

# VALLEY CENTRAL SCHOOL DISTRICT MONTGOMERY ELEMENTARY SCHOOL 2023 CAPITAL PROJECT - PHASE 1

**ISSUED FOR BID:** 10/18/24

**CSARCH** - ARCHITECTS

BLAKE ENGINEERING, PLLC - M.E.P. ENGINEERS

PASSERO ASSOCIATES - SITE/CIVIL AND STRUCTURAL ENGINEERS

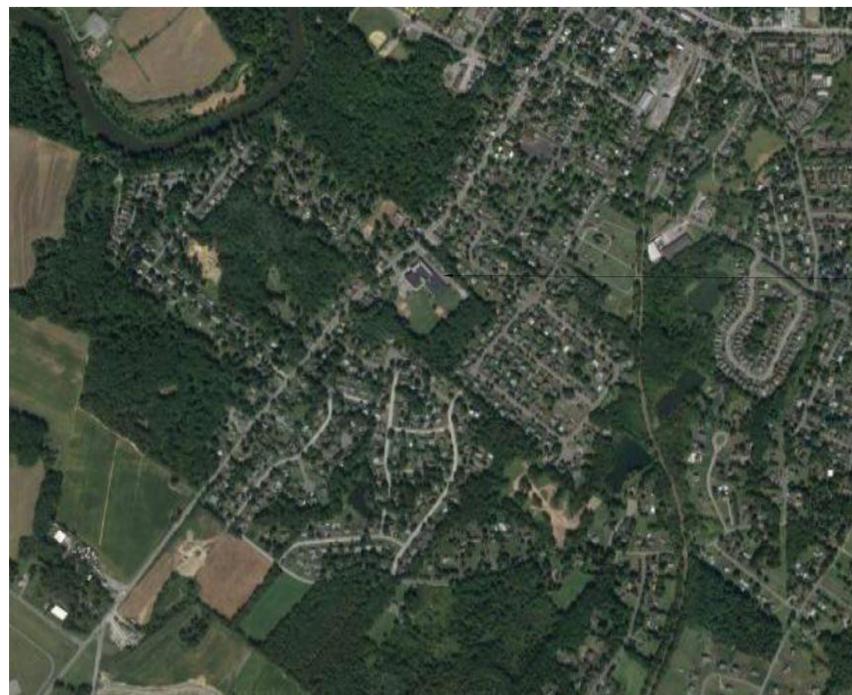
AECC ENVIRONMENTAL CONSULTING - HAZARDOUS MATERIALS DESIGNERS

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:

2023 CAPITAL PROJECT - PHASE 1 44-13-01-06-0-004-015

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. 187-2302.01



Montgomery Elementary School  
141 Union St  
Montgomery, NY 12549

VICINITY MAP

NTS



DRAWING LIST	
<b>GENERAL DRAWINGS</b>	
MES G000	COVER & SHEET INDEX
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MES LS112	SMOKE ZONE PLANS
<b>ARCHITECTURAL DEMOLITION DRAWINGS</b>	
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MES ED111	ELECTRICAL DEMOLITION PLAN
<b>ELECTRICAL DRAWINGS</b>	
MES E111	ELECTRICAL PLAN



EXPIRATION DATE: 02/28/2025

VOLUME 3 OF 8

NO.	DATE	DESCRIPTION

Drawn By:                           Author  
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Issued for Bid:                           10/18/24

Sheet Title  
**SYMBOLS,  
ABBREVIATIONS,  
MISC AND  
PARTITION  
TYPES**

Sheet No.  
**MES  
G001**

**PLAN GRAPHICS LEGEND**

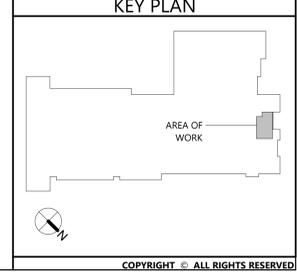
	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE REMOVED
	NEW CONCRETE MASONRY WALL
	NEW METAL STUD WALL
	NEW BRICK VENEER
	EXISTING DOOR TO REMAIN
	EXISTING DOOR TO BE REMOVED
	NEW DOOR

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

- GENERAL NOTES**
- DIMENSIONS ARE GIVEN THIS (UNLESS NOTED OTHERWISE)
    - TO FACE OF MASONRY WALL
    - TO FACE OF METAL STUD
    - TO COLUMN CENTERLINES
    - TO FINISH FACE OF SOFFIT OR CEILING
    - FACE OF EXISTING CONSTRUCTION
  - 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.
  - WALLS ON COLUMN LINES ARE CENTERED, UNO.
  - 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.
  - 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.
  - ALL ELEVATIONS (X'-X") ARE REFERENCE FROM FIRST FLOOR ELEVATION.
  - ALL WOOD BLOCKING WITHIN 2'-0" OF GRADE SHALL BE PRESSURE TREATED.
  - ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND /OR FIRE STOPPED. COORDINATE WITH HDPSS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
  - FOR INTERIOR PARTITION TYPES, REFER TO DRAWING G001.
  - FOR DOOR SCHEDULE, REFER TO DRAWING A01.
  - FOR FINISH SCHEDULE, REFER TO DRAWING AF111.
  - ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
  - PROVIDE PATCH TO MATCH EXISTING FINISHES AT ALL WALL REMOVAL AREAS, COORDINATE WITH DEMOLITION DRAWINGS AND SPECIFICATIONS.
  - ALL CONSTRUCTION SHOWN IS NEW UNLESS NOTED OTHERWISE.

**DETAIL INDICATOR LEGEND**

	ROOM NAME
	ROOM NUMBER
	AREA OF ROOM
	DOOR NUMBER, REFER TO A100 DRAWINGS
	WINDOW TAG, REFER TO A100 DRAWINGS
	BORROWED LIGHT NUMBER, REFER TO A100 DRAWINGS
	STOREFRONT / CURTAIN WALL NUMBER, REFER TO A100 DRAWINGS
	COLUMN GRID DESIGNATION
	PARTITION TAG, REFER TO A100 DRAWINGS
	HOUR RATING OF PARTITION
	ADDITIONAL NOTES FOR PARTITION
	REVISION NUMBER
	KEY NOTE, NEW WORK
	KEY NOTE, DEMOLITION WORK
	ELEVATION TAG
	HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE
	ROOM NAME
	INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS
	WALL FINISH
	FLOOR FINISH



**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

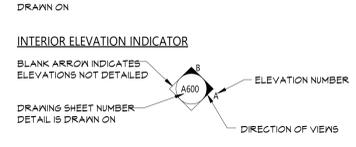
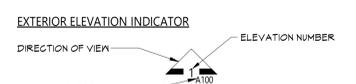
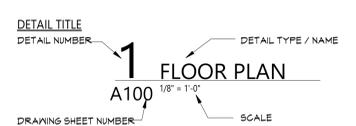
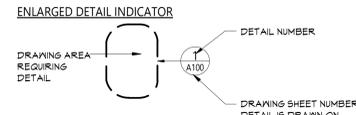
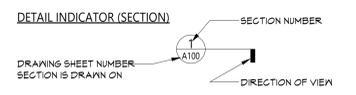
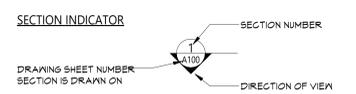
**DIMENSIONING CONVENTIONS**

	FACE OF STUD OR CMU
	COLUMN CENTER LINE

**SYMBOLS**

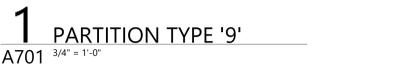
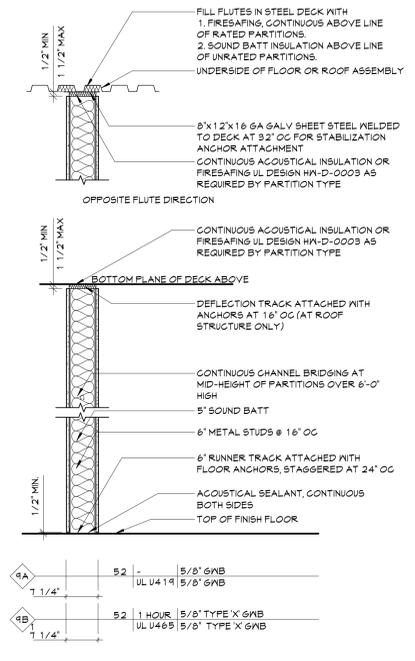
	CLASSROOM
	ROOM NAME
	ROOM NUMBER
	AREA OF ROOM
	DOOR NUMBER, REFER TO A100 DRAWINGS
	WINDOW TAG, REFER TO A100 DRAWINGS
	BORROWED LIGHT NUMBER, REFER TO A100 DRAWINGS
	STOREFRONT / CURTAIN WALL NUMBER, REFER TO A100 DRAWINGS
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	ELEVATION TAG
	HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE
	ROOM NAME
	INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS
	WALL FINISH
	FLOOR FINISH

**DETAIL INDICATOR LEGEND**



**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
CLS	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
EPS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
ELEV	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDANT-TREATED MATERIAL
FTS	FOOTING
G	GROUND
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
GWBBS	GYPSUM WALL BOARD SOFFIT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTS	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
LN	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 AFFLIABLE
NC	NOT IN CONTRACT
NDM	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
SM	SIMILAR
SPEC	SPECIFICATION
SG	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STND	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
SAC	SUSPENDED ACOUSTICAL CEILING
TAB	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEGH	TECHNOLOGY
TEMP	TEMPORARY
TEMPD	TEMPERED
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYF	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/O	WITH
W/D	WITHOUT
WPT	WOOD PRESERVED-TREATED MATERIAL
WGT	WEIGHT
YD	YARD



**1 PARTITION TYPE '19'**  
A701 3/4" = 1'-0"

GENERAL DESIGN LOAD REQUIREMENTS			
LOADING TYPE	BUILDING CODE SECTION	OCCUPANCY/USE/LOCATION	REQUIRED
MINIMUM UNIFORM DISTRIBUTED LIVE LOADS	2020 BUILDING CODE OF NEW YORK STATE TABLE 1607.1	SCHOOLS - CLASSROOMS	40 PSI
		SCHOOLS - FIRST FLOOR CORRIDORS	100 PSI
		SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	80 PSI
		OFFICE BUILDINGS - OFFICES	50 PSI
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	40 PSI
		ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI
FLAT ROOF SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	28 PSI
DESIGN WIND SPEEDS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1609.3	RISK CATEGORY III MONTGOMERY, NY	130 VMPH



**1** OVERALL FIRST FLOOR PLAN  
G111 1/16" = 1'-0"

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845-561-3379 www.csarch.com



VALLEY CENTRAL SCHOOL DISTRICT  
MONTGOMERY ELEMENTARY SCHOOL  
2023 CAPITAL PROJECT - PHASE 1

Project Title



EXPIRATION DATE: 02/28/2025

DATE	DESCRIPTION

Drawn By: *Autism*  
Checked By: *44-13-01-06-0-004-015*  
Proj. #: *187-2302.01*  
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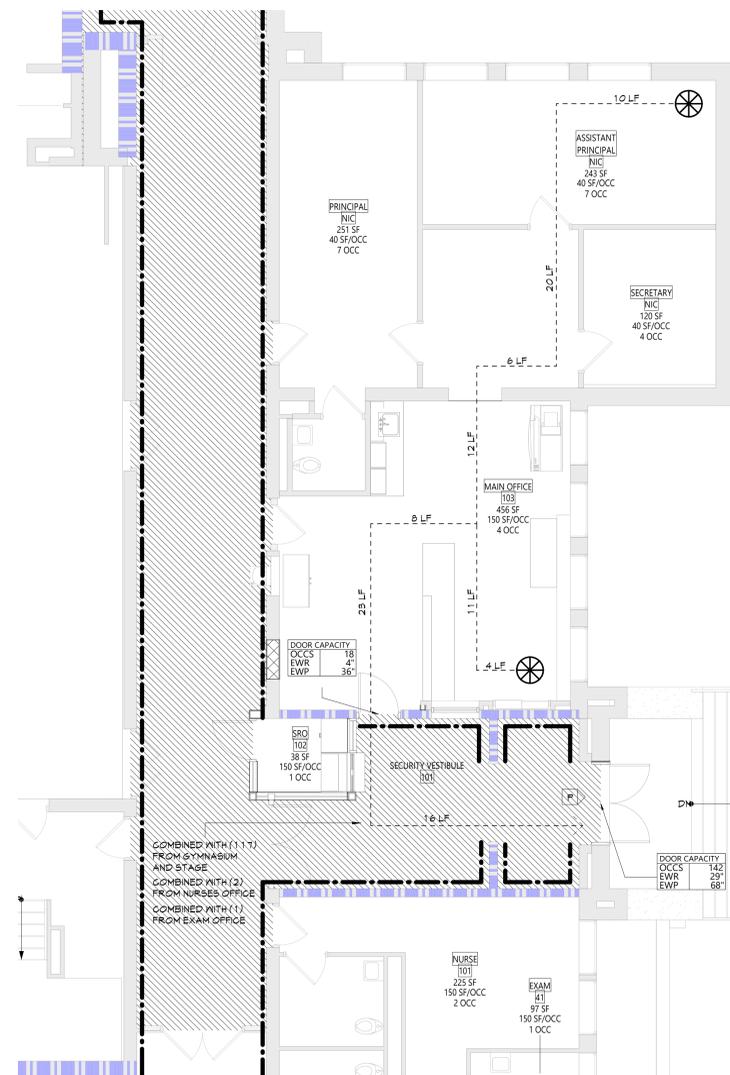
Sheet Title  
**OVERALL FLOOR PLAN - FIRST FLOOR**

Sheet No.  
**MES G111**

CONSTRUCTION DOCUMENTS

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**1** LIFE SAFETY PLAN - VESTIBULE  
LS111 3/16" = 1'-0"

### LIFE SAFETY PLAN LEGEND

- Primary Exit
- Secondary Exit
- Rescue Window (Secondary Exit)
- Accessible Exit
- Rescue Assistance Station/Area of Refuge
- Number of Occupants per Table 1004.1.2 (Actual Number of Occupants)
- Required Exit Width for Door Based on (Occupant \* 0.2)
- 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
- ESB: Emergency Eyewash Station
- FE: Fire Extinguisher, Wall Mount
- FE2: Fire Extinguisher Cabinet

