VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

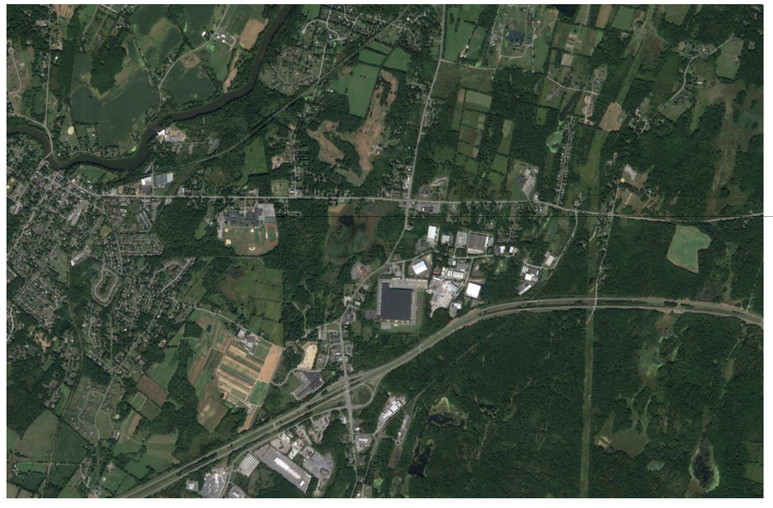
ISSUED FOR BID: 10/18/24

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 44-13-01-06-0-015-033

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



Valley Central High School
1175 NY-17K
Montgomery, NY 12549

VICINITY MAP NTS

DRAWING LIST

GENERAL DRAWINGS
VCHS G000 COVER & SHEET INDEX
VCHS G001 SYMBOLS, ABBREVIATIONS, MISC, & PARTITION TYPES
VCHS G101 OVERALL FLOOR PLAN - BASEMENT
VCHS G111 OVERALL FLOOR PLAN - FIRST FLOOR
VCHS G121 OVERALL FLOOR PLAN - SECOND FLOOR
VCHA G401 OVERALL ROOF PLAN

LIFE SAFETY DRAWINGS
VCHS LS101 BASEMENT LIFE SAFETY PLAN
VCHS LS111 FIRST FLOOR LIFE SAFETY PLAN
VCHS LS112 SMOKE ZONE PLANS

ARCHITECTURAL DEMOLITION DRAWINGS
VCHS AD111 FIRST FLOOR REMOVAL PLAN - AREA A
VCHS AD112 FIRST FLOOR REMOVAL PLAN - AREA C & D
VCHS AD401 ROOF REMOVAL PLAN - AREA C & D
VCHS AD802 REFLECTED CEILING REMOVAL PLAN - AREA C & D

ARCHITECTURAL DRAWINGS
VCHS A101 BOILER ROOM PLANS AND DETAILS
VCHS A111 ENLARGED VESTIBULE PLAN, SECTION AND DETAILS
VCHS A112 AREA C & D - FIRST FLOOR NEW WORK PLAN
VCHS A201 EXTERIOR ELEVATIONS
VCHS A202 EXTERIOR ELEVATIONS
VCHS A402 ROOF PLAN - AREA A, C, & D
VCHS A801 REFLECTED CEILING PLAN & CEILING DETAIL - AREA A
VCHS A802 FIRST FLOOR REFLECTED CEILING PLAN - AREA C & D
VCHS A901 DOOR, WINDOW, & STOREFRONT DETAILS

ARCHITECTURAL FINISH DRAWINGS
VCHS AF001 MATERIAL SCHEDULE
VCHS AF112 AREA C & D - FLOOR FINISHES PLAN

PLUMBING GENERAL DRAWINGS
VCHS P001 PLUMBING NOTES, SCHEDULE, LEGEND & DETAILS

PLUMBING DEMOLITION DRAWINGS
VCHS PD301 BOILER ROOM PLUMBING DEMOLITION PLAN

PLUMBING DRAWINGS
VCHS P301 PLUMBING PLAN

MECHANICAL GENERAL DRAWINGS
VCHS M001 MECHANICAL NOTES, LEGEND, SCHEDULE & DETAILS
VCHS M002 MECHANICAL SCHEDULES
VCHS M003 MECHANICAL SCHEDULES
VCHS M004 MECHANICAL DETAILS
VCHS M005 TEMPERATURE CONTROLS NOTES, LEGEND & SCHEMATICS
VCHS M006 MECHANICAL PIPING DIAGRAMS

MECHANICAL DEMOLITION DRAWINGS
VCHS MD111 MECHANICAL DEMOLITION PLAN
VCHS MD211 MECHANICAL DEMOLITON PLAN - PART 1
VCHS MD212 MECHANICAL DEMOLITON PLAN - PART 2
VCHS MD301 MECHANICAL DEMOLITION PLAN

MECHANICAL DRAWINGS
VCHS M111 SECURITY VESTIBULE MECHANICAL PLAN
VCHS M211 MECHANICAL PLAN - PART 1
VCHS M212 MECHANICAL PLAN - PART 2
VCHS M301 MECHANICAL PLAN

ELECTRICAL GENERAL DRAWINGS
VCHS E001 ELECTRICAL NOTES, LEGEND, DETAILS & SCHEDULES
VCHS E002 ELECTRICAL PANEL SCHEDULES

ELECTRICAL DEMOLITION DRAWINGS
VCHS ED111 ELECTRICAL DEMOLITION PLAN
VCHS ED211 ELECTRICAL DEMOLITION PLAN
VCHS ED301 ELECTRICAL DEMOLITION PLAN

ELECTRICAL DRAWINGS
VCHS E111 ELECTRICAL PLAN
VCHS E211 ELECTRICAL PLAN
VCHS E301 ELECTRICAL PLAN

REGISTERED ARCHITECT
THOMAS M. RITZENTHALER
023344
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

VOLUME 5 OF 8

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
DNG	DRAINING
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
SAC	SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEMP	TEMPORARY
TMPD	TEMPERED
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
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 / 100 / 000 S.F. — ROOM NAME, ROOM NUMBER, AREA OF ROOM
- A100 — DOOR NUMBER, REFER TO A900 DRAWINGS
- 1 — WINDOW TAG, REFER TO A900 DRAWINGS
- BL11 — BORROWED LIGHT NUMBER, REFER TO A900 DRAWINGS
- S-1 — STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
- 1 — COLUMN GRID DESIGNATION
- 1 / H — PARTITION TAG, REFER TO A100 DRAWINGS; 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

DRAWING SHEET NUMBER SECTION IS DRAWN ON — A100 — 1 — SECTION NUMBER; DIRECTION OF VIEW

DETAIL INDICATOR (SECTION)

DRAWING SHEET NUMBER SECTION IS DRAWN ON — A100 — 1 — SECTION NUMBER; DIRECTION OF VIEW

ENLARGED DETAIL INDICATOR

DRAWING AREA REQUIRING DETAIL — 1 / A100 — DETAIL NUMBER; DRAWING SHEET NUMBER DETAIL IS DRAWN ON

DETAIL TITLE

DETAIL NUMBER — 1 FLOOR PLAN — DETAIL TYPE / NAME

A100 — DRAWING SHEET NUMBER

1/8" = 1'-0" — SCALE

EXTERIOR ELEVATION INDICATOR

DIRECTION OF VIEW — A100 — ELEVATION NUMBER

DRAWING SHEET NUMBER DETAIL IS DRAWN ON

INTERIOR ELEVATION INDICATOR

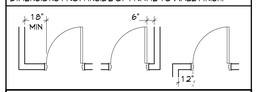
BLANK ARROW INDICATES ELEVATIONS NOT DETAILED — A600 — B / A — ELEVATION NUMBER; DIRECTION OF VIEWS

DRAWING SHEET NUMBER DETAIL IS DRAWN ON

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

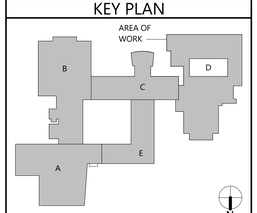
FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW UNO. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



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 'H' DWGS FOR SMOKE / FIRE DAMPER REQUIREMENTS.
9. FOR INTERIOR PARTITION TYPES, REFER TO DRAWING G001
10. FOR DOOR SCHEDULE, REFER TO DRAWING A901
11. FOR FINISH SCHEDULE, REFER TO DRAWING AF001
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

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

4 PARTITION TYPE '15'

A701 3/4" = 1'-0"

3 PARTITION TYPE '12'

A701 3/4" = 1'-0"

2 PARTITION TYPE '9'

A701 3/4" = 1'-0"

1 PARTITION TYPE '1'

A701 3/4" = 1'-0"

19 Front St. · Newburgh · New York 12550-7601
845 · 561 · 3179 www.csarchpc.com
CSARCH

Consultant

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

REGISTERED ARCHITECT JOHN M. WITZENBURG 023348 STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	AL
Checked By:	DAB
Proj. #:	44-13-01.06-0-015.03
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
SYMBOLS, ABBREVIATIONS, MISC, & PARTITION TYPES

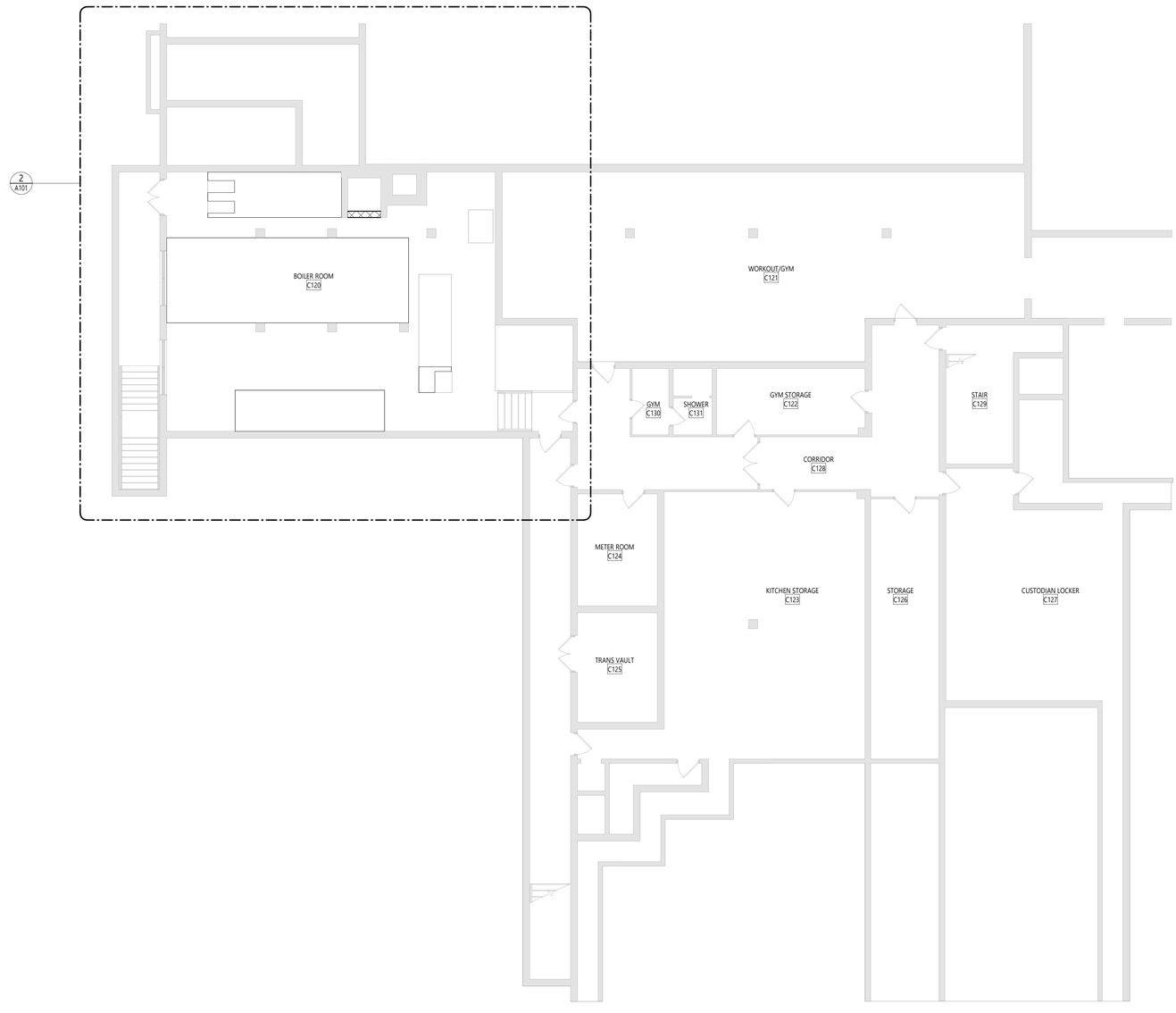
Sheet No.
VCHS G001

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller303.rvt

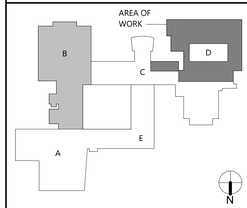
GENERAL DESIGN LOAD REQUIREMENTS

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 SCHOOLS - FIRST FLOOR CORRIDORS SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	40 PSI 100 PSI 80 PSI
		OFFICE BUILDINGS - OFFICES	50 PSI
		ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	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 BASEMENT PLAN
G101 1/8" = 1'-0"

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
CSARCH

Consultant

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

REGISTERED ARCHITECT
JAMES M. PETRO
022344
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

OVERALL FLOOR PLAN - BASEMENT

Sheet No.

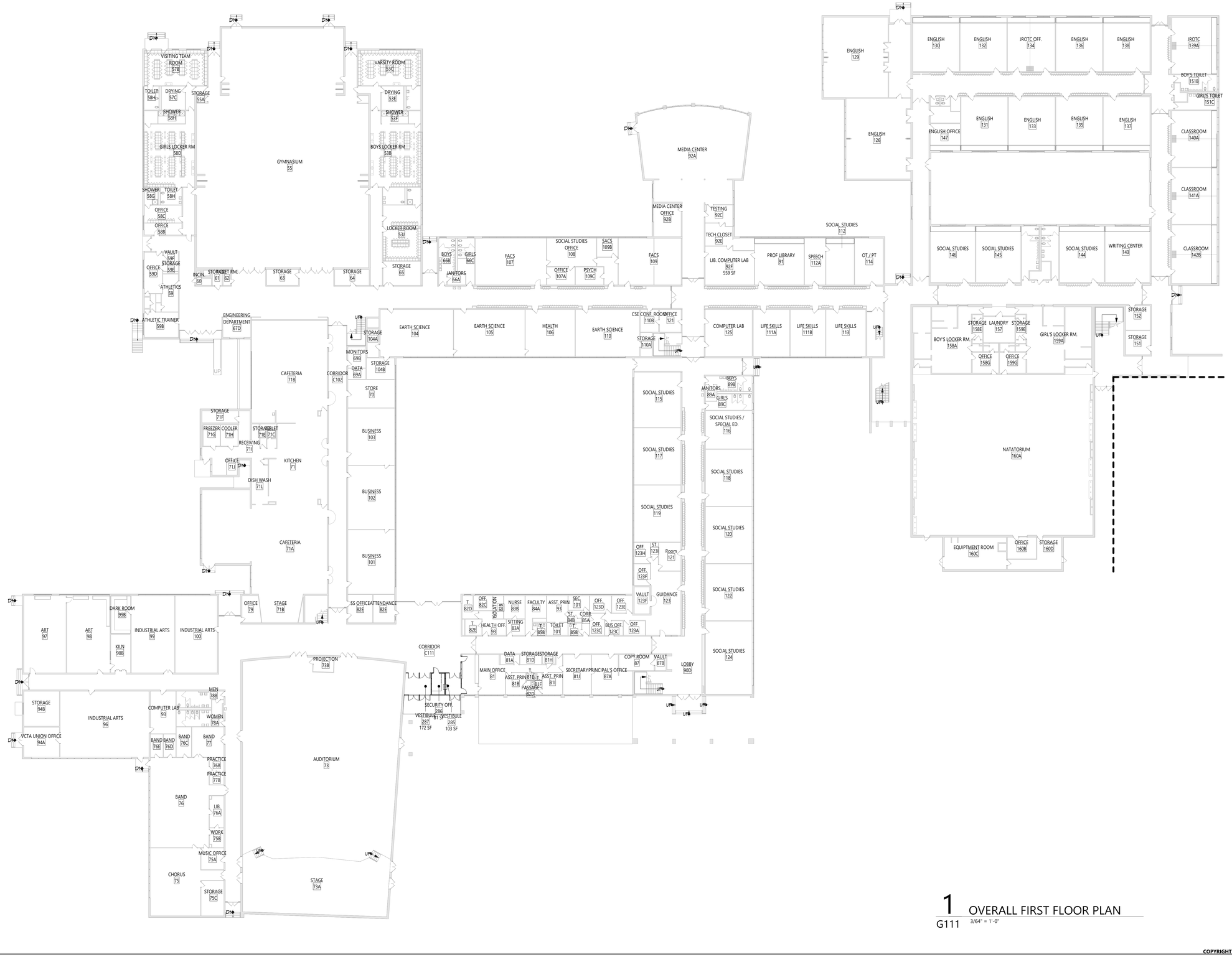
VCHS G101

CONSTRUCTION DOCUMENTS

C:\Users\jdmiller\Documents\187-2302.01 VCSD VCHS_dmiller393.rvt

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 SCHOOLS - FIRST FLOOR CORRIDORS SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	40 PSI 100 PSI 80 PSI
		OFFICE BUILDINGS - OFFICES	50 PSI
		ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	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 3/64" = 1'-0"

COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
CSARCH

Consultant

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

REGISTERED ARCHITECT
ELIZABETH M. WITZENBURG
022334
STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	AL
Checked By:	EAB
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

OVERALL FLOOR PLAN - FIRST FLOOR

Sheet No.

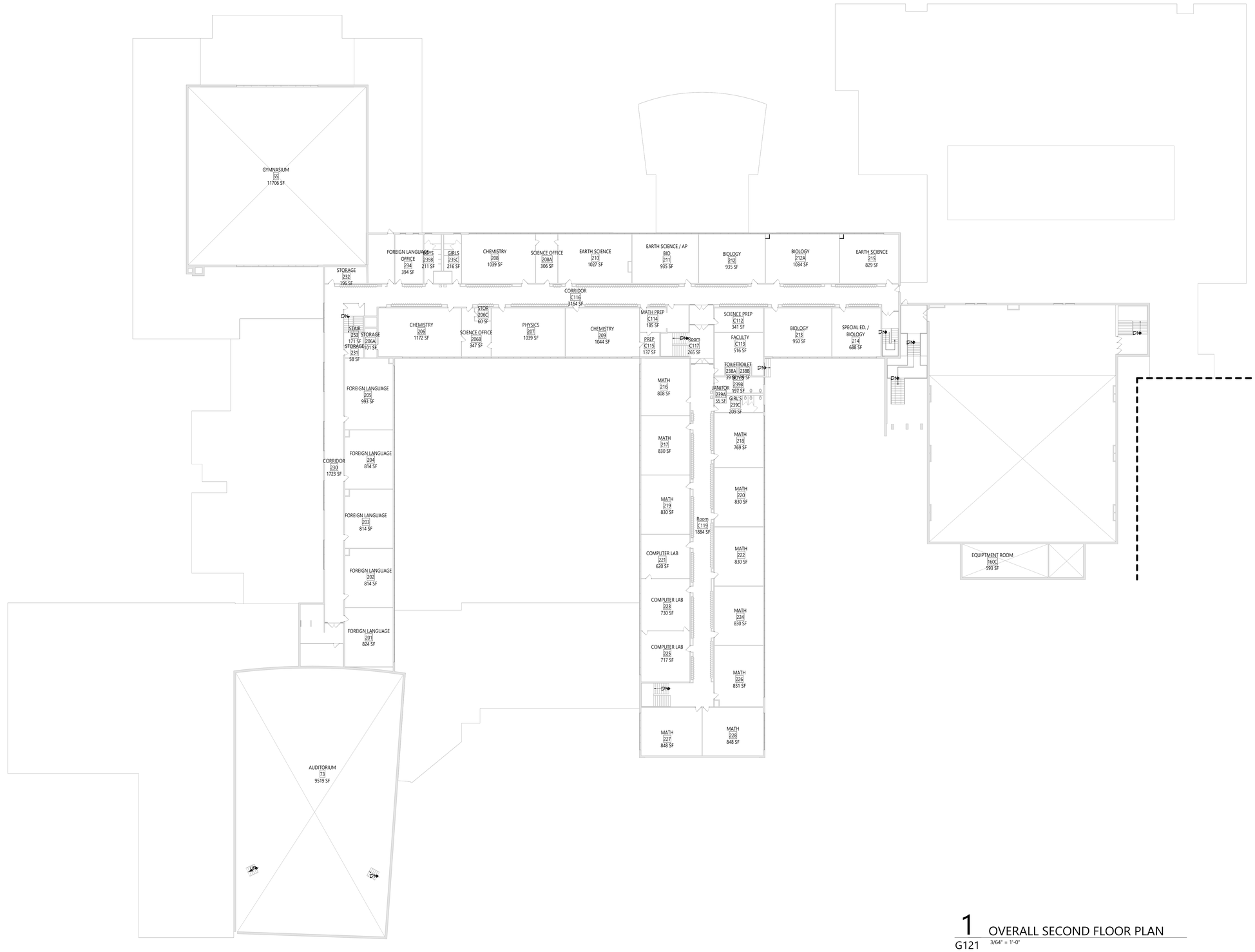
VCHS G111

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller393.rvt

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 SCHOOLS - FIRST FLOOR CORRIDORS SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	40 PSI 100 PSI 80 PSI
		OFFICE BUILDINGS - OFFICES	50 PSI
		ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	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 SECOND FLOOR PLAN
G121 3/64" = 1'-0"

COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
CSARCH

Consultant

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

REGISTERED ARCHITECT
JOHN M. WISNIEWSKI
022334
STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
OVERALL FLOOR PLAN - SECOND FLOOR

Sheet No.
VCHS G121

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller303.rvt

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 SCHOOLS - FIRST FLOOR CORRIDORS SCHOOLS - CORRIDORS ABOVE FIRST FLOOR	40 PSI 100 PSI 80 PSI
		OFFICE BUILDINGS - OFFICES	50 PSI
		ROOFS - ORDINARY/FLAT (NON-OCCUPIABLE)	40 PSI
GROUND SNOW LOADS	2020 BUILDING CODE OF NEW YORK STATE FIGURE 1608.2	ORANGE COUNTY MONTGOMERY, NY	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 ROOF PLAN
G401 3/64" = 1'-0"

COPYRIGHT © ALL RIGHTS RESERVED

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller303.rvt

19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
CSARCH

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT
JAMES M. FITZGERALD
022348
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

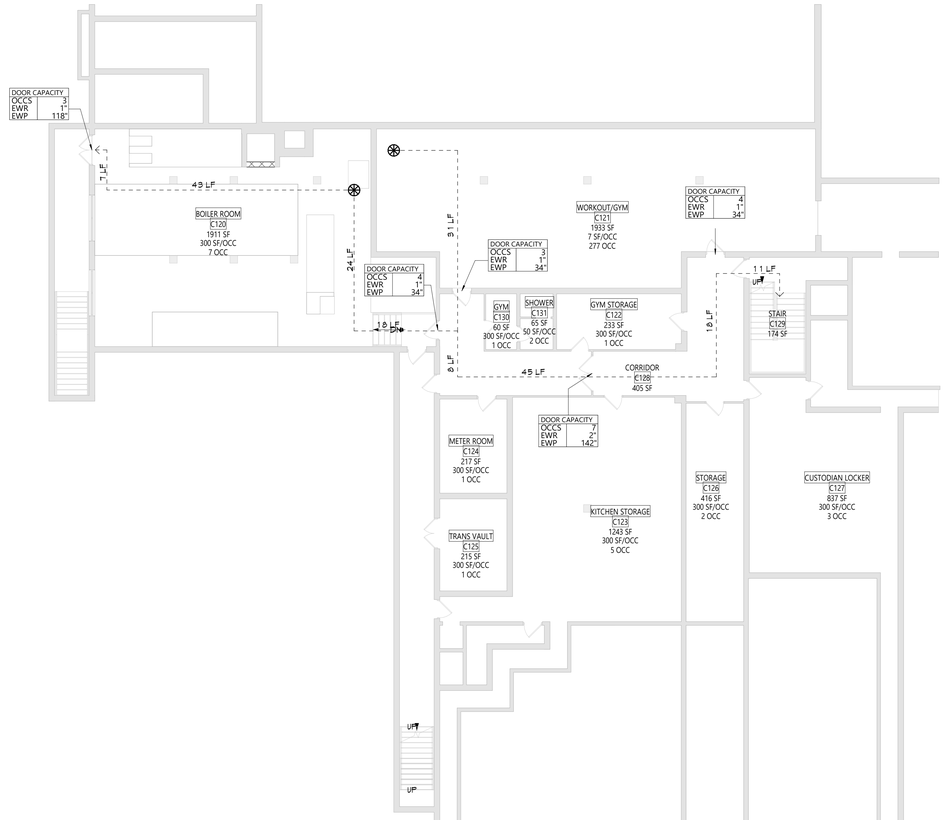
Sheet Title

OVERALL ROOF PLAN

Sheet No.

