MOP SINK BASIN
NFWH	NON-FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
S	SOIL
SA	SHOCK ARRESTOR
SAN	SANITARY
SH	SHOWER
SK	SINK
SS	SERVICE SINK
ST	STORM
TEMP	TEMPERATURE
TLD	TEMPERATURE LIMITING DEVICE
TYP	TYPICAL
UR	URINAL
V	VENT
VIV	VALVE IN VERTICAL
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WF	WASH FOUNTAIN

PLUMBING SYMBOLS

SAN	SANITARY DRAINAGE ABOVE GROUND
SAN	SANITARY DRAINAGE UNDER GROUND
EXSAN	EXISTING SANITARY DRAINAGE ABOVE GROUND
EXSAN	EXISTING SANITARY DRAINAGE UNDER GROUND
KSAN	KITCHEN SANITARY DRAINAGE ABOVE GROUND
KSAN	KITCHEN SANITARY DRAINAGE UNDER GROUND
EXKSAN	EXISTING KITCHEN SANITARY DRAINAGE ABOVE GROUND
EXKSAN	EXISTING KITCHEN SANITARY DRAINAGE UNDER GROUND
ST	STORM DRAINAGE ABOVE GROUND
ST	STORM DRAINAGE UNDER GROUND
EXST	EXISTING STORM DRAINAGE ABOVE GROUND
EXST	EXISTING STORM DRAINAGE UNDER GROUND
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	VENT PIPING
	EXISTING COLD WATER PIPING
	EXISTING HOT WATER PIPING
	EXISTING HOT WATER RETURN PIPING
	EXISTING VENT PIPING
G	GAS PIPING
EXG	EXISTING GAS PIPING
	CLEAN OUT DECK PLATE
	LINE CLEAN OUT
	NON-FREEZE WALL HYDRANT OR HOSE BIBB
	FLOOR DRAIN OR FLOOR SINK
	TRAP
	UNION
	REDUCER
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	PLUG VALVE
	CHECK VALVE
	SOLENOID VALVE
	CURB BOX & VALVE
	RELIEF VALVE
	STRAINER
	THERMOMETER
	PRESSURE GAUGE
	ELBOW UP
	ELBOW DOWN
	TEE
	BRANCH OFF TOP OF MAIN
	BRANCH OFF BOTTOM OF MAIN
	CONNECT TO EXISTING
	EXTENT OF REMOVAL
X X X X X	EXISTING PIPING TO BE REMOVED
	HEAT TRACED PIPING
	SHOCK ARRESTOR

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HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2

STATE OF NEW YORK
GUAVIN BENEDETTO
089635
LICENSED PROFESSIONAL ENGINEER
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PLUMBING LEGEND & ABBREVIATIONS

Sheet No.
HBE P001

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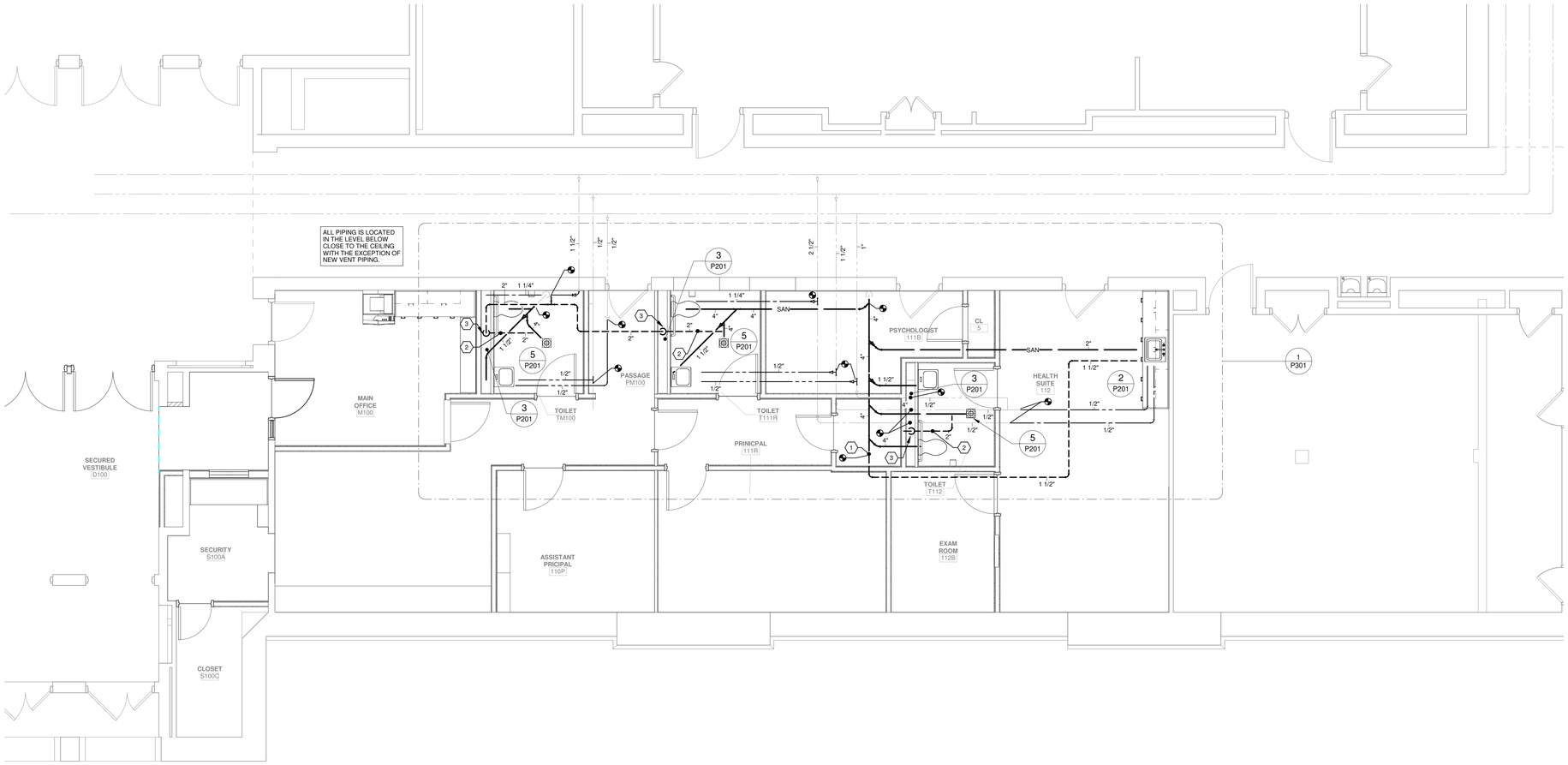


1 / P101 FIRST FLOOR PLUMBING PLAN
1/4" = 1'-0"

GENERAL NOTES

A. ALL PIPING SHOWN IS DIAGRAMMATIC ONLY. COORDINATE THE FINAL LOCATIONS OF PLUMBING LINES AND EQUIPMENT WITH ACTUAL FIELD LOCATIONS OF STRUCTURAL MEMBERS, CONDUIT, ETC. FIELD COORDINATE ALL WORK BEFORE PURCHASING EQUIPMENT AND FABRICATING PIPE. NO EXTRAS SHALL BE PERMITTED FOR RESTOCKING REFABRICATION OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH FIELD CONDITIONS. OFFSET OR RELOCATE PLUMBING LINES AS REQUIRED.

B. PROVIDE AND SET ALL SLEEVES THROUGH EXTERIOR AND INTERIOR FOUNDATION WALLS. COORDINATE WITH ARCHITECTURAL DRAWINGS.

C. ROUGH FOR ALL ITEMS OF EQUIPMENT FURNISHED BY OTHERS WHICH REQUIRE WATER, WASTE OR VENT PIPING.

D. COORDINATE SANITARY INVERT ELEVATIONS WITH ACTUAL INVERT TIE-IN POINTS PRIOR TO ANY PIPING INSTALLATION. PIPING 2" AND SMALLER SHALL PITCH 1/4" PER FOOT MIN. PIPING LARGER THAN 2" SHALL PITCH 1/8" PER FOOT MIN. NOTIFY ENGINEER OF ANY CONFLICTS. PIPING MATERIALS AND COMPONENTS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE ADOPTED BY NYS OR AS OTHERWISE APPROVED BY THE LOCAL PLUMBING INSPECTOR.

E. MINIMUM UNDERGROUND SANITARY PIPE SIZE SHALL BE 3"

F. CONTRACTOR SHALL BE RESPONSIBLE FOR LEGAL OFF SITE DISPOSAL OF ALL EXCESS UNWANTED MATERIAL AND CONSTRUCTION DEBRIS DUE TO WORK OF HIS CONTRACT. SUCH MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

G. UNLESS NOTED OTHERWISE, ALL ITEMS INDICATED ARE TO BE INSTALLED "COMPLETE." INSTALLATION SHALL INCLUDE ALL COMPONENTS, PIPING, HANGERS, SUPPORTS, ASSOCIATED WITH THE EQUIPMENT.

H. PIPING MATERIALS AND COMPONENTS THAT ARE CONNECTED TO THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE ADOPTED BY NYS OR AS OTHERWISE APPROVED BY THE LOCAL PLUMBING INSPECTOR.

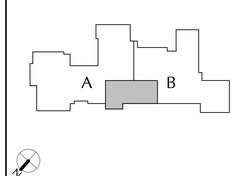
I. ONLY LOCALLY LICENSED PLUMBERS SHALL PROVIDE PLUMBING WORK FOR THIS PROJECT.

J. APPLY FOR AND PAY FOR ALL REQUIRED INSPECTIONS, PERMITS, SERVICE APPLICATIONS AND FEES ASSOCIATED WITH PLUMBING WORK OF PROJECT. COORDINATE WITH LOCAL AUTHORITIES AND UTILITIES FOR ADEQUATE TIME PERIODS REQUIRED TO PROCESS APPLICATIONS AND PERMITS AND SCHEDULE INSPECTIONS.

KEYED NOTES FOR DRAWING P101

1 CONNECT TO EXISTING VENT PIPING. FIELD VERIFY EXACT LOCATION.
2 IN CEILING BELOW
3 2" VENT - RISE IN CHASE & CONNECT TO VENT PIPING AS SHOWN ON RISER DIAGRAM.

KEY PLAN



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PLUMBING PLAN

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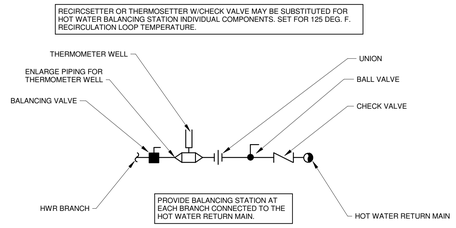
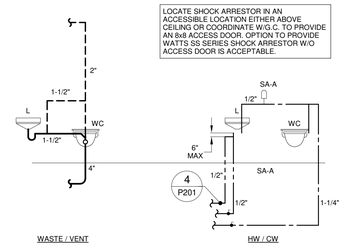
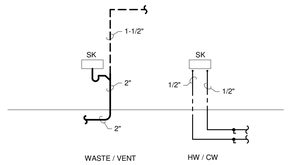


4 / P201 HWR BALANCING STATION DETAIL
N.T.S.

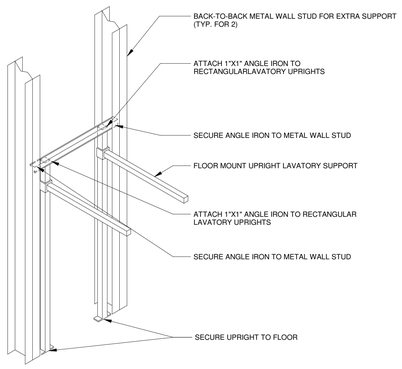


3 / P201 TYPICAL PIPING ARRANGEMENT AT TOILET ROOM WH/FV
1/8" = 1'-0"



2 / P201 TYPICAL PIPING ARRANGEMENT AT SK
N.T.S.

5 / P201 TYPICAL PIPING ARRANGEMENT AT FD/TD
N.T.S.