### SMOKE SEPARATION LEGENDS

- Smoke Barrier

### 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

ORIGINAL CONSTRUCTION: xxxx  
 CONSTRUCTION TYPE: IB  
 BASEMENT AREA: SF GROSS  
 FIRST FLOOR AREA: F6SF GROSS  
 SECOND FLOOR AREA: SF GROSS

ADDITION CONSTRUCTION: xxxx  
 CONSTRUCTION TYPE: IB  
 BASEMENT AREA: SF GROSS  
 FIRST FLOOR AREA: SF GROSS  
 SECOND FLOOR AREA: SF GROSS

CLASSIFICATION OF WORK:

- LEVEL 1 ALTERATION: xxx SF
- LEVEL 2 ALTERATION: xxx SF

### OCCUPANT LOAD

ACCESSORY STORAGE AREA, MECH. ROOM	300 GROSS
ASSEMBLY W/ FIXED SEATS	SECT. 1004.6
ASSEMBLY W/ OUT FIXED SEATS	
CONCENTRATED	1 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

FIRE CATEGORY: 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

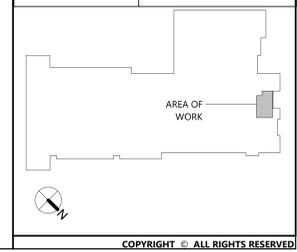
SITE CLASS: X

SEISMIC DESIGN CATEGORY: X

FIRE AREA MODIFICATIONS (INYS SECTION 506)

- A<sub>a</sub>: ALLOWABLE AREA PER FLOOR (SQUARE FEET)
- A<sub>t</sub>: TABULAR ALLOWABLE AREA FACTOR (NS, S1, S3R OR S1SD VALUE) IN ACCORDANCE WITH TABLE 506.2 (SQUARE FEET)
- I<sub>f</sub>: 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<sub>a</sub>: 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 506.2
- L<sub>n</sub>: LENGTH OF A PORTION OF THE EXTERIOR PERIMETER WALL
- W<sub>n</sub>: 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)

$I_n = [F/P - 0.25]W/30$       $A_n = A_s (NS \times I_n)$   
 $I_n = [100/XX - 0.25]XX/30$       $A_n = XXX + (XXX \times 0.XX)$   
 $I_n = [0.25]W/30$       $A_n = [0.25]W/30$   
 $I_n = XX\%$



DATE	DESCRIPTION

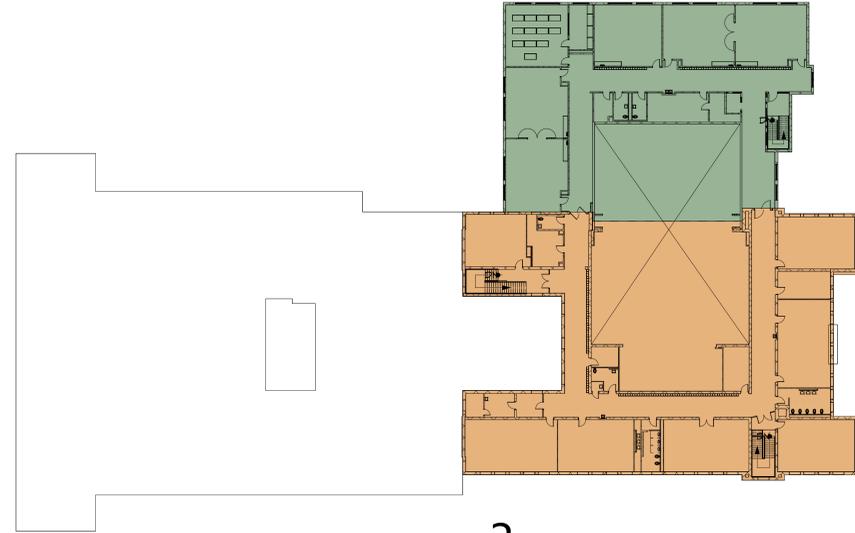
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**4** FIRE ZONE PLAN  
LS112 1/32" = 1'-0"



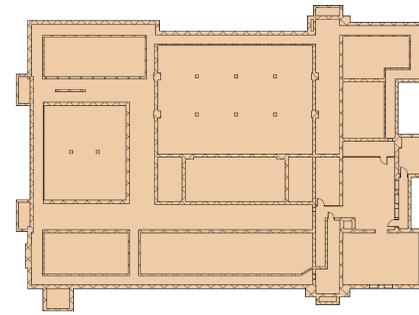
**5** VINTAGE PLAN  
LS112 1/32" = 1'-0"



**3** SMOKE ZONE SECOND FLOOR  
LS112 1" = 30'-0"



**1** SMOKE ZONE FIRST FLOOR  
LS112 1" = 30'-0"



**2** SMOKE ZONE BASEMENT  
LS112 1" = 30'-0"

- SMOKE ZONE LEGEND**
- SMOKE ZONE 0E (19038 SF)
  - SMOKE ZONE 1A (116102 SF)
  - SMOKE ZONE 1B (15245 SF)
  - SMOKE ZONE 1C (2187 SF)
  - SMOKE ZONE 1D (11391 SF)
  - SMOKE ZONE 1E (8271 SF)
  - SMOKE ZONE 1F (1268 SF)
  - SMOKE ZONE 2D (11391 SF)
  - SMOKE ZONE 2E (16350 SF)

Consultant

**VALLEY CENTRAL SCHOOL DISTRICT  
MONTGOMERY ELEMENTARY SCHOOL  
2023 CAPITAL PROJECT - PHASE 1**

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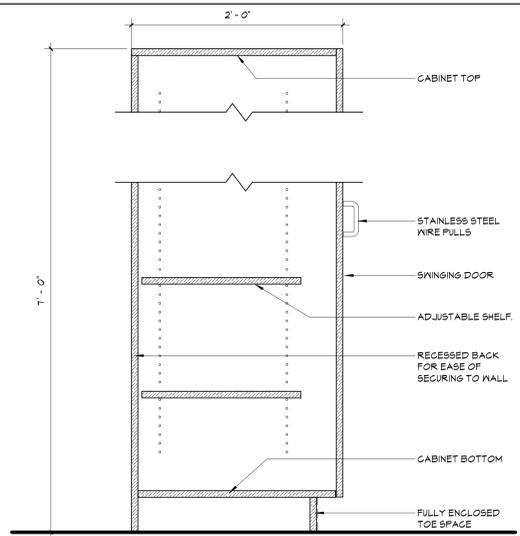
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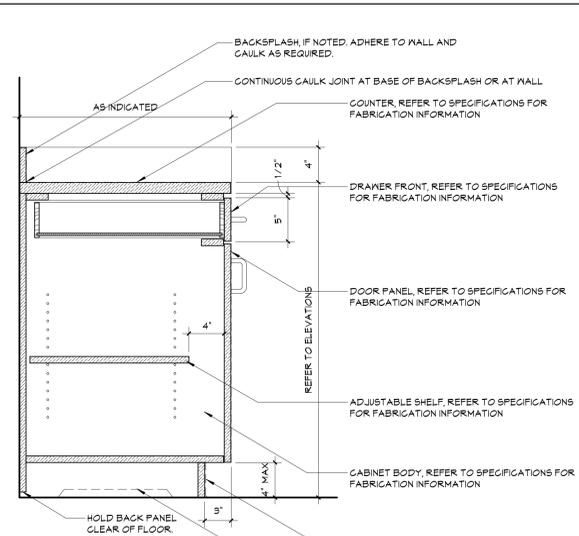
Sheet Title  
**SMOKE ZONE  
PLANS**

Sheet No.  
**MES  
LS112**  
CONSTRUCTION DOCUMENTS

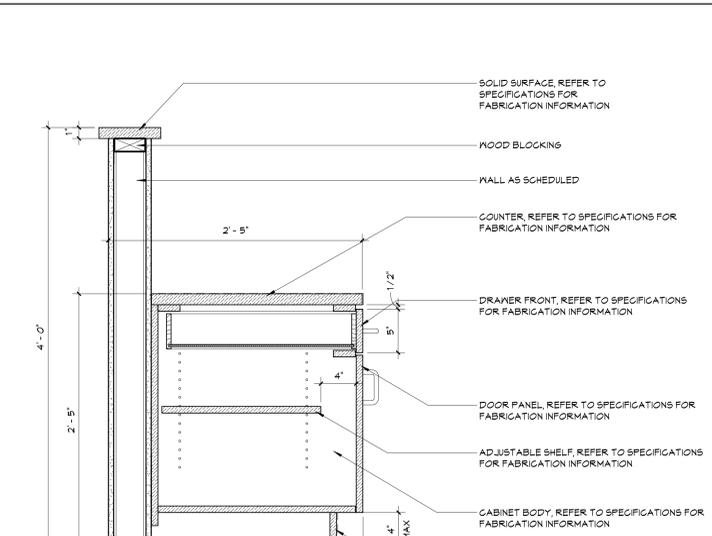




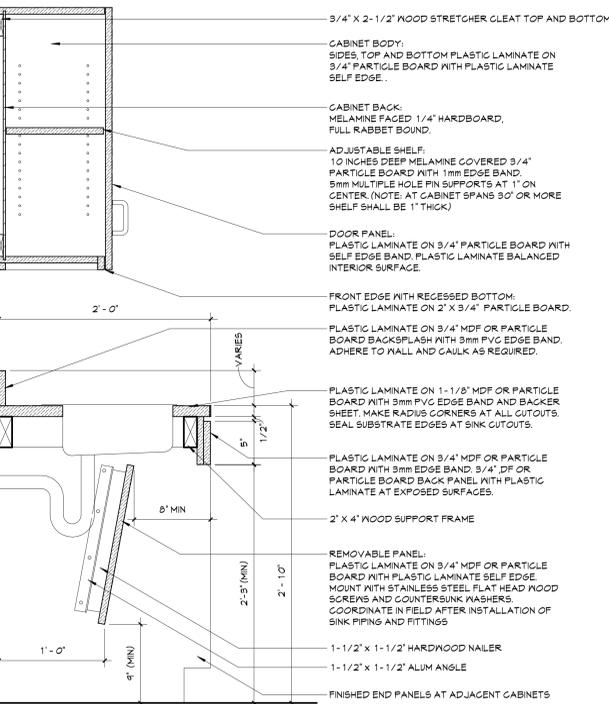
**11 TALL WARDROBE CABINET DETAIL**  
A111 1 1/2" = 1'-0"



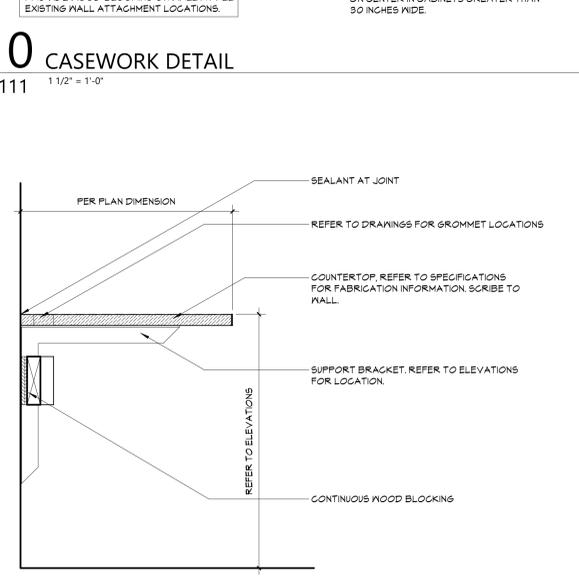
**10 CASEWORK DETAIL**  
A111 1 1/2" = 1'-0"



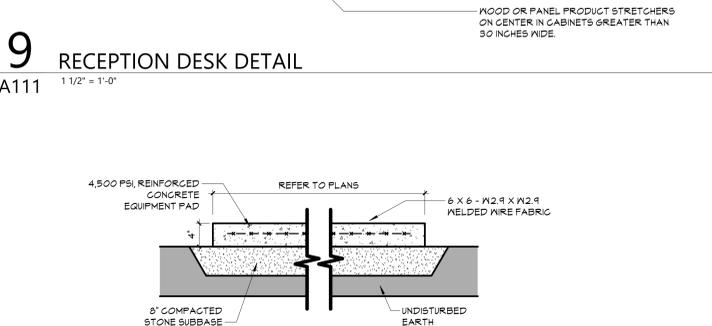
**9 RECEPTION DESK DETAIL**  
A111 1 1/2" = 1'-0"



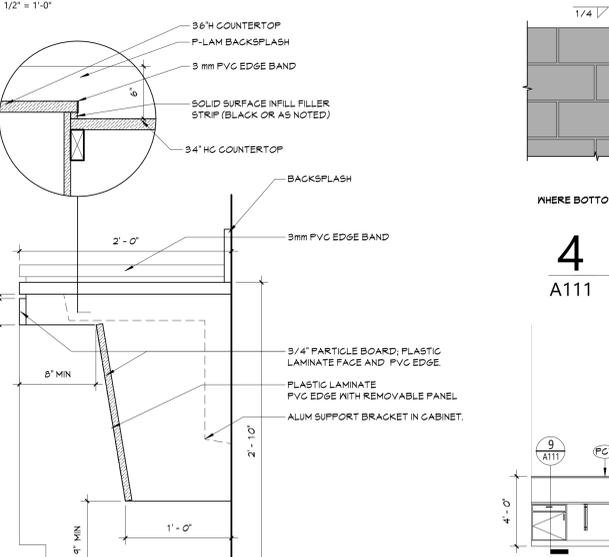
**7 CASEWORK DETAIL**  
A111 1 1/2" = 1'-0"



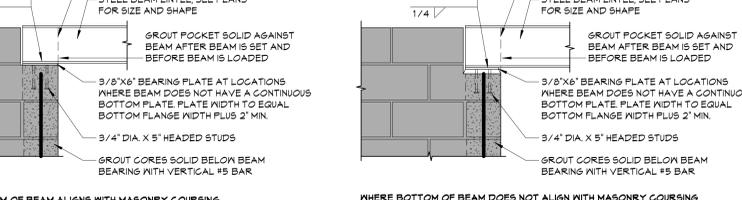
**6 COUNTER DETAIL**  
A111 1 1/2" = 1'-0"