VCHS G401

CONSTRUCTION DOCUMENTS



1 LIFE SAFETY PLAN - BASEMENT
LS101 3/32" = 1'-0"

LIFE SAFETY PLAN LEGEND

- (P) PRIMARY EXIT
- (S) SECONDARY EXIT
- (R) 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)
- DOOR 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
- ESE EMERGENCY EYEWASH STATION
- FE FIRE EXTINGUISHER, WALL MOUNT
- FEC 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:
1959 : ORIGINAL CONSTRUCTION
CONSTRUCTION TYPE:
BASEMENT AREA: 12531 SF GROSS
FIRST FLOOR AREA: 130548 SF GROSS
SECOND FLOOR AREA: 80130 SF GROSS
CURRENT USE:
1989 : CONSTRUCTION:
CONSTRUCTION TYPE:
BASEMENT AREA: 12531 SF GROSS
FIRST FLOOR AREA: 130035 SF GROSS
SECOND FLOOR AREA: 80130 SF GROSS
CURRENT USE:

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	7 NET
UNCONCENTRATED	15 NET
BUISNESS 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	x.xx IN./H
60-MINUTE RAINFALL INTENSITY	x.xx 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

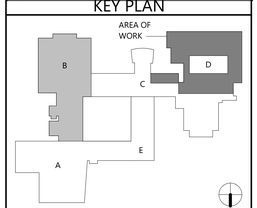
FIRE AREA MODIFICATIONS (NYS SECTION 506)

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

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. · Newburgh · New York 12550-7601
845 · 561 · 3179 www.csarchpc.com
CSARCH

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT · JOHN M. MITCHELL · 022345 · STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

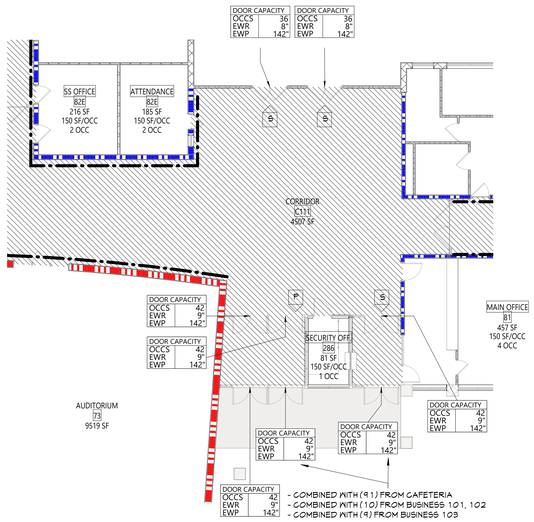
BASEMENT LIFE SAFETY PLAN

Sheet No.

VCHS LS101

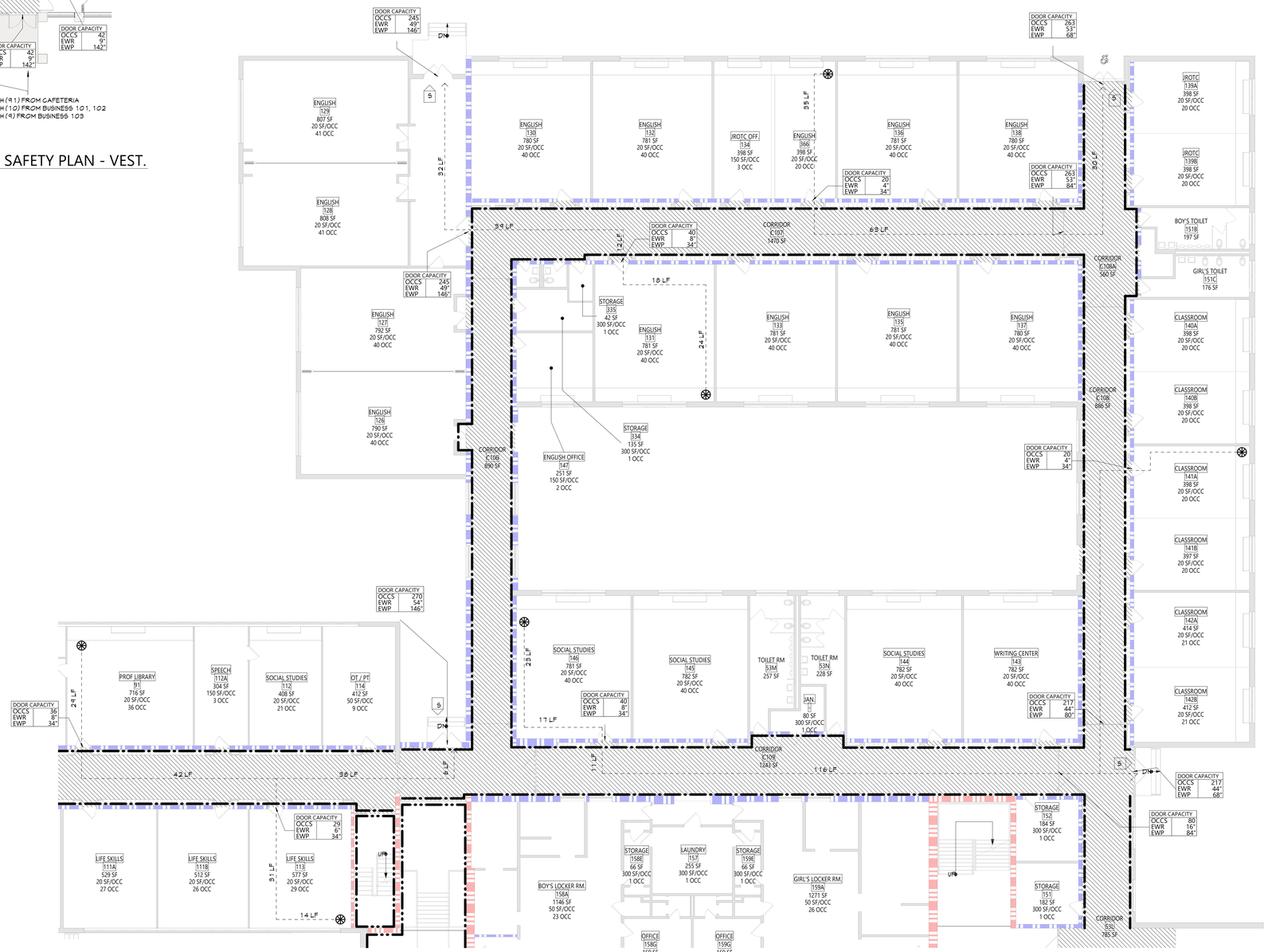
CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller903.rvt



2 FIRST FLOOR LIFE SAFETY PLAN - VEST.

LS111 3/32" = 1'-0"



1 FIRST FLOOR LIFE SAFETY PLAN - D WING

LS111 3/32" = 1'-0"

LIFE SAFETY PLAN LEGEND

- (P) PRIMARY EXIT
- (S) SECONDARY EXIT
- (R) 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)
- DOOR 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
- ESE EMERGENCY EYEWASH STATION
- FE FIRE EXTINGUISHER, WALL MOUNT
- FEC 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:
1959 : ORIGINAL CONSTRUCTION
CONSTRUCTION TYPE:
BASEMENT AREA: 12531 SF GROSS
FIRST FLOOR AREA: 130548 SF GROSS
SECOND FLOOR AREA: 80130 SF GROSS
CURRENT USE:
1989 : CONSTRUCTION:
CONSTRUCTION TYPE:
BASEMENT AREA: 12531 SF GROSS
FIRST FLOOR AREA: 180095 SF GROSS
SECOND FLOOR AREA: 80130 SF GROSS
CURRENT USE:
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	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:	III
DEAD LOADS:	
CONCRETE SLAB	xxx PSF
LIVE LOADS:	
SLAB	xxx PSF
RAIN LOADS:	
15-MINUTE RAINFALL INTENSITY	x.xx IN./H
60-MINUTE RAINFALL INTENSITY	x.xx 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

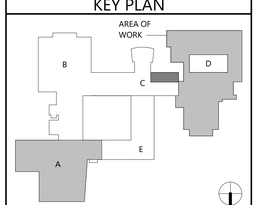
FIRE AREA MODIFICATIONS (NYS SECTION 506)

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.

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT JOHN M. WITZENBURG 022334 STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

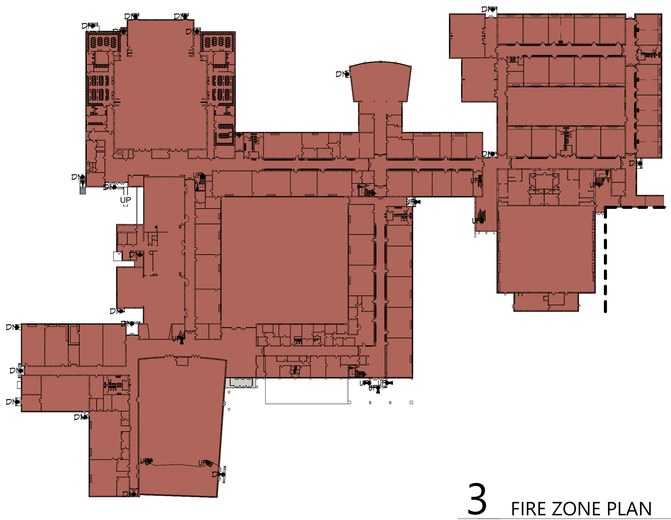
Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
FIRST FLOOR LIFE SAFETY PLAN

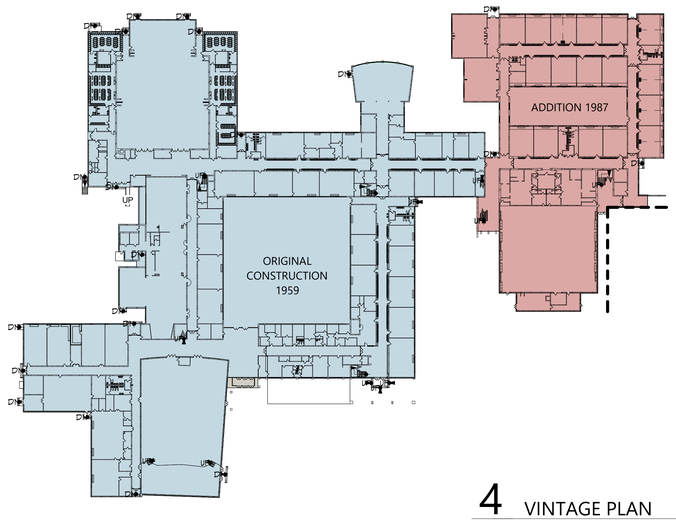
Sheet No.
VCHS LS111

CONSTRUCTION DOCUMENTS

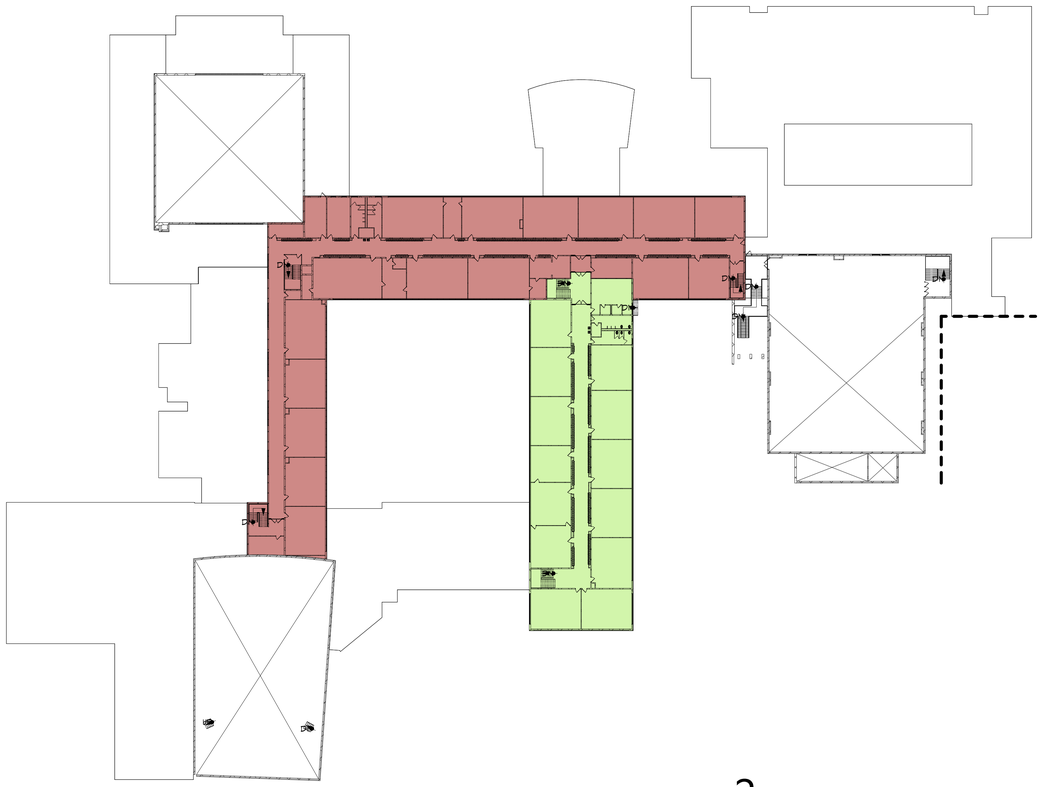
C:\Users\dmillen\Documents\187-2302.01 VCSD VCHS_dmillen393.rvt



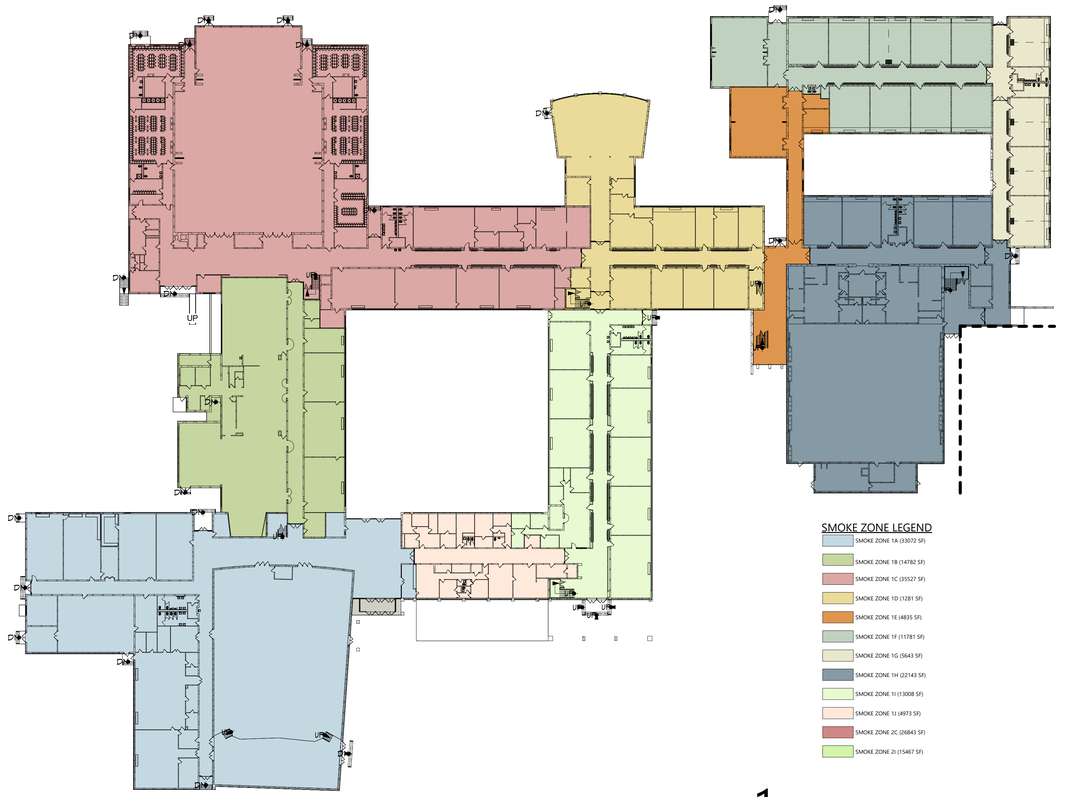
3 FIRE ZONE PLAN
LS112 1/64" = 1'-0"



4 VINTAGE PLAN
LS112 1/64" = 1'-0"



2 SMOKE ZONE SECOND FLOOR
LS112 1" = 40'-0"



1 SMOKE ZONE FIRST FLOOR
LS112 1" = 40'-0"

COPYRIGHT © ALL RIGHTS RESERVED

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller203.rvt

19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
CSARCH

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT
THOMAS M. FITZSIMMONS
026334
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

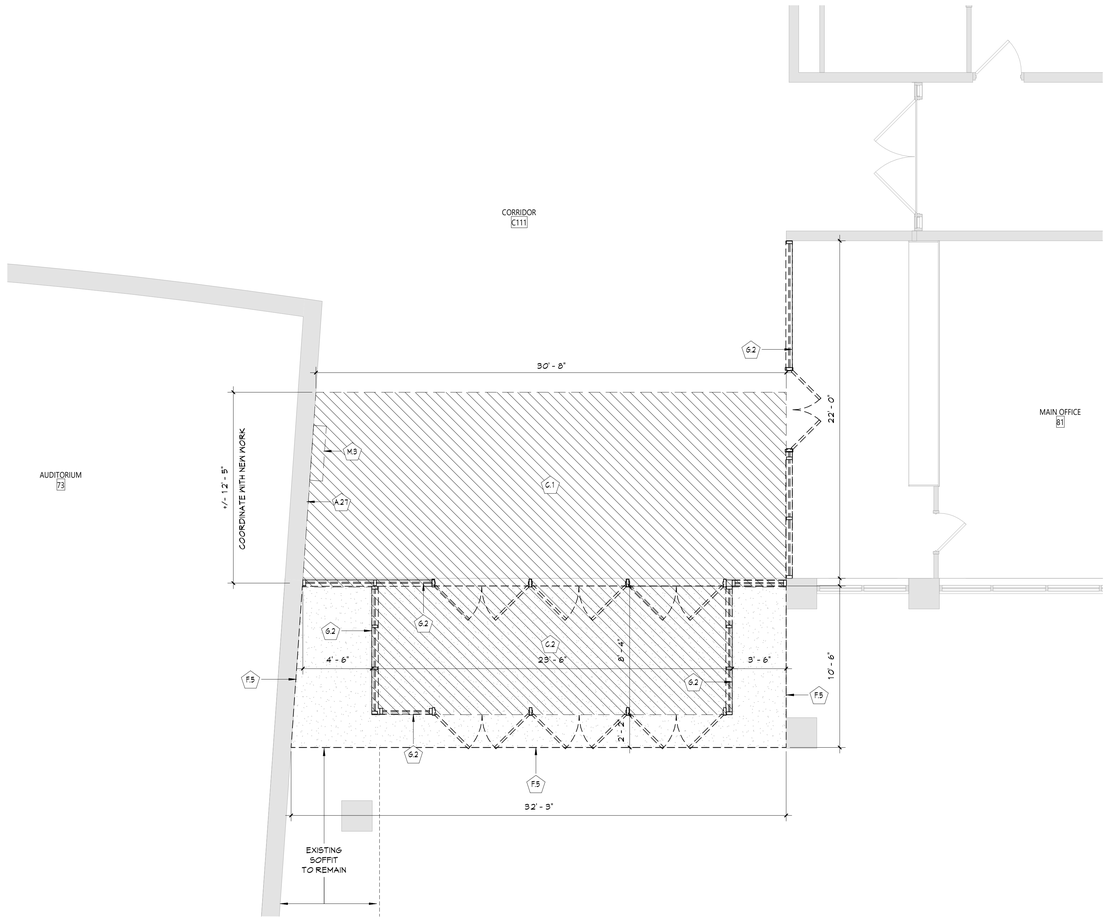
Sheet Title

SMOKE ZONE PLANS

Sheet No.

VCHS
LS112

CONSTRUCTION DOCUMENTS



1 DEMOLITION PLAN - VESTIBULE
AD111 1/4" = 1'-0"

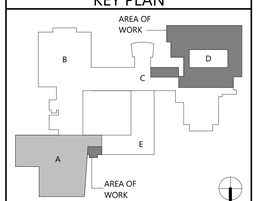
GENERAL NOTES

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.

DEMOLITION KEYNOTES

#	Description
A.27	EXISTING PLAQUES TO BE CAREFULLY REMOVED AND STORED FOR FUTURE INSTALLATION.
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.
F.5	SAWCUT AND REMOVE EXISTING CONCRETE SLAB TO NEAREST CONTROL JOINT.
G.2	REMOVE STOREFRONT SYSTEM IN ITS ENTIRETY, INCLUDING ALL SILLS, FLASHING, AND FASTENERS.
M.3	MECHANICAL UNIT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. · Newburgh · New York 12550-7601
845 · 561 · 3179 www.csarchpc.com

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title



EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	AL
Checked By:	EAB
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

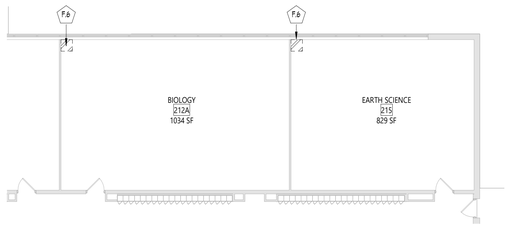
FIRST FLOOR
REMOVAL
PLAN - AREA A

Sheet No.

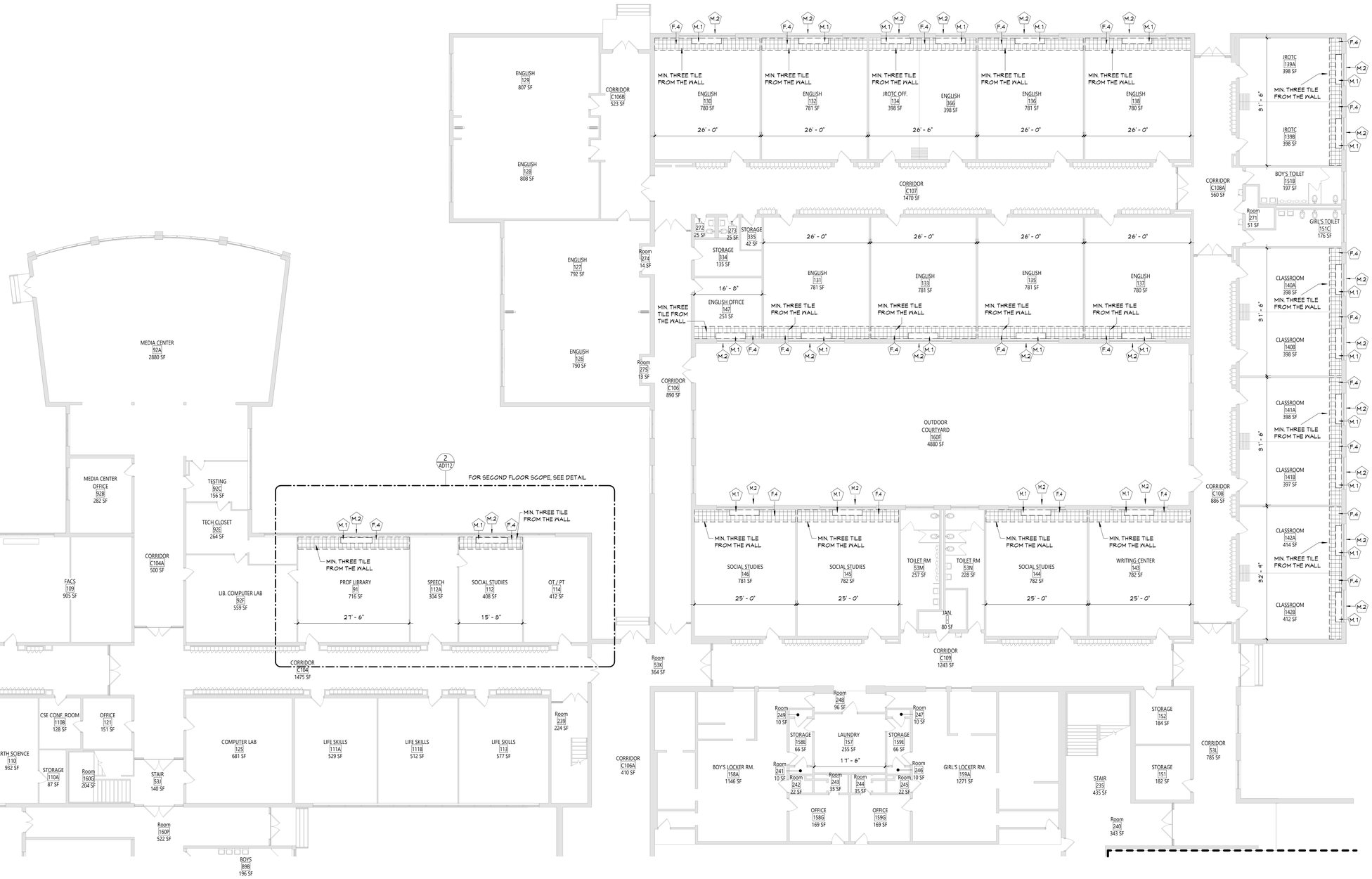
VCHS
AD111

CONSTRUCTION DOCUMENTS

C:\Users\jdmiller\Documents\187-2302.01 VCSD VCHS_jdmiller2613.rvt



2 SECOND FLOOR REMOVAL PLAN - AREA D
AD112 3/32" = 1'-0"



1 FIRST FLOOR REMOVAL PLAN - AREA C & D
AD112 3/32" = 1'-0"

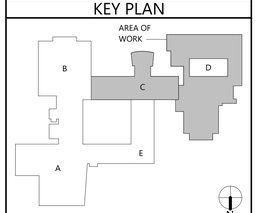
GENERAL NOTES

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.