1 / P201 TYPICAL LAVATORY PIPING SUPPORT
12" = 1'-0"

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2023 CAPITAL PROJECTS - PHASE 2

STATE OF NEW YORK · GUAVIN NENEDE PATEL · 089635 · LICENSED PROFESSIONAL ENGINEER
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Sheet Title
PLUMBING RISER DIAGRAMS & DETAILS

Sheet No.
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P201

CONSTRUCTION DOCUMENTS

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	WASTE	VENT	HOT WATER	COLD WATER	MANUFACTURER & MODEL NO.	REMARKS / APPLICATIONS
WC-A	VITREOUS CHINA ELONGATED WALL MOUNTED WATER CLOSET, W/1.28 GPF MANUAL FLUSH VALVE ELONGATED OPEN FRONT NO COVER SEAT WITH CONCEALED CHECK HINGE	4"	2"	-	1-1/4"	KOHLER MODEL NO. K-84325 WITH SLOAN MODEL NO. 111-1.28 AND CHURCH NO. 9500SSCT SEAT ALTERNATE MANUFACTURERS AMERICAN STANDARD GERBER / ZURN	17" AFF TO RIM - PROVIDE FLUSH VALVE HANDLE ON RIGHT SIDE AS REQUIRED FOR ADA APPROACH
LAV-A	20x18 VITREOUS CHINA WALL MOUNTED LAVATORY WITH 0.5 GPM MANUAL BLADE TYPE HANDLE, SELF CLOSING FAUCET, ASSE 1070 TEMPERATURE LIMITING DEVICE, GRID STRAINER	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER MODEL NO. K-2005 WITH SYMMONS MODEL NO. SLC-6000, ACORN ST-70 AND MCGUIRE MODEL NO. PW155WC ALTERNATE MANUFACTURERS AMERICAN STANDARD GERBER	MOUNT AT 34" AFF. OFFSET TRAP AT WALL. INSULATE TRAP AND SUPPLY PIPING.
SK-A	19x18x5.5 STAINLESS STEEL COUNTER TOP SINK WITH ADA 2 HANDLE KITCHEN SINK FAUCET.	2"	1-1/2"	1/2"	1/2"	ELKAY MODEL NO. LRAD191855 WITH ELKAY MODEL NO. LKAD35 AND ELKAY MODEL NO. LK810AT08T4 ALTERNATE MANUFACTURERS JUST MANUFACTURING KOHLER	

NOTES:

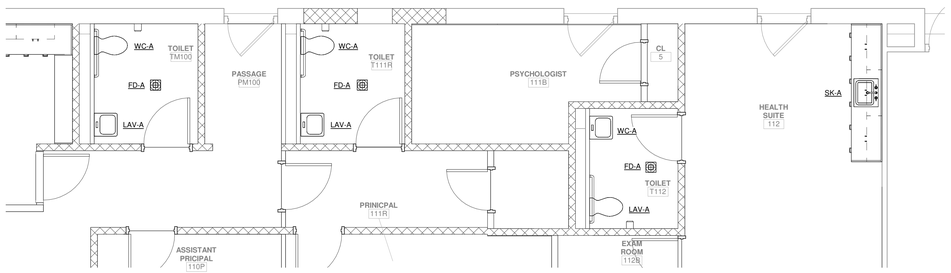
1. SEE PLUMBING DRAWINGS FOR PLUMBING FIXTURE TAGS.
2. ALL FIXTURES SHALL HAVE INDIVIDUAL CHROME ANGLE STOPS, TRAPS AND ESCUTCHEONS.
3. ALL FIXTURES SHALL BE LEAD FREE AND INCOMPLIANCE WITH NSF 61 AND NSF 372.
4. ALL WALL MOUNTED FIXTURES SHALL BE SUPPORTED BY CONCEALED, FLOOR MOUNTED PLUMBING FIXTURE CARRIERS. WALL BRACKETS OR CLIPS ARE NOT ACCEPTABLE. NOTIFY ENGINEER OF ANY CONFLICTS WITH INSTALLATION OF CONCEALED CARRIERS.
5. WC-A SHALL BE SUPPORTED BY JAY R. SMITH FIG. 0210 FIXTURE CARRIER OR EQUIVALENT.
6. LAV-A SHALL BE SUPPORTED BY JAY R. SMITH FIG. 700 FIXTURE CARRIER OR EQUIVALENT.
7. MODEL NUMBERS LISTED IN SCHEDULE ARE FOR GENERAL REFERENCE ONLY AND NOT FOR ORDERING. CONTRACTOR SHALL REVIEW MODEL NUMBERS AND SPECIFIED FEATURES WITH THE FACTORY PRIOR TO PLACING THEIR FINAL ORDER.
8. OWNER TO REVIEW PLUMBING FIXTURE SELECTION AND APPROVE PRIOR TO ORDERING.
9. PROVIDE LEAD TESTING PER DOH AND SED REQUIREMENTS.

FLOOR DRAIN & CLEANOUT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER & MODEL	ALTERNATE MANUFACTURER'S	NOTES
FD-A	FLOOR DRAIN - GENERAL PURPOSE	JAY R. SMITH FIG. 2010	ZURN / JOSAM	1, 2, 3, 4, 5
CODP	CLEANOUT DECKPLATE	JAY R. SMITH FIG. 4020	ZURN / JOSAM	4, 5
COWP	CLEANOUT WALL PLATE	JAY R. SMITH FIG. 9776	ZURN / JOSAM	4, 5

NOTES:

1. COORDINATE FLOOR DRAINS WITH FLOORING MANUFACTURER/INSTALLER AND LAYOUT.
2. PROVIDE SURE SEAL WATERLESS INLINE TRAP SEALER FOR FLOOR DRAINS AND FLOOR SINKS.
3. REFER TO PLUMBING PLANS FOR FLOOR DRAIN SIZES. COORDINATE FINISH WITH ARCHITECT.
4. COORDINATE INTERIOR LOCATIONS WITH ARCHITECT.
5. MODEL NUMBERS LISTED IN SCHEDULE ARE FOR GENERAL REFERENCE ONLY AND NOT FOR ORDERING. CONTRACTOR SHALL REVIEW MODEL NUMBERS AND SPECIFIED REATURES WITH THE FACTORY BEFORE PLACING THEIR FINAL ORDER.



1 / P301 PLUMBING FIXTURES KEYTAG PLAN
1/4" = 1'-0"

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Project Title
CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2

STATE OF NEW YORK · GARY W. MENEDEZ · LICENSED PROFESSIONAL ENGINEER · 089636
EXP:11/30/2025

#	DATE	DESCRIPTION

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Sheet Title
PLUMBING SCHEDULES

Sheet No.
HBE
P301

CONSTRUCTION DOCUMENTS

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SHEETMETAL LEGEND

- SUPPLY DUCT (UP & DN)
- RETURN DUCT (UP & DN)
- EXHAUST DUCT (UP & DN)
- 12"x10" — RECTANGULAR DUCTWORK (WIDTH X DEPTH)
- 12"/10" — FLAT OVAL DUCTWORK (WIDTH X DEPTH)
- 10"Ø — ROUND DUCTWORK (SIZE, DIAMETER)
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES)
- RADIUS ELBOW (I.D. RADIUS IS DUCT WIDTH)
- VOLUME DAMPER (SINGLE OR OPPOSED BLADE) AS SPECIFIED
- AD — ACCESS DOOR (BOTTOM SHOWN)
- ACCESS DOOR (SIDE SHOWN)
- ACOUSTIC LINED DUCTWORK (SIZE INDICATES INSIDE DUCT DIMENSIONS)
- AUTOMATIC TEMPERATURE CONTROL DAMPER (OPPOSED BLADE TYPE)
- FLEXIBLE DUCTWORK (MAXIMUM LENGTH NOT TO EXCEED 36 INCHES)
- TRANSITION WITH FLAT SIDE
- TRANSITION ON CENTER
- RECTANGULAR TO ROUND TRANSITION
- BRANCH TAKE-OFF WITH VOLUME DAMPER
- ROUND TAP TO RECTANGULAR DUCT (BELL MOUTH) & VOLUME DAMPER
- RECTANGULAR TO ROUND TAP (HETO) & VOLUME DAMPER
- SMOKE DAMPER, FIRE DAMPER, OR COMBINATION FIRE/SMOKE DAMPER WITH ACCESS DOOR

PIPING LEGEND

- HWS — HOT WATER SUPPLY (BELOW 250° F)
- HWR — HOT WATER RETURN (BELOW 250° F)
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- HPWS — HEAT PUMP WATER SUPPLY
- HPWR — HEAT PUMP WATER RETURN
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- RHG — REFRIGERANT HOT GAS
- DTWS — DUAL TEMP WATER SUPPLY
- DTWR — DUAL TEMP WATER RETURN
- GS — GLYCOL SUPPLY
- GR — GLYCOL RETURN
- MUW — MAKE UP WATER
- CD — CONDENSATE DRAIN
- CS — CONDENSER WATER SUPPLY TO TOWER
- CR — CONDENSER WATER RETURN FROM TOWER

VALVE LEGEND

- BALL VALVE
- DRAIN VALVE WITH CAP
- BUTTERFLY VALVE
- CHECK VALVE
- TRIPLE DUTY VALVE
- PRESSURE REDUCING VALVE
- CALIBRATED BALANCING VALVE

ABBREVIATION LEGEND

ABBREVIATION	DESCRIPTION
A	
ACC	AIR-COOLED CONDENSER
ACCU	AIR-COOLED CONDENSING UNT
AD	ACCESS DOOR
AF	AIR FILTER
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MEASURING DEVICE
AHU	AIR HANDLING UNIT
AP	AIR PURIFIER
APD	AIR PRESSURE DROP
AV	AUTOMATIC AIR VENT
B	
BTUH	BRITISH THERMAL UNITS PER HOUR
C	
CC	COOLING COIL
CCCT	CLOSED CIRCUIT COOLER
CD	CEILING DIFFUSER
CEF	CEILING EXHAUST FAN
CFM	CUBIC FEET PER MINUTE
CO	CLEAN OUT
CONT	CONTINUED
CR	CEILING RETURN
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
D	
DB	DECIBELS
DBT	DRY BULB TEMPERATURE
DIA	DIAMETER
DPT	DEW POINT TEMPERATURE
DX	DIRECT EXPANSION
E	
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EFT	ENTERING FLUID TEMPERATURE
EG	EXHAUST GRILLE
EHC	ELECTRIC HEATING COIL
ER	EXHAUST REGISTER
ERC	ENERGY RECOVERY COIL
ERP	ELECTRIC RAD/ANT PANEL
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD/SD	COMBINATION FIRE/SMOKE DAMPER
FF	FINAL FILTER
FL	FLOOR
FPM	FEET PER MINUTE
FT	FEET
G	
GAL	GALLONS
GPM	GALLONS PER MINUTE
GR	GLYCOL SUPPLY
GRV	GRAVITY ROOF VENTILATION
GS	GLYCOL SUPPLY
H	
H	HUMIDIFIER
HC	HEATING COIL
HGT	HEIGHT
HP	HORSEPOWER OR HEAT PUMP
HRU	HEAT RECOVERY UNIT
HX	HEAT EXCHANGER
IN	INCH
KW	KILOWATT
L	
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LD	LINEAR DIFFUSER
LFT	LEAVING FLUID TEMPERATURE
LPC	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM (15 PSIG AND BELOW)
LSD	LINEAR SLOT DIFFUSER
LWT	LEAVING WATER TEMPERATURE
M	
MAX	MAXIMUM
MBH	ONT THOUSAND BRITISH THERMAL UNITS PER HOUR
MC	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MIN	MINIMUM
MPC	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM (16-59 PSIG)
N	
NIC	NOT IN CONTRACT
NOM	NOMINAL
O	
OA	OUTSIDE AIR
P	
P	PUMP
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE OR POWER ROOF VENTILATOR
PSIG	POUND PER SQUARE INCH - GAUGE
R	
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RH	REHEAT COIL
RM	ROOM
ROTV	ROTARY VENTILATOR
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RTU	ROOF-TOP UNIT
S	
SA	SUPPLY AIR
SD	SMOKE DAMPER
SF	SUPPLY FAN
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
T	
TO	TRANSFER OPENING
U	
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
V	
VA	VENTILATION AIR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VR	VACUUM STEAM CONDENSATE RETURN
W	
WBT	WET BULB TEMPERATURE
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP

SPECIALTY LEGEND

- Y-LINE STRAINER
- THERMOMETER
- PRESSURE GAUGE W/ NEEDLE VALVE
- T — THERMOSTAT (48" AFF)
- C — CARBON DIOXIDE SENSOR (48" AFF)
- S — DUCT MOUNTED SMOKE DETECTOR
- POINT OF DISCONNECTION
- CONNNECT TO EXISTING

DETAIL INDICATION

DRAWING NUMBER WHERE DETAIL IS DRAWN — A1 / H501 — DETAIL NUMBER

SECTION INDICATION

DRAWING NUMBER WHERE SECTION IS DRAWN — A / H501 — SECTION NUMBER — DIRECTION OF VIEW

ENERGY CONSERVATION CODE COMPLIANCE STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT THE PLANS AND SPECIFICATIONS COMPLY WITH THE LATEST EDITION OF THE ENERGY CONSERVATION CODE OF NEW YORK STATE.

THE HVAC SYSTEM WAS DESIGNED IN ACCORDANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE CHAPTER 4 (COMMERCIAL ENERGY EFFICIENCY). ACCEPTABLE PRACTICE FOR COMMERCIAL BUILDINGS METHOD. THE HEAT AND COOLING LOAD CALCULATIONS WERE PERFORMED IN ACCORDANCE WITH ASHRAE HANDBOOK OF FUNDAMENTALS CHAPTER 17 AND 18, AND APPROPRIATE EXTERIOR DESIGN ZONE CONDITIONS.

DIFFUSER AND GRILLE SCHEDULE

TAG	TYPE	FACE SIZE	NECK SIZE	MOUNTING	DESIGN BASIS NAILOR	REMARKS
E-1	EXHAUST GRILLE	NECK + 2"	SEE PLAN	LAY-IN	6145	

LOUVER SCHEDULE

TAG	TYPE	SIZE (INCHES)	MAX. FREE AREA VELOCITY (FPM)	ADJUSTABLE (YES/NO)	FRAME DEPTH (INCHES)	BLADE ANGLE (DEGREES)	MANUFACTURERS DESIGN BASIS	REMARKS
L-1	STATIONARY	SEE PLAN	500	NO	4	45	LE-23	1

REMARKS:
1. FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.