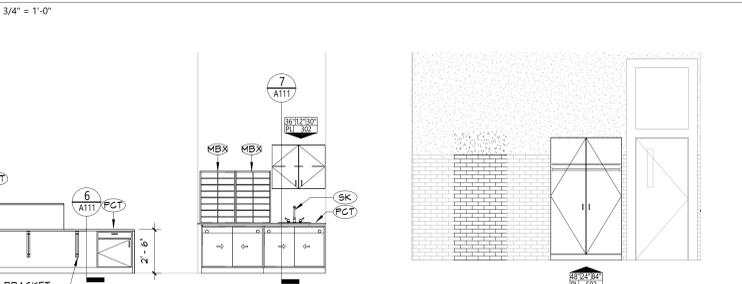
**8 DETAIL - CONCRETE EQUIPMENT PAD**  
A111 1" = 1'-0"



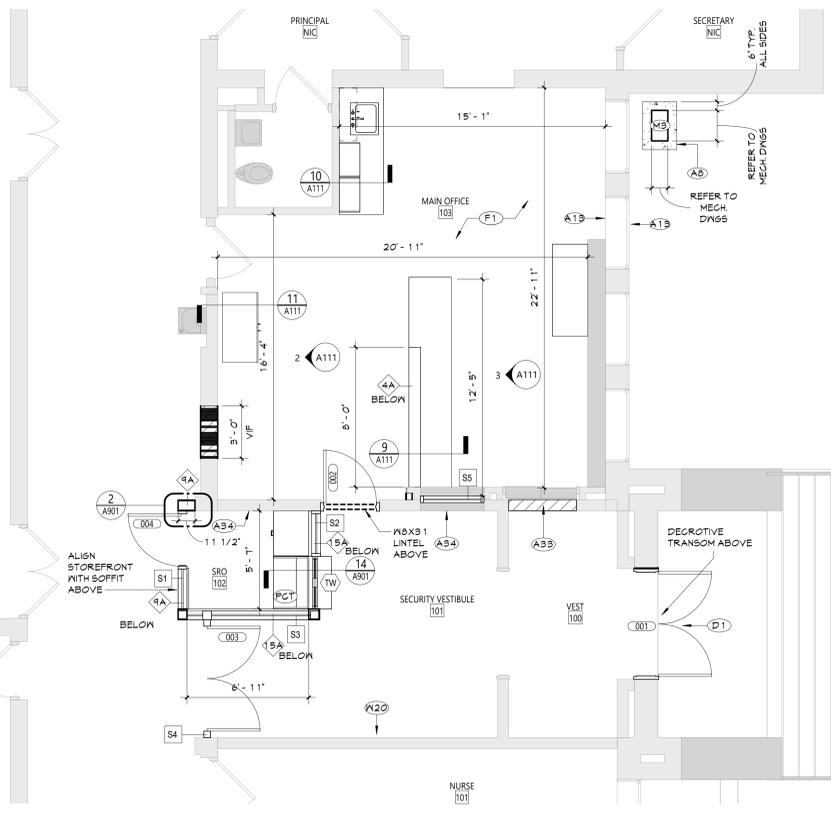
**5 CASEWORK DETAIL**  
A111 1 1/2" = 1'-0"



**4 TYPICAL STEEL BEAM LINTEL (EXISTING WALL ASSEMBLIES)**  
A111 3/4" = 1'-0"



**3 MAIN OFFICE 100 - WEST**  
A111 1/4" = 1'-0"



**1 PARTIAL FLOOR PLAN - FIRST FLOOR - AREA C**  
A111 1/4" = 1'-0"

**GENERAL NOTES**

- REFER TO SHEET 6001 FOR ADDITIONAL GENERAL NOTES.
- REFER TO A100 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAIN WALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
- REFER TO SHEET 6001 FOR PARTITION TYPES AND ADDITIONAL NOTES.

**NEW WORK KEYNOTES**

#	Description
A8	PROVIDE NEW CONCRETE EQUIPMENT PAD FOR MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL DRAWINGS.
A13	PATCH WALL TO MATCH WHERE MECHANICAL UNIT WAS PREVIOUSLY REMOVED.
A39	PATCH WALL TO MATCH WHERE PUBLIC ADDRESS CONTROL PANEL WAS PREVIOUSLY REMOVED.
A34	PAINT PARTITION IN ITS ENTIRETY.
D1	PROVIDE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
F1	PROVIDE NEW FLOOR FINISH. REFER TO AF DRAWINGS.
M3	MECHANICAL EQUIPMENT. REFER TO MEP DRAWINGS.
MBX	MAILBOXES.
PCT	PLAIN COUNTER TOP CONTINUOUS.
SK	SINK. REFER TO PLUMBING DRAWINGS.
R20	REINSTALL SALVAGED PLAQUES IN NEW LOCATION. VERIFY LOCATION WITH OWNER.

**KEY PLAN**

**ENLARGED NEW WORK PLAN - FIRST FLOOR - AREA C**

**MES A111**

**CONSTRUCTION DOCUMENTS**

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**CS ARCH**

**VALLEY CENTRAL SCHOOL DISTRICT  
MONTGOMERY ELEMENTARY SCHOOL  
2023 CAPITAL PROJECT - PHASE 1**

Project Title

EXPIRATION DATE: 02/28/2025

DATE	DESCRIPTION

Drawn By: ALB  
Checked By: EAB  
Proj. #: 44-13-01-06-0-004-015  
CSArch Proj. #: 187-2302.01  
Issued for Bid: 10/18/24

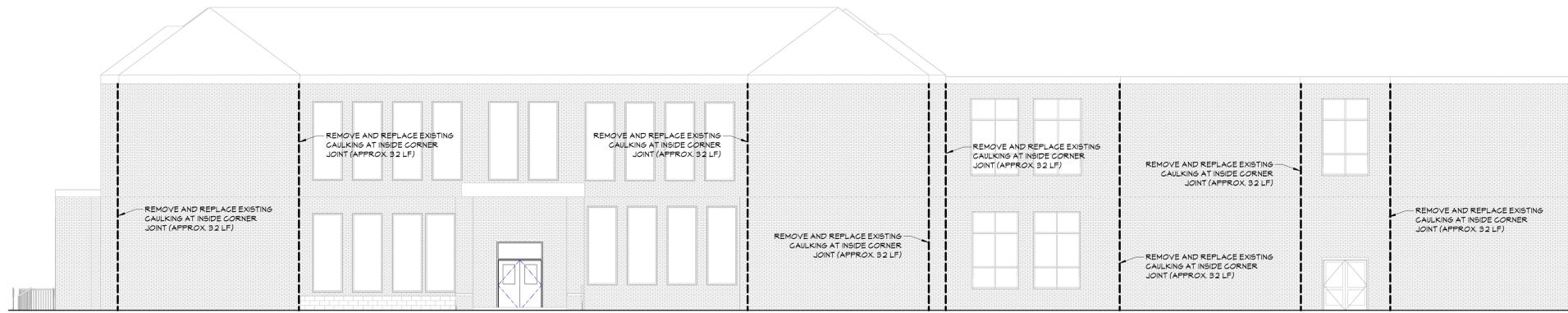
Sheet Title  
**ENLARGED NEW WORK PLAN - FIRST FLOOR - AREA C**

Sheet No.  
**MES A111**

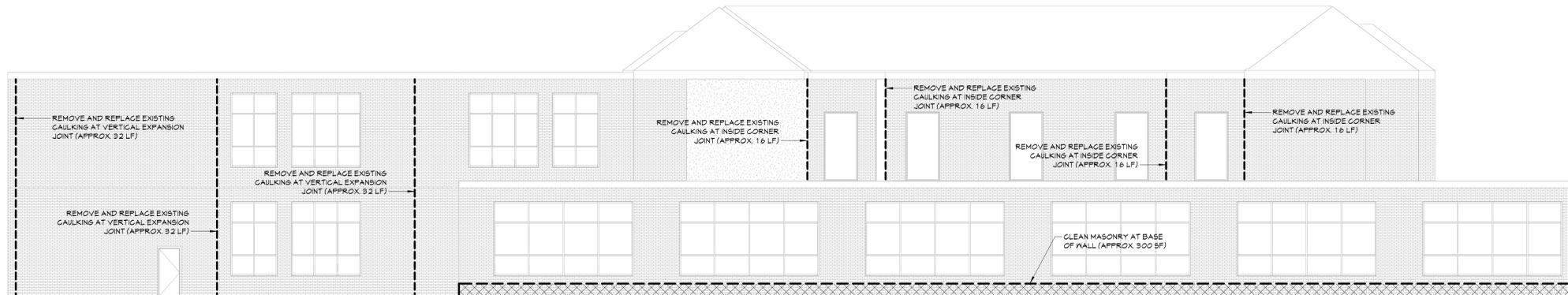
**CONSTRUCTION DOCUMENTS**

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**2** WEST - EXT ELEVATION  
A201 1/8" = 1'-0"



**1** EAST - EXT ELEVATION  
A201 1/8" = 1'-0"

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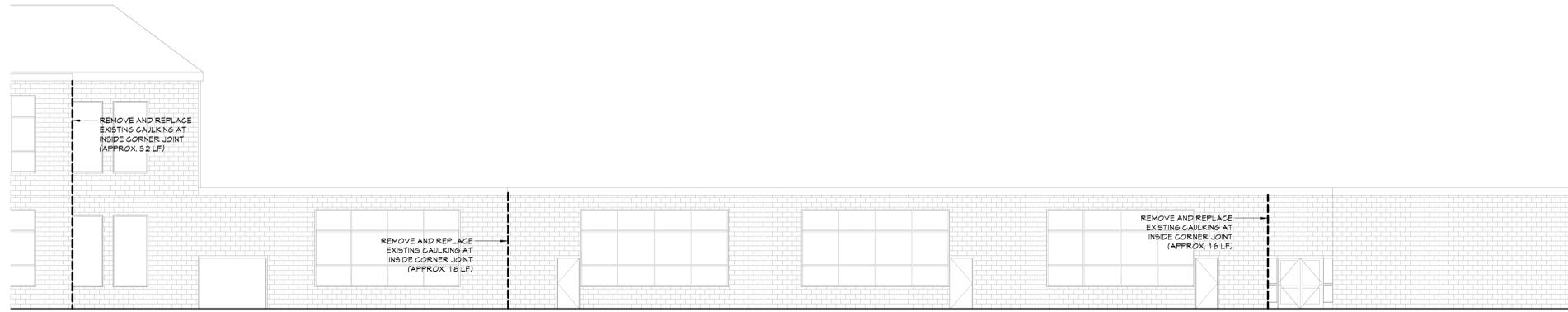
EXPIRATION DATE: 02/28/2025

DATE	DESCRIPTION

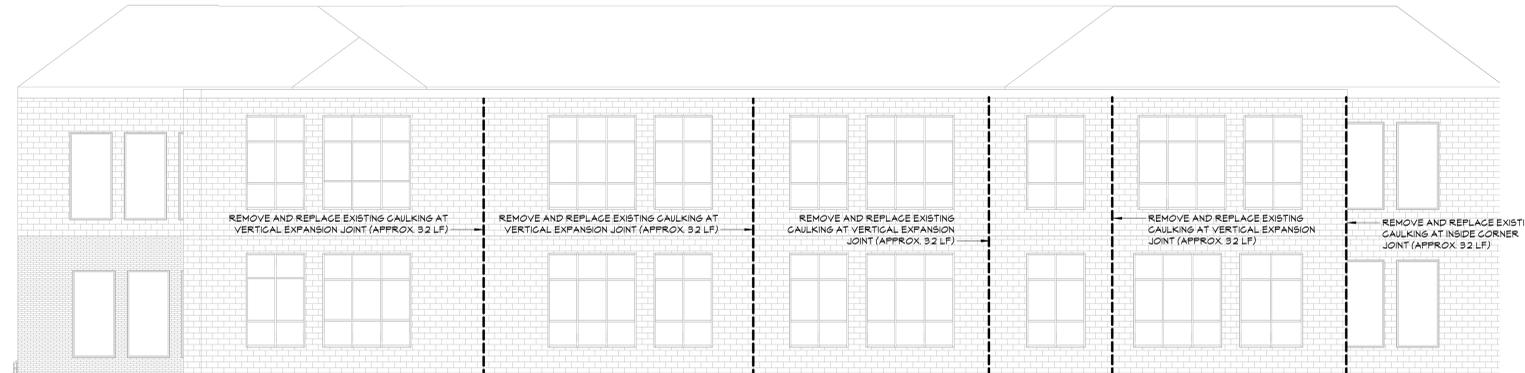
Drawn By: *Autlic*  
Checked By: *44-13-01-06-0-004-015*  
CSArch Proj. #: 187-2302.01  
Issued for Bid: 10/18/24

Sheet Title  
**EXTERIOR  
ELEVATIONS**

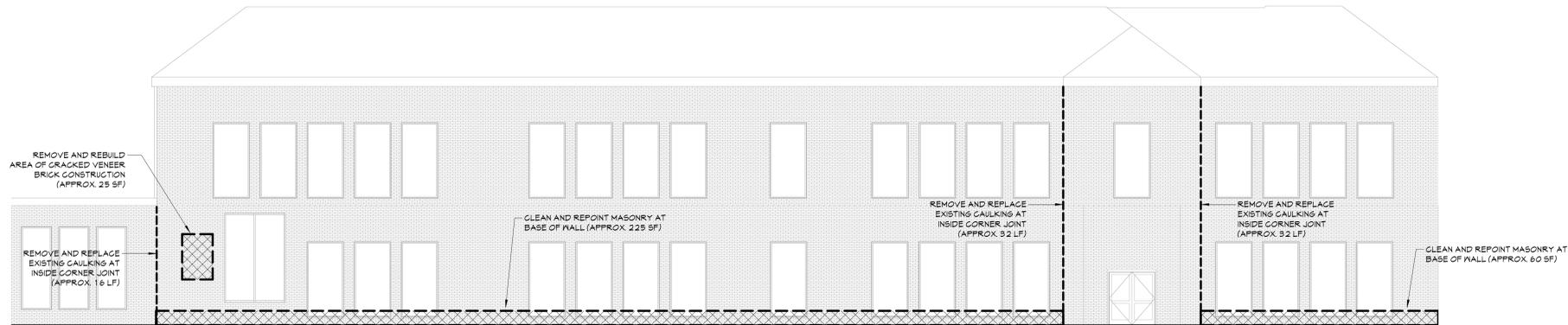
Sheet No.  
**MES  
A201**  
CONSTRUCTION DOCUMENTS