DEMOLITION KEYNOTES

#	Description
F.4	REMOVE 3 ROWS OF VCT TILE FROM EXTERIOR WALL WITH THE REMOVAL OF UNIT VENTS.
F.6	PATCH TERRAZZO FLOORING.
M.1	UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
M.2	EXTERIOR WALL GRILL. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. · Newburgh · New York 12550-7601
845 · 561 · 3179 www.csarchpc.com

Consultant

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

REGISTERED ARCHITECT
JOHN M. WITZENBURG
022348
STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01.06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

FIRST FLOOR REMOVAL PLAN - AREA C & D

Sheet No.

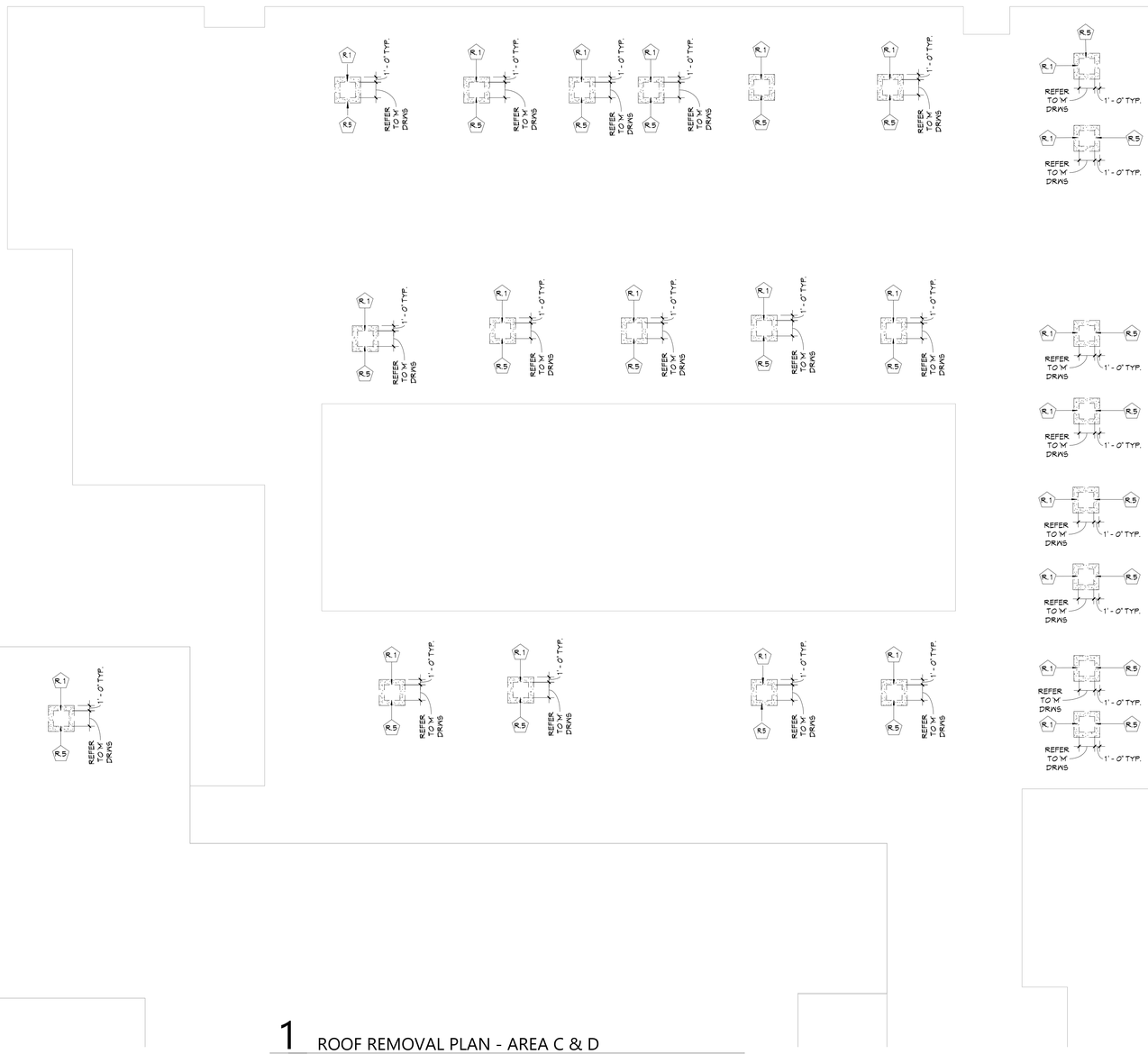
VCHS
AD112

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller303.rvt



2 AD401 ROOF REMOVAL PLAN - AREA A
3/32" = 1'-0"



1 AD401 ROOF REMOVAL PLAN - AREA C & D
3/32" = 1'-0"

ROOF GENERAL NOTES

1. CURB SIZES SHOWN REFLECT PENETRATING DUCT SIZE. CURB SIZE MAY VARY. REFER TO MECHANICAL DRAWINGS. COORDINATE ACTUAL SIZE OF CURBS IN APPROVED SUBMITTALS.

ROOF DESCRIPTIONS

ROOF AREA 'D' - EXISTING ROOF CONTRUCTION (TYPICAL)
1. EXISTING ROOF MEMBRANE
2. ROOF SYSTEMS, REFER TO MECHANICAL DRAWINGS

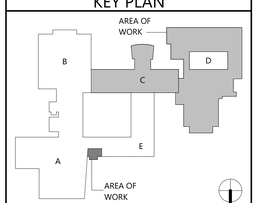
ROOF LEGEND

RD	ROOF DRAIN, REFER TO PLUMBING DRAWINGS
SD	SECONDARY DRAIN, REFER TO PLUMBING DRAWINGS
SC	ROOF SCUPPER
V	VENT PIPE, REFER TO PLUMBING DRAWINGS
	ROOF PENETRATIONS, REFER TO MECHANICAL DRAWINGS
AH	ROOF ACCESS HATCH
	INDICATES DIRECTION OF SLOPE AT 1/4" PER FOOT MINIMUM, UNO
	ROOF LADDER
EJ	EXPANSION JOINT

DEMOLITION KEYNOTES

#	Description
R.1	REMOVE PORTION OF EXISTING ROOF SYSTEM INCLUDING ROOF DECKING TO PROVIDE A NEW ROOF OPENING TO ACCOMMODATE MECHANICAL WORK. REFER TO MEP DRAWINGS.
R.5	REMOVE 12" MINIMUM OF EXISTING ROOFING SYSTEM AROUND THE PERIMETER OF NEW ROOF OPENING TO ACCOMMODATE MEP WORK.

KEY PLAN

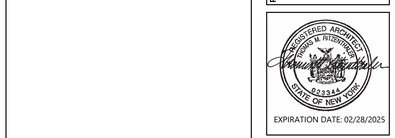


COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. · Newburgh · New York 12550-7601
845 · 561 · 3179 www.csarchpc.com
CSARCH

Consultant

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1



EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ROOF REMOVAL PLANS - AREA A, C, & D

Sheet No.
VCHS AD401

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller263.rvt



1 REFLECTED CEILING REMOVAL PLAN - AREA C & D
AD802 3/32" = 1'-0"

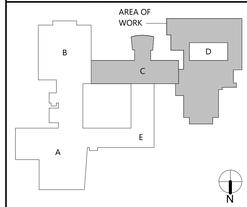
GENERAL NOTES

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.

DEMOLITION KEYNOTES

#	Description
G.1	REMOVE EXISTING SUSPENDED CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL HANGERS AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT REMOVALS.
E.1	LIGHTING. REFER TO ELECTRICAL DRAWINGS.
M.1	UNIT VENTILATOR. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEY PLAN



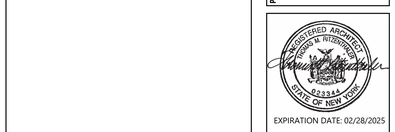
COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
CSARCH

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title



EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

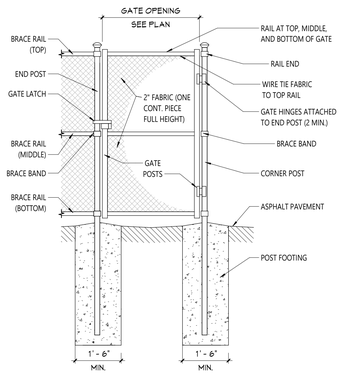
Sheet Title
REFLECTED CEILING REMOVAL PLAN - AREA C & D

Sheet No.
VCHS
AD802

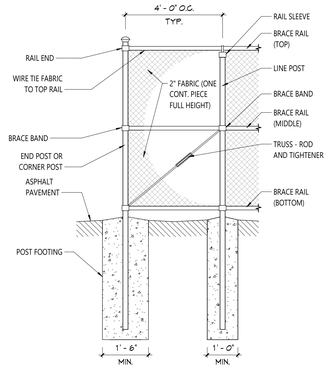
CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller393.rvt

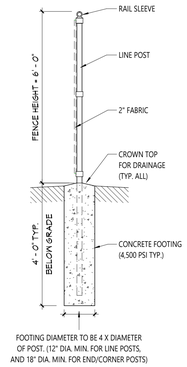
TYPICAL GATE AT END AND CORNER POSTS



TYPICAL END/CORNER POSTS AND LINE POSTS

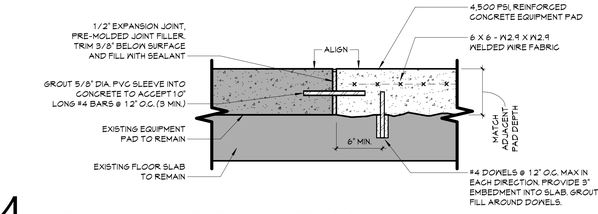


TYPICAL LINE POSTS AND FOUNDATIONS

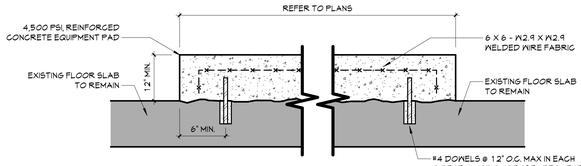


FOOTING DIAMETER TO BE 4 X DIAMETER OF POST, (12" DIA. MIN. FOR LINE POSTS, AND 18" DIA. MIN. FOR END/CORNER POSTS)

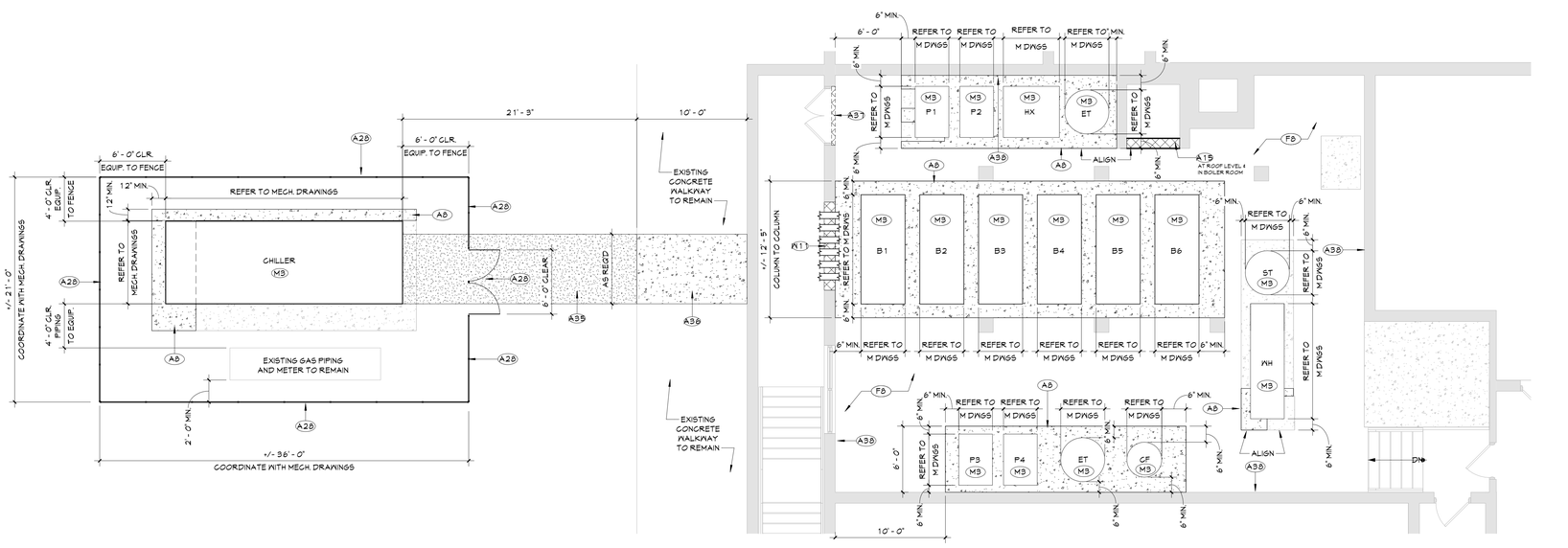
5 CHAIN LINK FENCING DETAILS
A101 1/2" = 1'-0"



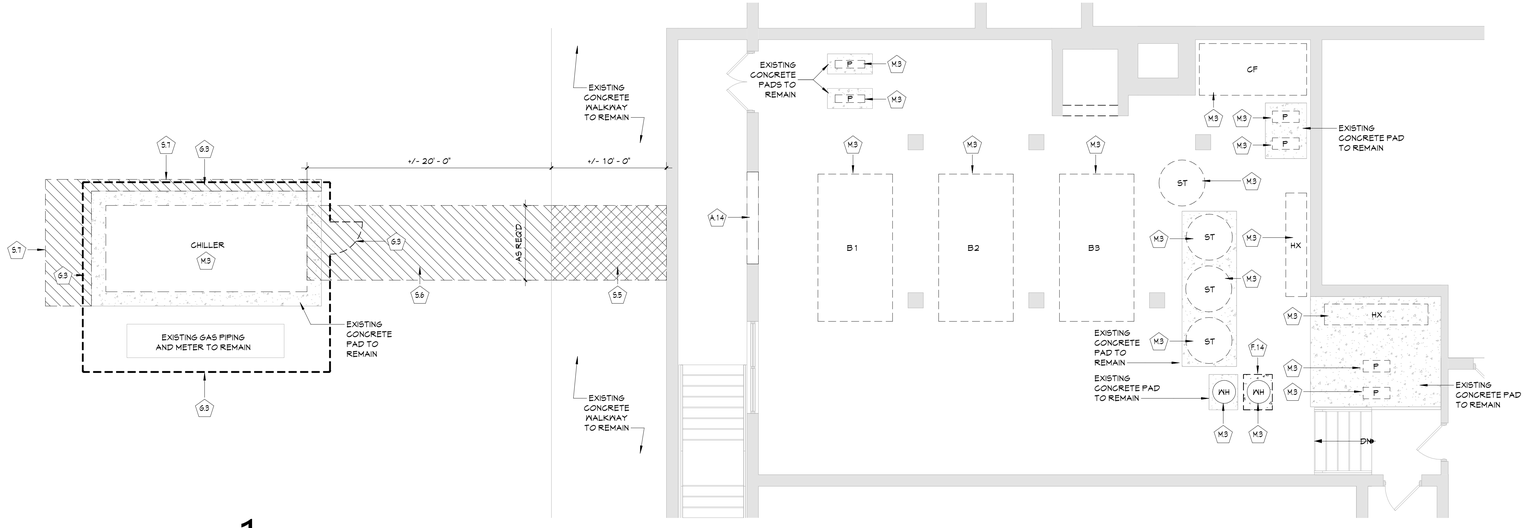
4 DETAIL - EQUIPMENT PAD EXTENSION
A101 1 1/2" = 1'-0"



3 DETAIL - CONCRETE EQUIPMENT PAD
A101 1 1/2" = 1'-0"



2 ENLARGED NEW WORK PLAN - BOILER ROOM
A101 3/16" = 1'-0"



1 ENLARGED DEMOLITION PLAN - BOILER ROOM
A101 3/16" = 1'-0"

C:\Users\dmiller\Documents\187-2302-01 VCSD VCHS_dmiller393.rvt

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
3. REFER TO SHEET G001 FOR PARTITION TYPES AND ADDITIONAL NOTES.

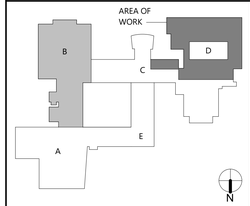
DEMOLITION KEYNOTES

#	Description
A.14	REMOVE EXISTING LOUVER.
F.14	REMOVE EXISTING CONCRETE EQUIPMENT PAD IN ITS ENTIRETY.
G.3	REMOVE CHAIN LINK FENCE IN ITS ENTIRETY FOR MEP RELATED WORK.
M.3	MECHANICAL UNIT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
S.5	REMOVE EXISTING CONCRETE WALKWAY TO NEAREST JOINT AS NEEDED TO PROVIDE TRENCHING FOR NEW PIPING/CONDUIT.
S.6	REMOVE PORTION OF EXISTING SITE AREA AS NEEDED TO PROVIDE TRENCING FOR NEW PIPING/CONDUIT.
S.7	REMOVE PORTION OF EXISTING SITE AREA AS NEEDED TO PROVIDE NEW CONCRETE EQUIPMENT PAD.

NEW WORK KEYNOTES

#	Description
A8	PROVIDE NEW CONCRETE EQUIPMENT PAD FOR MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL DRAWINGS.
A15	OPEN EXISTING CHIMNEY AND PROVIDE SHORING TO ACCOMMODATE MECHANICAL WORK. PATCH CHIMNEY AFTER MECHANICAL WORK IS COMPLETE.
A28	PROVIDE NEW CHAIN LINK FENCING AND GATE.
A35	PROVIDE SITE RESTORATION FOR AREA DISTURBED BY PIPING/CONDUIT TRENCHING WORK.
A36	PROVIDE CONCRETE WALKWAY PATCHING WHERE PREVIOUSLY DISTURBED BY PIPING/CONDUIT TRENCHING WORK.
A37	INFILL/PATCH LOUVER WITH INSULATED BLANK OFF PANEL.
A38	PAINT ALL WALLS IN ROOM.
F8	PROVIDE PAINTED FLOOR FINISH ON CONCRETE SLAB AND CONCRETE PADS.
M3	MECHANICAL EQUIPMENT. REFER TO MEP DRAWINGS.
W11	INFILL WALL AROUND NEW DUCT WORK WITH CMU WALL TO MATCH ADJACENT WALL. REFER TO MEP DRAWINGS.

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT WILLIAM M. WITKOWSKI 023345 STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

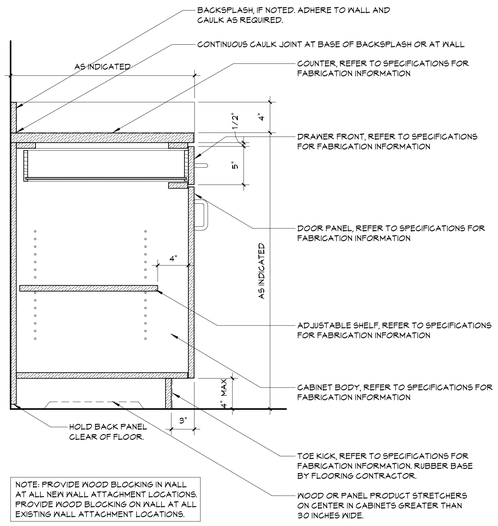
Sheet Title

BOILER ROOM PLANS AND DETAILS

Sheet No.

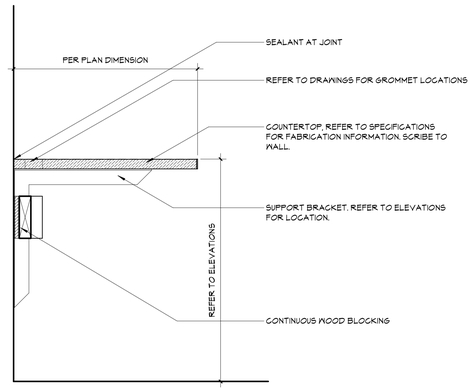
VCHS A101

CONSTRUCTION DOCUMENTS

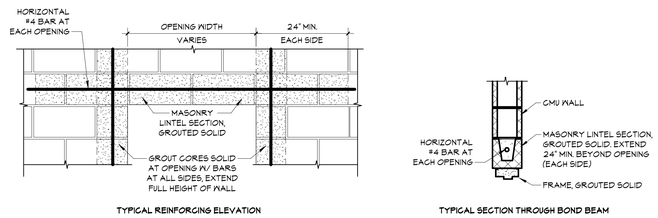


NOTE: PROVIDE WOOD BLOCKING IN WALL AT ALL NEW WALL ATTACHMENT LOCATIONS. PROVIDE WOOD BLOCKING ON WALL AT ALL EXISTING WALL ATTACHMENT LOCATIONS.

8 CASEWORK DETAIL
A111 1 1/2" = 1'-0"

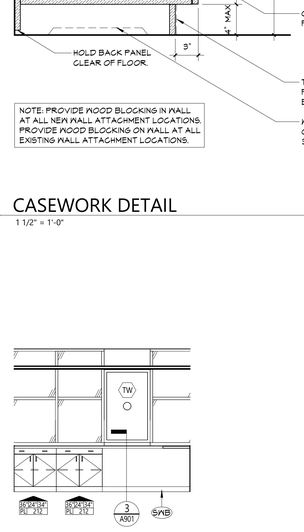


7 COUNTER DETAIL
A111 1 1/2" = 1'-0"

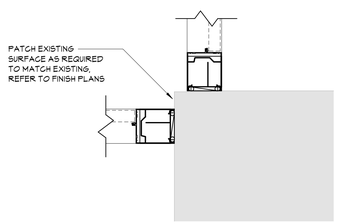


TYPICAL BOND BEAM LINTELS (NEW WALL ASSEMBLIES)

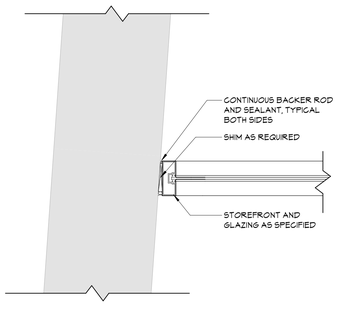
6 BOND BEAM LINTEL DETAILS
A111 3/4" = 1'-0"



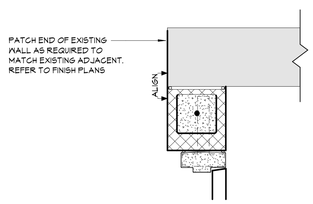
5 SECURITY OFFICE ELEVATION - EAST
A111 1/4" = 1'-0"



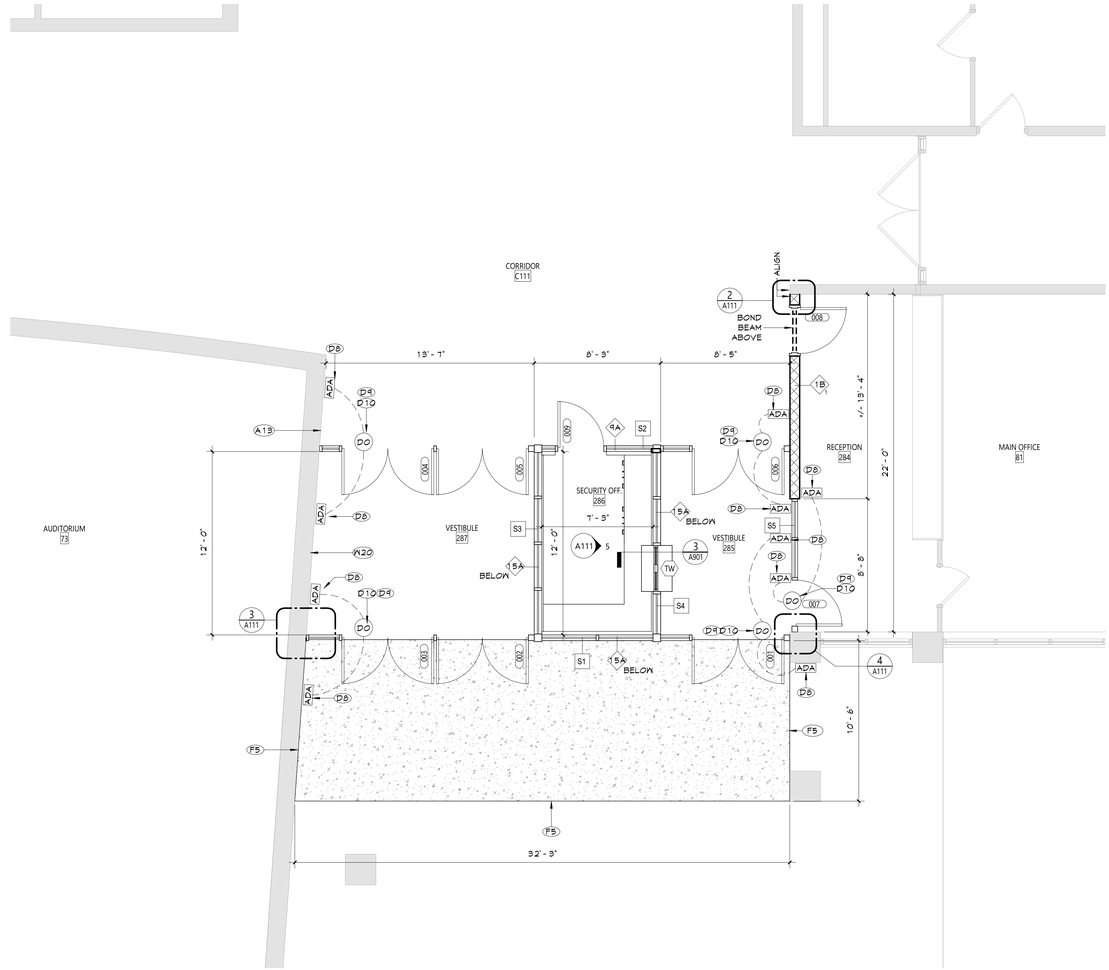
4 PLAN DETAIL
A111 1 1/2" = 1'-0"



3 PLAN DETAIL
A111 1 1/2" = 1'-0"

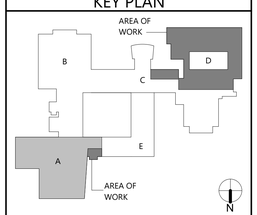


2 PLAN DETAIL
A111 1 1/2" = 1'-0"



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

KEY PLAN



GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
3. REFER TO SHEET G001 FOR PARTITION TYPES AND ADDITIONAL NOTES.