STEAM FIN RADIATION SCHEDULE

		HEATING ELEMENT					ENCLOSURE					MANUFACTURERS	
TAG	BTU/FT	LPS (F)	PIPE SIZE	FIN SIZE	FINS/FT	ROWS	DEPTH	HGT.	MTG/HT	OUTLET	CRADLES	STERLING	REMARKS
HBE-FT-1	1825	215	1"	4-1/4" x 4-1/4"	50	1	5-5/16"	24	28	SLOPE TOP	2	JVB-S24	1,2

REMARKS:
1. STEEL ELEMENT.
2. PROVIDE ALL NECESSARY MOUNTING AND TRIM ACCESSORIES.

BRANCH BOX SCHEDULE

				ELECTRICAL				MANUFACTURERS	
TAG	SERVICE	ASSOCIATED CONDENSING UNIT	NUMBER OF PORTS	VOLTAGE	PH	MCA	MOCP	TRANE / MITSUBISHI	REMARKS
HBE-BB-1	OFFICE	HBE-CU-1	8	208 V	1	0.7 A	20 A	TCMBG0108SJ11N4	1,2

REMARKS:
1. PROVIDE UNIT MOUNTED DISCONNECT.
2. PROVIDE WITH CONDENSATE PUMP AS NOTED ON PLANS.

HEAT PUMP SCHEDULE

							COOLING						HEATING			ELECTRICAL				DESIGN BASIS	
									TOTAL (MBH)		SENSIBLE (MBH)			TOTAL (MBH)							
TAG	ASSOCIATED CONDENSING UNIT	UNIT STYLE	SERVICE	CFM (LOW-HIGH)	OA CFM	EXT S.P.	EAT DB	EAT WB	RATED	ACTUAL	RATED	ACTUAL	EAT DB	RATED	ACTUAL	VOLTS	PH	AMPS	MFS	TRANE / MITSUBISHI	REMARKS
HBE-AC-1	HBE-CU-1	CEILING CASSETTE	SECURITY 106B	230 - 280	15	0	75	63	5.0	4.4	-	4.1	70	5.6	4.4	208 V	1	0.24 A	15 A	TPLFYP005FM140B	1,2,3
HBE-AC-2	HBE-CU-1	CEILING CASSETTE	MAIN OFFICE M100	315 - 460	50	0	75	63	18.0	16.0	-	11.2	70	20.0	15.8	208 V	1	0.50 A	15 A	TPLFYP018FM140B	1,2,3,4
HBE-AC-3	HBE-CU-1	CEILING CASSETTE	ASS. PRINCIPAL 110P	245 - 335	20	0	75	63	12.0	10.6	-	7.6	70	13.5	10.6	208 V	1	0.29 A	15 A	TPLFYP012FM140B	1,2,3,4
HBE-AC-4	HBE-CU-1	CEILING CASSETTE	PRINCIPAL 111R	265 - 390	45	0	75	63	15.0	13.3	-	9.3	70	17.0	13.4	208 V	1	0.35 A	15 A	TPLFYP015FM140B	1,2,3,4
HBE-AC-5	HBE-CU-1	CEILING CASSETTE	PSYCHOLOGIST 111B	230 - 280	15	0	75	63	5.0	4.4	-	4.1	70	5.6	4.4	208 V	1	0.24 A	15 A	TPLFYP005FM140B	1,2,3
HBE-AC-6	HBE-CU-1	CEILING CASSETTE	EXAM ROOM 112B	245 - 335	20	0	75	63	12.0	10.6	-	7.6	70	13.5	10.6	208 V	1	0.29 A	15 A	TPLFYP012FM140B	1,2,3,4
HBE-AC-7	HBE-CU-1	CEILING CASSETTE	HEALTH SUITE 112	265 - 390	40	0	75	63	15.0	13.3	-	9.3	70	17.0	13.4	208 V	1	0.35 A	15 A	TPLFYP015FM140B	1,2,3,4

REMARKS:
1. PROVIDE UNIT MOUNTED DISCONNECT.
2. PROVIDE WIRED CONTROL THERMOSTAT.
3. PROVIDE INTEGRAL CONDENSATE LIFT PUMP.
4. PROVIDE WITH AUXILIARY HEAT RELAY KIT TO ENABLE ZONE FINNED RADIATION AS SECOND STAGE HEATING.

AIR COOLED CONDENSING UNIT SCHEDULE

												ELECTRICAL				MANUFACTURERS	
TAG	SERVICE	NOMINAL TONS	COOLING OAT (F)	HEATING OAT (F)	COOLING IEER / SEER	HEATING COP @ 47F	NOMINAL COOLING (BTU/h)	NOMINAL HEATING (BTU/h)	CORRECTED COOLING (BTU/h)	CORRECTED HEATING (BTU/h)	SOUND PRESSURE (dBA)	VOLTS	PH	MCA	MOCP	TRANE \ MITSUBISHI	REMARKS
HBE-CU-1	OFFICE	6	87.0	10.8	22.85 / 12.0	4.1	72,000	80,000	72,732	72,622	75.5 / 77.0	208 V	3	33	50	TURYE072SAN41AN	1,2,3

REMARKS:
1. PROVIDE SNOW/HAIL GUARD.
2. PROVIDE 18" TALL QUICK-SLING MOUNTING STAND.
3. PROVIDE WITH BACnet GATEWAY FOR INTEGRATION INTO BMS. ALL CONTROL WIRING AND PROGRAMMING BY MECHANICAL CONTRACTOR.

ENERGY RECOVERY VENTILATOR SCHEDULE

		SUPPLY AIR (OUTDOOR AIR)				EXHAUST AIR				WINTER CONDITIONS								SUMMER CONDITIONS								ELECTRICAL				MANUFACTURERS	
										OUTDOOR AIR INLET		SUPPLY AIR OUTLET		EXHAUST AIR INLET				OUTDOOR AIR INLET		SUPPLY AIR OUTLET		EXHAUST AIR INLET									
TAG	SERVICE	CFM	EXT S.P.	HP	FILTER	CFM	EXT S.P.	HP	FILTER	DB	WB	DB	WB	DB	WB	TOTAL MBH	SENS. MBH	DB	WB	DB	WB	DB	WB	TOTAL MBH	SENS. MBH	MCA	MOCP	VOLTS	PH	RENEW AIRE	REMARKS
HBE-ERV-1	OFFICE	210	0.8	0.11	MERV 8	102	0.8	0.11	MERV 8	9.0	6.1	54.5	41.1	70.0	51.4	13.1	11.1	89.9	73.9	78.8	68.0	75.0	62.5	5.1	2.7	15	15	120	1	EV PREMIUM L	1

REMARKS:
1. PROVIDE UNIT MOUNTED DISCONNECT.

VENTILATION SCHEDULE

						DEFAULT VALUES		OUTSIDE AIRFLOWS (CFM)					
ROOM	ROOM NUMBER	OCCUPANCY CATEGORY	AREA (SF)	PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	AREA OUTDOOR AIR RATE (CFM/SF)	DEFAULT DENSITY (#/1000 SF)	NUMBER OF OCCUPANTS	CODE MIN. PEOPLE	CODE MIN. AREA	CODE MIN. COMBINED	DIST. EFF.	ZONE OA MIN.	DESIGN
ASSISTANT PRINCIPAL	110P	OFFICE SPACE	113	5	0.06	5	1	5	7	12	0.8	15	20
PSYCHOLOGIST	111B	OFFICE SPACE	78	5	0.06	5	1	5	5	10	0.8	13	15
PRINCIPAL	111R	OFFICE SPACE	211	5	0.06	5	4	20	13	33	0.8	41	45
HEALTH SUITE	112	OFFICE SPACE	220	5	0.06	5	2	10	13	23	0.8	29	40
EXAM ROOM	112B	OFFICE SPACE	84	5	0.06	5	1	5	5	10	0.8	13	20
MAIN OFFICE	M100	OFFICE SPACE	467	5	0.06	5	2	10	28	38	0.8	48	50
SECURITY	S100A	OFFICE SPACE	63	5	0.06	5	1	5	4	9	0.8	11	15
TOILET	T111R		--	--	50 EA / WC	--	--	--	--	--	--	50 EA	70 EA
TOILET	T112		--	--	50 EA / WC	--	--	--	--	--	--	50 EA	70 EA
TOILET	TM100		--	--	50 EA / WC	--	--	--	--	--	--	50 EA	70 EA

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Sheet Title
MECHANICAL LEGENDS AND SCHEDULES

Sheet No.
HBE M001

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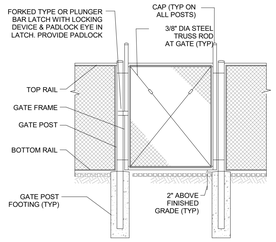
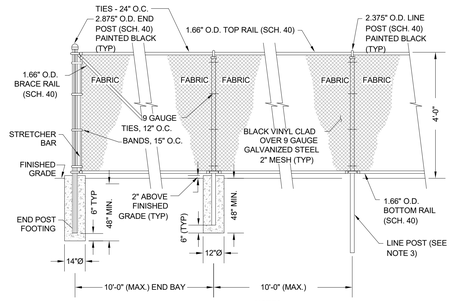


GATE POST SCHEDULE	
GATE LEAF SIZE	POST O.D.
LESS THAN 12'	3"
12' TO 20'	4"

NOTE:
GATES ARE TO SWING OUTWARD, MAINTAINING 4" OF CLEARANCE FROM FINISHED GRADE.

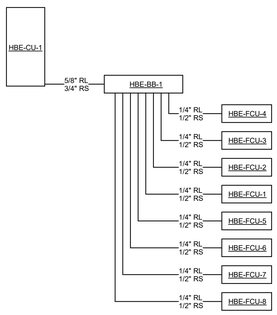
8 M002 Chain Link Fence 4' High Gate
N.T.S.



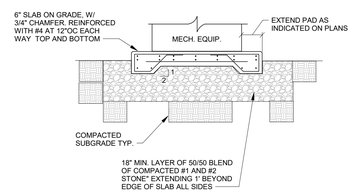
SOIL TYPE	EMBEDMENT DEPTH (FT)		
	WIND SPEED (MPH)		
	90	105	120
SOFT CLAY	5.5	6	6.5
STIFF CLAY	4.5	5	5.5
VERY STILL CLAY	4	4.5	5
HARD CLAY	3.5	4	4.5
LOOSE SAND	6	6.5	7
MEDIUM DENSE SAND	5.5	6	6.5
DENSE SAND	5	6	6.5

NOTES:
1. ALL POSTS, RAILS, MESH & HARDWARE TO BE GALVANIZED STEEL
2. END POST REQUIREMENTS ALSO APPLY TO CORNER AND PULL POSTS.
3. CONTRACTOR SHALL HAVE THE OPTION OF SETTING LINE POSTS IN 12"DIA. BY 48" DEEP CONCRETE FOOTING OR USING DRIVING AND ANCHORING SPECIFIED BY THE MANUFACTURER TO THE DEPTH SPECIFIED IN THE INCLUDED TABLE EXCEPT FOR ALL END CORNER AND INTERMEDIATE POSTS SHALL HAVE CONCRETE FOOTINGS PER DETAIL.

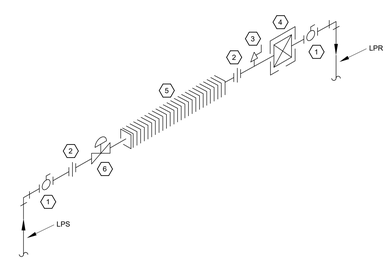
7 M002 Chain Link Fence 4' High
N.T.S.



6 M002 VRF Riser
N.T.S.

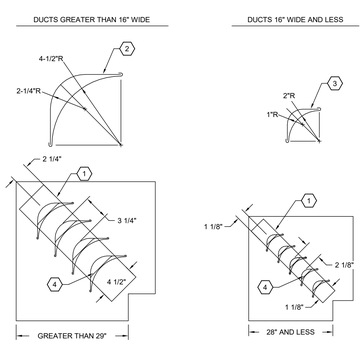


5 M002 Equipment Pad Detail
N.T.S.



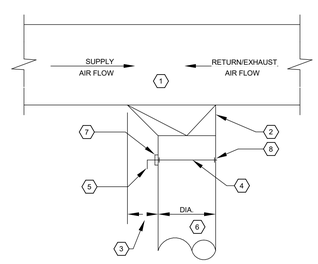
1. BALL VALVE
2. UNION
3. MANUAL AIR VENT
4. THERMOSTATIC TRAP
5. FINNED ELEMENT
6. STEAM MODULATING CONTROL VALVE

4 M002 Steam Fin Radiation Piping Detail
N.T.S.



1. 22 GA VANE RUNNER BOLTED, SCREWED OR WELDED TO DUCT
2. LARGE DOUBLE VANE, MIN 24 GA, 72" MAX UNSUPPORTED VANE LENGTH
3. SMALL DOUBLE VANE, MIN 26 GA, 48" MAX UNSUPPORTED VANE LENGTH
4. TURNING VANE MOUNTED ON EACH TAB OF RUNNER. EVERY RUNNER TAB MUST RECEIVE A TURNING VANE.