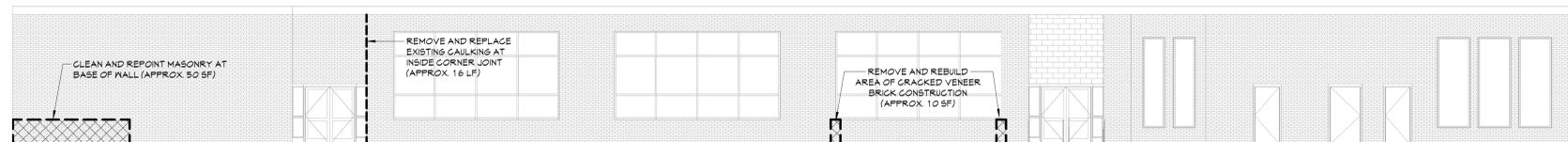
**4** SOUTH - EXT ELEVATION 2  
A202 1/8" = 1'-0"



**3** SOUTH - EXT ELEVATION 1  
A202 1/8" = 1'-0"



**2** NORTH - EXT ELEVATION 2  
A202 1/8" = 1'-0"



**1** NORTH - EXT ELEVATION 1  
A202 1/8" = 1'-0"

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2023 CAPITAL PROJECT - PHASE 1

Project Title



EXPIRATION DATE: 02/28/2025

DATE	DESCRIPTION

Drawn By: *James M. Miller* Author  
Checked By: 44-13-01-06-0-004-015  
CSArch Proj. #: 187-2302.01  
Issued for Bid: 10/18/24

Sheet Title

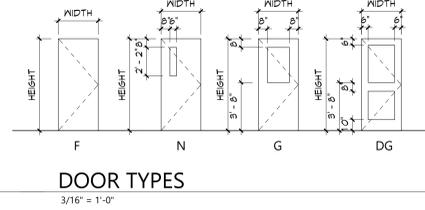
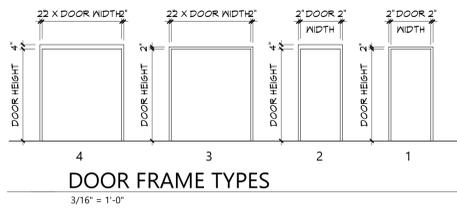
EXTERIOR  
ELEVATIONS

Sheet No.  
**MES  
A202**

CONSTRUCTION DOCUMENTS

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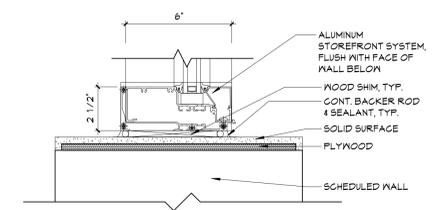
DOOR SCHEDULE																
DOOR NUMBER	QUANTITY	DOOR		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	FRAME			DOOR NUMBER			
		FROM	TO							MATERIAL	FINISH	LABEL (MIN)				
001	PR	100	VEST		3'-0"	7'-0"	1 3/4"	G	FRP	FF	HM	PT	CCL	HW1	001	
002	1	101	SECURITY VESTIBULE	103	3'-0"	7'-0"	1 3/4"	N	WD	FF	HM	PT	20	FR	HW4	002
003	1	101	SECURITY VESTIBULE	X44	3'-0"	7'-0"	1 3/4"	N	ALUM	ANOD	ALUM	ANOD	20	FR	HW1	003
004	1	102	SRO	X44	3'-0"	7'-0"	1 3/4"	N	ALUM	ANOD	ALUM	ANOD	20	FR	HW5	004

**DOOR LITE, GLAZING & PANEL TYPES**

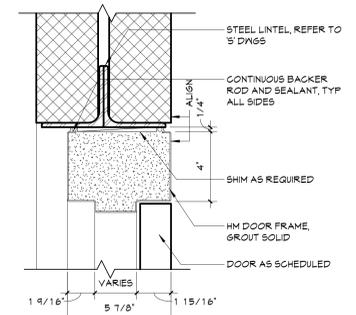
- ① INSULATED GLAZING UNIT
- ② FIRE-PROTECTION-RATED GLAZING. MATCH RATINGS OF OPENING EXISTING. CORRIDOR WALLS ARE PRESUMED 1-HOUR RATED, U.N.O.
- ③ INSULATED SECURITY GLAZING UNIT
- ④ SECURITY GLAZING
- ⑤ FIRE-PROTECTION-RATED SECURITY GLAZING. RATINGS BASED ON MALL OR DOOR RATING
- ⑥ INSULATED LAMINATED/TEMPERED GLASS (EXTERIOR)
- ⑦ FIRE-PROTECTION-RATED PANEL. RATINGS BASED ON DOOR RATING
- ⑧ SECURITY FILM ON EXISTING GLAZING

**LEGEND**

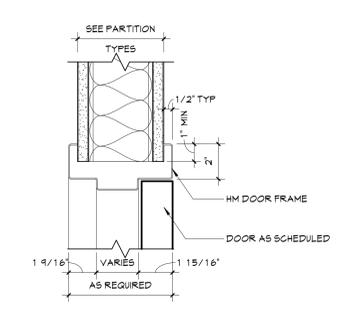
- SW STOREFRONT LABEL
- X WINDOW TAG



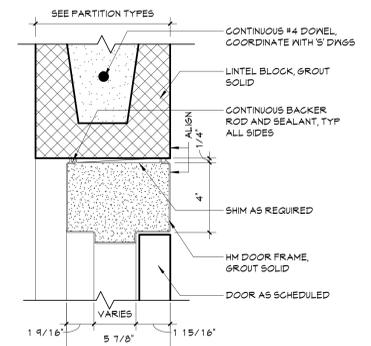
**22 SILL DETAIL 2**  
A901 3' = 1'-0"



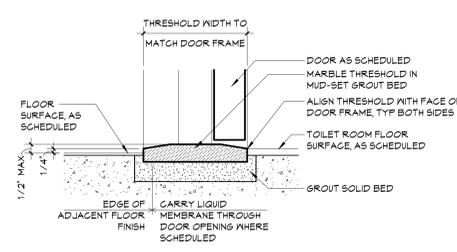
**5 HEAD DETAIL**  
A901 3' = 1'-0"



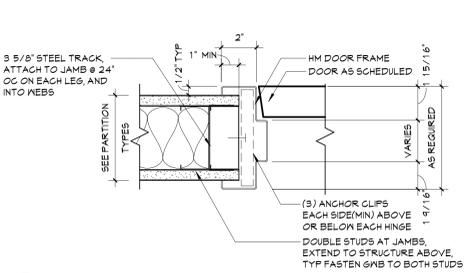
**4 HEAD DETAIL**  
A901 3' = 1'-0"



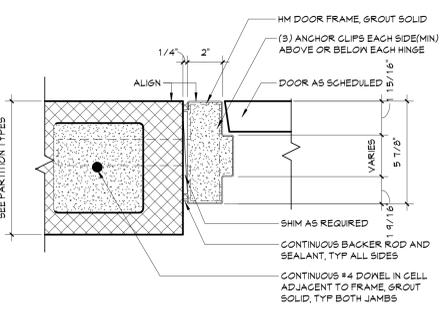
**3 HEAD DETAIL**  
A901 3' = 1'-0"



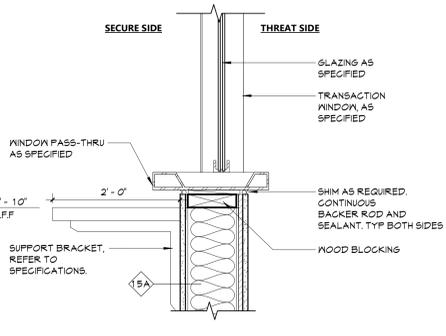
**6 THRESHOLD DETAIL**  
A901 3' = 1'-0"



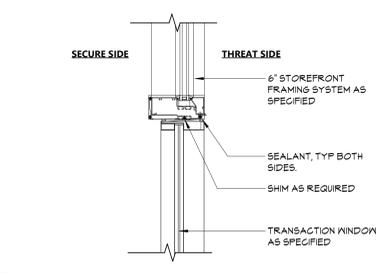
**2 JAMB DETAIL**  
A901 3' = 1'-0"



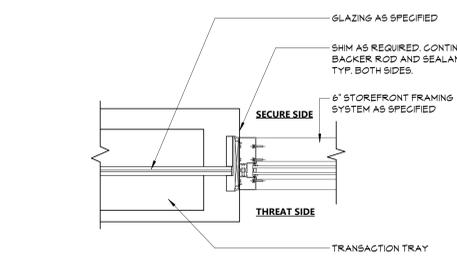
**1 HEAD DETAIL**  
A901 3' = 1'-0"



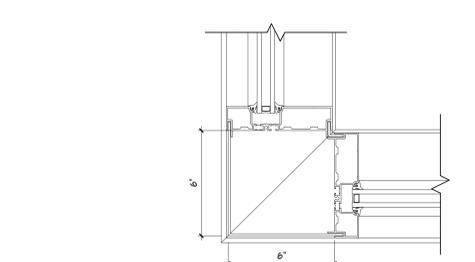
**14 SILL DETAIL - SECURITY WINDOW**  
A901 1 1/2\"/>



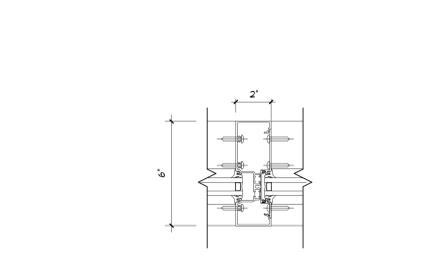
**12 HEAD DETAIL - SECURITY WINDOW**  
A901 1 1/2\"/>



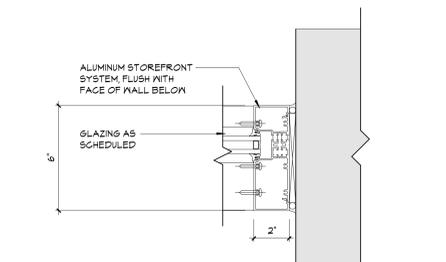
**13 JAMB DETAIL - SECURITY WINDOW**  
A901 1 1/2\"/>



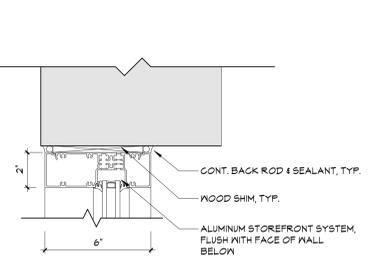
**20 CORNRO MULLION DETAIL**  
A901 3' = 1'-0"



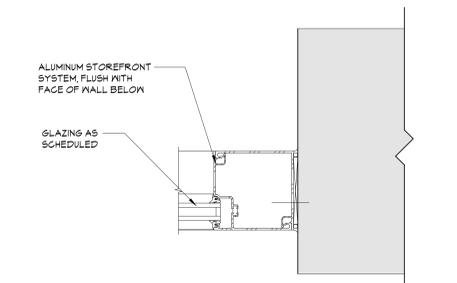
**19 VERTICAL MULLION DETAIL**  
A901 3' = 1'-0"



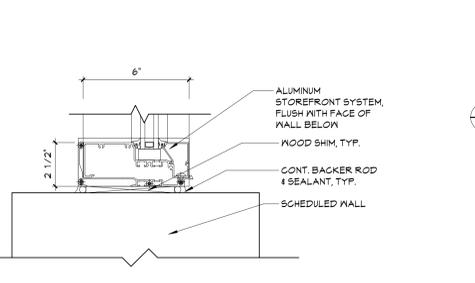
**18 JAMB DETAIL**  
A901 3' = 1'-0"



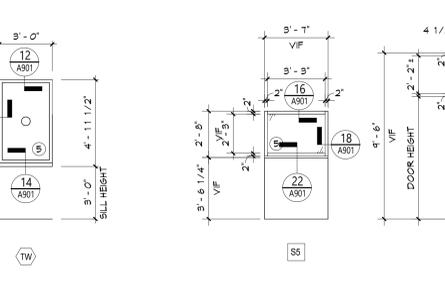
**16 HEAD DETAIL**  
A901 3' = 1'-0"



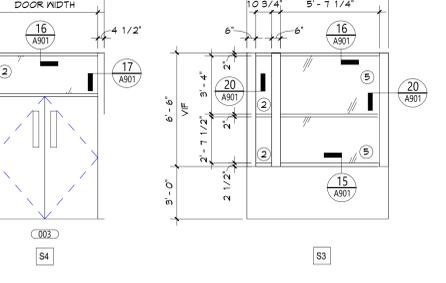
**17 JAMB DETAIL**  
A901 3' = 1'-0"



**15 SILL DETAIL**  
A901 3' = 1'-0"

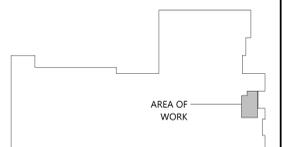


**11 TRANSITION WINDOW**  
A901 1/4\"/>



**7 STOREFRONT ELEVATION**  
A901 1/4\"/>

**KEY PLAN**



**DOOR, WINDOW, & STOREFRONT DETAILS**  
MES A901

VALLEY CENTRAL SCHOOL DISTRICT  
 MONTGOMERY ELEMENTARY SCHOOL  
 2023 CAPITAL PROJECT - PHASE 1

CS ARCH  
 19 Front St., Newburgh - New York 12550-7601  
 845-581-3179 www.csarchpc.com

Project Title  
 EXPIRATION DATE: 02/28/2025

DATE	DESCRIPTION

Drawn By: *Autism*  
 Checked By: *44-13-01-06-0-04-015*  
 Proj. #: *187-2302-01*  
 CSArch Proj. #: *187-2302-01*  
 Issued for Bid: *10/18/24*

Sheet Title  
**DOOR, WINDOW, & STOREFRONT DETAILS**  
 Sheet No.  
**MES A901**  
 CONSTRUCTION DOCUMENTS

ROOM FINISH SCHEDULE							
ROOM NUMBER	ROOM NAME	FLOOR		Wall Finish	Accent Wall	CEILING	Comments
		FINISH	BASE				
103	MAIN OFFICE	VCT-1	RB-1	PNT-1			
X38	Room	VCT-1	RB-1	PNT-1			