NEW WORK KEYNOTES

#	Description
A13	PATCH WALL TO MATCH WHERE MECHANICAL UNIT WAS PREVIOUSLY REMOVED.
D8	PROVIDE SPECIFIED ADA PADDLE SWITCH TIED INTO NEW RELAY AND CONNECTED TO DOOR OPERATOR AS INDICATED. COORDINATE WORK WITH DOOR HARDWARE AND SECURITY VENDOR.
D9	INSTALL POWER SUPPLY/POWER TRANSFER FOR ELECTRIFIED DOOR HARDWARE.
D10	PROVIDE SPECIFIED DOOR OPERATOR AND SPECIFIED SWING SENSOR TIED INTO NEW RELAY AND CONNECTED TO ADA PADDLE SWITCH AS INDICATED. COORDINATE WORK WITH DOOR HARDWARE AND SECURITY VENDOR.
F5	PROVIDE NEW CONCRETE SLAB WHERE PREVIOUSLY REMOVED.
SWB	SCHEDULED WALL BASE.
W20	REINSTALL SALVAGED PLAQUES IN NEW LOCATION. VERIFY LOCATION WITH OWNER.

19 Front St. · Newburgh · New York 12550-7601
845 · 561 · 3179 www.csarchpc.com
CSARCH

Consultant

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

REGISTERED ARCHITECT JOHN M. FITZSIMMONS 026334 STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	AL
Checked By:	EAB
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

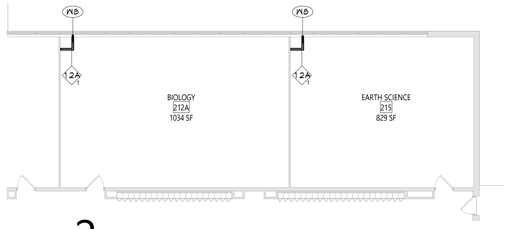
Sheet Title
ENLARGED VESTIBULE PLAN, SECTION AND DETAILS

Sheet No.
VCHS A111

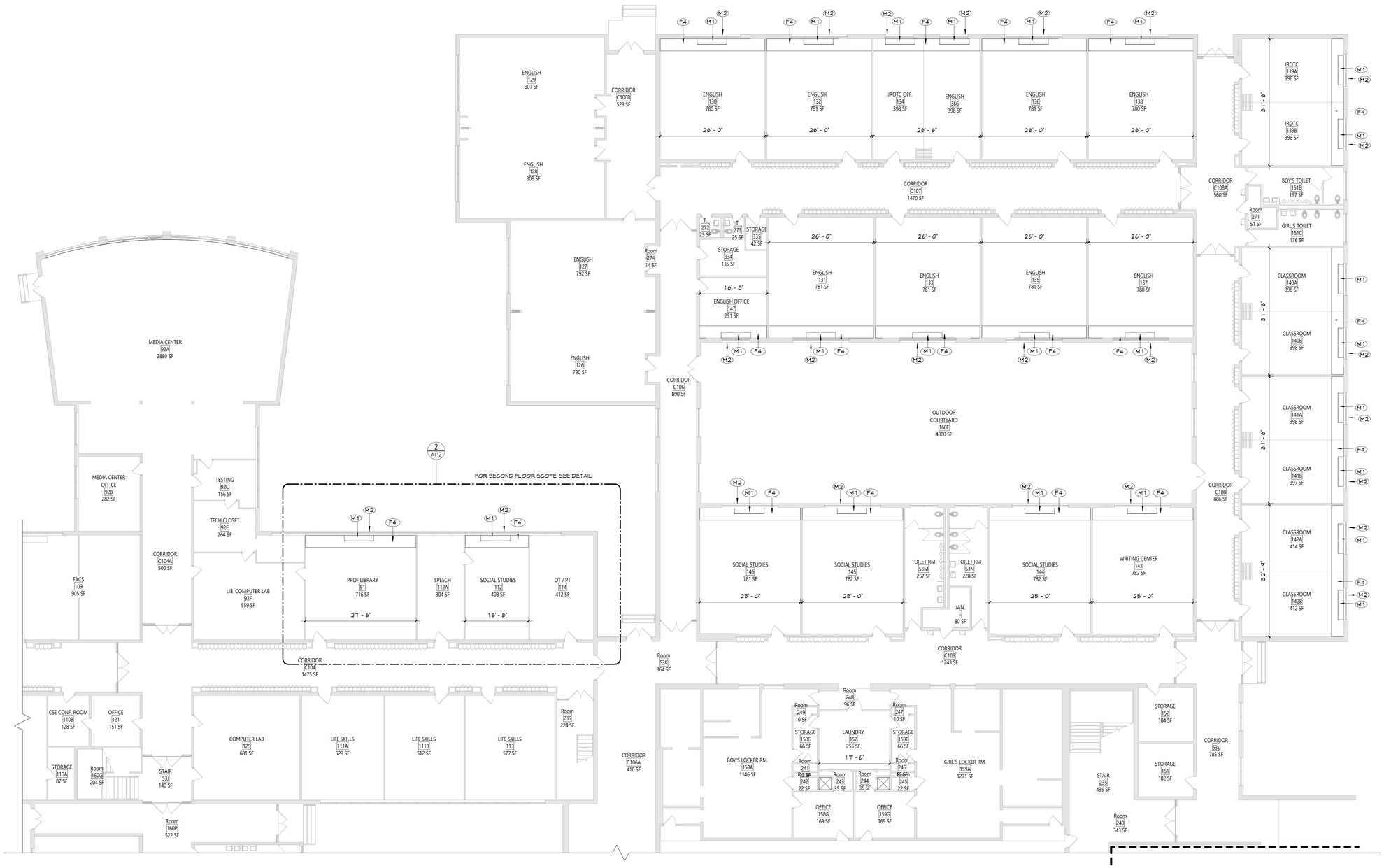
CONSTRUCTION DOCUMENTS

COPYRIGHT © ALL RIGHTS RESERVED

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller2803.rvt



2 AREA C - SECOND FLOOR PLAN
A112 3/32" = 1'-0"



1 AREA C & D - FIRST FLOOR NEW WORK PLAN
A112 3/32" = 1'-0"

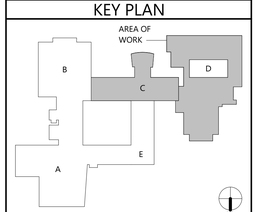
GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
3. REFER TO SHEET G001 FOR PARTITION TYPES AND ADDITIONAL NOTES.

NEW WORK KEYNOTES

#	Description
F4	PROVIDE NEW 12"X12" VCT FLOORING AND RUBBER WALL BASE WHERE FLOORING WAS PREVIOUSLY REMOVED.
M1	UNIT VENT. REFER TO MEP DRAWINGS.
M2	CONDENSING UNIT. REFER TO MEP DRAWINGS.
W8	PROVIDE NEW CHAIN LINK FABRIC FOR MECHANICAL EQUIPMENT."

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT
JOHN W. WITBRACHT
023345
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-032
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
AREA C & D - FIRST FLOOR NEW WORK PLAN

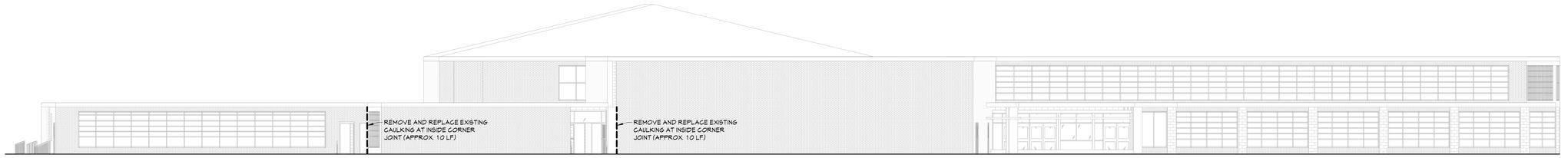
Sheet No.
VCHS
A112

CONSTRUCTION DOCUMENTS

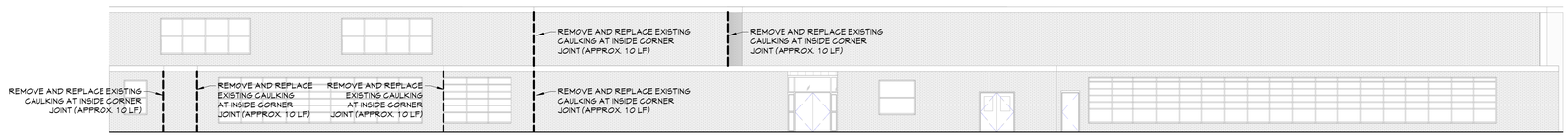
C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller903.rvt



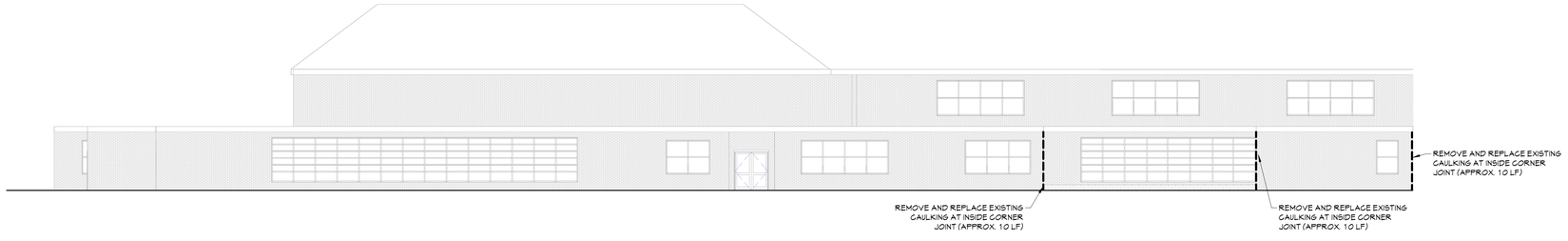
4 EXT ELEVATION - NORTH 2
A201 3/32" = 1'-0"



3 EXT ELEVATION - NORTH 1
A201 3/32" = 1'-0"



2 EXT ELEVATION - EAST 2
A201 3/32" = 1'-0"



1 EXT ELEVATION - EAST 1
A201 3/32" = 1'-0"

COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
CSARCH

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title



EXPIRATION DATE: 02/28/2025

#	DATE	DISCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

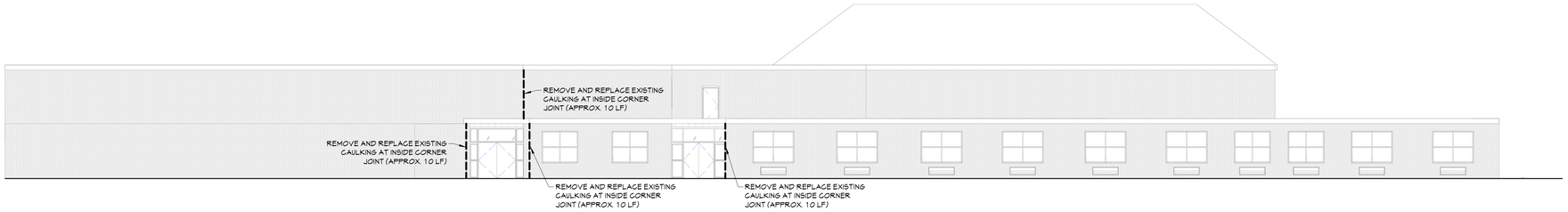
EXTERIOR ELEVATIONS

Sheet No.

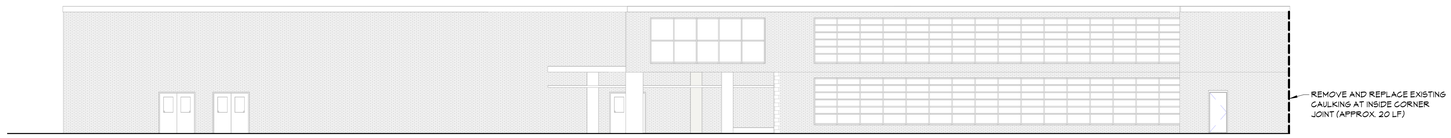
VCHS
A201

CONSTRUCTION DOCUMENTS

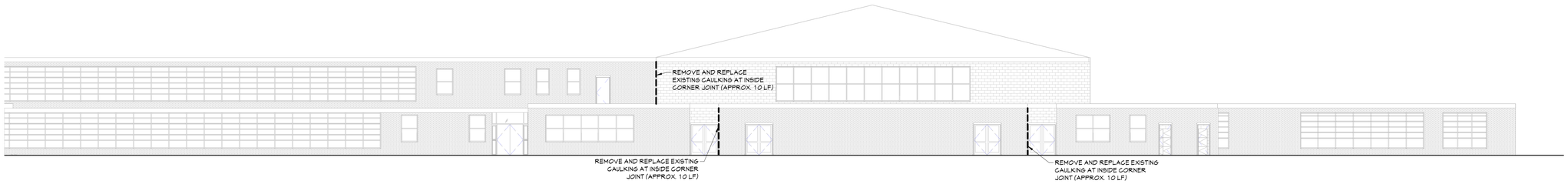
C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller303.rvt



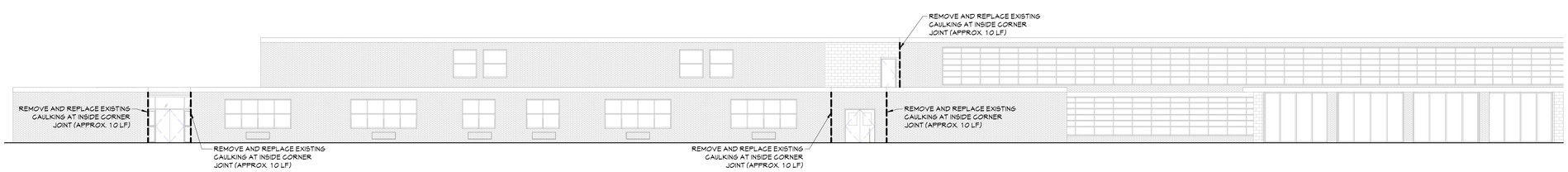
4 EXT ELEVATION - WEST 2
A202 3/32" = 1'-0"



3 EXT ELEVATION - WEST 1
A202 3/32" = 1'-0"



2 EXT ELEVATION - SOUTH 2
A202 3/32" = 1'-0"



1 EXT ELEVATION - SOUTH 1
A202 3/32" = 1'-0"

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT
JOSEPH M. FITZPATRICK
023348
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01.06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

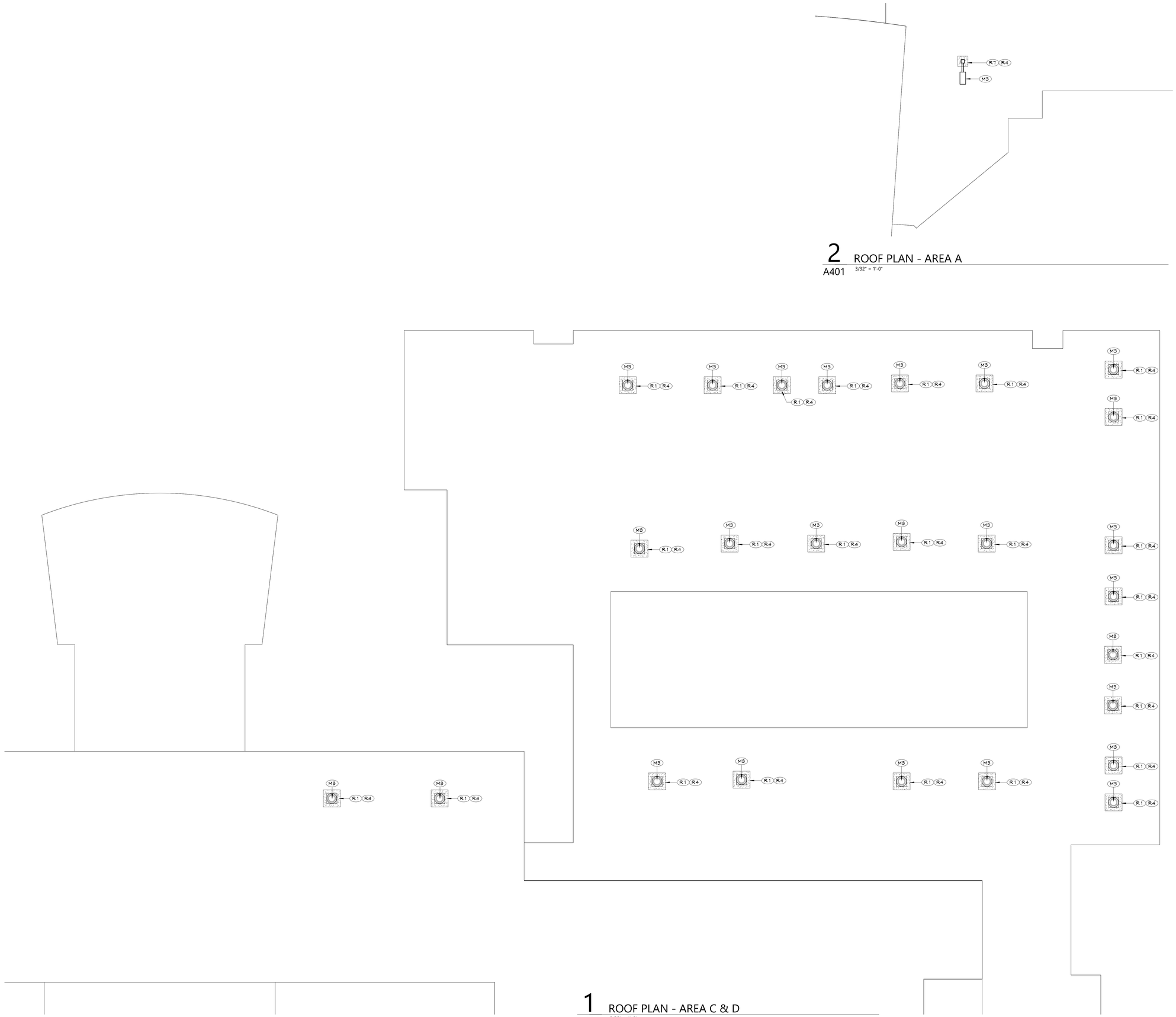
EXTERIOR ELEVATIONS

Sheet No.

VCHS
A202

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller303.rvt



2 ROOF PLAN - AREA A
A401 3/32" = 1'-0"

1 ROOF PLAN - AREA C & D
A401 3/32" = 1'-0"

ROOF GENERAL NOTES

1. CURB SIZES SHOWN REFLECT PENETRATING DUCT SIZE. CURB SIZE MAY VARY. REFER TO MECHANICAL DRAWINGS. COORDINATE ACTUAL SIZE OF CURBS IN APPROVED SUBMITTALS.

ROOF DESCRIPTIONS

ROOF AREA 'D' - EXISTING ROOF CONTRUCTION (TYPICAL)
1. EXISTING ROOF MEMBRANE
2. ROOF SYSTEMS, REFER TO MECHANICAL DRAWINGS

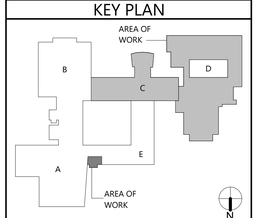
ROOF LEGEND

RD	ROOF DRAIN, REFER TO PLUMBING DRAWINGS
SD	SECONDARY DRAIN, REFER TO PLUMBING DRAWINGS
SC	ROOF SCUPPER
V	VENT PIPE, REFER TO PLUMBING DRAWINGS
	ROOF PENETRATIONS, REFER TO MECHANICAL DRAWINGS
AH	ROOF ACCESS HATCH
	INDICATES DIRECTION OF SLOPE AT 1/4" PER FOOT MINIMUM, UNO
	ROOF LADDER
EJ	EXPANSION JOINT

NEW WORK KEYNOTES

#	Description
M3	MECHANICAL EQUIPMENT, REFER TO MEP DRAWINGS.
R1	PROVIDE ROOF FLASHING AROUND NEW EQUIPMENT CURB.
R4	PROVIDE 12" MINIMUM OF NEW ROOFING SYSTEM AROUND THE PERIMETER OF NEW ROOF EQUIPMENT.
R7	PROVIDE PIPE PORTAL

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

REGISTERED ARCHITECT
ANDREW M. RITZENBERG
022344
STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ROOF PLANS - AREA A, C, & D

Sheet No.
VCHS
A401

CONSTRUCTION DOCUMENTS

C:\Users\jdmiller\Documents\187-2302.01 VCSD VCHS_dmiller393.rvt



1 REFLECTED CEILING PLAN - VESTIBULE
A801 1/8" = 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.

CEILING LEGEND

- GWB OR PLASTER CEILING, REFER TO DETAILS AND ROOM FINISH SCHEDULE
- SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- +X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR

ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- 2'x4' LIGHT FIXTURE
- 2'x2' LIGHT FIXTURE
- 1'x LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- RECESSED DOWN LIGHT
- CEILING MOUNTED EXIT SIGN
- DS CEILING MOUNTED OCCUPANCY SENSOR
- S CEILING MOUNTED SMOKE DETECTOR
- H CEILING MOUNTED HEAT DETECTOR
- S CEILING MOUNTED PA SPEAKER
- J CEILING MOUNTED SECURITY J-BOX
- MS CEILING MOUNTED MOTION SENSOR
- CEILING MOUNTED DATA J-BOX

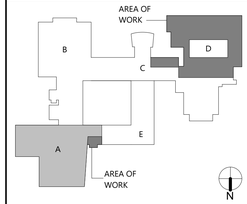
MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE

NEW WORK KEYNOTES

#	Description
C1	PROVIDE SUSPENDED APC TILE CEILING.
C10	MODIFY EXISTING SUSPENDED CEILING SYSTEM AS NEEDED TO ACCOMMODATE NEW WORK.
C18	REMOVE EXISTING SOFFIT SYSTEM TO EXTENT INDICATED AND REPLACE IN-KIND WITH NEW METAL SOFFIT PANELS. COORDINATE WORK WITH ELECTRICAL DRAWINGS.
E1	LIGHTING;REFER TO ELECTRICAL DRAWINGS.

KEY PLAN



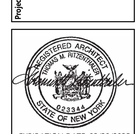
COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title



EXPIRATION DATE: 02/28/2025

#	DATE	DISCRIPTION

Drawn By:	AL
Checked By:	EAB
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
REFLECTED CEILING PLAN & CEILING DETAIL- AREA A

Sheet No.
VCHS
A801

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller303.rvt



1 REFLECTED CEILING PLAN - AREA C & D
A802 3/32" = 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.

CEILING LEGEND

- GWB OR PLASTER CEILING, REFER TO DETAILS AND ROOM FINISH SCHEDULE
- SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- +X'-X" CEILING HEIGHT ABOVE FINISHED FLOOR

ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- 2'x4' LIGHT FIXTURE
- 2'x2' LIGHT FIXTURE
- 1'x LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- RECESSED DOWN LIGHT
- CEILING MOUNTED EXIT SIGN
- OS CEILING MOUNTED OCCUPANCY SENSOR
- S CEILING MOUNTED SMOKE DETECTOR
- H CEILING MOUNTED HEAT DETECTOR
- S CEILING MOUNTED PA SPEAKER
- J CEILING MOUNTED SECURITY J-BOX
- MS CEILING MOUNTED MOTION SENSOR
- CEILING MOUNTED DATA J-BOX

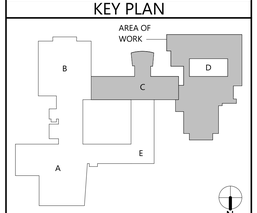
MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE

NEW WORK KEYNOTES

#	Description
C1	PROVIDE SUSPENDED APC TILE CEILING.
C3	PROVIDE NEW SOFFIT TO MATCH PREVIOUS SIZE.
E1	LIGHTING REFER TO ELECTRICAL DRAWINGS.
W7	PROVIDE INSULATION IN EXISTING WALL GRILL TO CLOSE OFF."

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT
JOHN M. FITZPATRICK
023348
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

FIRST FLOOR REFLECTED CEILING PLAN - AREA C & D

Sheet No.