3 M002 Vaned Elbow Turning Vane
N.T.S.



1. RECTANGULAR MAIN DUCT
2. 45 DEG. TAKEOFF
3. 1/4 W. 5" MINIMUM
4. VOLUME DAMPER
5. LOCKING QUADRANT
6. RECTANGULAR BRANCH DUCT
7. PROVIDE HAT CHANNEL ON INSULATED DUCTWORK
8. BEARING (TYP.)

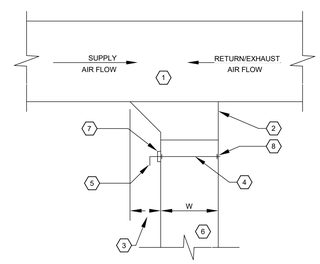
GENERAL NOTES:

SINGLE-BLADE DAMPER SHAFT SHALL BE CONTINUOUS.

CONTRACTOR FABRICATED DAMPERS ARE NOT ACCEPTABLE.

PROVIDE BEARINGS AT BOTH ENDS OF DAMPER BLADES WITH GASKETS AT DUCT PENETRATIONS

2 M002 Rectangular To Round Duct Tap W/ Damper
N.T.S.



1. RECTANGULAR MAIN DUCT
2. 45 DEG. TAKEOFF
3. 1/4 W. 5" MINIMUM
4. VOLUME DAMPER
5. LOCKING QUADRANT
6. RECTANGULAR BRANCH DUCT
7. PROVIDE HAT CHANNEL ON INSULATED DUCTWORK
8. BEARING (TYP)

GENERAL NOTES:

SINGLE-BLADE DAMPER SHAFT SHALL BE CONTINUOUS.

CONTRACTOR FABRICATED DAMPERS ARE NOT ACCEPTABLE ABOVE 11" IN HEIGHT.

SINGLE BLADE DAMPERS ARE NOT ACCEPTABLE FOR DUCTS OVER 11" IN HEIGHT. USE MANUFACTURED OPPOSED BLADE DAMPERS.

PROVIDE BEARINGS AT BOTH ENDS OF DAMPER BLADES WITH GASKETS AT DUCT PENETRATIONS

1 M002 Rectangular Duct Tap W/ Damper
N.T.S.

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Project Title
CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2

STATE OF NEW YORK · CURTIS BENEDICT · LICENSED PROFESSIONAL ENGINEER · 089636
EXP: 11/30/2025

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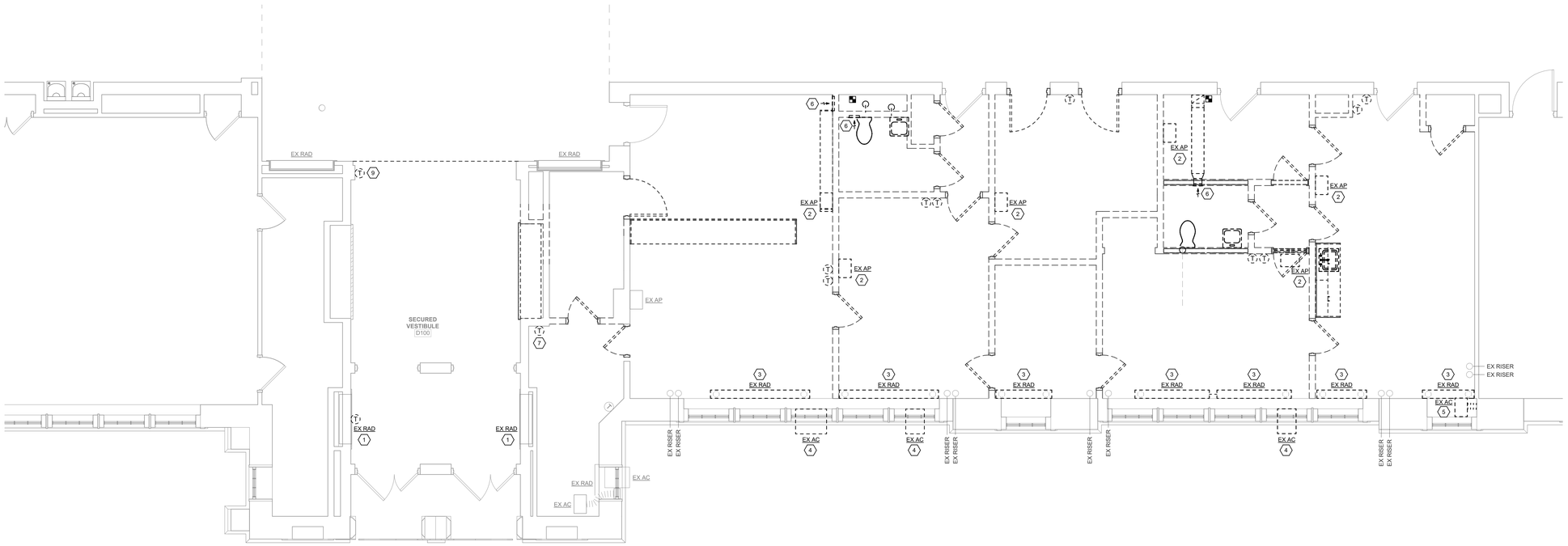
Sheet Title
MECHANICAL DETAILS

Sheet No.
HBE M002

CONSTRUCTION DOCUMENTS



1 MD101 First Floor Plan - Mechanical Removals
1/4" = 1'-0"

GENERAL REMOVALS NOTES

A. REMOVALS INDICATED BY HEAVY DASHED LINE.

B. UNLESS NOTED OTHERWISE, ALL ITEMS INDICATED ARE TO BE REMOVED "COMPLETE". REMOVAL SHALL INCLUDE ALL COMPONENTS, DUCTWORK, PIPING, HANGERS, SUPPORTS AND ACCESSORIES, ASSOCIATED WITH THE EQUIPMENT.

C. CONTRACTOR IS TO INSPECT EQUIPMENT THAT IS TO BE REUSED AND DETERMINE THAT IT IS COMPLETE AND IN GOOD WORKING ORDER. IF NOT, REPORT FINDINGS TO THE ARCHITECT/ENGINEER.

D. EVERY EFFORT HAS BEEN MADE TO INDICATE ALL EQUIPMENT THAT IS TO BE REMOVED THROUGH FIELD OBSERVATIONS, HOWEVER, THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BIDDING AND VERIFY ALL REMOVALS.

E. ALL ITEMS BEING REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER FOR FUTURE USE. IF OWNER DECIDES THE ITEMS ARE NOT REUSABLE, THE MECHANICAL CONTRACTOR SHALL DISPOSE OF THEM.

F. IF THERE IS A QUESTION REGARDING A REMOVAL, THE CONTRACTOR IS TO VERIFY WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AS TO THE REMOVAL STATUS BEFORE PROCEEDING.

G. ALL INTERRUPTIONS OF SERVICE SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER. MECHANICAL SYSTEMS FEEDING FROM OR THROUGH THE CONTRACT AREA SHALL BE MAINTAINED.

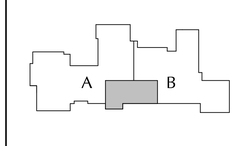
H. COORDINATE THIS DRAWING WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF NEW WALL AND CEILING WORK

I. COORDINATE THIS PLAN WITH NEW WORK PLAN.

CODED REMOVALS NOTES

1. DISCONNECT AND REMOVE EXISTING CONTROLS INCLUDING LPS CONTROL VALVE AND THERMOSTAT. EXISTING LPS RADIATOR SHALL REMAIN AND BE FITTED WITH NEW CONTROLS AND CONTROL VALVE.
2. DISCONNECT, REMOVE AND SALVAGE EXISTING AIR PURIFIER INCLUDING WALL MOUNTED SHELF.
3. DISCONNECT AND REMOVE EXISTING STEAM RADIATOR INCLUDING LOCAL PIPING, VALVES, TRAPS AND CONTROLS. PREPARE EXISTING PIPING FOR CONNECTION TO NEW.
4. DISCONNECT AND REMOVE EXISTING WINDOW AIR CONDITIONER COMPLETE. TURN EXISTING UNIT OVER TO DISTRICT.
5. DISCONNECT AND REMOVE EXISTING PORTABLE AIR CONDITIONER COMPLETE INCLUDING FLEX DUCT & WALL CAP. PATCH WALL TO MATCH EXISTING. TURN EXISTING UNIT OVER TO DISTRICT.
6. DISCONNECT AND REMOVE EXISTING WALL EXHAUST GRILLE INCLUDING ASSOCIATED DUCTWOTK BACK TO POINT OF DISCONNECTION AND CAP.
7. DISCONNECT, REMOVE AND SALVAGE EXISTING THERMOSTAT FOR REINSTALLATION ON NEW WORK PLAN.

KEY PLAN



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MECHANICAL REMOVALS PLAN

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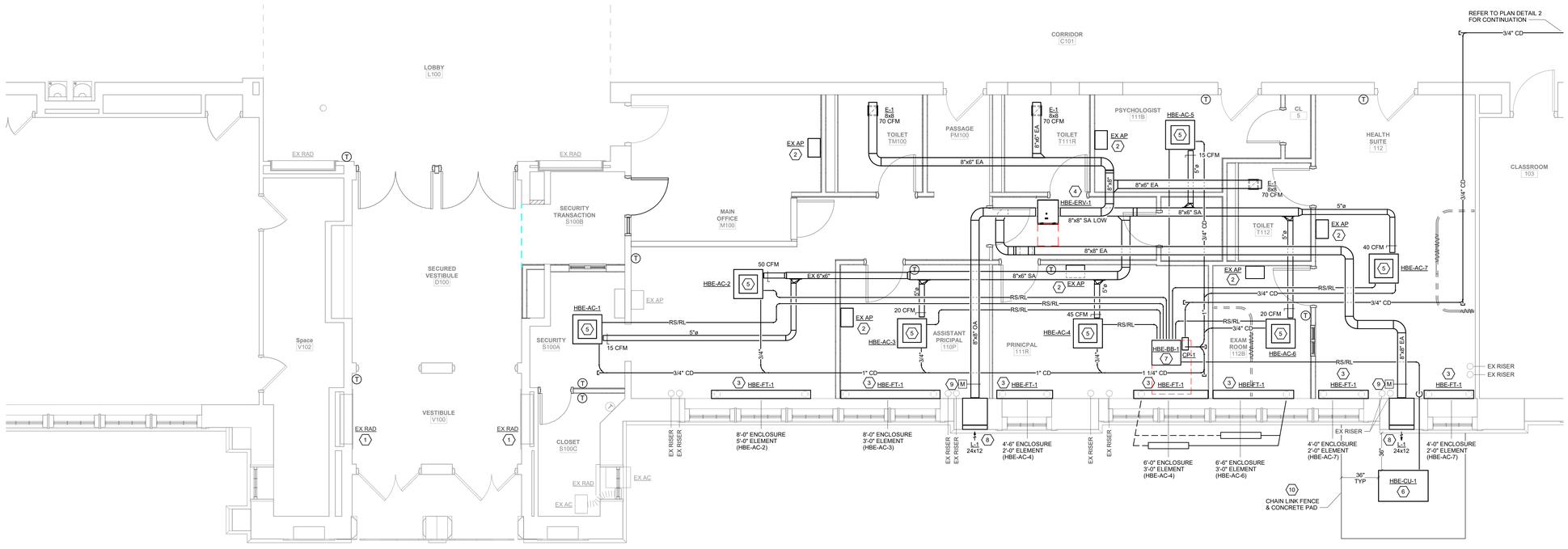
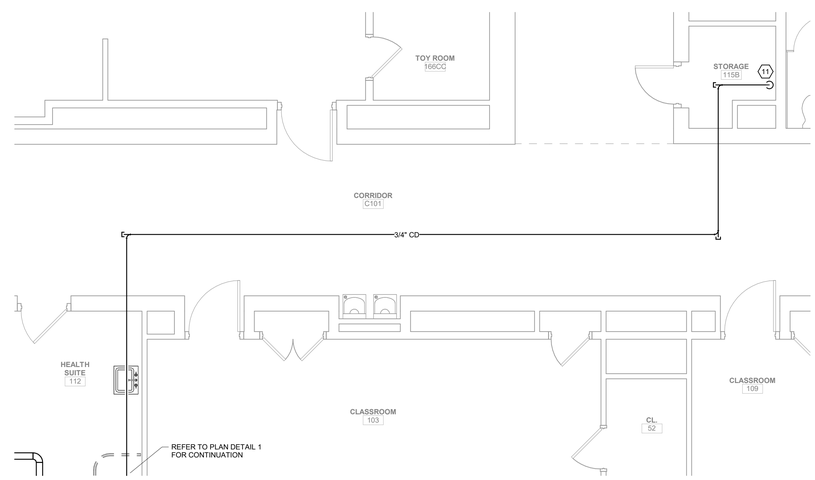


1 M101 First Floor Plan - Mechanical New Work
1/4" = 1'-0"



2 M101 First Floor Plan - Mechanical New Work Cont.
1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTOR IS TO INSPECT EQUIPMENT THAT IS TO BE REUSED AND DETERMINE THAT IT IS COMPLETE AND IN GOOD WORKING ORDER. IF NOT, REPORT FINDINGS TO THE ARCHITECT/ENGINEER.