MATERIALS LEGEND						
MATERIAL	MANUFACTURER	MODEL	COLOR #/NAME	Material URL	SIZE	NOTE
<b>PAINT</b>						
PNT-1	SHERWIN WILLIAMS	EGG-SHELL				GENERAL WALL PAINT
PNT-2	SHERWIN WILLIAMS	SEM-GLOSS				HW DOOR PAINT
<b>PLASTIC LAMINATE</b>						
PLAM-1	WILSONART					CASEWORK
<b>RUBBER BASE</b>						
RB-1	TARKETT		MATCH EXISTING		6"	TYP. BASE
<b>VINYL COMPOSITION TILE</b>						
VCT-1	ARMSTRONG	STANDARD EXCELON	MATCH EXISTING		12' X 12"	TYP. FIELD

**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  
 AFG ACOUSTICAL PANEL CEILING  
 BBT BIO-BASED TILE  
 BRK BRICK  
 CFT CERAMIC FLOOR TILE  
 CMU CONCRETE MASONRY UNIT  
 CONC CONCRETE  
 CRT CARPET  
 CTB CERAMIC TILE BASE  
 CRT CERAMIC TILE  
 ETR EXISTING TO REMAIN  
 EXP EXPOSED  
 EXST EXISTING  
 FAC/FF FACTORY FINISH  
 GNB GYPSUM WALL BOARD  
 LMG LINEAR METAL CEILING  
 MBS MBSG STORAGE SYSTEM  
 MWP METAL WALL PANEL  
 PCON POLISHED CONCRETE  
 PLAM PLASTIC LAMINATE  
 PLAS PLASTER  
 FNT PAINT  
 RAF RESILIENT ATHLETIC FLOORING  
 RB RUBBER BASE  
 RF RESINOUS FLOORING  
 RST RUBBER STAIR TREAD / LANDING  
 RT RUBBER TILE FLOORING  
 SCONG 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  
 VVC VINYL WALLCOVERING  
 WAF WOOD ATHLETIC FLOORING  
 WD WOOD  
 WOM WALK-OFF MAT

**GENERAL FINISH NOTES**

- ALL EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE PAINTED.
- WHEN ANY WORK IS PERFORMED ON ANY EXISTING WALL, THE ENTIRE WALL SURFACE IS TO BE PAINTED CORNER TO CORNER, UNLESS NOTED OTHERWISE.
- ALL EXPOSED GROUND FACE CMU LOCATIONS TO RECEIVE GRAFFITI COATING, TYPICAL FOR INTERIOR LOCATIONS.

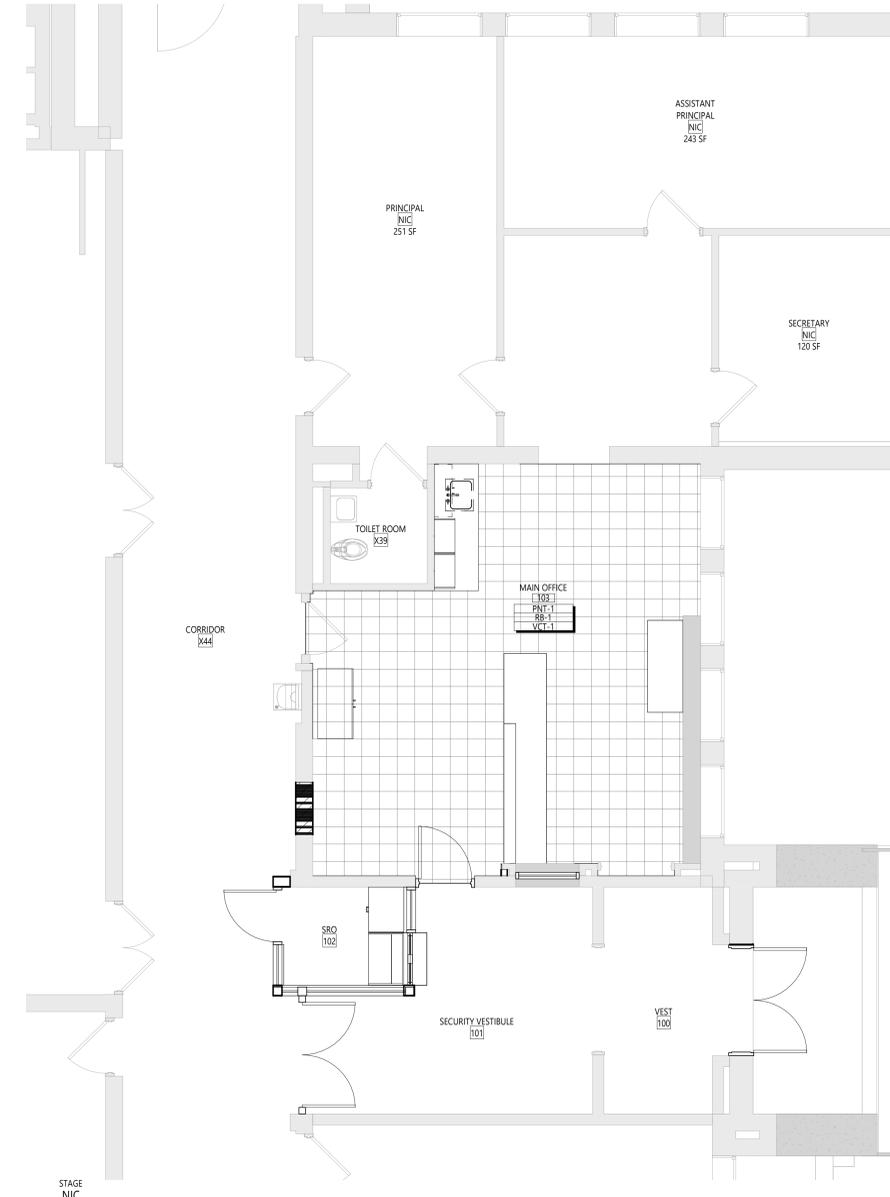
**FINISH KEYS**

Room Name (103)  
 Wall Finish  
 Base Finish  
 Floor Finish

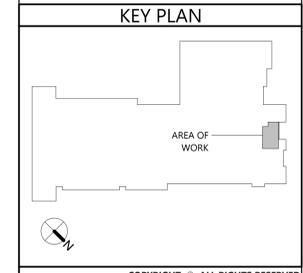
• Finish Tag

PNT-# ACCENT PAINT LOCATION

VCT-1



**1 PARTIAL FINISH PLAN- FIRST FLOOR- AREA C**  
 AF111 1/4" = 1'-0"



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 2023 CAPITAL PROJECT - PHASE 1**

Project Title

EXPIRATION DATE: 02/28/2025

DATE	DESCRIPTION

Drawn By: JAS  
 Checked By: 44-13-01-06-0-004-015  
 Proj. #: 187-2302.01  
 CSArch Proj. #: 10/18/24  
 Issued for Bid:

Sheet Title  
**MATERIAL SCHEDULE & FLOOR FINISHES PLAN - AREA C**

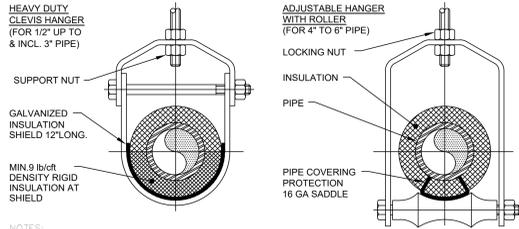
Sheet No.  
**MES AF111**

CONSTRUCTION DOCUMENTS

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Plumbing Fixture Schedule

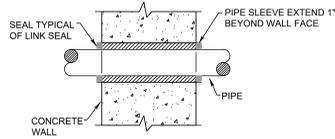
FIXTURE MARK	DESCRIPTION	PIPING CONNECTION				WATER SUPPLY FIXTURE UNITS	DRAINAGE FIXTURE UNITS	ADA (Y/N)	ELECTRONIC CONTROL (Y/N)	MANUFACTURER/MODEL (OR ACCEPTABLE EQUAL)	REMARKS
		H.W.	C.W.	WASTE	VENT						
1	SINGLE BOWL SINK	1/2	1/2	2	1-1/2	1.4	2	N	N	SINGLE BOWL SINK TYPICAL OF ELKAY MODEL #LRAD252265PD; STAINLESS STEEL, 6-1/2" DEPTH; FURNISH W/ DRAIN & STRAINER MODEL #LKP1 AND FAUCET MODEL #LK4249	INSTALL PER MANUFACTURER'S REQUIREMENTS



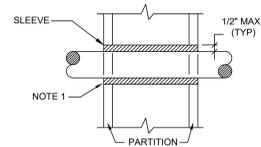
- NOTES:
- PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
  - FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

PIPE Ø (IN.)	MAX. SPACING BETWEEN HANGERS (FT.)			MIN. ROD SIZE (IN.)
	STEEL PIPE	COPPER PIPE	CPVC	
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

1  
P001 Pipe Hanger Support  
N.T.S.



2  
P001 Exterior Wall Pipe Penetrations  
N.T.S.



- NOTES:
- AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.
  - DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

3  
P001 Pipe Penetrations Detail  
N.T.S.

Plumbing Legend:

	DOMESTIC COLD WATER SUPPLY
	110 °F DOMESTIC HOT WATER SUPPLY
	140 °F DOMESTIC HOT WATER SUPPLY
	HOT WATER RETURN
	SANITARY SEWER, ABOVE GRADE
	SANITARY SEWER, BELOW GRADE
	GREASE WASTE, BELOW GRADE
	PLUMBING VENT
	STORM WATER, ABOVE GRADE
	STORM WATER, BELOW GRADE
	NATURAL GAS PIPING
	DIRECTION OF PIPE SLOPE (DOWN)
	CONCENTRIC REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	STRAINER
	HOSE BIB
	SOLENOID VALVE
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	FULL PORT BALL VALVE
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE (PRV)
	DRAIN VALVE
	FLEXIBLE PIPING CONNECTION
	CLEANOUT
	WALL CLEANOUT
	FLOOR CLEANOUT
	CLEANOUT TO GRADE
	DOUBLE CLEANOUT TO GRADE
	PLUMBING FIXTURE MARK

Plumbing Notes:

- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 PLUMBING CODE OF NEW YORK STATE, 2020 FUEL GAS CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- WHERE THE PROJECT INVOLVES A GAS SERVICE, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL GAS UTILITY COMPANY. ALL WORK INVOLVING THE GAS UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- ALL DOMESTIC COLD AND HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED WITH 1" THICK RIGID ONE-PIECE MOLDED SECTIONAL FIBERGLASS PIPE COVERING WITH UNIVERSAL JACKET. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF 6" BEYOND JOINT ENDS.
- ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- ALL EXPOSED PIPING, FITTINGS, TRAPS, ESCUTCHEONS, VALVES, ETC. SHALL BE CHROME PLATED.
- SLOPE SANITARY DRAINAGE PIPING 2" DIAMETER AND SMALLER NOT LESS THAN 1/4" PER FOOT. SLOPE SANITARY DRAINAGE PIPING OVER 2" DIAMETER NOT LESS THAN 1/8" PER FOOT.
- INSTALL A CLEANOUT AT THE BASE OF EACH SOIL STACK, AT EACH CHANGE IN DIRECTION, AT INTERVALS NOT OVER 50 FEET AND ELSEWHERE AS SHOWN ON DRAWINGS OR REQUIRED BY CODE.
- PROVIDE EXPOSED PIPING WITH CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREW WHERE PENETRATING FLOORS, CEILINGS, WALLS OR PARTITIONS.
- TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- WATER & GAS PIPING TO BE AIR-PRESSURE TESTED TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE.
- DRAINAGE, WASTE & VENT PIPING TO BE TESTED BY FILLING THE SYSTEM WITH WATER TO 10-FEET ABOVE HIGHEST POINT.
- SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