VCHS A802

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller303.rvt

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR		Wall Finish	Accent_Wall	CEILING	Comments
		FINISH	BASE				
91	PROF LIBRARY	ETR/VCT-1	RB-1	ETR			
112	SOCIAL STUDIES	ETR/VCT-1	RB-1	ETR			
130	ENGLISH	ETR/VCT-1	RB-1	ETR			
131	ENGLISH	ETR/VCT-1	RB-1	ETR			
132	ENGLISH	ETR/VCT-1	RB-1	ETR			
133	ENGLISH	ETR/VCT-1	RB-1	ETR			
134	JROTC OFF.	ETR/VCT-1	RB-1	ETR			
135	ENGLISH	ETR/VCT-1	RB-1	ETR			
136	ENGLISH	ETR/VCT-1	RB-1	ETR			
137	ENGLISH	ETR/VCT-1	RB-1	ETR			
138	ENGLISH	ETR/VCT-1	RB-1	ETR			
139A	JROTC	ETR/VCT-1	RB-1	ETR			
139B	JROTC	ETR/VCT-1	RB-1	ETR			
140A	CLASSROOM	ETR/VCT-1	RB-1	ETR			
140B	CLASSROOM	ETR/VCT-1	RB-1	ETR			
141A	CLASSROOM	ETR/VCT-1	RB-1	ETR			
141B	CLASSROOM	ETR/VCT-1	RB-1	ETR			
142A	CLASSROOM	ETR/VCT-1	RB-1	ETR			
142B	CLASSROOM	ETR/VCT-1	RB-1	ETR			
143	WRITING CENTER	ETR/VCT-1	RB-1	ETR			
144	SOCIAL STUDIES	ETR/VCT-1	RB-1	ETR			
145	SOCIAL STUDIES	ETR/VCT-1	RB-1	ETR			
146	SOCIAL STUDIES	ETR/VCT-1	RB-1	ETR			
284	Room	ETR	RB-1	PNT-1			
285	VEST.	ETR	RB-1	PNT-1			
366	ENGLISH	ETR/VCT-1	RB-1	ETR			

MATERIALS LEGEND

MATERIAL	MANUFACTURER	MODEL	COLOR #/NAME	Material URL	SIZE	NOTE
PAINT						
PNT-1	SHERWIN WILLIAMS	EG-SHELL	MATCH EXISTING			GENERAL WALL PAINT
PNT-2	SHERWIN WILLIAMS	SEMI-GLOSS				HM DOOR PAINT
PLASTIC LAMINATE						
PLAM-1	WILSONART	LAMINATE				CASEWORK
RUBBER BASE						
RB-1	TARKETT		MATCH EXISTING		6"	TYP.
VINYL COMPOSITION TILE						
VCT-1	ARMSTRONG	STANDARD EXCELON	MATCH EXISTING		12" X 12"	TYP. FEILD

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.

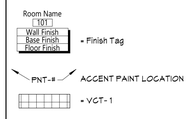
ABBREVIATIONS

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
VNC	VINYL WALLGOVERING
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. ALL EXPOSED GROUND FACE CMU LOCATIONS TO RECEIVE GRAFFITIT COATING, TYPICAL FOR INTERIOR LOCATIONS.

FINISH KEYS



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh - New York 12550-7601
845-561-3179 www.csarchpc.com

Consultant

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1



EXPIRATION DATE: 02/28/2025

#	DATE	DISCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

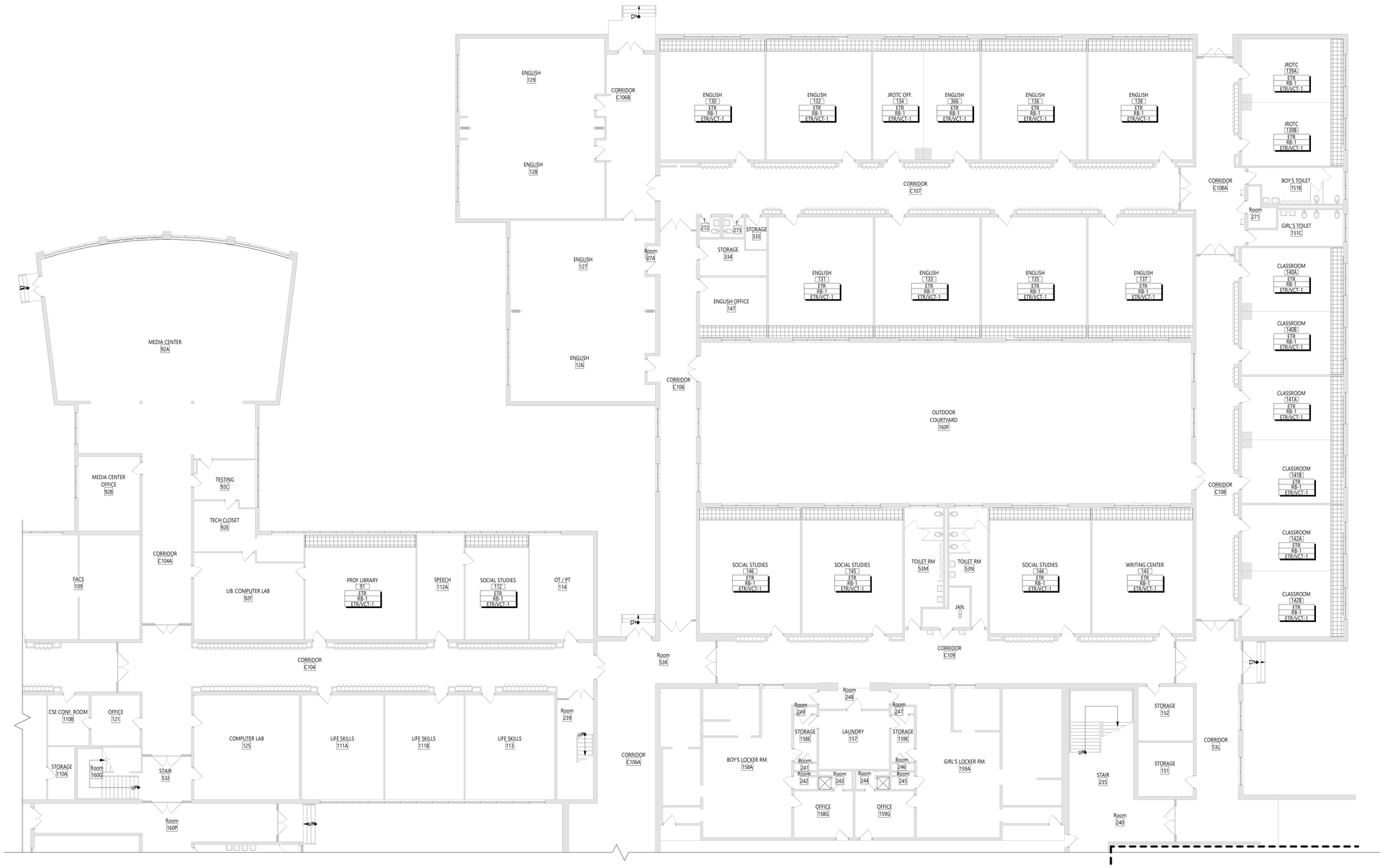
MATERIAL SCHEDULE

Sheet No.

VCHS AF001

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD_VCHS_dmiller303.rvt



1 AREA C & D - FIRST FLOOR FINISHES PLAN
AF112 3/32" = 1'-0"

DISCLAIMER NOTE

MANUFACTURER'S NAMES AND FINISH INFORMATION ARE INDICATED AS REFERENCED TO THE ARCHITECTS 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
VNG	VINYL WALLGOVERING
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. ALL EXPOSED GROUND FACE CMU LOCATIONS TO RECEIVE GRAFFITIT COATING, TYPICAL FOR INTERIOR LOCATIONS.

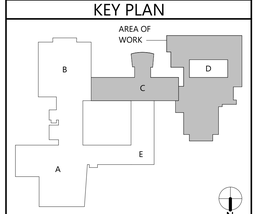
FINISH KEYS

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

PNT-# ACCENT PAINT LOCATION

- VCT-1

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. · Newburgh · New York 12550-7601
845 · 561 · 3179 www.csarchpc.com

Consultant

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT
CHRISTOPHER M. WITHERSPOON
022345
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

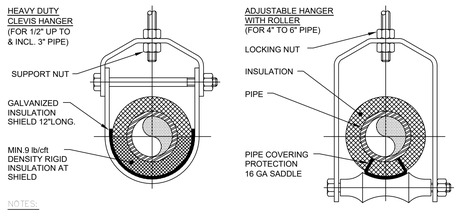
AREA C & D - FLOOR FINISHES PLAN

Sheet No.

VCHS AF112

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD VCHS_dmiller903.rvt



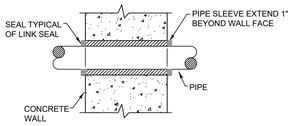
NOTES:

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.

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

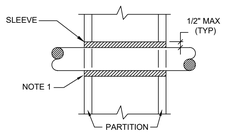
1 / P001 Pipe Hanger Support

N.T.S.



2 / P001 Exterior Wall Pipe Penetrations

N.T.S.



NOTES:

1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.
2. 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
GV GV	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
C.O.	CLEANOUT
W.C.O.	WALL CLEANOUT
F.C.O.	FLOOR CLEANOUT
C.O.T.G.	CLEANOUT TO GRADE
D.C.O.T.G.	DOUBLE CLEANOUT TO GRADE
P-X	PLUMBING FIXTURE MARK

Plumbing Notes:

1. 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.
2. 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.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
4. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. ALL EXPOSED PIPING, FITTINGS, TRAPS, ESCUTCHEONS, VALVES, ETC. SHALL BE CHROME PLATED.
11. 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.
12. 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.
13. PROVIDE EXPOSED PIPING WITH CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREW WHERE PENETRATING FLOORS, CEILINGS, WALLS OR PARTITIONS.
14. 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.
    - 14.1. WATER & GAS PIPING TO BE AIR-PRESSURE TESTED TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE.
    - 14.2. DRAINAGE, WASTE & VENT PIPING TO BE TESTED BY FILLING THE SYSTEM WITH WATER TO 10-FEET ABOVE HIGHEST POINT.
15. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
16. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
17. INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM.
18. 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.
19. 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.
20. 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.

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 . 561 . 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING
845-565-1100 WWW.BLAKEENGINEERING.COM

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
089039
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

PLUMBING NOTES, SCHEDULE, LEGEND & DETAILS

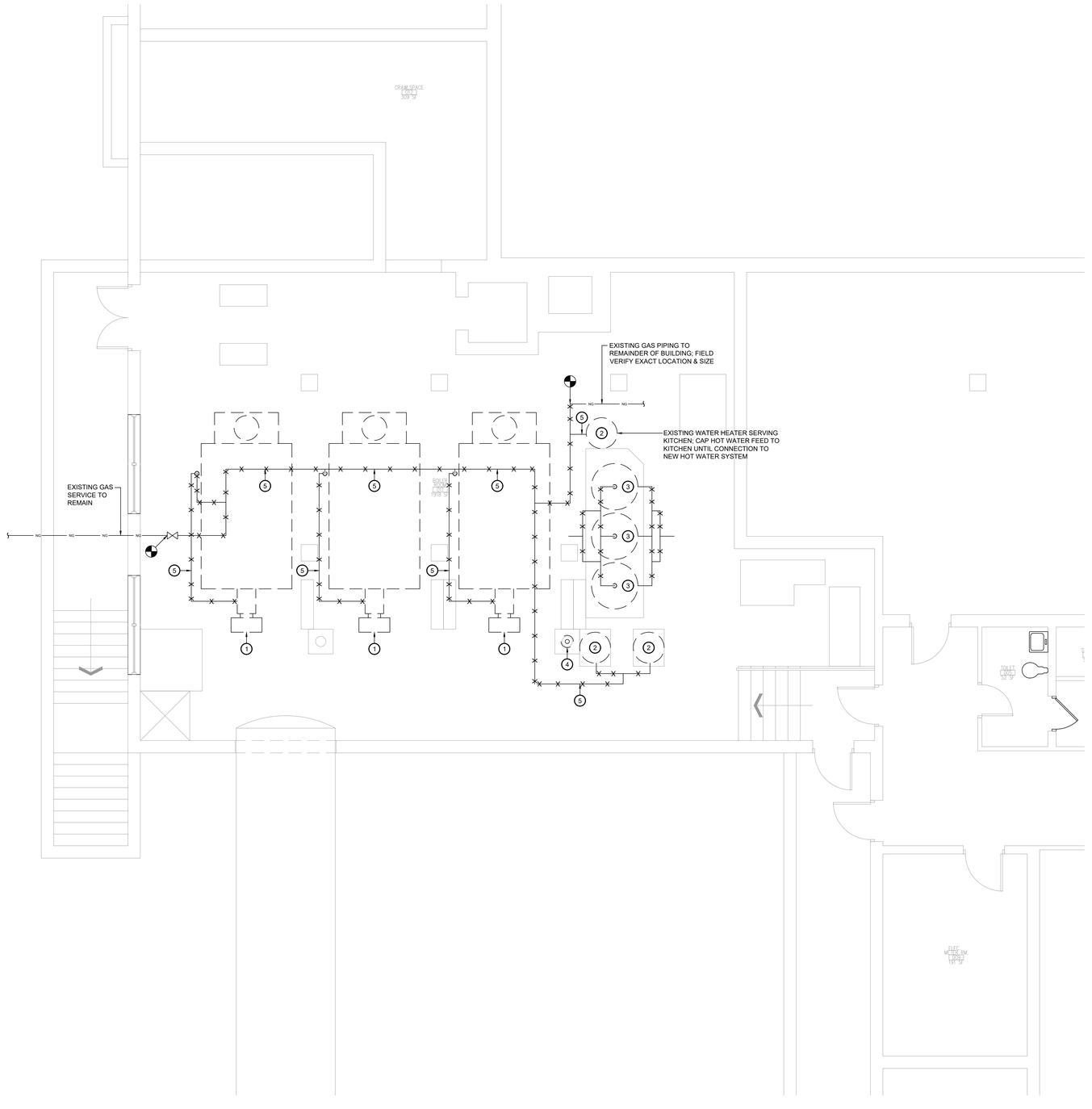
Sheet No.

VCHS P001

CONSTRUCTION DOCUMENTS

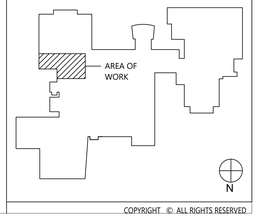
Key Notes:

1. EXISTING STEAM BOILER TO BE REMOVED BY MECHANICAL CONTRACTOR
2. EXISTING GAS FIRED DOMESTIC WATER HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, VENTING, HANGERS, SUPPORTS, ACCESSORIES, ETC.
3. EXISTING DOMESTIC WATER STORAGE TANK TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.
4. EXISTING EYEWASH STATION TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.
5. EXISTING NATURAL GAS PIPING TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED VALVES, REGULATORS, HANGERS, SUPPORTS, ACCESSORIES, ETC.



1 PD301 Boiler Room Plumbing Demolition Plan
Scale: 1/4" = 1'-0"

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING ENGINEERS

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

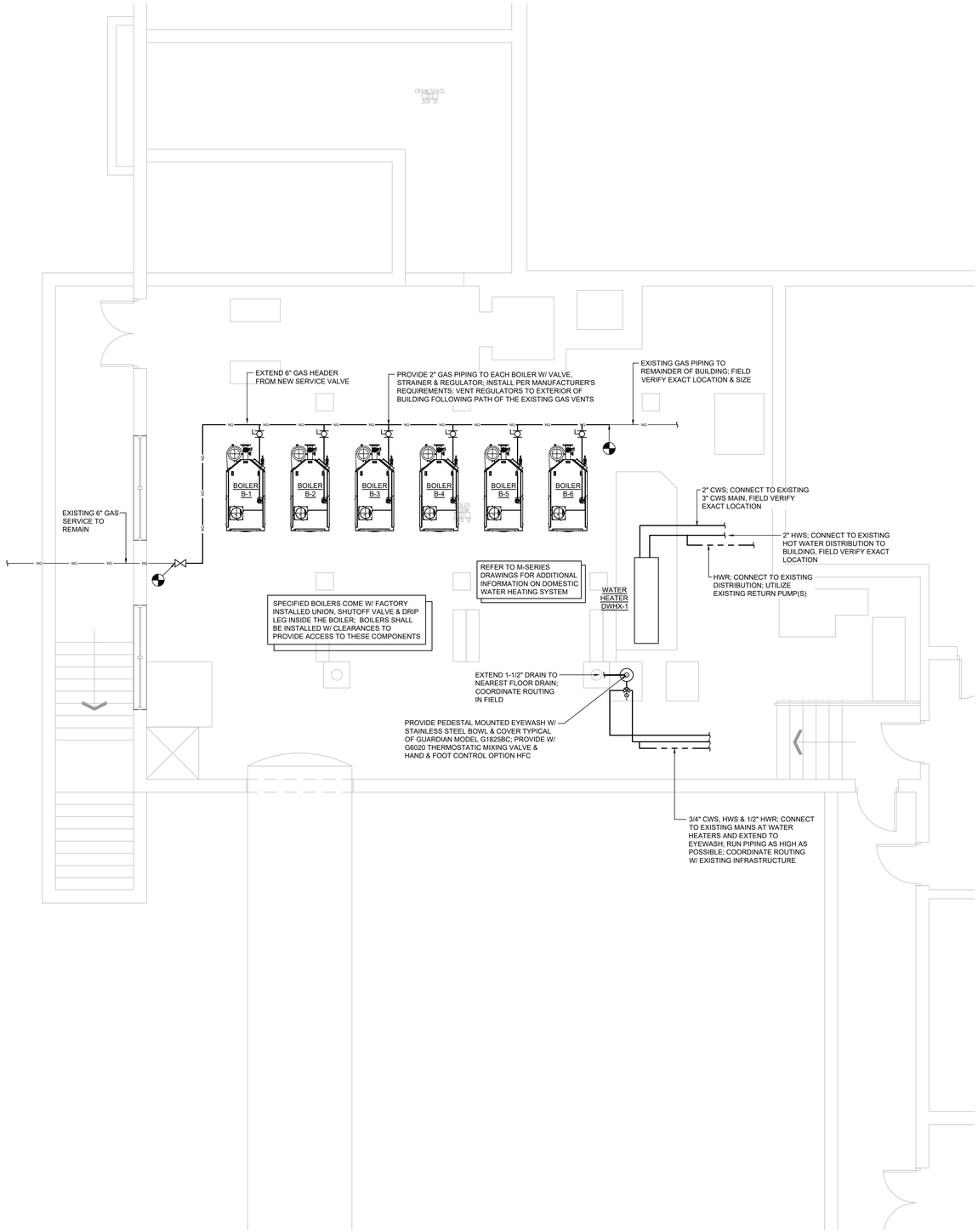
#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
BOILER ROOM PLUMBING DEMOLITION PLAN

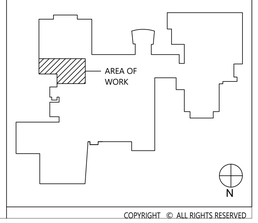
Sheet No.
VCHS PD301

CONSTRUCTION DOCUMENTS



1 / P301 Plumbing Plan
Scale: 1/4" = 1'-0"

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING
845-527-0800 FAX 845-527-0808 WWW.BLAKEENGINEERING.COM

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
089039
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
PLUMBING PLAN

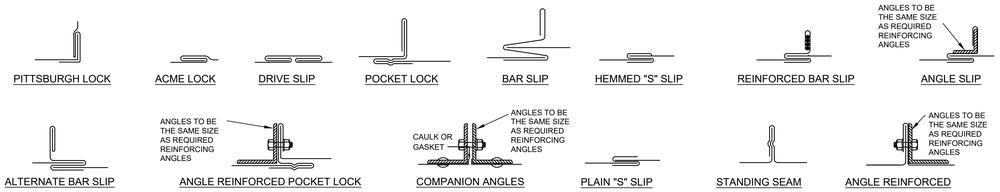
Sheet No.
VCHS P301

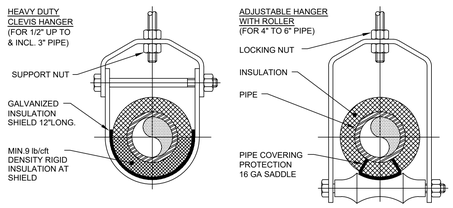
CONSTRUCTION DOCUMENTS

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 18"	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 18" 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"X1/8" ANGLES ON 2'-0" CENTERS. SIDES UNDER 60" NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"X 1 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" COMPANOIN ANGLES, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	1 1/2" COMPANOIN 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 61" THRU 84" REINFORCE WITH 1 1/2"X1 1/2"X1/8" ANGLES ON 2'-0" CENTERS. SIDES 60" OR LESS NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"X 1 1/2"X1/8" ANGLES ON 4'-0" CENTERS.
OVER 96"	18	16(0.051") (LONGITUDINAL SEAM MAY BE STANDING SEAM)	PITTSBURGH LOCK	2" COMPANOIN 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 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.

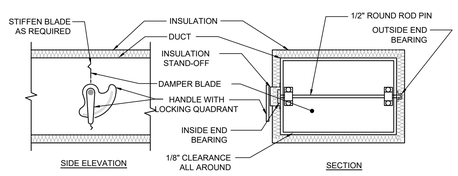




NOTES:
1. PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
2. FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

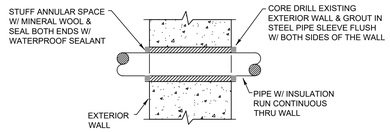
PIPE Ø (IN.)	MAX. SPACING BETWEEN HANGERS (FT.)			MIN. ROD SIZE (IN.)
	STEEL PIPE	COPPER PIPE	CPVC	
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

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

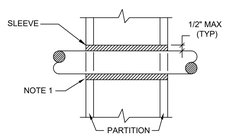


NOTE:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE-BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

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

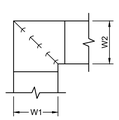


3 M101 **Exterior / Concrete Wall Pipe Penetration Detail**
N.T.S.



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

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



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

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

General Symbols:

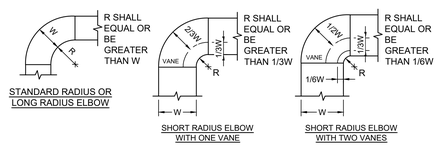
- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- ANCHOR
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- PIPE UP
- PIPE DOWN
- INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES 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 (AV)
- MANUAL AIR VENT (MV)
- 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)

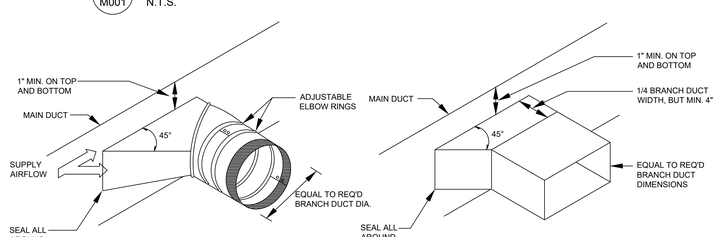
Mechanical Legend :

- UP / DN — SUPPLY DUCT (UP & DOWN)
- UP / DN — EXHAUST DUCT (UP & DOWN)
- UP / DN — 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
- 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
- 45° SUPPLY — STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
- 45° RETURN
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS 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
- X"xX" — NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
- FLEXIBLE DUCTWORK (INSULATED)
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER
- FSD — COMBINATION FIRE SMOKE DAMPER
- S — DUCT SMOKE DETECTOR
- X / X — TERMINAL UNIT TAG; AIRFLOW (CUBIC FEET PER MINUTE)



NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

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



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

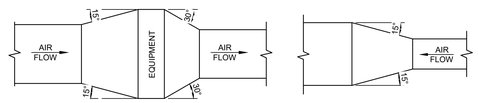
Mechanical Notes:

1. 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.
2. 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.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
6. 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.
7. 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.
8. 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.
9. 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.
10. ALL PIPING SHALL BE PITCHED SUCH THAT AIR IN THE SYSTEM CAN BE VENTED THROUGH MANUAL AIR VENTS.
11. 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.
12. SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
13. INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. INSTALL TURNING VANES ON ALL RECTANGULAR TURNS. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED IN ACCORDANCE WITH SMACNA MANUAL.
21. 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.
22. 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.
23. THE ENTIRE AIR DISTRIBUTION SYSTEM IS TO BE BALANCED TO WITHIN 10% OF THE SPECIFIED AIRFLOW REQUIREMENTS.
24. 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.
25. 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.
26. 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:

T — WIRED THERMOSTAT COMPATIBLE WITH EXISTING BUILDING AUTOMATION SYSTEM; MOUNT 5'-0" A.F.F. IN LOCATIONS SHOWN ON PLANS

T1 — THERMOSTAT PROVIDED BY OWNER, INSTALLED BY CONTRACTOR; MOUNT 5'-0" A.F.F. IN LOCATIONS SHOWN ON PLANS



TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT
PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION
PLAN OR SIDE VIEW

NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

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

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 561 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING
845.565.1100 | BLAKEENGINEERING.COM