B. EVERY EFFORT HAS BEEN MADE TO TO VERIFY CLEARANCE OF NEW INSTALLATIONS THROUGH FIELD OBSERVATIONS, HOWEVER, THE CONTRACTOR IS TO VERIFY ALL JOB INSTALLATIONS PRIOR TO PROVIDING NEW WORK.

C. ALL ITEMS BEING REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER FOR FUTURE USE. IF OWNER DECIDES THE FIXTURES ARE NOT REUSABLE, THE MECHANICAL CONTRACTOR SHALL DISPOSE OF THEM.

D. IF THERE IS A QUESTION REGARDING EXISTING MECHANICAL SYSTEMS THE CONTRACTOR IS TO VERIFY WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AS TO THE STATUS BEFORE PROCEEDING.

E. ALL INTERRUPTIONS OF SERVICE SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER. MECHANICAL SYSTEMS FEEDING FROM OR THROUGH THE CONTRACT AREA SHALL BE MAINTAINED.

F. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.

G. COORDINATE THIS DRAWING WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF NEW WALL AND CEILING WORK

H. COORDINATE THIS PLAN WITH REMOVAL PLAN.

I. ALL EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND PIPING SHOWN WITH LIGHT LINE WEIGHT IS EXISTING TO REMAIN.

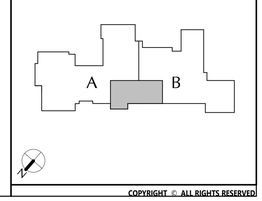
J. PROVIDE ACCESS DOORS AT ALL FIRE AND FIRE/SMOKE DAMPERS FOR SERVICE.

K. PROVIDE VOLUME DAMPER AT EACH BRANCH TAKE-OFF.

CODED NOTES

1. PROVIDE NEW CONTROLS ON EXISTING STEAM RADIATOR INCLUDING CONTROL VALVE.
2. REINSTALL EXISTING SALVAGED AIR PURIFIER IN NEW LOCATION INCLUDING WALL MOUNTED SHELF.
3. PROVIDE STEAM FIN TUBE RADIATION IN SAME LOCATION AS REMOVED RADIATOR. PROVIDE LPS & LPR PIPING, VALVES, TRAP (SPIRAX SARCO RT-125) AND CONTROLS. CONNECT TO EXISTING PIPING. VIF ENCLOSURE AND ELEMENT LENGTHS.
4. PROVIDE ENERGY RECOVERY VENTILATOR PER SCHEDULE LOCATED ABOVE CEILING.
5. PROVIDE VRF CEILING CASSETTE HEAT PUMP UNIT PER SCHEDULE.
6. PROVIDE GRADE MOUNTED VRF HEAT PUMP CONDENSING UNIT PER SCHEDULE. PROVIDE QUICK-SLING STAND. MAINTAIN ALL SERVICE CLEARANCES.
7. PROVIDE VRF BRANCH BOX ABOVE CEILING. PROVIDE CONDENSATE PUMP (CP-1; LITTLE GIANT, VCCA-20-P, 120V/1PH).
8. PROVIDE LOUVER PER SCHEDULE. PROVIDE INSULATED PLENUM WITH SLOPED BOTTOM.
9. PROVIDE MOTORIZED SHUTOFF DAMPER.
10. PROVIDE CONCRETE PAD PER DETAILS. PROVIDE 4' HIGH, BLACK CHAIN LINK FENCE AROUND ENTIRE CONCRETE PAD. PROVIDE 36" WIDE GATE IN FENCE. CONCRETE PAD SHALL EXTEND PAST FENCE.
11. PIPE CD TO ABOVE FLOOD RIM OF MOP SINK IN CUSTODIAL CLOSET.

KEY PLAN



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MECHANICAL NEW WORK PLAN

Sheet No.
HBE
M101

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ABBREVIATIONS

A	AMPERE(S)
AC	ALTERNATING CURRENT
ACC	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ASD	ADJUSTABLE SPEED DRIVE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
B	BOILER
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CKT	CIRCUIT
CLG	CEILING
COL	COLUMN
COMB	COMBINATION
CU	CONDENSING UNIT
Δ	DELTA CONNECTION
D	DEEP
DIA	DIAMETER
DN	DOWN
DP	DISTRIBUTION PANEL
DWG	DRAWING
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRIC(AL)
ELU	EMERGENCY LIGHTING UNIT
EM, EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
EXIST	EXISTING
F	FUSE(D)
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FAN COIL UNIT
FIXT	FIXTURE
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FOOD SERVICE
FURN	FURNISH(ED)
FUT	FUTURE
G	GROUND
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
H	HIGH
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-AUTO-OFF
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
IG	ISOLATED GROUND
I/L	INTERLOCK
J	JUNCTION
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT(S)
LTG	LIGHTING
LT(S)	LIGHT(S)
MAX	MAXIMUM
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
N	NORTH, NEUTRAL
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED, NURSE CALL
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OHD	OVERHEAD DOOR OPERATOR
OL	OVERLOAD
OO	ON-OFF
P	PANEL, POLE(S)
PB	PULL BOX, PUSHBUTTON
PF	POWER FACTOR
PH, Ø	PHASE
PL	PILOT LIGHT
PP	POWER POLE
PR	PAIR
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RECEPT	RECEPTACLE
RP	REFRIGERATION POWER
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RTH	RADIANT TUBE HEATER
RTU	ROOF TOP UNIT
S	SOUTH
SCHED	SCHEDULE
SCP	SECURITY CONTROL PANEL
SEC	SECONDARY
SFL	SUB-FEED LUGS
SPC	SPACE
SPKR	SPEAKER
SPR	SPARE
SS	START-STOP
SW	SWITCH
TCP	TEMPERATURE CONTROL PANEL
TEL	TELEPHONE
TS	TIME SWITCH
T-STAT	THERMOSTAT
TTB	TELECOMM. TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
U/C	UNDER CABINET
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VOLT(S)
VA	VOLT-AMPERE(S)
W	WATT, WEST, WIRE
W/	WITH
WCR	WITHSTAND CURRENT RATING
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE CONNECTION

RACEWAY SYSTEMS

- CONDUIT OR CABLE AS SPECIFIED
- CONDUIT OR CABLE TURNING UP
- CONDUIT OR CABLE TURNING DOWN
- CONDUIT STUB (REAMED AND BUSHED)
- CONNECTION TO EQUIPMENT
- CONDUIT CUT
- P/1,2,3 — HOMERUN TO PANELBOARD (PANEL AND CIRCUITS INDICATED)
- UGC — UNDERGROUND CABLE TV LINE
- UGFO — UNDERGROUND FIBER OPTIC LINE
- UGL — UNDERGROUND LIGHTING LINE
- UGP — UNDERGROUND PRIMARY LINE
- UGS — UNDERGROUND SECONDARY LINE
- UGT — UNDERGROUND TELECOMMUNICATIONS LINE
- J — JUNCTION BOX
- B — BLANK OUTLET

NOTE - LINES MAY BE SHOWN CURVED OR STRAIGHT.

BRANCH CIRCUITS

1. CONNECT EACH LIGHTING FIXTURE, SWITCH, RECEPTACLE, MOTOR, AND OTHER ITEM REQUIRING ELECTRICAL CONNECTIONS TO PANELBOARD AND CIRCUIT(S) INDICATED. HOMERUNS AND CONNECTIONS BETWEEN ITEMS MAY OR MAY NOT BE SHOWN.
2. P-XXX INDICATES ALL ELECTRICAL ITEMS IN RESPECTIVE ROOM TO BE CONNECTED TO THE DESIGNATED PANELBOARD, UNLESS INDICATED OTHERWISE.
3. NUMBER(S) SHOWN ADJACENT TO ELECTRICAL SYMBOLS GENERALLY INDICATE RESPECTIVE CIRCUIT NUMBER(S).
4. CONFIRM CORRECT CIRCUITING BY CORRELATING THE FLOOR PLANS WITH THE PANELBOARD SCHEDULES.

DEVICES AND OUTLETS

G — NOTE:
- "G" = INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE
- "U" = INDICATES USB TYPE RECEPTACLE
- DOT INDICATES 6" ABOVE BACKSPLASH OF COUNTER/OR SINK (VERTICALLY) (OR 6" ABOVE COUNTER/OR SINK WHEN NO BACKSPLASH EXISTS)

- DUPLEX RECEPTACLE - (18" AFF)
- DOUBLE DUPLEX (QUAD) RECEPTACLE - (18" AFF)
- SIMPLEX RECEPTACLE - (18" AFF)
- 6-20R — SPECIAL PURPOSE RECEPTACLE - (18" AFF) (NEMA CONFIGURATION INDICATED)
- QUADRUPLEX RECEPTACLE (FLOOR)
- DUPLEX RECEPTACLE (CEILING)

ABOVE SYMBOLS MAY BE COMBINED FOR VARIOUS APPLICATIONS

- T — THERMOSTAT - (60" AFF)
- R — RELAY
- TC — TIME SWITCH
- PC — PHOTOSWITCH
- B — BUZZER
- B — BUZZER PUSHBUTTON
- TELECOM/POWER POLE

POWER DISTRIBUTION EQUIPMENT

- DISTRIBUTION PANEL 277/480V,3Ø,4W
- DISTRIBUTION PANEL 120/208V,3Ø,4W
- BRANCH CIRCUIT PANELBOARD 277/480V,3Ø,4W
- BRANCH CIRCUIT PANELBOARD 120/208V,3Ø,4W
- NON-FUSED SAFETY SWITCH AMPS/NO. OF POLES
- FUSED SAFETY SWITCH AMPS/NO. OF POLES / FUSE SIZE
- CB — CIRCUIT BREAKER
- SS — SURGE SUPPRESSOR
- T — TRANSFORMER
- GROUND ROD
- GROUND BAR
- GROUNDING CONNECTION/POINT
- METER SOCKET

ELECTRICAL DRAWING LIST

E001	ELECTRICAL LEGEND AND ABBREVIATIONS
ED101	FIRST FLOOR ELECTRICAL REMOVALS PLAN
E100	GROUND FLOOR ELECTRICAL PLAN
E101	FIRST FLOOR LIGHTING AND SYSTEMS PLAN
E102	FIRST FLOOR POWER AND TELECOM PLAN

MOTORS, EQUIPMENT& CONTROLS

- MOTOR STARTER
- 2 — COMBINATION MOTOR STARTER
- 2 ASD — ADJUSTABLE SPEED DRIVE
- D — DAMPER
- CH — CABINET HEATER
- CUH — CABINET UNIT HEATER
- EFT — ELECTRIC FIN TUBE HEATER
- EF — EXHAUST FAN
- AC — A/C INDOOR UNIT
- HP — HEAT PUMP
- CU — A/C CONDENSING UNIT
- PTAC — PACKAGE TERMINAL AIR CONDITIONING UNIT

MISCELLANEOUS EQUIPMENT

- DO — DOOR OPERATOR
- DOOR OPERATOR PUSH PLATE - (48" AFF)

LIGHTING FIXTURES

FIXTURE IDENTIFICATION

A1 — FIXTURE TYPE INDICATED ADJACENT TO OR NEAR FIXTURE SYMBOL
a — SWITCH/ CONTROL DESIGNATION

LIGHTING FIXTURES

- WALL MOUNTED LIGHTING FIXTURE
- RECESSED SQUARE LIGHT FIXTURE
- 2'X2' SURFACE/RECESSED FIXTURE
- 2'X4' SURFACE/RECESSED FIXTURE
- 1'X4' SURFACE/RECESSED FIXTURE
- 4' STRIP LIGHT
- RECESSED DOWNLIGHT

EMERGENCY LIGHTING UNIT

- BATTERY EMERGENCY LIGHTING UNIT (SURFACE WALL MOUNT)
- BATTERY EMERGENCY LIGHTING UNIT (RECESSED CEILING MOUNT)

EXIT SIGNS

- COMBO EXIT SIGN & EMERGENCY LIGHTING UNIT
- EXIT SIGN (SINGLE-FACE, ARROW(S) AS INDICATED)
- EXIT SIGN (DUAL-FACE, ARROW(S) AS INDICATED)

LIGHTING CONTROLS

LINE VOLTAGE

- $ — SWITCH, 1-POLE - (48" AFF)
- $2 — SWITCH, 2-POLE - (48" AFF)
- $3 — SWITCH, 3-WAY - (48" AFF)
- $4 — SWITCH, 4-WAY - (48" AFF)

SWITCH SUBSCRIPTS:
LOWER CASE LETTERS INDICATE CONTROL
D = DIMMER
K = KEY OPERATED SWITCH
LV = LOW VOLTAGE
M = MANUAL MOTOR STARTER

- $ — PILOT LIGHT WALL SWITCH
- $ — OCCUPANCY SENSOR WALL SWITCH
- $D — OCCUPANCY SENSOR WALL SWITCH WITH 0-10V DIMMING

LOW VOLTAGE

- LCP — LIGHTING CONTROL PANEL
- LP XO — LIGHTING POWER PACK (X = QUANTITY, IF MORE THAN ONE; D= 0-10V DIMMING)
- OCCUPANCY SENSOR- CEILING MOUNTED
- DAYLIGHTING CONTROL PHOTOCELL
- $XO — ON-OFF SWITCH (X = QUANTITY OF SWITCHES, IF MORE THAN ONE)
- $XD — ON-OFF-RAISE-LOWER DIMMING SWITCH (X = QUANTITY OF CIRCUITS, IF MORE THAN ONE; D= 0-10V DIMMING)

ITEMS CONTROLLED
LOWER CASE LETTERS ARE USED TO CORROLATE CONTROL DEVICES TO RESPECTIVE FIXTURES CONTROLLED.