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MONTGOMERY ELEMENTARY SCHOOL  
2023 CAPITAL PROJECT - PHASE 1

Project Title

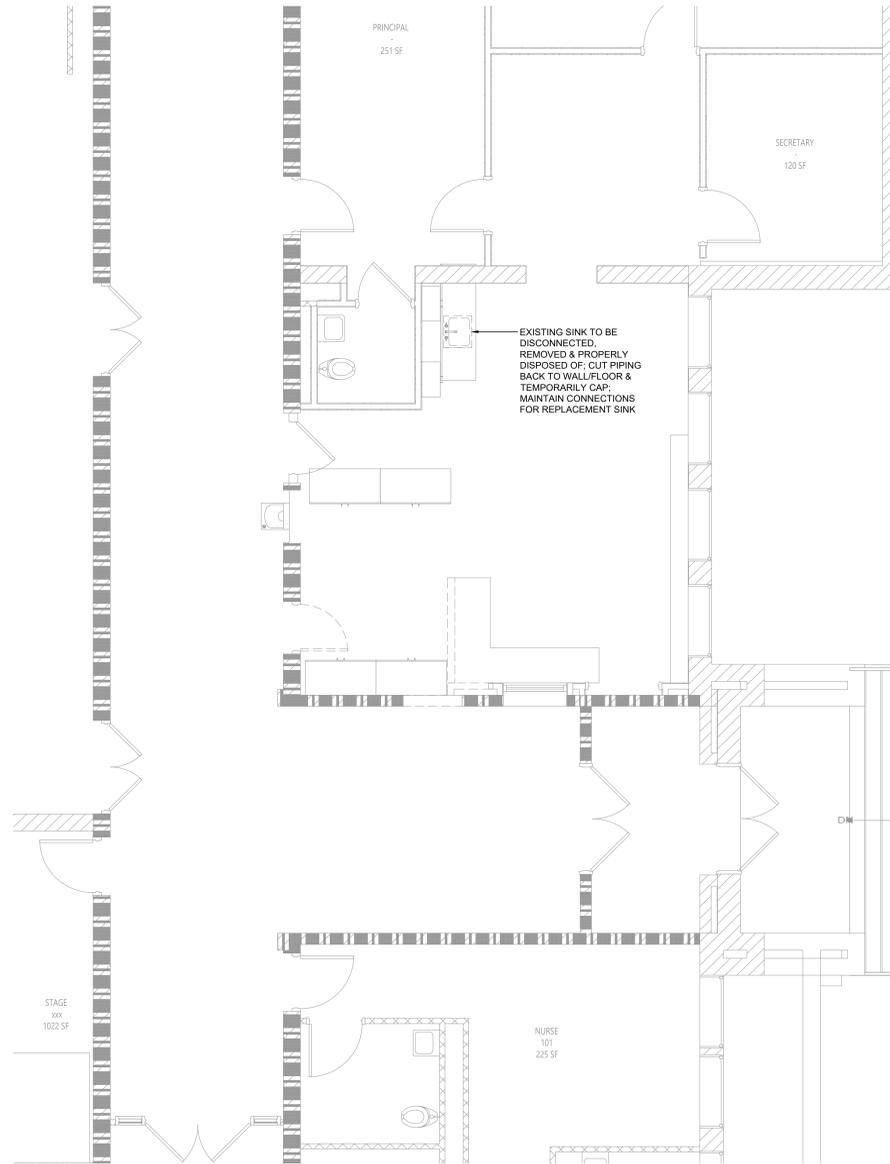


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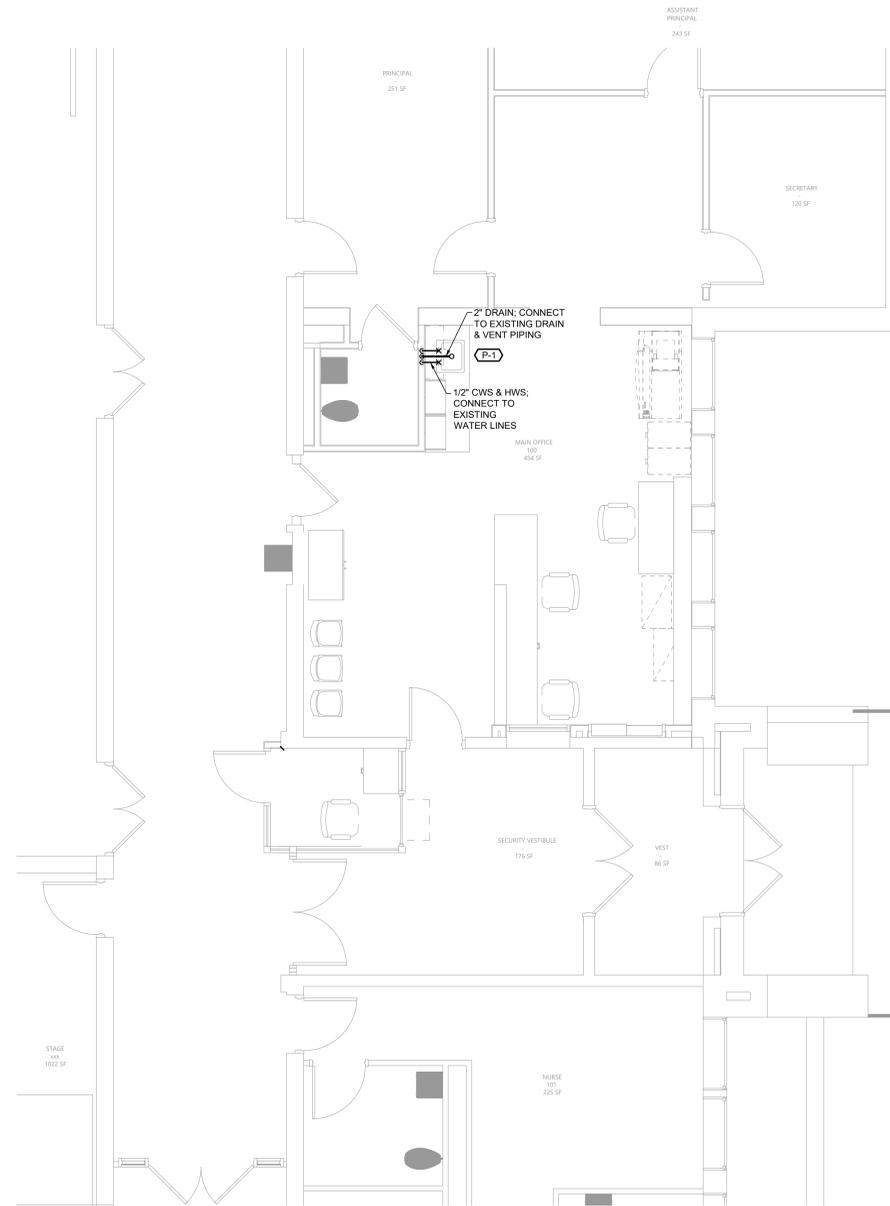
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Sheet Title  
PLUMBING  
NOTES,  
SCHEDULE,  
LEGEND &  
DETAILS

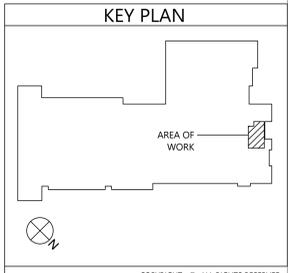
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MES  
P001



1 Plumbing Demolition Plan  
 PD111 Scale: 1/4" = 1'-0"



1 Plumbing Plan  
 P111 Scale: 1/4" = 1'-0"



VALLEY CENTRAL SCHOOL DISTRICT  
 MONTGOMERY ELEMENTARY SCHOOL  
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PLUMBING PLANS

Sheet No.  
**MES  
 P111**

CONSTRUCTION DOCUMENTS

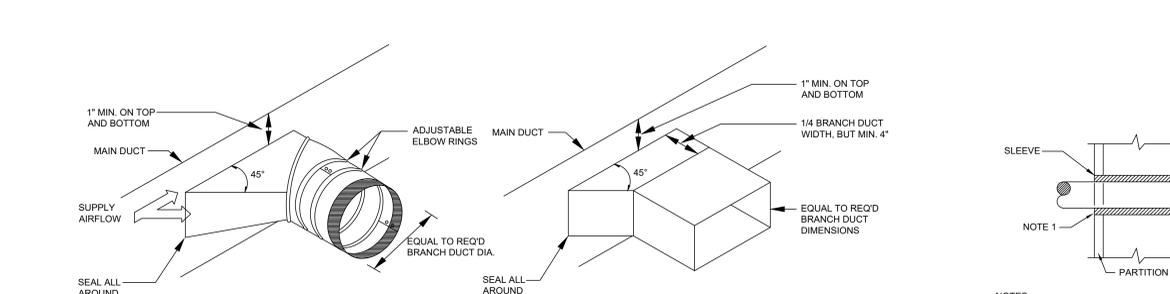
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THICKNESS & REINFORCING SCHEDULE - * LOW PRESSURE DUCTWORK						
* NOTE: LOW PRESSURE DUCTWORK SHALL BE DUCTWORK IN WHICH THE PRESSURE DOES NOT EXCEED 2" WATER GAUGE.						
GREATEST DUCT DIMENSION	STEEL DUCTS U.S. STANDARD GAUGE	ALUMINUM DUCTS B & S GAUGE	LONGITUDINAL SEAM	TRANSVERSE JOINT SMALLEST DIMENSION	TRANSVERSE JOINT GREATEST DIMENSION	REINFORCING (ALL DUCTS 18" THRU 54" SHALL BE CROSSBROKEN)
12" OR LESS	26	24(0.020")	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
13" THRU 16"	24	22(0.025")	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
19" THRU 30"	24	22(0.025")	PITTSBURGH OR ACME LOCK	HEMMED "S" SLIP OR BAR SLIP OR DRIVE SLIP OR 1" POCKET LOCK	HEMMED "S" SLIP OR BAR SLIP OR 1" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
31" THRU 42"	22	20(0.032")	PITTSBURGH OR ACME LOCK	DRIVE SLIP 1/8" OR LESS BAR SLIP REINFORCED BAR SLIP OR POCKET LOCK	BAR SLIP OR REINFORCED BAR SLIP OR POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
43" THRU 54"	22	20(0.032")	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
55" THRU 60"	20	18(0.040")	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"X1"X1/8" ANGLES AT 4 FT. O.C. FASTENED ON 8" CENTERS
61" THRU 84"	20	18(0.040")	PITTSBURGH LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCE ALL SIDES OVER 60" WITH 1 1/2"X1 1/2"X3/16" ANGLES ON 2'-0" CENTERS. SIDES 61" THRU 84" REINFORCE WITH 1 1/2"X1 1/2"X1/8" ANGLES ON 2'-0" CENTERS. IF JOINTS ARE ON 4'-0" CENTERS, REINFORCE WITH 1 1/2"X1 1/2"X1/8" ANGLES ON 4'-0" CENTERS.
85" THRU 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	1 1/2" COMPANION ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	1 1/2" COMPANION ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 84" WITH 1 1/2"X1 1/2"X3/16" ANGLES ON 2'-0" CENTERS. SIDES 85" THRU 96" WITH 1 1/2"X1 1/2"X3/16" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES 61" THRU 84" WITH 1 1/2"X1 1/2"X1/8" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES UNDER 60" WITH 1 1/2"X1 1/2"X1/8" ANGLES IF JOINTS ARE 8'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0" ON CENTER.
OVER 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	2" COMPANION ANGLE, OR 2"X2"X1/4" ANGLE SLIP, OR 2"X2"X1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	2" COMPANION ANGLE, OR 2"X2"X1/4" ANGLE SLIP, OR 2"X2"X1/4" ANGLE REINFORCED POCKET LOCK OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 96" WITH 2"X2"X1/4" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES 97" THRU 96" WITH 1 1/2"X1 1/2"X3/16" ANGLES ON 2'-0" CENTERS. REINFORCE ALL SIDES UNDER 60" WITH 1 1/2"X1 1/2"X1/8" ANGLES IF JOINTS ARE 8'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0" ON CENTER.

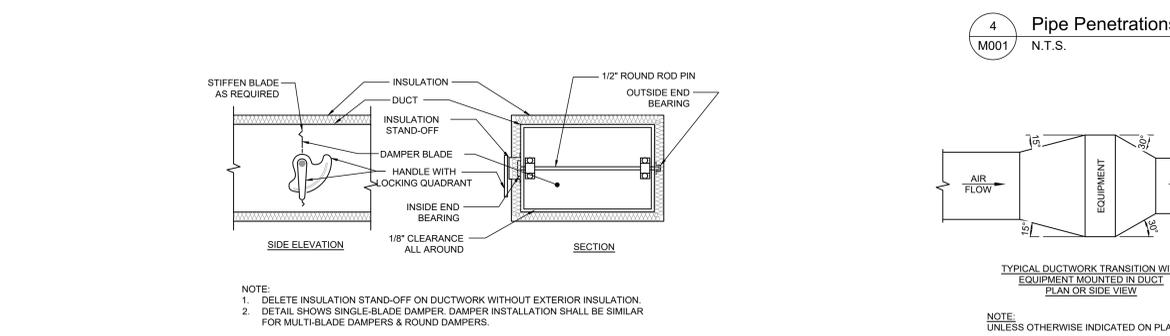


- NOTE:
- ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
  - WHEN W1 IS NOT EQUAL TO W2, VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
  - ALL SINGLE VANES SHALL HAVE A 2" RADIUS, 1-1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
  - WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

**1 Ductwork Squared Elbow Detail**  
M001 N.T.S.



**2 Ductwork Radius Elbow Detail**  
M001 N.T.S.



**3 Typical Branch Take-Off Fitting Detail**  
M001 N.T.S.



**4 Ductwork Volume Damper Detail**  
M001 N.T.S.



**5 Pipe Penetrations Detail**  
M001 N.T.S.



**6 Ductwork Transition Detail**  
M001 N.T.S.



**7 Pipe Hanger Support**  
M001 N.T.S.

**General Symbols:**

	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	THERMOMETER
	PRESSURE GAGE
	VENTURI FLOW METER
	REFRIGERANT SIGHT GLASS
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	QUICK-COUPLE HOSE CONNECTOR
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK

**Valve Symbols:**

	GATE VALVE - THREADED/FLANGED
	GLOBE VALVE - THREADED/FLANGED
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	FLEXIBLE CONNECTION
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	MODULATING CONTROL BUTTERFLY VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY VALVE
	AUTOMATIC BALANCING CONTROL VALVE
	WATER BALANCE DEVICE
	CIRCUIT SETTER VALVE
	GATE VALVE WITH GLOBE-VALVED BYPASS
	PLUG VALVE
	CONTROL VALVE (CV) - FLOAT-OPERATED
	PRESSURE REDUCING VALVE (PRV)

**Mechanical Legend:**

	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
	RETURN DUCT (UP & DOWN)
	ROUND AND SQUARE 4-WAY CEILING DIFFUSERS
	SQUARE 3-WAY CEILING DIFFUSERS
	SQUARE 2-WAY CEILING DIFFUSERS
	SQUARE 1-WAY CEILING DIFFUSERS
	LINEAR SLOT DIFFUSER
	SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN CEILING REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
	VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
	MANUAL SPLITTER DAMPER
	STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR REQUIREMENTS WITH VANES EVEN IF SYMBOL IS MISSING)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW (LONG RADIUS); INSIDE RADIUS R TO BE EQUAL TO OR GREATER THAN W
	NEW DUCT (INSIDE DIMENSIONS: WIDTH X DEPTH)
	FLEXIBLE DUCTWORK (INSULATED)
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	COMBINATION FIRE SMOKE DAMPER
	DUCT SMOKE DETECTOR
	TERMINAL UNIT TAG
	AIRFLOW (CUBIC FEET PER MINUTE)

**Mechanical Notes:**

- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 MECHANICAL CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS TO TWICE THE SYSTEM WORKING PRESSURE. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM. INSTALL MANUAL AIR VENT VALVE FACILITIES AT THE TOP OF ALL RISERS AND AT HIGH POINTS OF THE PIPING SYSTEM.
- INSTALL ALL HYDRONIC PIPING AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE HYDRONIC SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED WATER FLOWRATE REQUIREMENTS. A CERTIFIED BALANCING REPORT AND VERIFICATION IS TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- ALL DUCTWORK IS TO BE CONSTRUCTED OF GALVANIZED SHEET STEEL (EXCEPT WHERE OTHERWISE SPECIFIED) WITH GAUGES, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- PROVIDE MANUAL DAMPERS AT EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS FOR BALANCING PURPOSES WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS. EACH DAMPER SHALL BE OF THE OPPOSED BLADE DAMPER TYPE INSTALLED WITH AN OPERATOR AND LOCKING DEVICE. ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILINGS SHALL BE INSTALLED WITH REMOTE GEAR OPERATORS.
- FURNISH & INSTALL FUSIBLE LINK FIRE DAMPERS AT ALL LOCATIONS WHERE DUCT PENETRATES FIRE-RATED FLOOR OR CEILING ASSEMBLY WHETHER OR NOT SPECIFICALLY SHOWN. INSTALL DUCTWORK CASING ACCESS DOORS AND FRAMES AHEAD OF EACH FIRE DAMPER FOR INSPECTION AND MAINTENANCE. DOORS SHALL BE A MINIMUM OF 20 GA DOUBLE PANEL INSULATED TYPE.
- INSTALL TURNING VANES ON ALL RECTANGULAR TURNS. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED IN ACCORDANCE WITH SMACNA MANUAL.
- ROUND SHEET STEEL ELBOWS ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL SUPPLY AIR DIFFUSERS. SHEET STEEL PLENUM BOXES ARE TO BE INSTALLED AT THE DUCT CONNECTION TO ALL RETURN AND EXHAUST AIR GRILLES. THE CONTRACTOR IS TO PAINT THE INSIDE OF THE SHEET STEEL PLENUM BOXES FLAT BLACK.
- INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE PROVIDING RISERS, DROPS AND OFFSETS TO CLEAR STRUCTURAL MEMBERS, LIGHT FIXTURES, OTHER PIPING, AND OTHER OBSTRUCTIONS. WHERE CONFLICTS ARISE, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO PROCEEDING.
- THE ENTIRE AIR DISTRIBUTION SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED AIRFLOW REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