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title



#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
MECHANICAL NOTES, LEGEND, SCHEDULE & DETAILS

Sheet No.
VCHS M001

CONSTRUCTION DOCUMENTS

UNIT VENTILATOR SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AREA OF BUILDING SERVED	TOTAL SUPPLY AIRFLOW (CFM)	OUTSIDE AIR SUPPLIED (CFM)	HEATING COIL DATA							COOLING COIL DATA							ELECTRICAL DATA									TOTAL WEIGHT (LB)	NOTES
						EFT (°F)	LFT (°F)	CAPACITY (MBH)	E.A.T. DB (°F)	L.A.T. DB (°F)	FPD (FT)	FLOW RATE (GPM)	EFT (°F)	LFT (°F)	CAPACITY (MBH)	E.A.T. DB (°F)	L.A.T. DB (°F)	FPD (FT)	FLOW RATE (GPM)	BLOWER MOTOR			UNIT POWER								
																				TYPE	HP	RPM	VOLT.	PHASE	Hz.	MCA	MOCP		
UV-91	TRANE	VUVE1250	CLASSROOM 91	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-112	TRANE	VUVE1250	CLASSROOM 112	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-130	TRANE	VUVE1250	CLASSROOM 130	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-131	TRANE	VUVE1250	CLASSROOM 131	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-132	TRANE	VUVE1250	CLASSROOM 132	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-133	TRANE	VUVE1250	CLASSROOM 133	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-134A	TRANE	VUVE750	CLASSROOM 134A	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-134B	TRANE	VUVE750	CLASSROOM 134B	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-135	TRANE	VUVE1250	CLASSROOM 135	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-136	TRANE	VUVE1250	CLASSROOM 136	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-137	TRANE	VUVE1250	CLASSROOM 137	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-138	TRANE	VUVE1250	CLASSROOM 138	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-139A	TRANE	VUVE750	CLASSROOM 139A	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-139B	TRANE	VUVE750	CLASSROOM 139B	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-140A	TRANE	VUVE750	CLASSROOM 140A	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-140B	TRANE	VUVE750	CLASSROOM 140B	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-141A	TRANE	VUVE750	CLASSROOM 141A	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-141B	TRANE	VUVE750	CLASSROOM 141B	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-142A	TRANE	VUVE750	CLASSROOM 142A	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-142B	TRANE	VUVE750	CLASSROOM 142B	750	225	180	147.57	44.76	40	95	2.58	2.72	45	54.05	24.19	78	57.51	2.39	4.89	VAR. SPEED ECM	1/4	-	115	1	60	4.5	15	320	1-5
UV-143	TRANE	VUVE1250	CLASSROOM 143	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-144	TRANE	VUVE1250	CLASSROOM 144	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-145	TRANE	VUVE1250	CLASSROOM 145	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-146	TRANE	VUVE1250	CLASSROOM 146	1,250	450	180	141.03	74.61	40	95	6.88	3.78	44	54.05	37.63	78	57.80	4.23	7.9	VAR. SPEED ECM	1/4	-	115	1	60	9	15	450	1-5
UV-158	TRANE	HUVE1500	BOYS LOCKER ROOM	1,500	650	180	140	90.61	40	95.66	10.74	4.53	44	54	55.85	78	55.56	8.49	11.59	VAR. SPEED ECM	1/4	-	115	1	60	9	15	675	1-5
UV-159	TRANE	HUVE1500	GIRLS LOCKER ROOM	1,500	650	180	140	90.61	40	95.66	10.74	4.53	44	54	55.85	78	55.56	8.49	11.59	SPEED ECM	1/4	-	115	1	60	9	15	675	1-5

1. ELECTRICAL CONNECTION TO BE SINGLE POINT
2. FURNISH WITH FACTORY INSTALLED DISCONNECT SWITCH
3. PROVIDE WITH HOT WATER CONTROL VALVE
4. FURNISH & INSTALL 2" MERV-13 FILTERS
5. PROVIDE WITH FULL ADAPTER BACK WITH CLOSED PIPE TUNNEL

UNIT VENTILATORS, CABINET HEATERS, SPLIT SYSTEM & CHILLER 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

CABINET UNIT HEATER SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	FLUID TYPE	EWT (°F)	LWT (°F)	FLOW RATE (GPM)	PRESSURE DROP (FT HD)	HEATING CAPACITY (MBH)	AIRFLOW (CFM)	ELECTRICAL POWER REQUIREMENTS					WEIGHT (LB)	NOTES
										VOLT.	PHASE	Hz.	MCA	MOCP		
CUH-1	TRANE	FFEB030	HOT WATER	180	160	3.5	0.96	35.3	300	120	1	60	0.45	15	121	HORIZONTAL RECESSED UNIT; BOTTOM STAMPED LOUVER SUPPLY & RETURN; UNITS FURNISHED W/ DISCONNECT SWITCH, 1" FILTER, SYMBIO 400-B CONTROLLER, DELUXE PIPING PACKAGE, 2-WAY MODULATING CONTROL VALVE
CUH-2	TRANE	FFEB030	HOT WATER	180	160	3.5	0.96	35.3	300	120	1	60	0.45	15	121	HORIZONTAL RECESSED UNIT; BOTTOM STAMPED LOUVER SUPPLY & RETURN; UNITS FURNISHED W/ DISCONNECT SWITCH, 1" FILTER, SYMBIO 400-B CONTROLLER, DELUXE PIPING PACKAGE, 2-WAY MODULATING CONTROL VALVE

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.	MCA		
FCU-1	TRANE	NTXCKS09A112AA	CEILING CASSETTE	SECURITY OFFICE	300	9.0	80.0	67.0	11.0	70.0	60.0	HP-1	-	208	1	60	0.25	31	PROVIDE W/ BUILT IN CONDENSATE PUMP

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)		AHRI EFFICIENCY RATINGS			REFRIGERANT	SOUND PRESSURE LEVEL COOLING/ HEATING (dBA)	ELECTRICAL POWER REQUIREMENTS					WEIGHT (LB)	NOTES
							COOLING	HEATING	EER	SEER	COP			VOLT.	PHASE	Hz.	MCA	MOCP		
HP-1	TRANE	NTXSKH09A112AA	FCU-1	INVERTER SCROLL HERMETIC	9.0	11.0	14 TO 115	-13 TO 75	15.0	20.2	3.9	R410A	50	208	1	60	14	24	129	INSTALL PER MANUFACTURER REQUIREMENTS, FURNISH W/ REQUIRED PIPING ACCESSORIES

AIR COOLED CHILLER SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AREA OF BUILDING SERVED	TYPE	CAPACITY (TONS)	# OF COMP.	EER @ AHRI	IEER	EVAPORATOR					CONDENSER	ELECTRICAL DATA						NOTES
									FLOWRATE (GPM)	E.W.T. (°F)	L.W.T. (°F)	WATER PRESS. DROP (FT. H_2O)	FOULING FACTOR	AMBIENT OA TEMP (°F)	UNIT POWER CONNECTION						
															VOLT.	PHASE	Hz.	MCA	MOCP		
CH-1	TRANE	RAUD10	HAGGER WING	AIR COOLED REMOTE EVAP	100	6	10.9	15.7	245	53.88	44.0	10.77	0.0001000	95	208	3	60	451	500	1-6

NOTES:
1. PROVIDE W/ BHPE REMOTE CHILLER EVAPORATOR & INSTALL KIT
2. PROVIDE W/ 100 TON BRAZED PLATE HEAT EXCHANGER & REMOTE EVP CONTROL PANEL
3. SEE SHEET M004 FOR INSTALLATION DETAILS
4. INSTALL PER MANUFACTURER REQUIREMENTS W/ ALL REQUIRED ACCESSORIES & CONTROLS
5. R454-B REFRIGERANT
6. FURNISHED W/ NON-FUSED DISCONNECT SWITCH & POWERED 15A CONVENIENCE OUTLET

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING SERVICES
www.blakeengineering.com

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK MATTHEW GEORGE BLAKE 076860 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By: BJK
Checked By: BJK
Proj. #: 44-13-01-06-0-015-033
CSArch Proj. #: 187-2302.01
Issued for Bid: 10/18/24

Sheet Title
MECHANICAL SCHEDULES

Sheet No.
VCHS M002

CONSTRUCTION DOCUMENTS

FAN SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	SERVICE	FAN C.F.M.	R.P.M.	EXTERNAL STATIC PRESSURE INCH H_2O	MOTOR					REMARKS
							POWER (HP)	FLA	VOLT.	PHASE	HZ.	
EF-91	GREENHECK	G-133-VG	CLASSROOM 91	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-112	GREENHECK	G-090-VG	CLASSROOM 112	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-131	GREENHECK	G-133-VG	CLASSROOM 131	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-132	GREENHECK	G-090-VG	CLASSROOM 132	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-133	GREENHECK	G-143-VG	CLASSROOM 133	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-134A	GREENHECK	G-143-VG	CLASSROOM 134A	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-134B	GREENHECK	G-143-VG	CLASSROOM 134B	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-135	GREENHECK	G-143-VG	CLASSROOM 135	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-136	GREENHECK	G-143-VG	CLASSROOM 136	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-137	GREENHECK	G-143-VG	CLASSROOM 137	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-138	GREENHECK	G-143-VG	CLASSROOM 138	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-139A	GREENHECK	G-143-VG	CLASSROOM 139A	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-139B	GREENHECK	G-143-VG	CLASSROOM 139B	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-140A	GREENHECK	G-143-VG	CLASSROOM 140A	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-140B	GREENHECK	G-143-VG	CLASSROOM 140B	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-141A	GREENHECK	G-143-VG	CLASSROOM 141A	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-141B	GREENHECK	G-143-VG	CLASSROOM 141B	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-142A	GREENHECK	G-143-VG	CLASSROOM 142A	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-142B	GREENHECK	G-143-VG	CLASSROOM 142B	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-143	GREENHECK	G-143-VG	CLASSROOM 143	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-144	GREENHECK	G-143-VG	CLASSROOM 144	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-145	GREENHECK	G-143-VG	CLASSROOM 145	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-146	GREENHECK	G-143-VG	CLASSROOM 146	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-158	GREENHECK	G-143-VG	CLASSROOM 158	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-159	GREENHECK	G-143-VG	CLASSROOM 159	1,250	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER

CONDENSING BOILER SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	INPUT (MBH)		THERMAL EFFICIENCY	GROSS OUTPUT (MBH)	TURNDOWN RATIO	REMARKS
			MIN.	MAX.				
B-1	LOCHINVAR	FB 3001	150	3000	96.0%	2883	20:1	FURNISH W/ ADD'L HIGH LIMIT & LOW WATER CUTOFF; BOILERS TO BE UL-795 LISTED & IN COMPLIANCE WITH ASME CSD-1
B-2	LOCHINVAR	FB 3001	150	3000	96.0%	2883	20:1	FURNISH W/ ADD'L HIGH LIMIT & LOW WATER CUTOFF; BOILERS TO BE UL-795 LISTED & IN COMPLIANCE WITH ASME CSD-1
B-3	LOCHINVAR	FB 3001	150	3000	96.0%	2883	20:1	FURNISH W/ ADD'L HIGH LIMIT & LOW WATER CUTOFF; BOILERS TO BE UL-795 LISTED & IN COMPLIANCE WITH ASME CSD-1
B-4	LOCHINVAR	FB 3001	150	3000	96.0%	2883	20:1	FURNISH W/ ADD'L HIGH LIMIT & LOW WATER CUTOFF; BOILERS TO BE UL-795 LISTED & IN COMPLIANCE WITH ASME CSD-1
B-5	LOCHINVAR	FB 3001	150	3000	96.0%	2883	20:1	FURNISH W/ ADD'L HIGH LIMIT & LOW WATER CUTOFF; BOILERS TO BE UL-795 LISTED & IN COMPLIANCE WITH ASME CSD-1
B-6	LOCHINVAR	FB 3001	150	3000	96.0%	2883	20:1	FURNISH W/ ADD'L HIGH LIMIT & LOW WATER CUTOFF; BOILERS TO BE UL-795 LISTED & IN COMPLIANCE WITH ASME CSD-1

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-10-F23-24x24-PR10-IB-44	SQUARE PLAQUE FACE DIFFUSER	301	450	0.10	LAY-IN	24"x24"	10"Ø	20	OBD	WHITE	FURNISH W/ INSULATED BACKPAN
D-2	KRUEGER	880-H-48-24-F22-NONE-00-01-00-44	DOUBLE DEFLECTION SUPPLY GRILLE	0	3500	0.10	WALL MTD.	50"x26"	48"x24"	20	OBD	WHITE	-
D-3	KRUEGER	5DMGDR-H-14-8-20-01-81	DUCT MOUNTED SUPPLY GRILLE	0	200	0.10	DUCT MTD.	16"x10"	14"x8"	20	OBD	CLEAR ANOD.	FURNISH W/ DAMPER/EXTRACTOR
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
R-2	KRUEGER	S80H-36x12-F22-NONE-00-00-00-01	35° DEFLECTION RETURN GRILLE	0	1,300	0.10	DUCT MTD.	38"x14"	36"x12"	25	-	MILL	FURNISH & INSTALL FULL-SIZE SHEET METAL PLENUM BOX ON REAR OF GRILLE, PAINT INSIDE FLAT BLACK

VENTILATION SCHEDULE

SYSTEM	SPACE SERVED	SPACE TYPE	SPACE AREA (SQ. FT.)	OCCUPANTS PER 1000 SQ. FT.	# OF OCCUPANTS (NOTE 1)	CFM PER PERSON	CFM PER SQ. FT.	CALCULATED VENTILATION RATE (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS	ADJUSTED VENTILATION RATE (CFM)	PROVIDED VENTILATION RATE (CFM)	EA CFM PER FIXTURE	EA CFM PER SQ. FT.	MIN. EA RATE (CFM)	EA PROVIDED (CFM)
UV-91	CLASSROOM 91	LIBRARY	715	35	30	10	0.12	386	0.9	429	440	-	-	-	450
UV-112	CLASSROOM 112	CLASSROOM	720	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-130	CLASSROOM 130	CLASSROOM	780	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-131	CLASSROOM 131	CLASSROOM	780	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-132	CLASSROOM 132	CLASSROOM	780	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-133	CLASSROOM 133	CLASSROOM	780	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-134A	CLASSROOM 134A	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-134B	CLASSROOM 134B	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-135	CLASSROOM 135	CLASSROOM	780	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-136	CLASSROOM 136	CLASSROOM	780	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-137	CLASSROOM 137	CLASSROOM	780	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-138	CLASSROOM 138	CLASSROOM	780	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-139A	CLASSROOM 139A	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-139B	CLASSROOM 139B	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-140A	CLASSROOM 140A	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-140B	CLASSROOM 140B	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-141A	CLASSROOM 141A	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-141B	CLASSROOM 141B	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-142A	CLASSROOM 142A	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-142B	CLASSROOM 142B	CLASSROOM	398	35	15	10	0.12	198	0.9	220	210	-	-	-	225
UV-143	CLASSROOM 143	CLASSROOM	782	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-144	CLASSROOM 144	CLASSROOM	782	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-145	CLASSROOM 145	CLASSROOM	782	35	30	10	0.12	394	0.9	437	440	-	-	-	450
UV-146	CLASSROOM 146	CLASSROOM	782	35	30	10	0.18	394	0.9	437	440	-	-	-	450
UV-158	BOYS LOCKER ROOM	LOCKER ROOMS	1303	0	0	0	0	0	0	0	650	-	0.5	650	650
	BOYS LOCKER ROOM OFFICE	OFFICE SAPCE	169	5	1	5	0.06	15	0.8	19		-	-	-	
UV-159	GIRLS LOCKER ROOM	LOCKER ROOMS	1303	0	0	0	0	0	0	0	650	-	0.5	650	650
	GIRLS LOCKER ROOM OFFICE	OFFICE SPACE	169	5	1	5	0.06	15	0.8	19		-	-	-	

NOTES:
1. QUANTITY OF OCCUPANTS FOR STANDARD CLASSROOMS ARE 30 OCCUPANTS BASED ON NYSED STATISTICAL DATA. ALL OTHER OCCUPANCIES ARE BASED UPON OCCUPANT DENSITIES FROM THE 2015 INTERNATIONAL MECHANICAL CODE

PUMP SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	LOCATION	AREA SERVED	PUMP TYPE	CIRCULATING FLUID				MOTOR						NOTES
						FLUID	G.P.M.	HEAD (FT.)	TEMP. (°F)	NOM. H.P.	VOLT.	PHASE	HZ.	RPM	FLA	
BP-1	GRUNDFOS	TPE3 65-150-S -A-G-A-BQQE	BOILER ROOM	BOILER #1	IN-LINE	HOT WATER	144	32	180	1.5	208	3	60	1760	6.7	1-3
BP-2	GRUNDFOS	TPE3 65-150-S -A-G-A-BQQE	BOILER ROOM	BOILER #2	IN-LINE	HOT WATER	144	32	180	1.5	208	3	60	1760	6.7	1-3
BP-3	GRUNDFOS	TPE3 65-150-S -A-G-A-BQQE	BOILER ROOM	BOILER #3	IN-LINE	HOT WATER	144	32	180	1.5	208	3	60	1760	6.7	1-3
BP-4	GRUNDFOS	TPE3 65-150-S -A-G-A-BQQE	BOILER ROOM	BOILER #4	IN-LINE	HOT WATER	144	32	180	1.5	208	3	60	1760	6.7	1-3
BP-5	GRUNDFOS	TPE3 65-150-S -A-G-A-BQQE	BOILER ROOM	BOILER #5	IN-LINE	HOT WATER	144	32	180	1.5	208	3	60	1760	6.7	1-3
BP-6	GRUNDFOS	TPE3 65-150-S -A-G-A-BQQE	BOILER ROOM	BOILER #6	IN-LINE	HOT WATER	144	32	180	1.5	208	3	60	1760	6.7	1-3
P-1	GRUNDFOS	-	BOILER ROOM	BUILDING	BASE MOUNTED	HOT WATER	980	100	180	20	208	3	60	1760	-	1-3
P-2	GRUNDFOS	-	BOILER ROOM	BUILDING	BASE MOUNTED	HOT WATER	980	100	180	20	208	3	60	1760	-	1-3
P-3	GRUNDFOS	-	BOILER ROOM	HAGGAR WING	BASE MOUNTED	CHILLED WATER	225	110	44	7-1/2	208	3	60	1760	-	1-3
P-4	GRUNDFOS	-	BOILER ROOM	HAGGAR WING	BASE MOUNTED	CHILLED WATER	225	110	44	7-1/2	208	3	60	1760	-	1-3
P-5	GRUNDFOS	TPE3 80-180-S -A-G-A-BQQE	BOILER ROOM	DOMESTIC WATER HEATER	IN-LINE	HOT WATER	225	25	180	3	208	3	60	1760	7.9	1-3
P-6	GRUNDFOS	TPE3 80-180-S -A-G-A-BQQE	BOILER ROOM	DOMESTIC WATER HEATER	IN-LINE	HOT WATER	225	25	180	3	208	3	60	1760	7.9	1-3

NOTES:
1. FURNISH W/ FACTORY VARIABLE FREQUENCY W/ INTEGRAL FUSED DISCONNECT SWITCH; VFD TO BE MOUNTED ON WALL & FIELD WIRED BY EC
2. PROVIDE W/ SUCTION DIFFUSER
3. PROVIDE W/ MULTI-PURPOSE VALVE
4. INSULATE PUMP BODY & ALL ASSOCIATED PIPING, VALVES, ACCESSORIES

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. - Newburgh - New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

BLAKE ENGINEERING PLLC
MECHANICAL ELECTRICAL PLUMBING FIRE PROTECTION
445 HAMILTON AVENUE, SUITE 1102 WHITE PLAINS, NEW YORK 10601

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
089039
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By: BJK
Checked By: BJK
Proj. #: 44-13-01-06-0-015-033
CSArch Proj. #: 187-2302.01
Issued for Bid: 10/18/24

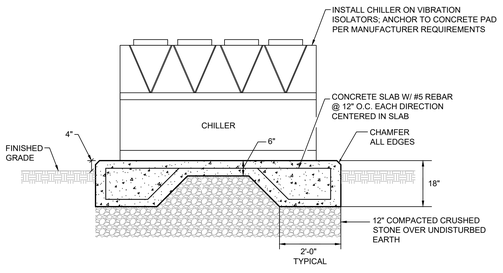
Sheet Title

MECHANICAL SCHEDULES

Sheet No.

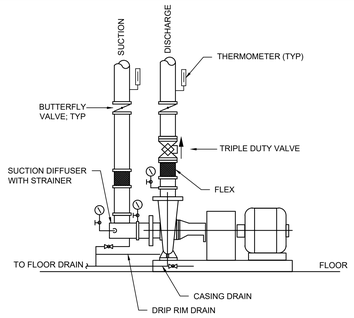
VCHS M003

CONSTRUCTION DOCUMENTS



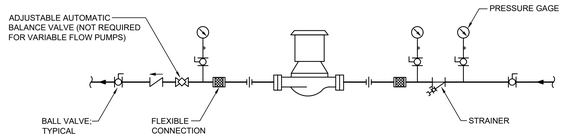
1 M004 **Chiller Pad Detail**

N.T.S.



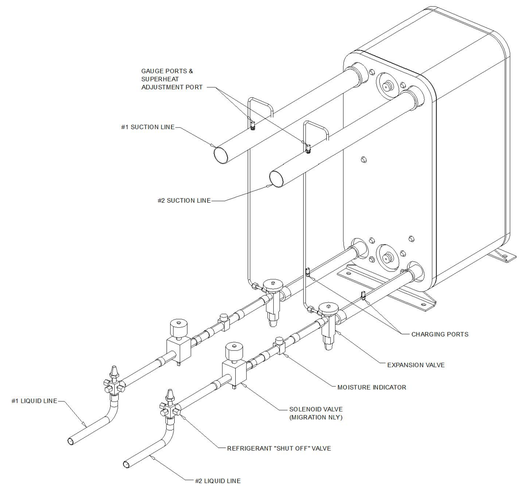
2 M004 **Base Mounted Pump Detail**

N.T.S.



3 M004 **In-Line Pump Detail**

Scale: None



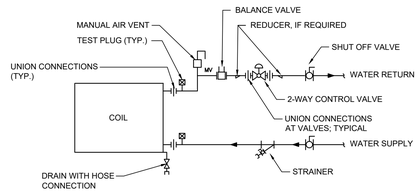
NOTES:
1. DIAGRAM SHOWS TWO CIRCUIT SYSTEMS, 40-120 TON SIZES, 20-30 TON SIZES ARE SINGLE CIRCUIT.
2. EVAPORATOR REFRIGERANT CONNECTIONS ARE STAINLESS STEEL AND REQUIRE SILVER SOLDER BRAZE CONNECTION TO REFRIGERANT PIPING.
3. LIQUID LINE SOLENOID VALVE MUST BE LOCATED AS CLOSE AS POSSIBLE TO THE THERMAL EXPANSION VALVE (TXV).
4. TXV MUST BE SELECTED AND SET PER IOM INSTRUCTIONS.
5. TUBE BETWEEN TXV OUTLET AND EVAPORATOR MUST BE SIZED ACCORDING TO IOM TABLE.
6. TWO FIELD PROVIDED 1/2" - 14 NPTE PLUG, STAINLESS STEEL OR PVC, MUST BE INSTALLED.
7. SEE RAU-IOM, SS-SVX11A-EN, AND TUBE SIZE AND COMPONENT SELECTION GUIDE, SS-APG007-EN, FOR CONFIGURATION, DIMENSION AND INSTALLATION DETAILS.

BPHE REFRIGERANT CONNECTIONS

ACCESSORY DRAWING

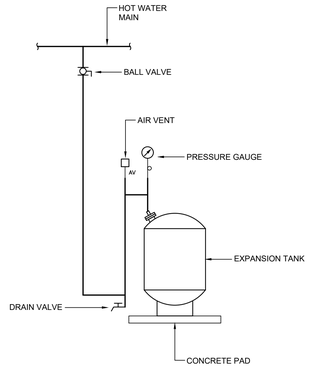
8 M004 **Typical Chiller Heat Exchanger Refrigerant Piping Detail**

N.T.S.



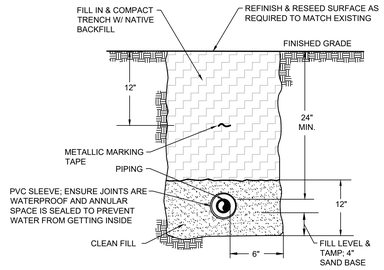
4 M004 **Coil Piping Connection Detail**

Scale: None



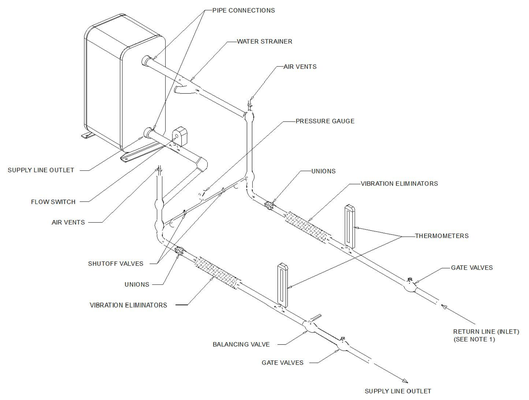
5 M004 **Expansion Tank Detail**

N.T.S.



6 M004 **Typical Underground Piping Trench Detail**

N.T.S.