TELECOMMUNICATIONS

NOTE:
- "W" INDICATES WALL MOUNTED AT 48"AFF
- DOT INDICATES 6" ABOVE BACKSPLASH OF COUNTER/OR SINK (VERTICALLY) (OR 6" ABOVE COUNTER/OR SINK WHEN NO BACKSPLASH EXISTS)

- WR — TELECOMM. WIRING RACK
- TELECOMM. OUTLET- WALL (VOICE, DATA, AND OR CABLE) - (18" AFF)
- TELECOMM. OUTLET- FLOOR BOX (VOICE, DATA, AND OR CABLE)
- TELECOMM. OUTLET- CEILING (VOICE, DATA, AND OR CABLE)
- W — WALL TELEPHONE OUTLET - (48" AFF)
- WAP — WIRELESS ACCESS POINT

PUBLIC ADDRESS SYSTEM

- PA — PUBLIC ADDRESS SYSTEM EQUIPMENT RACK
- S — SPEAKER
- S C — COMBINATION SPEAKER & CLOCK
- V — VOLUME CONTROL

CLOCK SYSTEM

- MC — MASTER CLOCK
- C B — BATTERY CLOCK
- C — CLOCK (SECONDARY OR 120V)
- S C — COMBINATION CLOCK & SPEAKER

SECURITY SYSTEMS

- DAY — DAY AUTOMATION SECURITY SYSTEM CABINET
- SKP — SECURITY KEYPAD
- CC — VIDEO SURVEILLANCE CAMERA
- DL — ELECTRIC DOOR LOCK
- CR — CREDENTIAL READER
- REX — REQUEST TO EXIT DEVICE
- DC — DOOR CONTACT
- LD — LOCKDOWN PUSH BUTTON STATION - (48"AFF)
- M — INTERCOM/VIDEO MONITOR MASTER STATION
- E — INTERCOM/VIDEO CAMERA ENTRY STATION

FIRE ALARM SYSTEM

- FAA — FIRE ALARM ANNUNCIATOR
- FACP — FIRE ALARM CONTROL PANEL
- FAPS — FIRE ALARM POWER SUPPLY
- F — FIRE ALARM MANUAL STATION - (48" AFF)
- V F — FIRE ALARM STROBE (WALL/CEILING MOUNT)
- V F — FIRE ALARM HORN/STROBE (WALL/CEILING MOUNT)
- V F — FIRE ALARM HORN/STROBE (WALL/CEILING MOUNT)
- H — HEAT DETECTOR (ADDRESSABLE TYPE)
- S — AREA TYPE SMOKE DETECTOR
- S SB — AREA TYPE SMOKE DETECTOR WITH SOUNDER BASE
- S — DUCT TYPE SMOKE DETECTOR
- S T R — LINEAR BEAM SMOKE DETECTOR T= TRANSMITTER R= RECEIVER/REFLECTOR
- FM — FIRE ALARM MONITOR MODULE
- FR — FIRE ALARM RELAY MODULE
- H — MAGNETIC DOOR HOLDER
- SD — SMOKE DAMPER
- SH — SMOKE HATCH
- CO — CARBON MONOXIDE DETECTOR W/ INTEGRAL HEAT DETECTOR
- CO SB — CARBON MONOXIDE DETECTOR W/ SOUNDER BASE
- V CO — CARBON MONOXIDE STROBE (CEILING/WALL MOUNT)
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- PS — PRESSURE SWITCH
- RS — ROLLING COUNTER SMOKE SHUTTER
- OCS — ROLLING SHUTTER OPEN-CLOSE-STOP CONTROL STATION

NOTES TO ELECTRICAL SYMBOLS

1. ALL ABBREVIATIONS AND SYMBOLS MAY OR MAY NOT BE USED.
2. MOUNTING HEIGHTS: FOR ALL WALL MOUNTED DEVICES, ETC., LOCATE CENTERLINE OF DEVICE VERTICALLY AT INDICATED MOUNTING HEIGHT (E.G. 18" AFF) AND IN ACCORDANCE WITH THE NOTES BELOW, UNLESS INDICATED OTHERWISE. MOUNTING HEIGHTS (E.G. 42") INDICATED ADJACENT TO SYMBOLS ON PLANS, AND MOUNTING HEIGHTS SHOWN ON ELEVATIONS OR DETAILS OR BY NOTES TAKE PRECEDENCE OVER STANDARD MOUNTING HEIGHTS.
3. ELECTRICAL DEVICE PLACEMENT: WHERE MULTIPLE ELECTRICAL DEVICES (E.G. SWITCHES, RECEPTACLES, CLOCKS, FIRE ALARM DEVICES, EXIT SIGNS, TELECOMMUNICATION OUTLETS, ETC.) ARE SHOWN NEAR EACH OTHER, ORGANIZE EXACT LOCATIONS IN GROUPS WHICH ALIGN ON COMMON HORIZONTAL AND VERTICAL CENTER LINES.
4. WIRING DEVICE GANGING: WHERE ADJACENT WIRING DEVICES ARE INDICATED, GROUP ALL SUCH DEVICES WITH A COMMON MULTI-GANG COVERPLATE UNLESS INDICATED OTHERWISE.
5. INDIVIDUAL CIRCUIT BREAKERS, SAFETY SWITCHES, STARTERS, AND THE LIKE: WHEREVER PRACTICABLE, MOUNT WITH CENTER LINE OF ENCLOSURE AT 60" AFF, BUT ADJUST AS NECESSARY SO THAT TOP OF ENCLOSURE IS AT MAXIMUM 72" AFF.
6. EMERGENCY LIGHTING UNITS: MOUNT AT 96" AFF TO CENTER LINE OF UNIT, OR WITH TOP OF UNIT AT 6" BELOW CEILING LINE, WHICHEVER IS LESS.
7. EXIT SIGNS: WHERE LOCATED ABOVE DOOR, CENTER EXIT SIGN VERTICALLY BETWEEN TOP OF DOOR FRAME AND CEILING LINE, BUT AT MAXIMUM 96" AFF TO CENTER LINE. USE SAME MOUNTING HEIGHT FOR EXIT SIGNS IN VICINITY BUT NOT LOCATED ABOVE DOOR.
8. FIRE ALARM NOTIFICATION APPLIANCES: (E.G. HORN/STROBES, STROBES, ETC.), MOUNT AT 80" AFF TO CENTER LINE OF UNIT, OR WITH TOP OF DEVICE AT 6" BELOW CEILING LINE, WHICHEVER IS LESS.
9. SOLID LIGHT/GRAY LINES: INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN, UNLESS INDICATED OTHERWISE.
10. DASHED DARK/BLACK LINES: INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED, UNLESS INDICATED OTHERWISE.
11. SOLID DARK/BLACK LINES: INDICATE NEW ELECTRICAL WORK, UNLESS INDICATED OTHERWISE.

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Project Title
CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2

STATE OF NEW YORK · GUNTER BENEDICT BARNES · 089635 · LICENSED PROFESSIONAL ENGINEER
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Sheet Title
ELECTRICAL LEGEND AND ABBREVIATIONS

Sheet No.
HBE
E001

CONSTRUCTION DOCUMENTS

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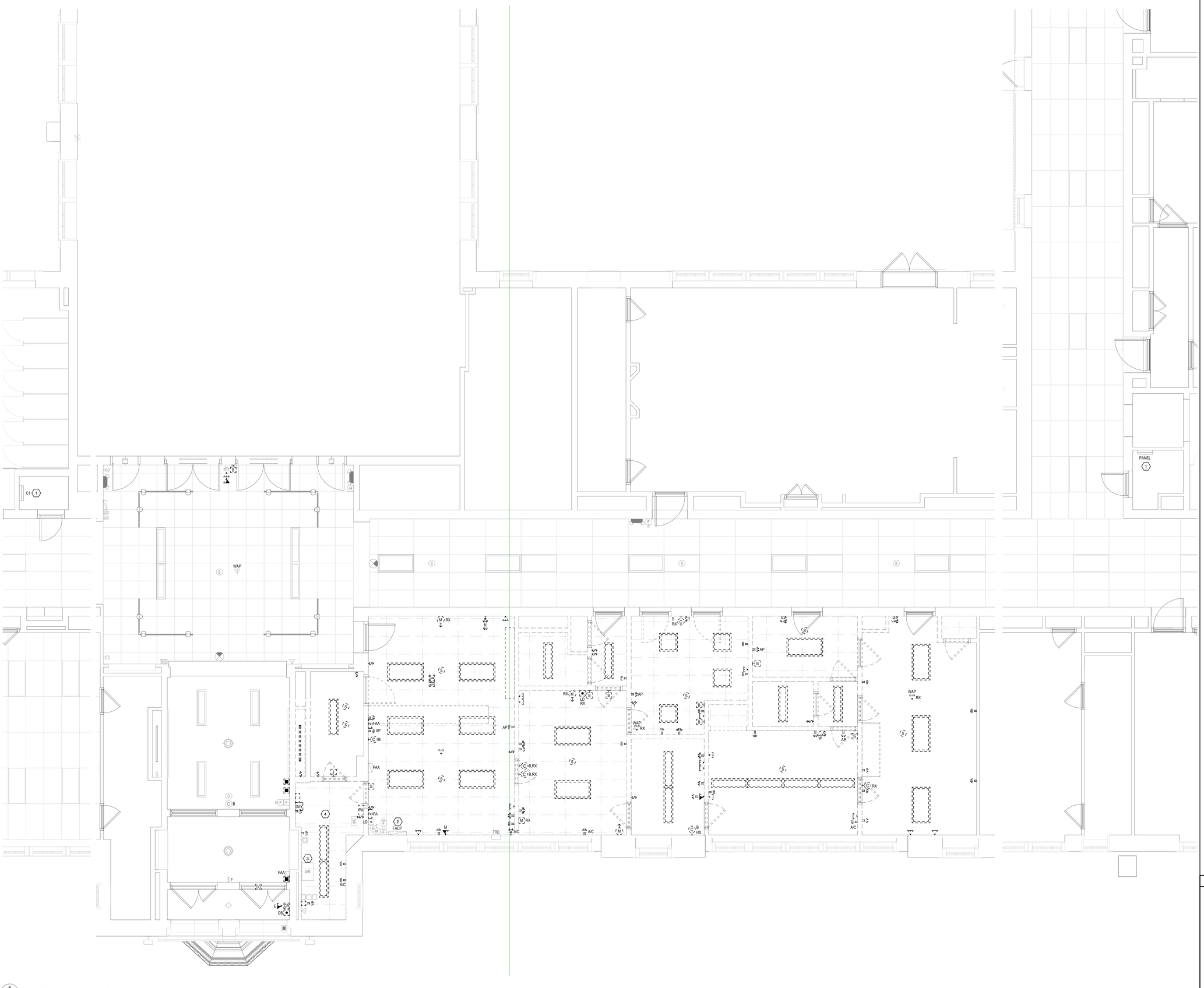


1 ED101 FIRST FLOOR ELECTRICAL REMOVALS PLAN
1/4" = 1'-0"

GENERAL NOTES

A. SCOPE: ELECTRICAL REMOVALS PLAN INDICATES GENERAL SCOPE OF ELECTRICAL REMOVALS WORK, BUT DOES NOT SHOW ALL ELEMENTS OF SAME. PROVIDE ALL ELECTRICAL DISCONNECTIONS AND REMOVALS WORK INDICATED ON DRAWINGS, REQUIRED BY THE SPECIFICATIONS, AND THAT ARE REASONABLY REQUIRED FOR SUCCESSFUL PROJECT COMPLETION.

B. LIGHT/GRAY LINES: INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN, UNLESS INDICATED OTHERWISE.

C. BLACK/DASHED LINES: REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BLACK DASHED LINES UNLESS INDICATED OTHERWISE. REMOVE ALL ASSOCIATED WIRING AND ALL WIRING WHICH IS OR WILL NO LONGER BE IN USE. REMOVE ALL EXISTING CONDUITS, BOXES, STRAPS, ETC. WHICH WILL NO LONGER BE IN USE.