**Mechanical Equipment:**

- 1 THERMOSTAT PROVIDED BY OWNER. INSTALLED BY CONTRACTOR. MOUNT 5'-0" A.F.F. IN LOCATIONS SHOWN ON PLANS

**Mechanical Equipment:**

PIPE Ø (IN.)	MAX. SPACING BETWEEN HANGERS (FT.)		MIN. ROD SIZE (IN.)
	STEEL PIPE	COPPER PIPE	CPVC
1/2 THRU 1	7	5	3/8
1-1/2 THRU 2	9	8	3/8
2-1/2	11	9	7/8
3	12	10	7/8
4	14	12	8.5
6	17	14	9
8	19	16	10
10	22	18	10.5

**Mechanical Equipment:**

- 1 PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
- 2 FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

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**VALLEY CENTRAL SCHOOL DISTRICT  
MONTGOMERY ELEMENTARY SCHOOL  
2023 CAPITAL PROJECT - PHASE 1**

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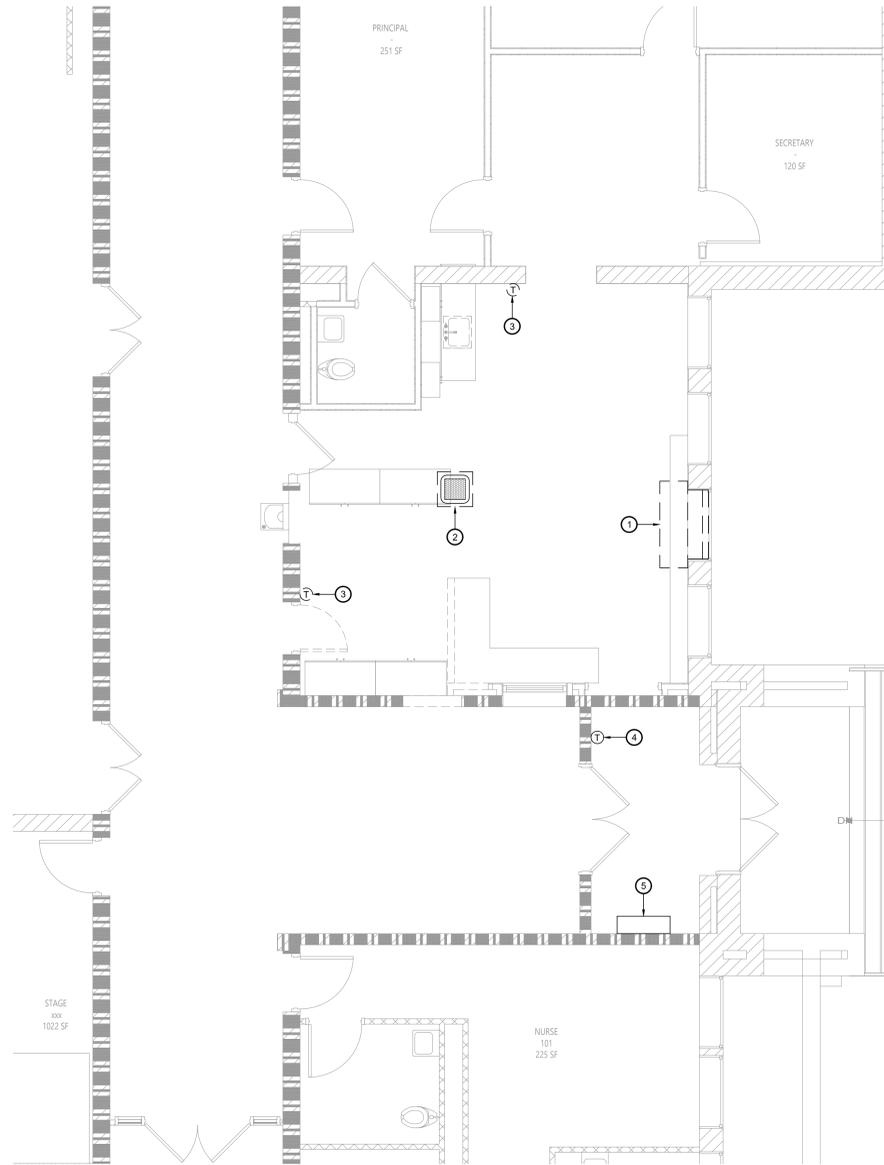
**MECHANICAL  
NOTES,  
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Sheet No.

**MES  
M001**

CONSTRUCTION DOCUMENTS

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1 Mechanical Demolition Plan  
 MD111 Scale: 1/4" = 1'-0"

Key Notes:

- ① EXISTING UNIT VENTILATOR TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, LOUVERS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP. SEAL EXTERIOR LOUVER WEATHER TIGHT W/ RIGID INSULATION ON INSIDE FACE
- ② EXISTING CEILING CASSETTE & ASSOCIATED CONDENSING UNIT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY REFRIGERANT PIPING, CONDENSATE PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; RECOVER & DISPOSE OF REFRIGERANT PER EPA & DEC GUIDELINES
- ③ EXISTING THERMOSTAT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED WIRING, TUBING, CONDUIT, ACCESSORIES, ETC.
- ④ EXISTING THERMOSTAT TO REMAIN
- ⑤ EXISTING CONVECTOR TO REMAIN

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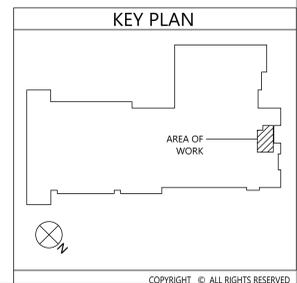
Sheet Title

MECHANICAL DEMOLITION PLAN

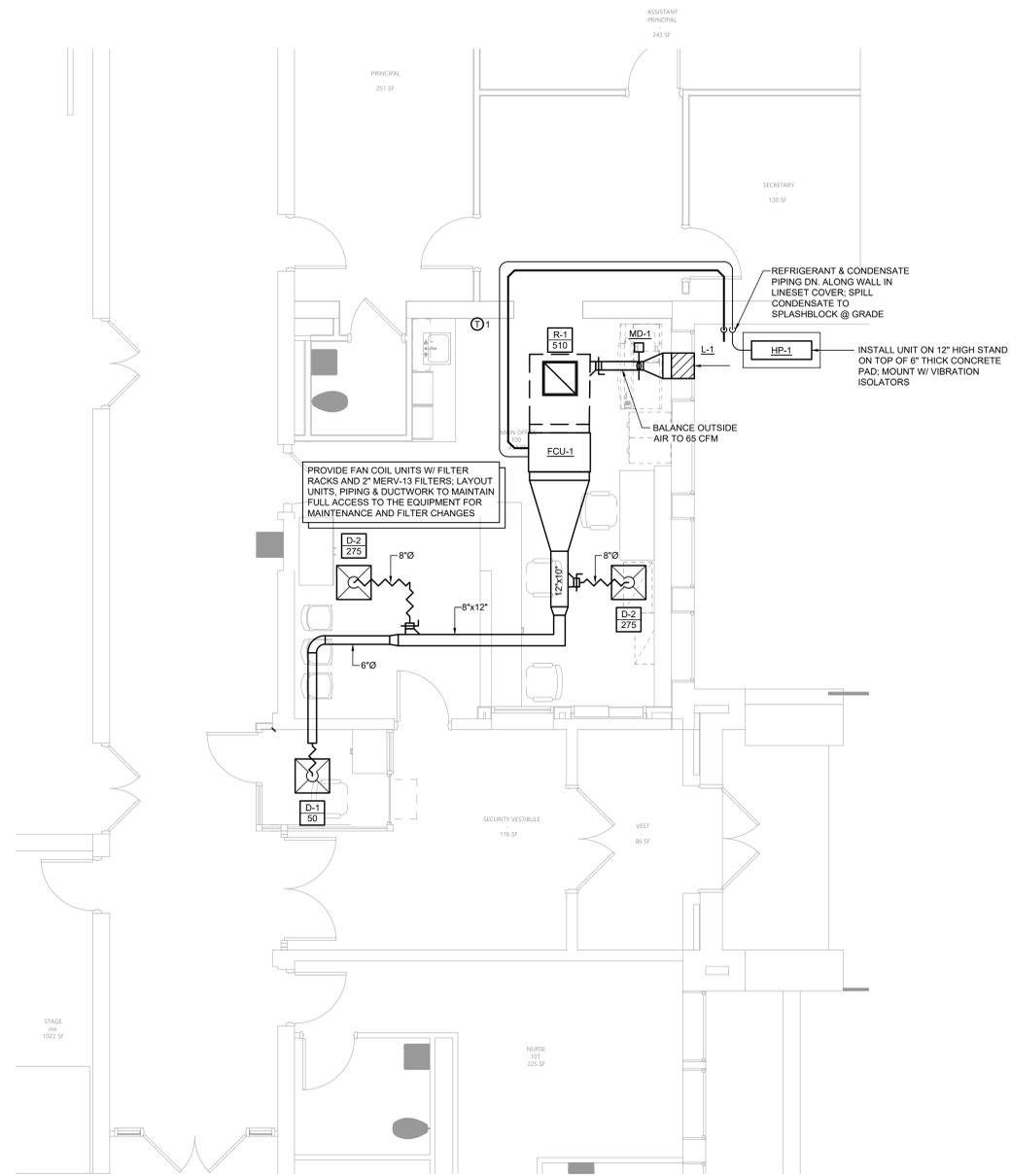
Sheet No.

MES MD111

CONSTRUCTION DOCUMENTS



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1 Mechanical Plan  
M111 Scale: 1/4" = 1'-0"

SPLIT SYSTEMS WITH DUCT FAN COIL & HEAT PUMP FURNISHED BY OWNER. INSTALLED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE TO RECEIVE THE EQUIPMENT DELIVERY AT THE PROJECT SITE, MOVE EQUIPMENT FROM TRUCK(S) TO A DESIGNATED STORAGE LOCATION ON THE SITE & RIG THE UNIT INTO THE FINAL INSTALLATION LOCATION. CONTRACTOR IS TO PROVIDE ALL ASSOCIATED COMPONENTS, I.E., DUCTWORK, PIPING, CONTROLS, ACCESSORIES, ETC. UNLESS OTHERWISE NOTED IN THE PROJECT DOCUMENTS; REFER TO FRONT END DOCUMENTS FOR ADDITIONAL INFORMATION.

INDOOR MINI-SPLIT UNIT SCHEDULE																			
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	MINI-SPLIT UNIT TYPE	AREA OF BUILDING SERVED	AIRFLOW (CFM)	COOLING			HEATING			PAIRED OUTDOOR UNIT	EXTERNAL STATIC PRESSURE (IN. W.C.)	ELECTRICAL POWER REQUIREMENTS			WEIGHT (LB)	NOTES	
						CAPACITY (MBH)	EDB (°F)	EWB (°F)	CAPACITY (MBH)	EDB (°F)	EWB (°F)			VOLT.	PHASE	Hz.			
FCU-1	mitsubishi	PEAD-A18AA8	DUCTED MEDIUM STATIC	MAIN OFFICE	600	18.0	80.0	67.0	21.6	70.0	60.0	HP-1	0.50	208	1	60	121	60	HYPER HEATING UNIT; SEE VRF SYSTEM NOTES

AIR-COOLED HEAT PUMP SCHEDULE																				
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	INDOOR UNITS SERVED	COMPRESSOR TYPE	NOM. COOL CAPACITY (MBH)	NOM. HEAT CAPACITY (MBH)	OUTDOOR OPERATING TEMP. RANGE (°F)		AHRU EFFICIENCY RATINGS			REFRIGERANT	SOUND PRESSURE LEVEL COOLING/HEATING (dBA)	ELECTRICAL POWER REQUIREMENTS			WEIGHT (LB)	NOTES		
							COOLING	HEATING	EER	SEER	COOP			VOLT.	PHASE	Hz.				
HP-1	MITSUBISHI	SUZ-KA18NAHZ	FCU-1	INVERTER SCROLL HERMETIC	18.0	21.6	0 TO 115	-13 TO 75	12.8	18.9	3.3	R410A	52/53	208	1	60	17	30	131	HYPER HEATING UNIT; FURNISH W/ REQUIRED PIPING ACCESSORIES

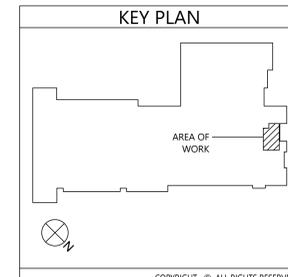
AIR GRILLE/DIFFUSER SCHEDULE													
EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AIR DEVICE TYPE	AIRFLOW (CFM)		MAX AIR PRESS. DROP (IN. W.C.)	MOUNTING	PANEL/FRAME SIZE (IN.)	NECK SIZE (IN.)	MAX NC	DAMPER	FINISH	NOTES
				MIN.	MAX.								
D-1	KRUEGER	PLQ-6-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	50	175	0.10	LAY-IN	24"x24"	6"Ø	20	OBD	WHITE	PROVIDE W/ INSULATED BLANKET ON BACKPAN
D-2	KRUEGER	PLQ-8-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	176	300	0.10	LAY-IN	24"x24"	8"Ø	20	OBD	WHITE	PROVIDE W/ INSULATED BLANKET ON BACKPAN
R-1	KRUEGER	S80P-20x20-F23-24x24-00-00-00-44	PERFORATED FACE RETURN GRILLE	0	1,600	0.10	LAY-IN	24"x24"	20"x20"	25	-	WHITE	FURNISH & INSTALL FULL-SIZE SHEET METAL PLENUM BOX ON REAR OF GRILLE; PAINT INSIDE FLAT BLACK

LOUVER SCHEDULE														
EQUIPMENT TAG	QTY.	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AIR DEVICE TYPE	LOUVER SIZE			FREE AREA (SQ. FT.)	AIRFLOW (CFM)	VELOCITY (FT./MIN.)	MOUNTING	SCREEN	FINISH	NOTES
					WIDE	HIGH	DEPTH							
L-1	1	RUSKIN	ELF6375DX	STATIONARY LOUVER	18"	12"	6"	0.63	65	103.2	EXTERIOR WALL	YES	TBD	1, 2 & 3

- COLOR TO BE COORDINATED WITH OWNER/ARCHITECT BEFORE ORDERING
- FURNISH WITH INSECT-SCREEN OPTION
- FURNISH W/ PROPER MOUNTING HARDWARE.