NOTES:
1. SHUTOFF VALVES ARE REQUIRED FOR EVAPORATOR SERVICING
2. EVAPORATOR IS SHOWN FOR ILLUSTRATION PURPOSES ONLY
3. WATER INLET AND OUTLET DIAMETER AND DIMENSIONAL LOCATIONS DEPEND ON UNIT SIZE.
4. ACCESSORY KITS INCLUDE PIPE STUBS AT EVAPORATOR WATER CONNECTIONS. 20-60 TON SIZES ARE STRAIGHT, 80-120 TON SIZES ARE 90 DEGREE ELBOWS.
5. SYSTEM WATER PIPING CONNECTION TO ACCESSORY KIT PIPE STUBS ARE THREADED TO GROOVED 20-60 TON SIZES AND GROOVED IN 80-120 TON SIZES.
6. TWO FIELD PROVIDED 1/2" - 14 NPTE PLUG, STAINLESS STEEL OR PVC, MUST BE INSTALLED. 1/2"-14 NPTI FITTING LOCATED ON REFRIGERANT CONNECTION FACE OF EVAPORATOR.
7. FIELD PROVIDED STRAINER CLEAN OUT PLUG OR BLOW DOWN VALVE (RECOMMENDED) MUST BE INSTALLED.
8. FIELD PROVIDED TEE FOR INSTALING THE WATER FLOW SWITCH MUST BE SIZED PER THE IOM. INCORRECT SIZING MAY RESULT IN DAMAGE TO FLOW SWITCH, EVAPORATOR OR COMPRESSORS.
9. SEE RAUJ IOM, SS-SVX11A-EN, AND TUBE SIZE AND COMPONENT SELECTION GUIDE, SS-APG007-EN, F OR CONFIGURATION, DIMENSION AND INSTALLATION DETAILS.

RECOMMENDATIONS FOR TYPICAL INSTALLATION - WATER PIPING

ACCESSORY DRAWING

9 M004 **Typical Chiller Heat Exchanger Chilled Water Piping Detail**

N.T.S.

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 561 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
845.567.3900 | BLAKEENGINEERING@OUTLOOK.COM

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

STATE OF NEW YORK MATTHEW GEORGE BLAKE 079075 LICENSED PROFESSIONAL ENGINEER

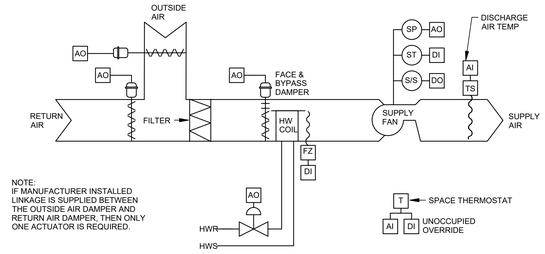
#	DATE	DESCRIPTION

Drawn By: BJK
Checked By: BJK
Proj. #: 44-13-01-06-0-015-033
CSArch Proj. #: 187-2302.01
Issued for Bid: 10/18/24

Sheet Title
MECHANICAL DETAILS

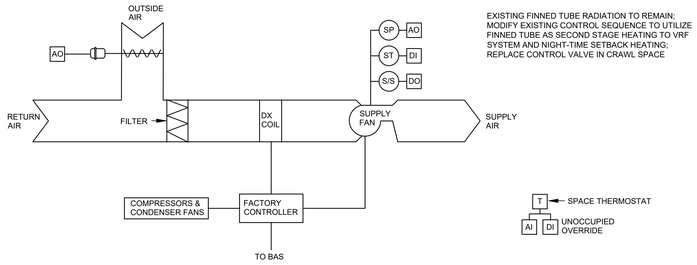
Sheet No.
VCHS M004

CONSTRUCTION DOCUMENTS



1 M005 Unit Ventilator with Exhaust Fan Control Schematic

N.T.S.



3 M103 Security Office Fan Coil Control Schematic

N.T.S.

DDC Temperature Control Notes:

1. CONTRACTOR SHALL EXPAND EXISTING BUILDING AUTOMATION SYSTEM TO PROVIDE THE CONTROL SEQUENCES SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS. THE SYSTEM SHALL PROVIDE CONTROL AND MONITORING OF THE EQUIPMENT INDICATED.
2. PROVIDE CONTROLLERS AND COMMUNICATIONS INFRASTRUCTURE TO MATCH EXISTING CAMPUS-WIDE BUILDING AUTOMATION SYSTEM. PROVIDE SEAMLESS INTEGRATION WITH EXISTING CONTROL NETWORK AND USER INTERFACES. NETWORK GATEWAYS AND PROTOCOL INTERFACE EQUIPMENT ARE NOT ACCEPTABLE UNLESS OTHERWISE NOTED.
3. PROVIDE INSTRUMENTATION, SENSORS, VALVES, DAMPERS, ACTUATORS AND WIRING AS REQUIRED TO PROVIDE SPECIFIED OPERATING SEQUENCES.
4. MODIFY EXISTING GRAPHIC USER INTERFACES TO INCLUDE ALL EQUIPMENT AND SYSTEMS INCLUDED IN THIS PROJECT.
5. REPLACE THE EXISTING BAS SERVER HARDWARE AND UPGRADE THE SOFTWARE TO THE LATEST VERSION OF WEB-ENABLED GRAPHICAL USER INTERFACE WITH A SEAMLESS INTEGRATION OF THE NEW AND EXISTING CONTROL POINTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR POWER THAT IS NOT SHOWN ON THE ELECTRICAL DRAWINGS, TO CONTROLS FURNISHED BY THIS CONTRACTOR. IF POWER CIRCUITS ARE SHOWN ON THE ELECTRICAL DRAWINGS, THIS CONTRACTOR SHALL CONTINUE THE POWER RUN TO THE CONTROL DEVICE. IF POWER CIRCUITS ARE NOT SHOWN, THIS CONTRACTOR SHALL PROVIDE BREAKERS AT DISTRIBUTION PANELS FOR POWER TO CONTROLS AND PROVIDE POWER FROM THE DISTRIBUTION PANEL TO THE CONTROL DEVICES.
7. FURNISH & INSTALL ALL REQUIRED END DEVICES, POWER SUPPLY, LOW VOLTAGE TRANSFORMERS, CONTROL WIRING & CONDUITS, ETC. FOR A COMPLETE & OPERATIONAL DDC CONTROL SYSTEM.
8. NEW WIRING & CONDUITS SHALL BE RUN CONCEALED ABOVE CEILING. ALL EXPOSED WIRING & CONDUITS SHALL BE RUN CONCEALED IN EMT IN UTILITY SPACES AND WIREMOLD IN FINISHED AREAS.
9. CONTRACTOR TO FIELD INSTALL SENSORS, CONTROLLERS, ETC. WHICH ARE NOT FACTORY-INSTALLED BY EQUIPMENT MANUFACTURERS.

DDC Temperature Control Legend:

AI	ANALOG INPUT
AO	ANALOG OUTPUT
AQ	AQUASTAT (SPDT)
AMD	AIR FLOW MEASUREMENT DEVICE (ANALOG)
FS	FLOW SWITCH (DIGITAL)
A	CONTROL ACTUATOR CONTROL DAMPER OR VALVE
DPS	DIFFERENTIAL PRESSIRE SWITCH (SPDT)
DPT	DIFFERENTIAL PRESSIRE TRANSDUCER (ANALOG)
IAQ	INDOOR AIR QUALITY
MS	MAGNETIC STARTER
VFD	VARIABLE FREQUENCY DRIVE
R	CONTROL RELAY (24VAC-SPDT)
CT	CURRENT TRANSDUCER (ANALOG)
CS	CURRENT SWITCH (DIGITAL)
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
ES	END SWITCH (SPST)
RH	RELATIVE HUMIDITY SENSOR
CO	CARBON-MONOXIDE SENSOR
CO2	CARBON-DIOXIDE SENSOR
SW	WALL-MOUNTED SWITCH
TS	TEMPERATURE SENSOR (PROBE/IMMERSION)
TS	TEMPERATURE SENSOR (AVERAGING)
LLS	LOW-LIMIT TEMPERATURE SWITCH (SPDT)
SD	SMOKE DETECTOR (DUCT)
TC	THERMOSTAT SWITCH (SPDT)
XFMR	120/24VAC TRANSFORMER

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING SERVICES
845-877-0900 | BLAKEENGINEERING.COM | 2023 ©

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
089039
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

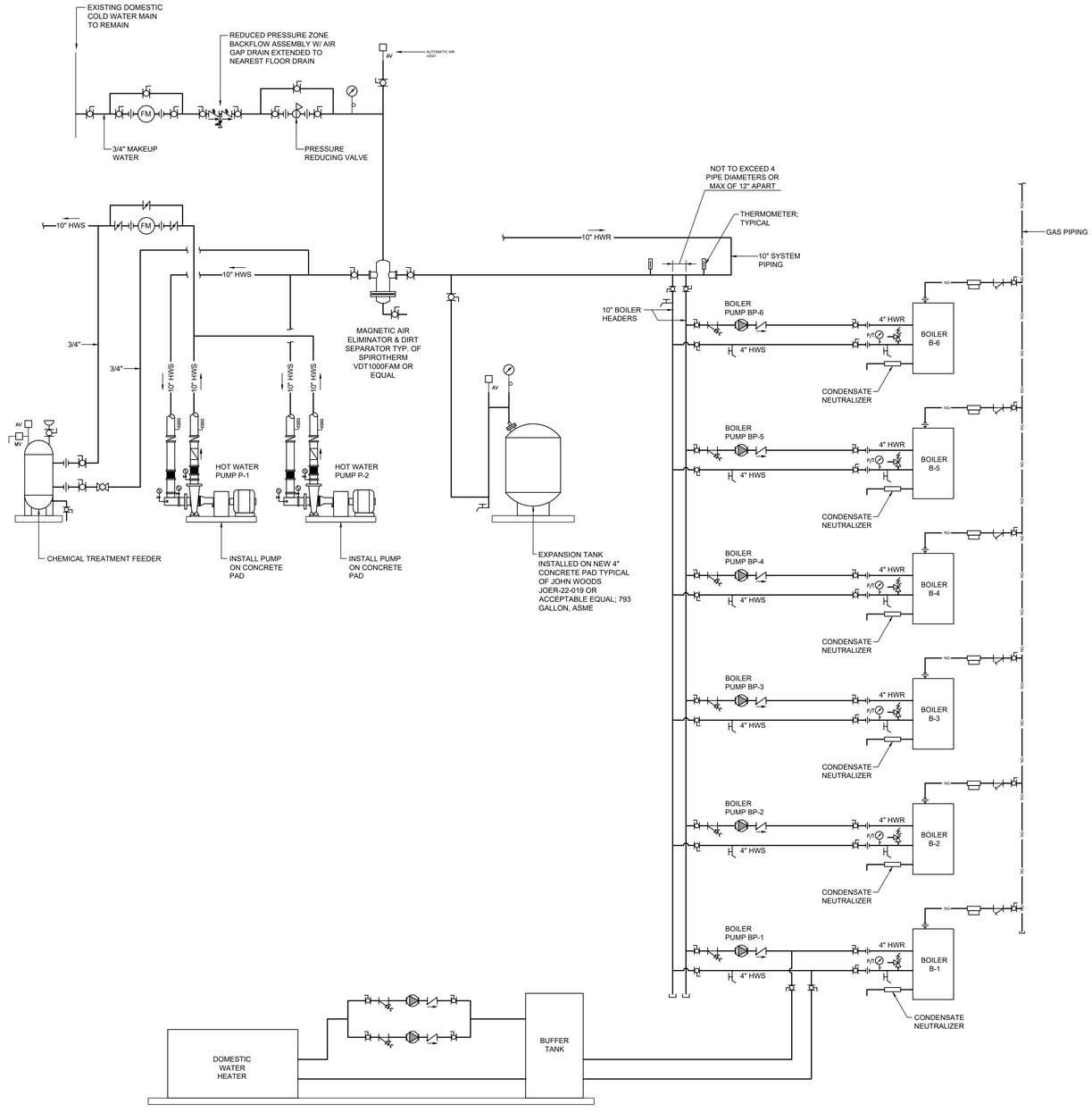
Sheet Title

TEMPERATURE CONTROLS NOTES, LEGEND & SCHEMATICS

Sheet No.

VCHS M005

CONSTRUCTION DOCUMENTS



1 M006 Heating Plant Piping Diagram

N.T.S.

COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

CSARCH

Consultant

BLAKE ENGINEERING PLLC
MECHANICAL, ELECTRICAL & PLUMBING ENGINEERING
845-567-3694 FAX 845-567-3695 WWW.BLAKEENGINEERING.COM

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK MATTHEW GEORGE BLAKE 089039 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

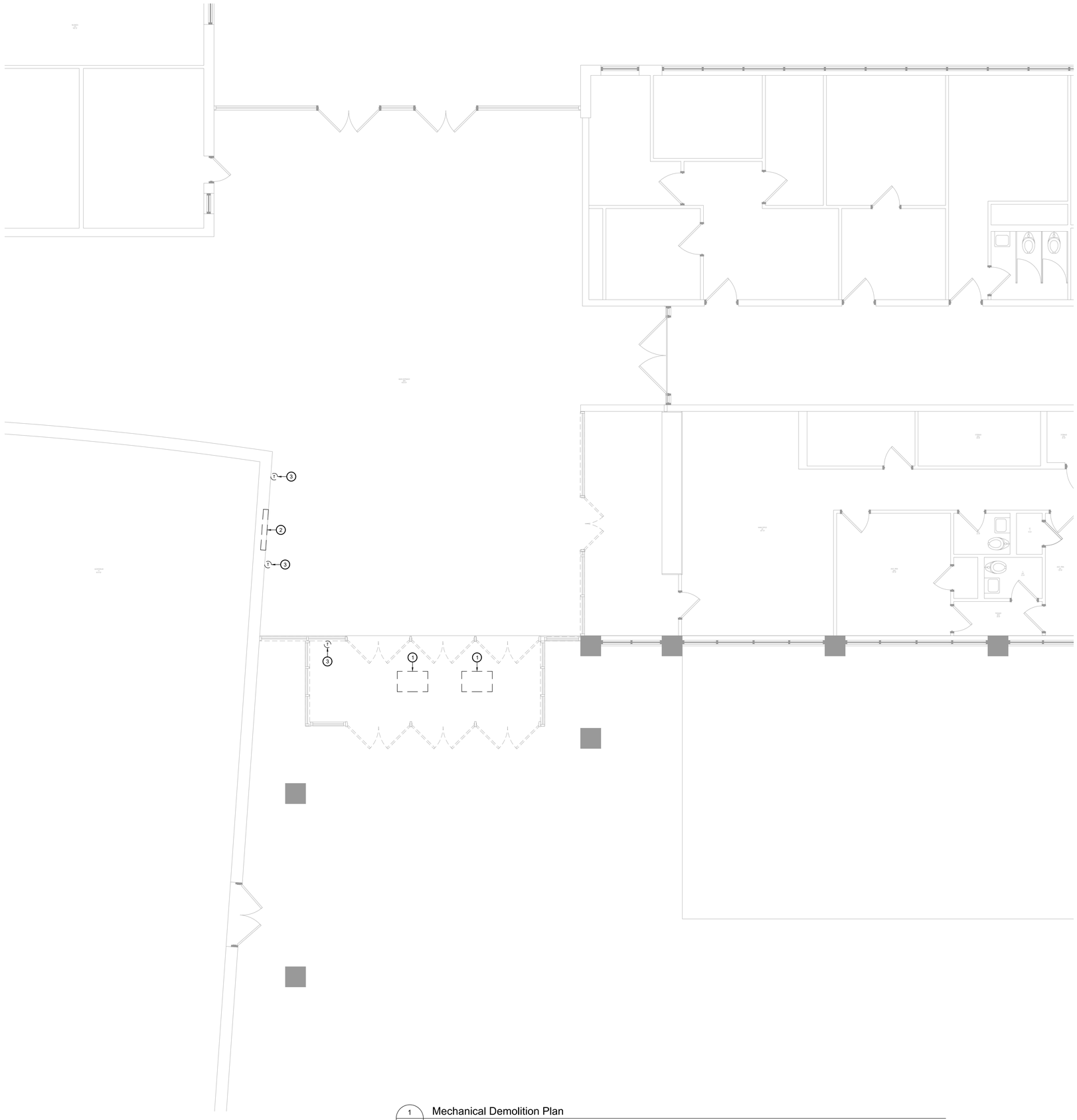
Sheet Title

MECHANICAL PIPING DIAGRAMS

Sheet No.

VCHS M006

CONSTRUCTION DOCUMENTS

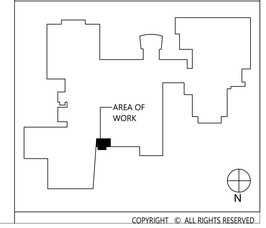


Key Notes:

1. EXISTING CABINET HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, LOUVERS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP
2. EXISTING CONVECTOR TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP
3. EXISTING THERMOSTAT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED WIRING, TUBING, CONDUIT, ACCESSORIES, ETC.;
4. EXISTING FINNED TUBE RADIATION TO REMAIN

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

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. Newburgh, New York 12550-7601
845 . 561 . 3179 www.csarchpc.com

CSARCH

Consultant

BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING
845.527.0800 | BLAKEENGINEERING.COM

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
089039
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

MECHANICAL DEMOLITION PLAN

Sheet No.

VCHS MD111

CONSTRUCTION DOCUMENTS



1 MD211 Mechanical Demolition Plan - Part 1

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

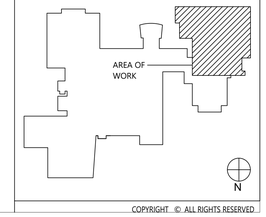
Sheet Notes:

1. TEMPERATURE CONTROLS SCOPE - REMOVE & REPLACE ALL EXISTING PNEUMATIC HVAC CONTROL SYSTEMS SERVING THIS AREA OF THE BUILDING. OWNER TO PROVIDE ALL MATERIALS & WIRING INCLUDING DEVICES, ACTUATORS, SENSORS, WIRING, CONDUIT, ETC. TO CONVERT ALL EQUIPMENT OVER TO REPLACEMENT DDC SYSTEM. MECHANICAL CONTRACTOR TO DEMOLISH & INSTALL ALL CONTROL VALVES AND ANY PIPING RELATED ACCESSORIES I.E. PORTS FOR SENSORS, ETC.; FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.

Key Notes:

1. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING UNIT VENTILATOR AND ALL ASSOCIATED PIPING, ACCESSORIES, CONTROLS, ETC.
2. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING HOT WATER & CHILLED WATER PIPING AND ALL ASSOCIATED VALVES, INSULATION, HANGERS, SUPPORTS, ETC.
3. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING THERMOSTAT AND ASSOCIATED WIRING OR PNEUMATIC TUBING; MAINTAIN EXISTING BOX AND CONDUIT FOR REPLACEMENT UNIT WHERE COMPATIBLE.
4. EXISTING OUTSIDE AIR LOUVER AND WALL SLEEVE TO REMAIN
5. EXISTING DRAFT STOP TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF;
6. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING RELIEF AIR TRANSFER GRILLE & DUCTWORK;
7. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING ROOFTOP MOUNTED RELIEF AIR HOOD & ALL ASSOCIATED DUCTWORK
8. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING DUCTED HORIZONTAL UNIT VENTILATOR AND ALL ASSOCIATED PIPING, ACCESSORIES, CONTROLS, ETC.
9. EXISTING SUPPLY AIR GRILLE/DIFFUSER & DUCT TO REMAIN
10. EXISTING RETURN AIR GRILLE & DUCT TO REMAIN
11. EXISTING OUTSIDE AIR LOUVER & DUCT TO REMAIN
12. EXISTING EXHAUST AIR GRILLES & DUCT TO REMAIN
13. EXISTING CABINET HEATER TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATE PNEUMATIC CONTROLS; PROVIDE ELECTRONICALLY CONTROLLED VALVE(S) & DAMPER(S) CONNECTED TO BUILDING AUTOMATION SYSTEM
14. EXISTING EXHAUST FAN ON ROOF TO REMAIN
15. EXISTING FINNED TUBE RADIATION TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATE PNEUMATIC CONTROLS; PROVIDE ELECTRONICALLY CONTROLLED VALVE(S) CONNECTED TO BUILDING AUTOMATION SYSTEM
16. REMOVE 3/4" HWS & HWR PIPING DN. THRU FLOOR INTO CRAWL SPACE & CAP AT MAIN; PIPING WILL BE EXTENDED & CONNECTED TO REPLACEMENT UNIT
17. REMOVE 1-1/4" CHWS & CHWR PIPING DN. THRU FLOOR INTO CRAWL SPACE & CAP AT MAIN; PIPING WILL BE EXTENDED & CONNECTED TO REPLACEMENT UNIT
18. EXISTING FLOOR MOUNTED VERTICAL UNIT VENTILATOR (HW HEATING & CHW COOLING) TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING CONTROLS & ASSOCIATED PNEUMATIC CONTROLS, TUBING, ETC.
19. EXISTING DUCTED FAN COIL (HW HEATING & CHW COOLING) TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING CONTROLS & ASSOCIATED PNEUMATIC CONTROLS, TUBING, ETC.
20. EXISTING FLOOR MOUNTED FAN COIL (HW HEATING & CHW COOLING) TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING CONTROLS & ASSOCIATED PNEUMATIC CONTROLS, TUBING, ETC.
21. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING FINNED TUBE RADIATION AND ALL ASSOCIATED PIPING, ENCLOSURE, ACCESSORIES, CONTROLS, ETC.

KEY PLAN



CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENERGY MODELING
845-565-1100 WWW.BLAKEENGINEERING.COM

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

STATE OF NEW YORK MATTHEW GEORGE BLAKE 089039 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

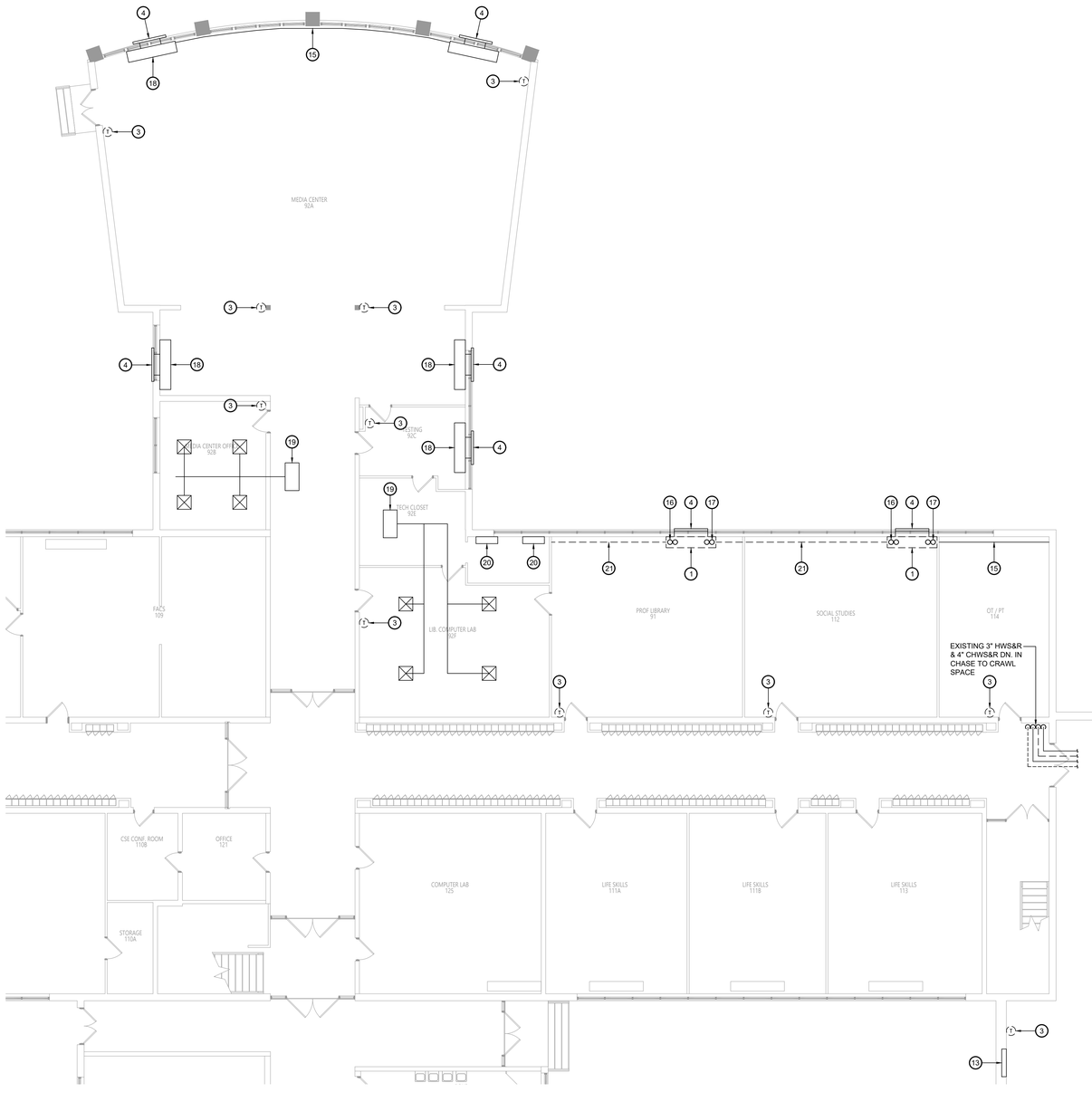
MECHANICAL DEMOLITION PLAN - PART 1

Sheet No.