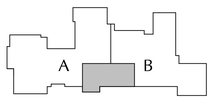
D. "RX": INDICATES RELOCATE EXISTING ELECTRICAL ITEM. SEE DRAWING E101 FOR CORRESPONDING NEW LOCATION.

E. EXISTING BRANCH CIRCUITS DISCONNECTED: RETAIN EXISTING 120V AND 208V BRANCH CIRCUITS BEING DISCONNECTED AS PART OF REQUIRED ELECTRICAL REMOVALS WORK IF REUSE IS INDICATED ON DWGS. E101 OR E102, OR OTHERWISE REQUIRED. FOR EACH SUCH EXISTING CIRCUIT NOT BEING REUSED, REMOVE IT COMPLETE BACK TO SOURCE.

KEYED NOTES

1. EXISTING 120/208V, 3Ø, 4W PANELBOARD TO REMIAN.
2. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
3. EXISTING TELECOM WIRING RACK AND ALL OTHER EXISTING TELECOM EQUIPMENT, DEVICES, CONDUITS AND CABLING IN THIS ROOM TO REMAIN.
4. DISCONNECT AND REMOVE ALL EXISTING RECEPTS IN THIS ROOM.

KEY PLAN



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STATE OF NEW YORK · CURTIS BENEDICT PAGE · 089636 · LICENSED PROFESSIONAL ENGINEER
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Sheet Title
FIRST FLOOR ELECTRICAL REMOVALS PLAN

Sheet No.
HBE
ED101

CONSTRUCTION DOCUMENTS

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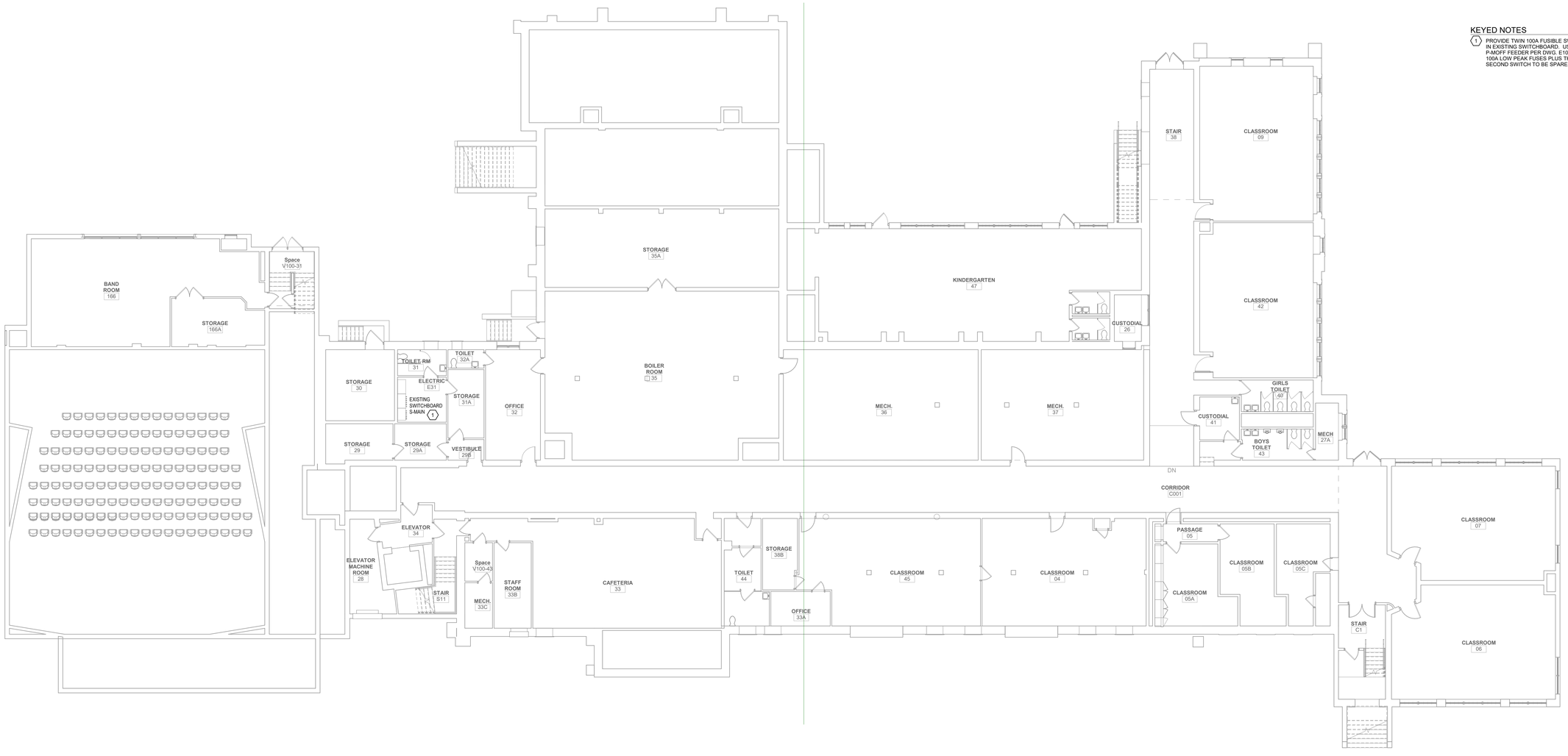
GENERAL NOTES

A. LIGHT/GRAY LINES: INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN, UNLESS INDICATED OTHERWISE.

B. SOLID BLACK LINES: INDICATE ELECTRICAL NEW WORK, UNLESS INDICATED OTHERWISE.

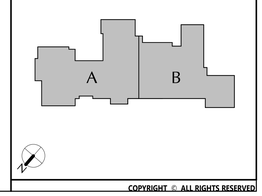
KEYED NOTES

1. PROVIDE TWIN 100A FUSIBLE SWITCH FEEDER UNIT IN EXISTING SWITCHBOARD. USE ONE FOR PANEL P-MOFF FEEDER PER DWG. E102. (PROVIDE THREE 100A LOW PEAK FUSES PLUS THREE SPARES). SECOND SWITCH TO BE SPARE.



1 / E100 GROUND FLOOR ELECTRICAL PLAN
1" = 10'-0"

KEY PLAN



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Sheet Title
GROUND FLOOR ELECTRICAL PLAN

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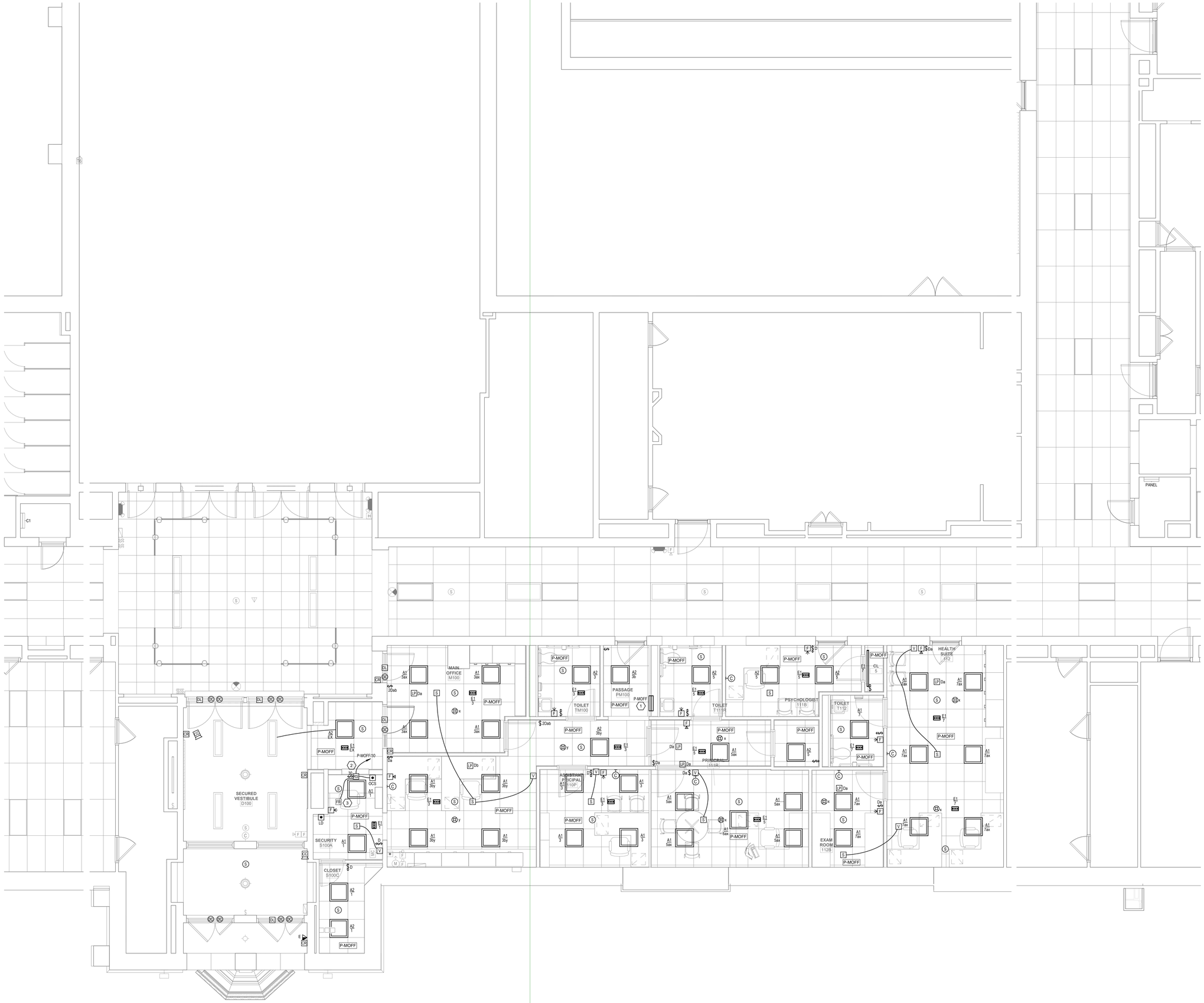


1 / E101 FIRST FLOOR LIGHTING AND SYSTEMS PLAN
1/4" = 1'-0"

GENERAL NOTES

A. LIGHT/GRAY LINES: INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN, UNLESS INDICATED OTHERWISE.

B. SOLID BLACK LINES: INDICATE ELECTRICAL NEW WORK, UNLESS INDICATED OTHERWISE.

C. "NX": INDICATES NEW LOCATION FOR EXISTING ELECTRICAL ITEM (SEE DWG. ED101 FOR ORIGINAL LOCATION). CLEAN, CHECKOUT, REINSTALL AND RECONNECT ITEM PER ORIGINAL. EXTENDING EXISTING CIRCUITING IN KIND AS REQUIRED.

D. "EX": INDICATES CONNECT TO EXISTING 120V, 20A LIGHTING OR RECEPTACLE CIRCUIT (AS INDICATED) IN ROOM/VICINITY. EXTEND CIRCUITING AS REQUIRED.

E. BRANCH CIRCUITS: ALL BRANCH CIRCUITS TO BE 1/2"C., 2#12 & 1#12G OR EQUIVALENT TYPE "MC" CABLE WHERE PERMITTED BY SPECS. 260501, UNLESS INDICATED OR REQUIRED OTHERWISE BY NEC.

F. FIRE ALARM INITIATING DEVICES: CONNECT TO EXISTING FIRE ALARM INITIATING/CONTROL LOOP IN VICINITY (CONFIRM ADEQUATE CAPACITY).

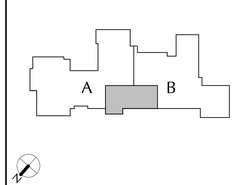
G. FIRE ALARM NOTIFICATION DEVICES: CONNECT TO EXISTING FIRE ALARM NOTIFICATION CIRCUIT(S) IN VICINITY (CONFIRM ADEQUATE CAPACITY).

H. SECURITY SYSTEMS DEVICES/STATIONS: FOR EACH, PROVIDE MINIMUM 4" SQUARE X 2-1/2" DEEP BOX WITH SINGLE-GANG EXTENSION RING AND BLANK COVERPLATE, AND 3/4" C. FROM BOX STUBBED UP TO NEAREST ACCESSIBLE CEILING SPACE. REAM AND BUSH CONDUIT STUB AND PROVIDE NYLON PULL STRING. CONFIRM REQUIRED OUTLET BOX SIZE WITH OWNER'S SELECTED SECURITY SYSTEMS VENDOR AND PROVIDE BIGGER OR SPECIAL OUTLET BOX IF REQUIRED. SECURITY DEVICE/STATION AND REQUIRED CABLING TO BE PROVIDED SEPARATELY BY OWNER'S SELECTED SECURITY SYSTEMS CONTRACTOR/VENDOR. COORDINATE ALL WORK AS REQUIRED.