VRF System Notes:

- WIRED 7 DAY PROGRAMMABLE THERMOSTAT SHALL BE FURNISHED BY MECHANICAL CONTRACTOR FOR EACH INDOOR UNIT. THERMOSTATS SHIP LOOSE FOR FIELD INSTALLATION AND WIRING BY THE MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR TO PROVIDE CENTRAL CONTROLLER FOR LOCAL SET POINT CONTROL AND SYSTEM VIEWING. CONTROLLER TO BE INSTALLED AND WIRING BY MECHANICAL CONTRACTOR. 24V POWER BY ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES FOR CONDENSING UNITS AND INDOOR UNITS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- EXTERNAL SUPPORTS FOR INDOOR AND CONDENSING UNITS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- FILTER RACK AND 3" PLEATED MERV-13 FILTERS FOR DUCTED UNITS SHALL FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. FILTER RACK SHALL BE GALVANIZED STEEL, FULLY INSULATED & FACTORY ASSEMBLED. TYPICAL OF FLT-H SERIES OR EQUAL.
- CONDENSATE PUMPS SHIP FOR FIELD INSTALLATION BY MECHANICAL CONTRACTOR FOR WALL MOUNTED UNITS. DUCTED UNITS FURNISHED WITH FACTORY MOUNTED CONDENSATE PUMP. MECHANICAL CONTRACTOR TO PROVIDE CONDENSATE PIPING FROM ALL UNITS TO SANITARY DRAIN. FIELD VERIFY EXACT ROUTING AND TERMINATION POINT IN BUILDING.
- PROVIDE REFRIGERANT ISOLATION VALVES ON LIQUID AND GAS LINES AT EVERY FAN COIL UNIT.



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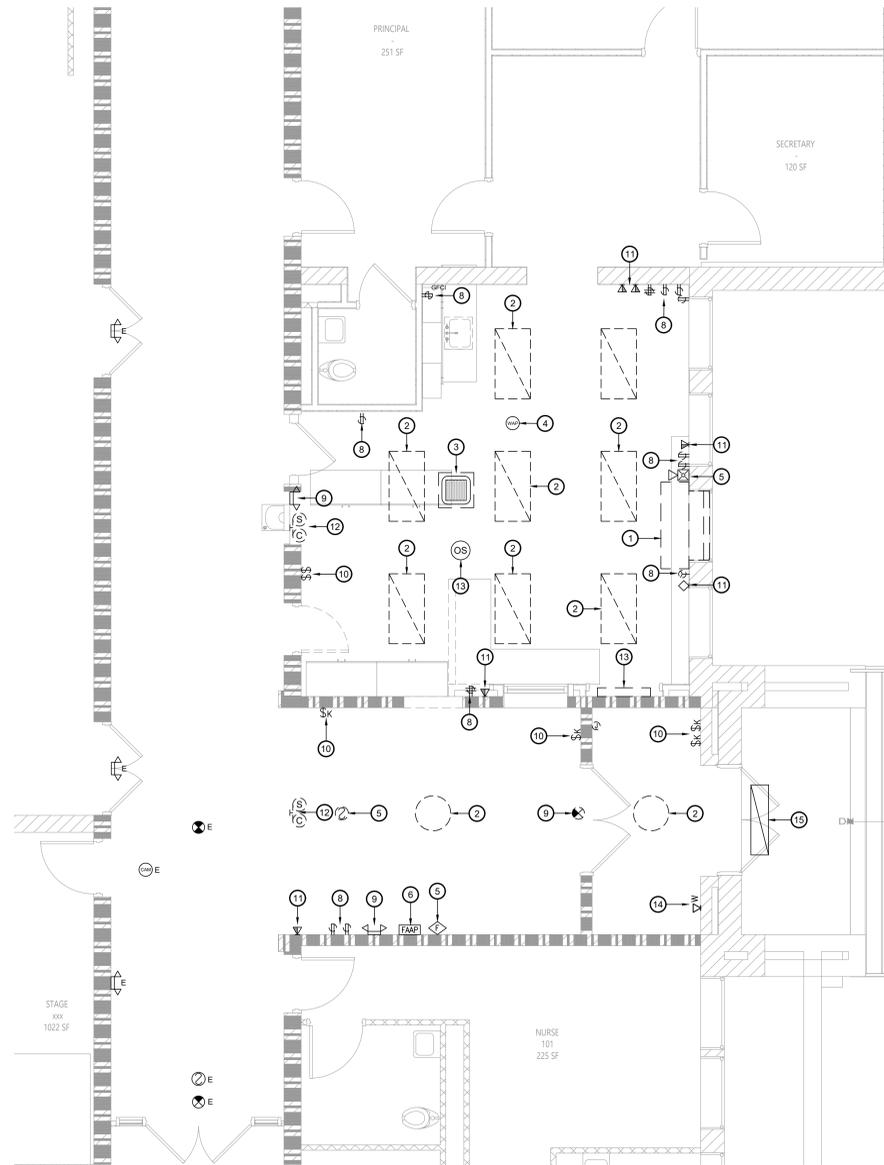
Sheet Title

MECHANICAL PLAN

Sheet No.

MES  
M111





1 Electrical Demolition Plan  
ED111 Scale: 1/4" = 1'-0"

Key Notes:

- 1 EXISTING UNIT VENTILATOR TO BE REMOVED, DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 2 DISCONNECT, REMOVE & PROPERLY DISPOSE OF LIGHT FIXTURE & ASSOCIATED WIRING & CONDUIT; MAINTAIN EXISTING CIRCUIT AS NEEDED FOR ANY ADJACENT LIGHTING THAT REMAINS IN PLACE, OTHERWISE TERMINATE AT SOURCE
- 3 EXISTING CEILING CASSETTE & CONDENSING UNIT TO BE REMOVED, DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 4 EXISTING WIRELESS ACCESS POINT TO BE DISCONNECTED, REMOVED & STORED; TEMPORARILY SUPPORT DATA CABLING UNTIL REINSTALLATION IN NEW CEILING
- 5 DISCONNECT, REMOVE & PROPERLY DISPOSE OF FIRE ALARM DEVICE & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE, MAINTAIN CONTINUITY OF EXISTING FIRE ALARM CIRCUITS
- 6 EXISTING FIRE ALARM ANNUNCIATOR PANEL TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL AFTER COMPLETION OF VESTIBULE
- 7 EXISTING INTERCOM & CARD ACCESS CONTROL TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL AFTER COMPLETION OF VESTIBULE
- 8 DISCONNECT, REMOVE & PROPERLY DISPOSE OF RECEPTACLE & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 9 DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXIT/ EMERGENCY LIGHT & ASSOCIATED WIRING & CONDUIT; MAINTAIN EXISTING CIRCUIT AS NEEDED FOR ANY ADJACENT LIGHTING THAT REMAINS IN PLACE, OTHERWISE TERMINATE AT SOURCE
- 10 DISCONNECT, REMOVE & PROPERLY DISPOSE OF LIGHT SWITCHES & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 11 DISCONNECT, REMOVE & PROPERLY DISPOSE OF DATA OUTLET & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 12 DISCONNECT, REMOVE & PROPERLY DISPOSE OF WALL MOUNTED CLOCK/SPEAKER & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 13 DISCONNECT, REMOVE & PROPERLY DISPOSE OF ABANDONED DUKANE PACCLOCK SYSTEM & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 14 DISCONNECT, REMOVE & PROPERLY DISPOSE OF ABANDONED PAY PHONE & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
- 15 EXISTING LIGHT FIXTURE TO REMAIN

VALLEY CENTRAL SCHOOL DISTRICT  
MONTGOMERY ELEMENTARY SCHOOL  
2023 CAPITAL PROJECT - PHASE 1

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Newburgh, NY 12550

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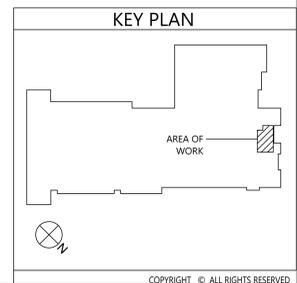
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ELECTRICAL  
DEMOLITION  
PLAN

Sheet No.  
**MES  
ED111**

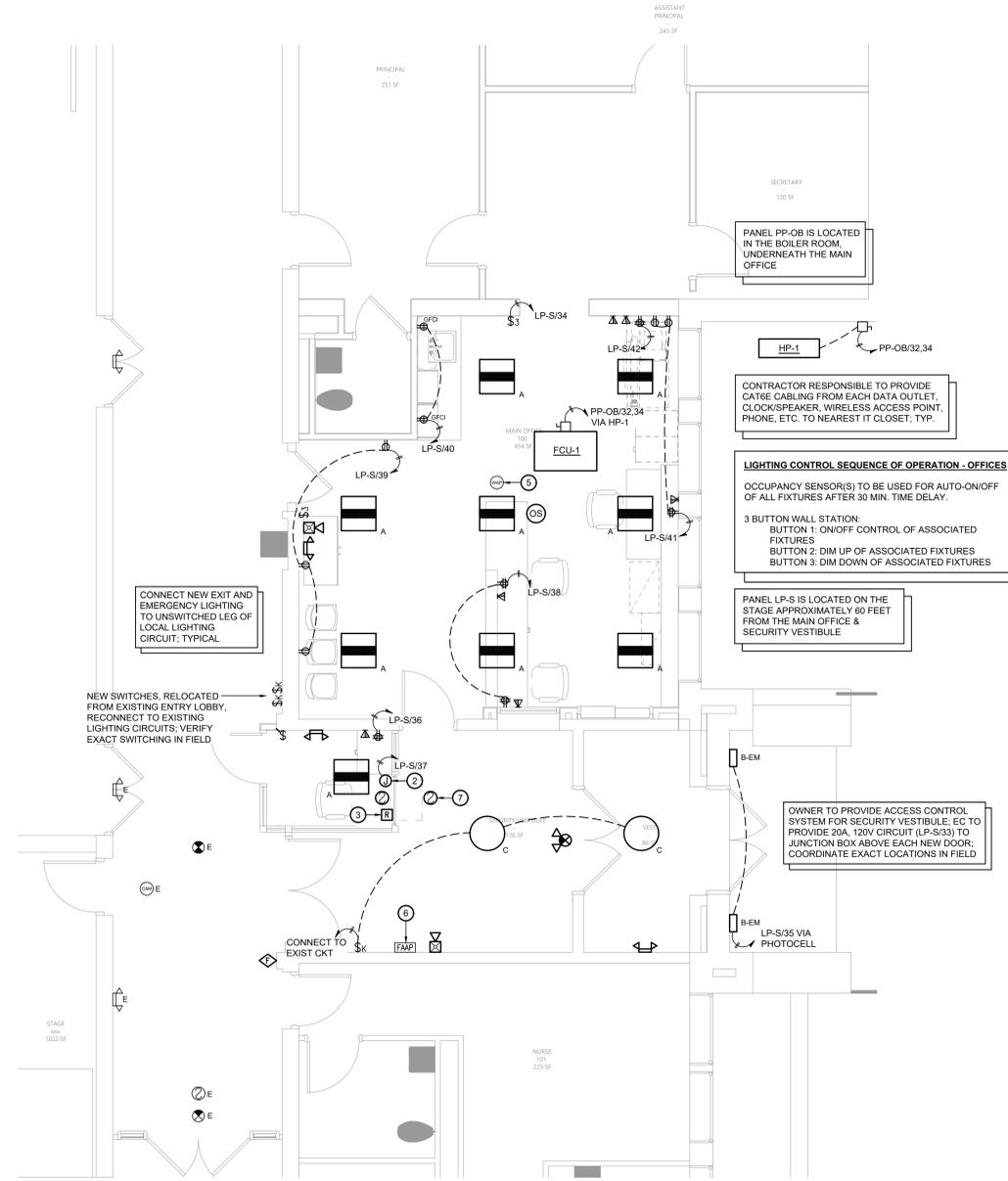


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CONSTRUCTION DOCUMENTS

**Key Notes:**

- 1 EXISTING LIGHT FIXTURE TO REMAIN
- 2 PROVIDE NEW 120V ELECTRICAL CONNECTION FOR FIRE SHUTTER
- 3 FIRE ALARM RELAY; FIRE SHUTTER TO CLOSE UPON ACTIVATION OF FIRE ALARM
- 4 RELOCATE EXISTING LIGHT FIXTURE TO AVOID CONFLICT W/ NEW SECURITY OFFICE; CENTER FIXTURE IN VESTIBULE; EXTEND WIRING & CONDUIT FROM EXISTING CIRCUIT AS NECESSARY
- 5 REINSTALL EXISTING WIRELESS ACCESS POINT; CONNECT TO EXISTING DATA CABLING
- 6 EXISTING FIRE ALARM ANNUNCIATOR PANEL TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL AFTER COMPLETION OF VESTIBULE
- 7 PROVIDE SMOKE DETECTORS ON BOTH SIDES OF THE AUTOMATIC FIRE SHUTTER AT THE TRANSACTION WINDOW; CONNECT TO THE EXISTING BUILDING FIRE ALARM SYSTEM



1 Electrical Plan  
 E111 Scale: 1/4" = 1'-0"

VALLEY CENTRAL SCHOOL DISTRICT  
 MONTGOMERY ELEMENTARY SCHOOL  
 2023 CAPITAL PROJECT - PHASE 1

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