KEYED NOTES

1. 120/208V, 3Ø, 4W PANELBOARD. SEE SCHEDULE ON DWG. E102.
2. CONNECT ROLLING COUNTER FIRE SHUTTER OPERATOR TO INDICATED 120V, 20A CIRCUIT. PROVIDE 125V, 1-POLE TOGGLE SWITCH DISCONNECT FOR SHUTTER OPERATOR. PROVIDE OUTLET BOX FOR AND INSTALL REMOTE OPEN/CLOSE/STOP PUSHBUTTON STATION FURNISHED BY DIV. 8 AND 1/2"C. FROM SHUTTER OPERATOR TO PUSHBUTTON STATION OUTLET BOX WITH ALL CONTROL WIRING AS REQUIRED BY DIV. 8.
3. FIRE ALARM RELAY MODULE FOR ROLLING COUNTER FIRE SHUTTER RELEASE. CONNECT TO EXISTING FIRE ALARM INITIATING/CONTROL LOOP IN VICINITY, AND TO SHUTTER RELEASE MECHANISM. PROGRAM EXISTING FACP SO THAT SHUTTER RELEASES AND CLOSES UPON ACTIVATION OF EITHER OR BOTH NEARBY SMOKE DETECTORS (ONE IN SECURITY OFFICE AND NEAREST ONE IN ADJACENT LOBBY).

KEY PLAN



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Project Title
CITY SCHOOL DISTRICT OF NEW ROCHELLE
HENRY BARNARD ELEMENTARY SCHOOL
2023 CAPITAL PROJECTS - PHASE 2

STATE OF NEW YORK
CURTIS BENEDETTO
089638
LICENSED PROFESSIONAL ENGINEER
EXP: 11/30/2025

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Sheet Title
FIRST FLOOR LIGHTING AND SYSTEMS PLAN

Sheet No.
HBE
E101

CONSTRUCTION DOCUMENTS

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Branch Panel: P-MOFF

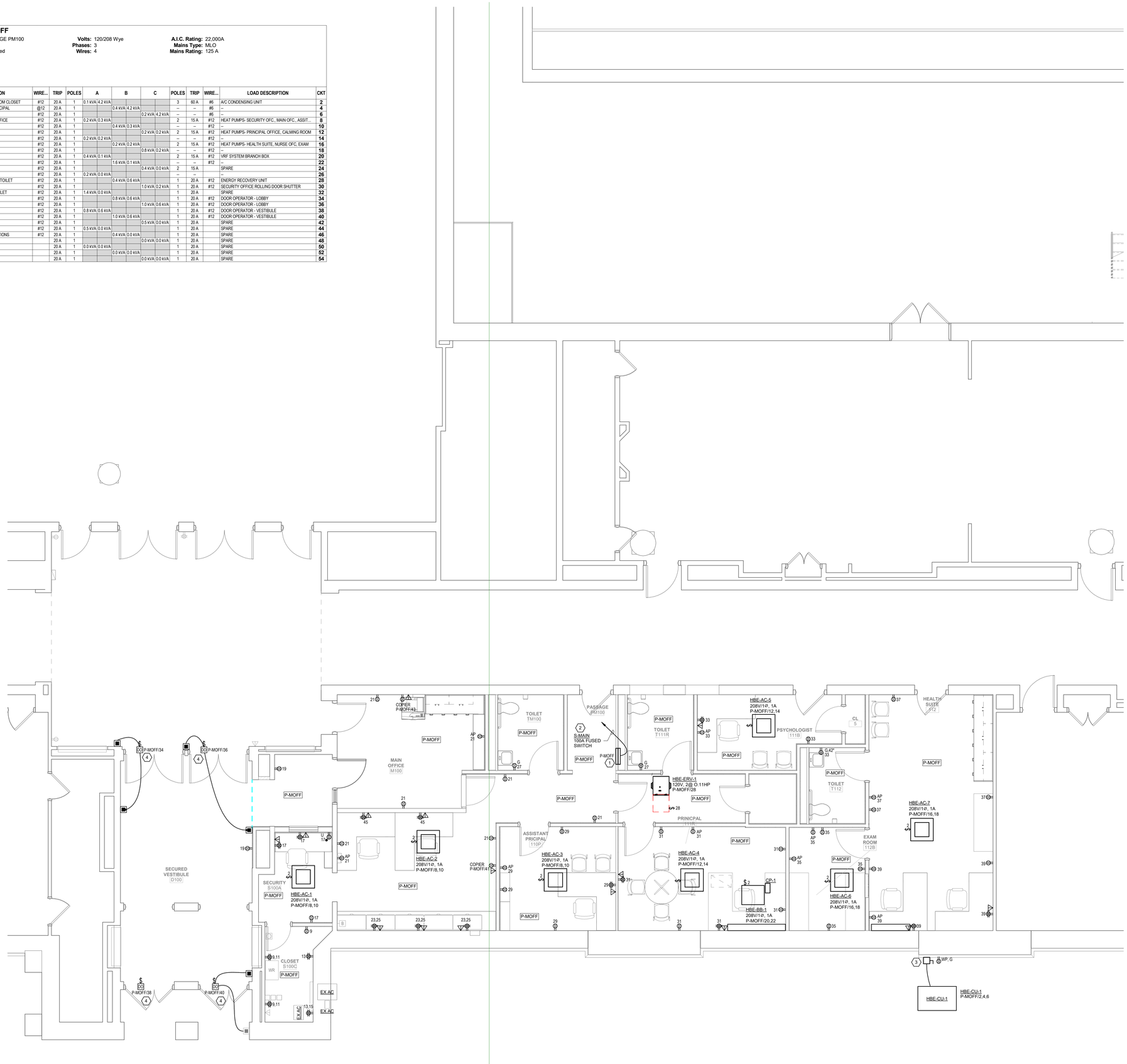
Location: PASSAGE PM100
Supply From: S-MAIN
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000A
Mains Type: MLO
Mains Rating: 125 A

More Info.:

CKT	LOAD DESCRIPTION	WIRE...	TRIP	POLES	A		B		C		POLES	TRIP	WIRE...	LOAD DESCRIPTION	CKT
1	LIGHTS- SECURITY OFFICE, TELECOM CLOSET	#12	20 A	1	0.1 kVA	4.2 kVA					3	60 A	#6	A/C CONDENSING UNIT	2
3	LIGHTS- MAIN OFFICE, ASSIT. PRINCIPAL	@12	20 A	1			0.4 kVA	4.2 kVA			--	--	#6	--	4
5	LIGHTS- PRINCIPAL OFFICE	#12	20 A	1					0.2 kVA	4.2 kVA	--	--	#6	--	6
7	LIGHTS- HEALTH SUITE, NURSE OFFICE	#12	20 A	1	0.2 kVA	0.3 kVA					2	15 A	#12	HEAT PUMPS- SECURITY OFC., MAIN OFC., ASSIT...	8
9	RECEPT- TELECOM CLOSET	#12	20 A	1			0.4 kVA	0.3 kVA			--	--	#12	--	10
11	RECEPT- TELECOM CLOSET	#12	20 A	1					0.2 kVA	0.2 kVA	2	15 A	#12	HEAT PUMPS- PRINCIPAL OFFICE, CALMING ROOM	12
13	RECEPT- TELECOM CLOSET	#12	20 A	1	0.2 kVA	0.2 kVA					--	--	#12	--	14
15	RECEPT- TELECOM CLOSET A/C	#12	20 A	1			0.2 kVA	0.2 kVA			2	15 A	#12	HEAT PUMPS- HEALTH SUITE, NURSE OFC, EXAM	16
17	RECEPT- SECURITY OFFICE	#12	20 A	1					0.8 kVA	0.2 kVA	--	--	#12	--	18
19	RECEPT- VESTIBULE	#12	20 A	1	0.4 kVA	0.1 kVA					2	15 A	#12	VRF SYSTEM BRANCH BOX	20
21	RECEPT- MAIN OFFICE	#12	20 A	1			1.6 kVA	0.1 kVA			--	--	#12	--	22
23	RECEPT- MAIN OFFICE	#12	20 A	1					0.4 kVA	0.0 kVA	2	15 A		SPARE	24
25	RECEPT- MAIN OFFICE	#12	20 A	1	0.2 kVA	0.0 kVA					--	--		--	26
27	RECEPT- MAIN OFFICE, PRINCIPAL TOILET	#12	20 A	1			0.4 kVA	0.6 kVA			1	20 A	#12	ENERGY RECOVERY UNIT	28
29	RECEPT- ASSIT. PRINCIPAL	#12	20 A	1					1.0 kVA	0.2 kVA	1	20 A	#12	SECURITY OFFICE ROLLING DOOR SHUTTER	30
31	RECEPT- CALMING RM., NURSE TOILET	#12	20 A	1	1.4 kVA	0.0 kVA					1	20 A		SPARE	32
33	RECEPT- PRINCIPAL OFFICE	#12	20 A	1			0.8 kVA	0.6 kVA			1	20 A	#12	DOOR OPERATOR - LOBBY	34
35	RECEPT- NURSE OFFICE	#12	20 A	1					1.0 kVA	0.6 kVA	1	20 A	#12	DOOR OPERATOR - LOBBY	36
37	RECEPT- HEALTH SUITE	#12	20 A	1	0.8 kVA	0.6 kVA					1	20 A	#12	DOOR OPERATOR - VESTIBULE	38
39	RECEPT - EXAM ROOM	#12	20 A	1			1.0 kVA	0.6 kVA			1	20 A	#12	DOOR OPERATOR - VESTIBULE	40
41	RECEPT - MAIN OFFICE COPIER	#12	20 A	1					0.5 kVA	0.0 kVA	1	20 A		SPARE	42
43	RECEPT - MAIN OFFICE COPIER	#12	20 A	1	0.5 kVA	0.0 kVA					1	20 A		SPARE	44
45	RECEPT - MAIN OFFICE WORKSTATIONS	#12	20 A	1			0.4 kVA	0.0 kVA			1	20 A		SPARE	46
47	SPARE		20 A	1					0.0 kVA	0.0 kVA	1	20 A		SPARE	48
49	SPARE		20 A	1	0.0 kVA	0.0 kVA					1	20 A		SPARE	50
51	SPARE		20 A	1			0.0 kVA	0.0 kVA			1	20 A		SPARE	52
53	SPARE		20 A	1					0.0 kVA	0.0 kVA	1	20 A		SPARE	54



1 / E102 FIRST FLOOR POWER AND TELECOM PLAN
1/4" = 1'-0"

GENERAL NOTES

A. LIGHT/GRAY LINES: INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN, UNLESS INDICATED OTHERWISE.

B. SOLID BLACK LINES: INDICATE ELECTRICAL NEW WORK, UNLESS INDICATED OTHERWISE.

C. "NX": INDICATES NEW LOCATION FOR EXISTING ELECTRICAL ITEM (SEE DWG. ED101 FOR ORIGINAL LOCATION). CLEAN, CHECKOUT, REINSTALL AND RECONNECT ITEM PER ORIGINAL, EXTENDING EXISTING CIRCUITING IN KIND AS REQUIRED.

D. "EX": INDICATES CONNECT TO EXISTING 120V, 20A LIGHTING OR RECEPTACLE CIRCUIT (AS INDICATED) IN ROOM/VICINITY. EXTEND CIRCUITING AS REQUIRED.

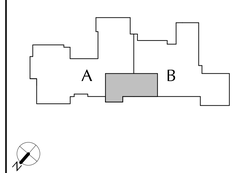
E. BRANCH CIRCUITS: ALL BRANCH CIRCUITS TO BE 1/2"C., 2#12 & 1#12G OR EQUIVALENT TYPE "MC" CABLE WHERE PERMITTED BY SPECS. 260501, UNLESS INDICATED OR REQUIRED OTHERWISE BY NEC.

F. TELECOM OUTLETS: FOR EACH, PROVIDE 4" SQUARE X 2-1/2" DEEP BOX WITH SINGLE-GANG EXTENSION RING AND BLANK COVERPLATE, AND 3/4" C. FROM BOX STUBBED UP TO NEAREST ACCESSIBLE CEILING SPACE. REAM AND BUSH CONDUIT STUB AND PROVIDE NYLON PULL STRING. TELECOM CABLING AND JACK(S) TO BE PROVIDED SEPARATELY BY OWNER OR OWNER'S VENDOR. COORDINATE ALL WORK AS REQUIRED.

KEYED NOTES

1. 120/208V, 3Ø, 4W, 100A PANELBOARD. SEE SCHEDULE ON THIS DWG.
2. 1-1/2" , 4#2 & 1#8G FEEDER TO EXISTING SWITCHBOARD S-MAIN ON GROUND FLOOR BELOW. FIELD ROUTE AS REQUIRED.
3. 250V, 60A/3P, NON-FUSED, NEMA-3R SAFETY SWITCH DISCONNECT.
4. CONNECT DOOR OPERATOR TO INDICATED 120V, 20A/1P CIRCUIT BREAKER IN NEW PANELBOARD. PROVIDE 125V, 1-POLE TOGGLE SWITCH DISCONNECT FOR DOOR OPERATOR. PROVIDE OUTLET BOX FOR EACH REMOTE PUSH PLATE STATION AND 1/2"C FROM DOOR OPERATOR TO EACH PUSHPLATE BOX WITH ALL CONTROL WIRING AS REQUIRED BY DIV. 8.

KEY PLAN



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FIRST FLOOR POWER AND TELECOM PLAN

Sheet No.
HBE
E102

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