VCHS MD211

CONSTRUCTION DOCUMENTS

COPYRIGHT © ALL RIGHTS RESERVED



1 MD212 Mechanical Demolition Plan - Part 2

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

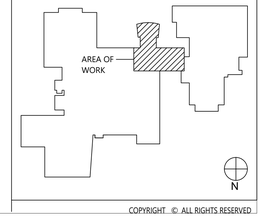
Sheet Notes:

1. TEMPERATURE CONTROLS SCOPE - REMOVE & REPLACE ALL EXISTING PNEUMATIC HVAC CONTROL SYSTEMS SERVING THIS AREA OF THE BUILDING. OWNER TO PROVIDE ALL MATERIALS & WIRING INCLUDING DEVICES, ACTUATORS, SENSORS, WIRING, CONDUIT, ETC. TO CONVERT ALL EQUIPMENT OVER TO REPLACEMENT DDC SYSTEM. MECHANICAL CONTRACTOR TO DEMOLISH & INSTALL ALL CONTROL VALVES AND ANY PIPING RELATED ACCESSORIES I.E. PORTS FOR SENSORS, ETC.; FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.

Key Notes:

1. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING UNIT VENTILATOR AND ALL ASSOCIATED PIPING, ACCESSORIES, CONTROLS, ETC.
2. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING HOT WATER & CHILLED WATER PIPING AND ALL ASSOCIATED VALVES, INSULATION, HANGERS, SUPPORTS, ETC.
3. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING THERMOSTAT AND ASSOCIATED WIRING OR PNEUMATIC TUBING; MAINTAIN EXISTING BOX AND CONDUIT FOR REPLACEMENT UNIT WHERE COMPATIBLE.
4. EXISTING OUTSIDE AIR LOUVER AND WALL SLEEVE TO REMAIN
5. EXISTING DRAFT STOP TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF;
6. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING RELIEF AIR TRANSFER GRILLE & DUCTWORK;
7. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING ROOFTOP MOUNTED RELIEF AIR HOOD & ALL ASSOCIATED DUCTWORK
8. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING DUCTED HORIZONTAL UNIT VENTILATOR AND ALL ASSOCIATED PIPING, ACCESSORIES, CONTROLS, ETC.
9. EXISTING SUPPLY AIR GRILLE/DIFFUSER & DUCT TO REMAIN
10. EXISTING RETURN AIR GRILLE & DUCT TO REMAIN
11. EXISTING OUTSIDE AIR LOUVER & DUCT TO REMAIN
12. EXISTING EXHAUST AIR GRILLES & DUCT TO REMAIN
13. EXISTING CABINET HEATER TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATE PNEUMATIC CONTROLS; PROVIDE ELECTRONICALLY CONTROLLED VALVE(S) & DAMPER(S) CONNECTED TO BUILDING AUTOMATION SYSTEM
14. EXISTING EXHAUST FAN ON ROOF TO REMAIN
15. EXISTING FINNED TUBE RADIATION TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATE PNEUMATIC CONTROLS; PROVIDE ELECTRONICALLY CONTROLLED VALVE(S) CONNECTED TO BUILDING AUTOMATION SYSTEM
16. REMOVE 3/4" HWS & HWR PIPING DN. THRU FLOOR INTO CRAWL SPACE & CAP AT MAIN; PIPING WILL BE EXTENDED & CONNECTED TO REPLACEMENT UNIT
17. REMOVE 1-1/4" CHWS & CHWR PIPING DN. THRU FLOOR INTO CRAWL SPACE & CAP AT MAIN; PIPING WILL BE EXTENDED & CONNECTED TO REPLACEMENT UNIT
18. EXISTING FLOOR MOUNTED VERTICAL UNIT VENTILATOR (HW HEATING & CHW COOLING) TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING CONTROLS & ASSOCIATED PNEUMATIC CONTROLS, TUBING, ETC.
19. EXISTING DUCTED FAN COIL (HW HEATING & CHW COOLING) TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING CONTROLS & ASSOCIATED PNEUMATIC CONTROLS, TUBING, ETC.
20. EXISTING FLOOR MOUNTED FAN COIL (HW HEATING & CHW COOLING) TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING CONTROLS & ASSOCIATED PNEUMATIC CONTROLS, TUBING, ETC.
21. DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING FINNED TUBE RADIATION AND ALL ASSOCIATED PIPING, ENCLOSURE, ACCESSORIES, CONTROLS, ETC.

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING
845-527-1900 | BLAKEENGINEERINGPLLC@GMAIL.COM

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
090670
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

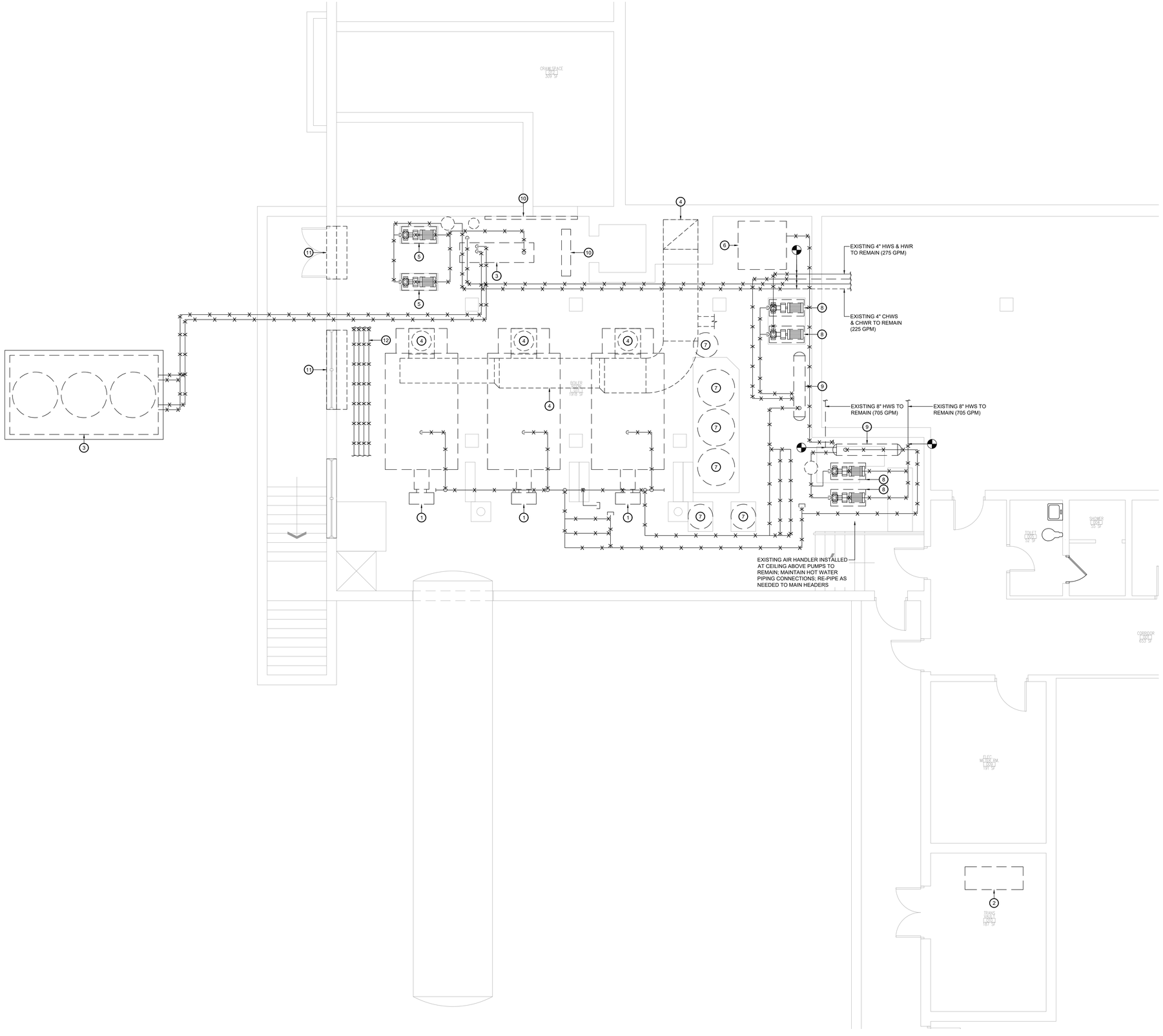
Sheet Title

MECHANICAL DEMOLITION PLAN - PART 2

Sheet No.

VCHS MD212

CONSTRUCTION DOCUMENTS

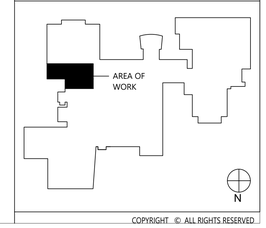


1 MD301 Mechanical Demolition Plan
Scale: 1/4" = 1'-0"

Key Notes:

1. EXISTING STEAM BOILER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.
2. EXISTING PNEUMATIC CONTROLS AIR COMPRESSOR, AIR DRYER & STORAGE TANK TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED TUBING, CONTROL CABINETS, VALVES, ETC.
3. EXISTING CHILLER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED REFRIGERANT & WATER PIPING, HANGERS, SUPPORTS, ACCESSORIES, AIR SEPARATOR, EXP TANK, ETC. RECOVER & DISPOSE OF REFRIGERANT PER EPA & DEC GUIDELINES
4. EXISTING BOILER & WATER HEATER BREECHING TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED INSULATION, HANGERS, ACCESSORIES, ETC.; REMOVE TO CHIMNEY
5. EXISTING CHILLED WATER PUMP TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, STEEL FRAME BASES, ETC.
6. EXISTING FEEDWATER SYSTEM TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, HANGERS, INSULATION, ACCESSORIES, ETC.
7. EXISTING DOMESTIC WATER HEATERS & STORAGE TANKS TO BE REMOVED; SEE DRAWING PD301 FOR ADDITIONAL INFORMATION
8. EXISTING HOT WATER PUMP TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, STEEL FRAME BASES, ETC.
9. EXISTING SHELL & TUBE HEAT EXCHANGER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, STEEL FRAME BASES, ETC.
10. EXISTING PNEUMATIC CONTROLS BOARD, VALVES & TUBING TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED TUBING, CONTROL CABINETS, VALVES, ETC.
11. EXISTING COMBUSTION AIR LOUVER TO DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED DUCTWORK, CONTROLS, ETC.
12. ABANDONED FUEL OIL PIPING TO DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ALL ASSOCIATED HANGERS, VALVES, ETC.; VERIFY EXACT LAYOUT IN FIELD

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
845-987-0800 FAX 845-987-0801 WWW.BLAKEENGINEERINGPLLC.COM

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
089039
LICENSED PROFESSIONAL ENGINEER

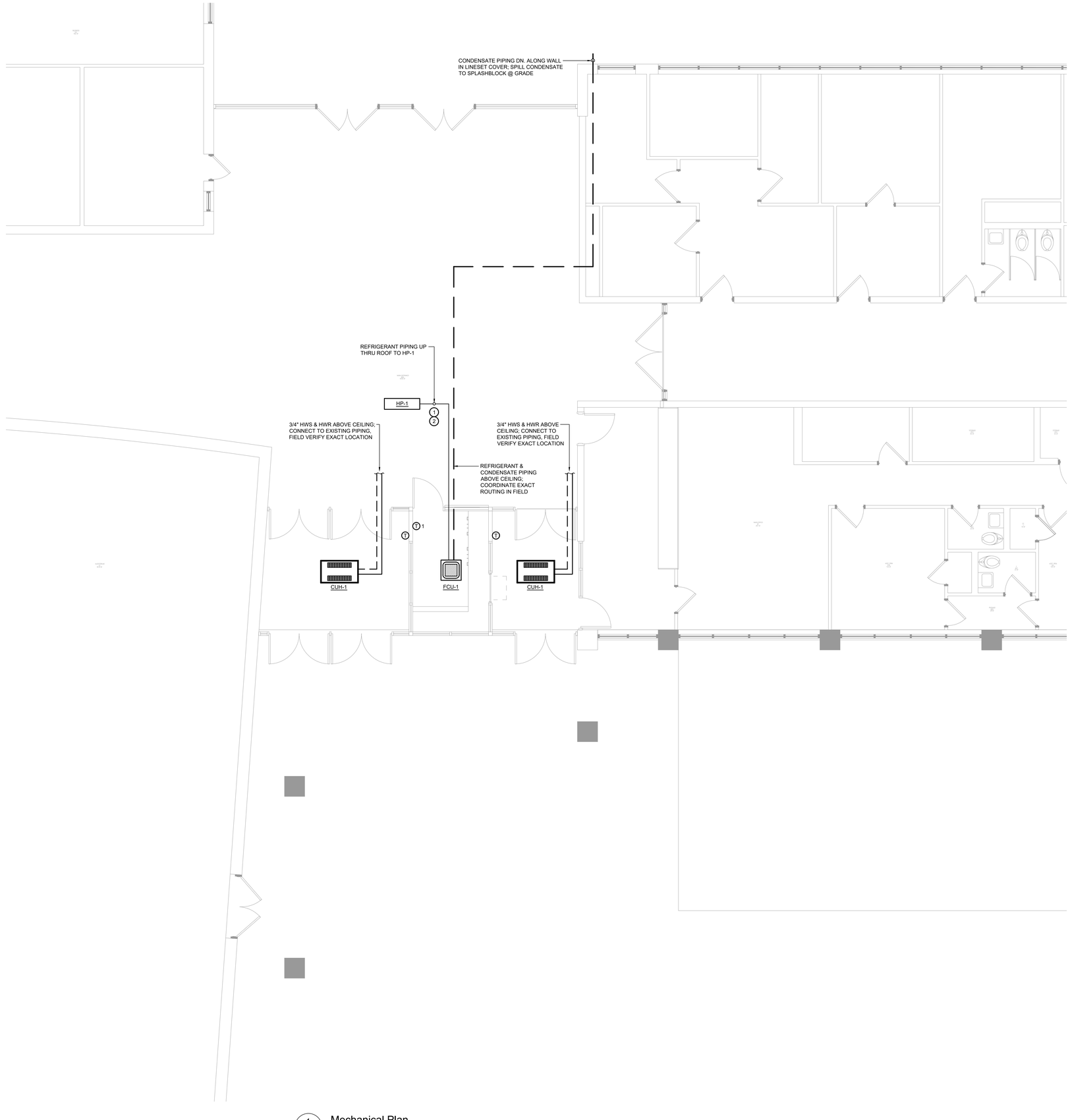
#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
MECHANICAL DEMOLITION PLAN

Sheet No.
VCHS MD301

CONSTRUCTION DOCUMENTS

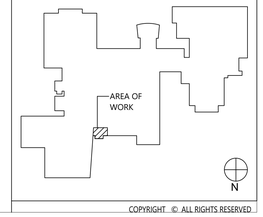


1 / M111 Mechanical Plan
Scale: 1/4" = 1'-0"

Key Notes:

1. PROVIDE PIPE CURB ASSEMBLY TYPICAL OF PATE (OR EQUAL). FLASH IN ACCORDANCE W/ ROOFING MANUFACTURER'S REQUIREMENTS TO MAINTAIN EXISTING WARRANTY. SIZE PIPE CURB TO ACCOMMODATE ALL REFRIGERANT PIPING, CONTROL AND POWER WIRING/CONDUIT
2. PROVIDE ROOF EQUIPMENT SUPPORTS TYPICAL OF NVENT CADDY PYRAMID OR EQUAL FOR MOUNTING HEAT PUMP ON ROOF

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & DESIGN
845-527-0800 ALEX@BLAKEENGINEERING.COM

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK MATTHEW GEORGE BLAKE 090670 LICENSED PROFESSIONAL ENGINEER

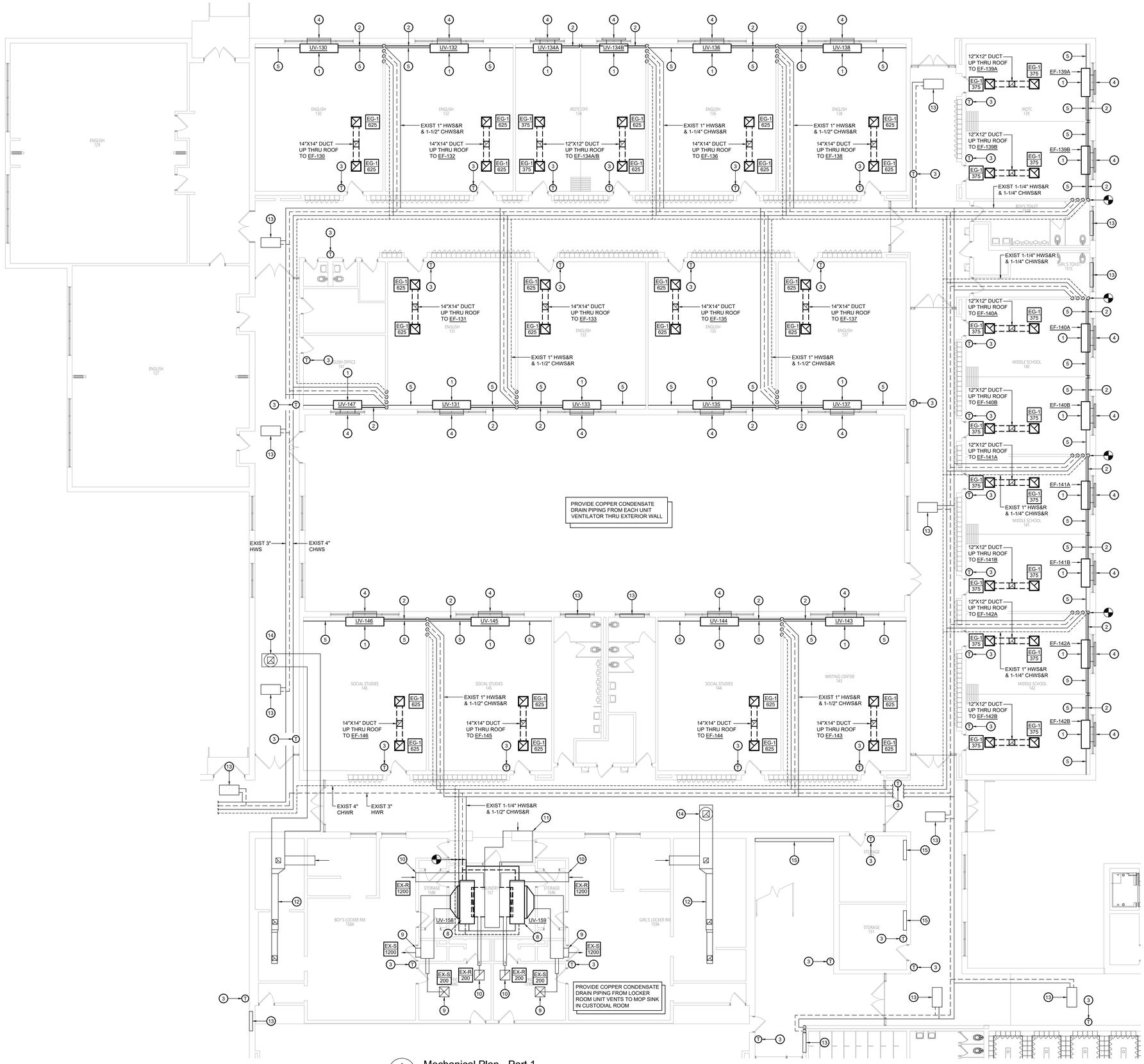
#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
SECURITY VESTIBULE MECHANICAL PLAN

Sheet No.
VCHS M111

CONSTRUCTION DOCUMENTS

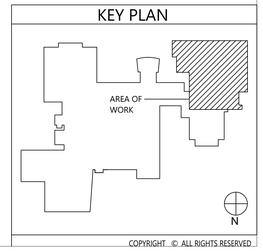


1 M211 Mechanical Plan - Part 1
Scale: 1/8" = 1'-0"

Key Notes:

1. NEW UNIT VENTILATOR
2. 3/4" HWS/HWR & 1-1/4" CHWS/CHWR TO UV INSIDE DRAFT STOP; CONNECT TO EXISTING PIPING AT WALL
3. NEW THERMOSTAT
4. EXISTING OUTSIDE AIR LOUVER AND WALL SLEEVE TO REMAIN
5. NEW DRAFT STOP INSTALLED ON BOTH SIDE OF UV
8. NEW DUCTED HORIZONTAL UNIT VENTILATOR; CONNECT TO EXISTING HW & CHW PIPING AND SUPPLY, RETURN & OUTSIDE AIR DUCTWORK; VERIFY EXACT ROUTING & SIZES IN FIELD
9. EXISTING SUPPLY AIR GRILLE/DIFFUSER & DUCT TO REMAIN
10. EXISTING RETURN AIR GRILLE & DUCT TO REMAIN
11. EXISTING OUTSIDE AIR LOUVER & DUCT TO REMAIN
12. EXISTING EXHAUST AIR GRILLES & DUCT TO REMAIN
13. EXISTING CABINET HEATER TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATE PNEUMATIC CONTROLS; PROVIDE ELECTRONICALLY CONTROLLED VALVE(S) & DAMPER(S) CONNECTED TO BUILDING AUTOMATION SYSTEM
14. EXISTING EXHAUST FAN ON ROOF TO REMAIN
15. EXISTING FINNED TUBE RADIATION TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATE PNEUMATIC CONTROLS; PROVIDE ELECTRONICALLY CONTROLLED VALVE(S) CONNECTED TO BUILDING AUTOMATION SYSTEM
16. PROVIDE 3/4" HWS & HWR PIPING UP THRU FLOOR FROM CRAWL SPACE TO NEW UV
17. PROVIDE 1-1/4" CHWS & CHWR PIPING UP THRU FLOOR FROM CRAWL SPACE TO NEW UV

KEY PLAN



CSARCH
19 Front St. Newburgh, New York 12550-7601
845 561 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING
845.987.1900 FAX 845.987.1902 WWW.BLAKEENGINEERING.COM

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK MATTHEW GEORGE BLAKE 089039 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
MECHANICAL PLAN - PART 1

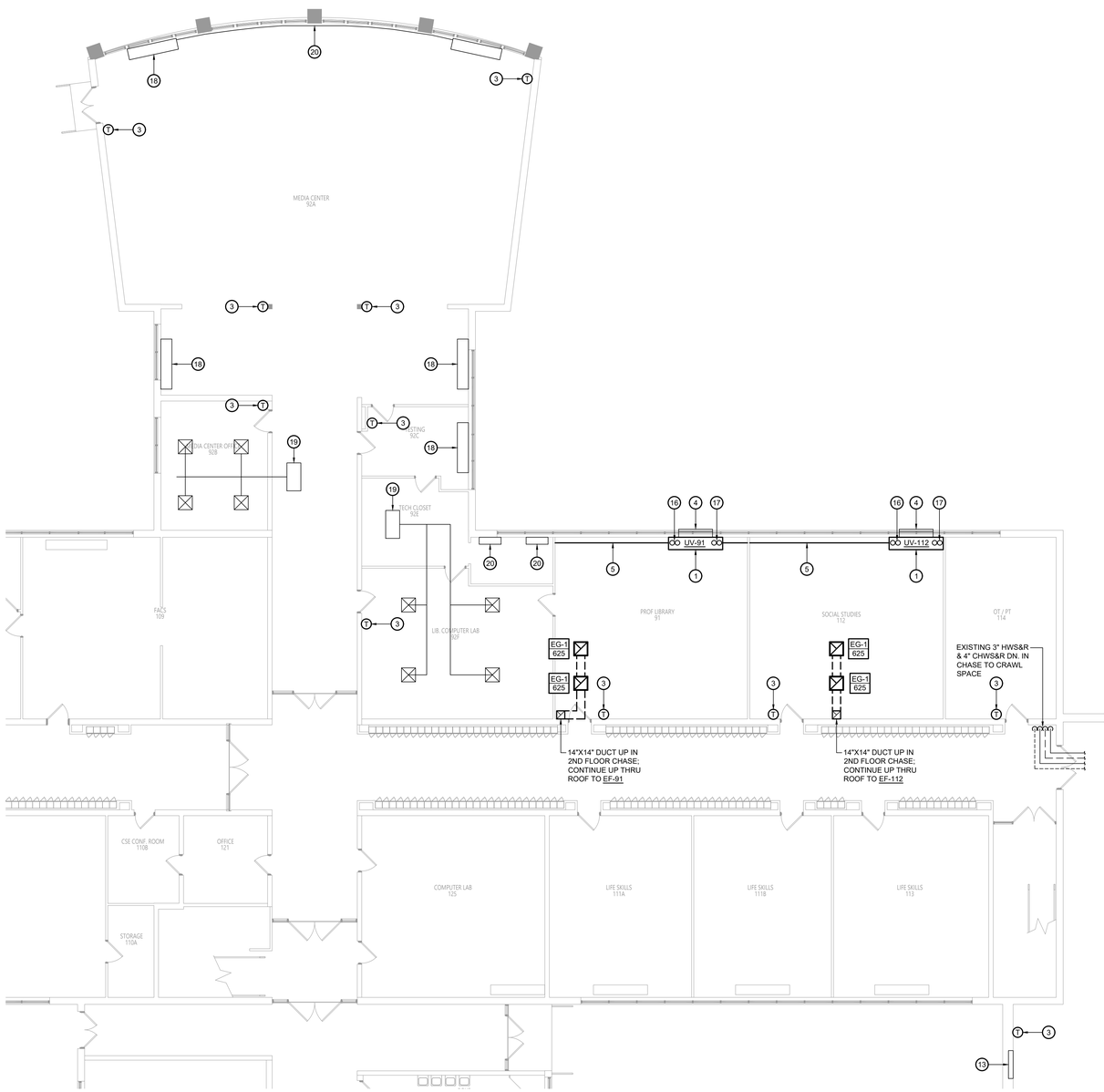
Sheet No.
VCHS M211

CONSTRUCTION DOCUMENTS

COPYRIGHT © ALL RIGHTS RESERVED

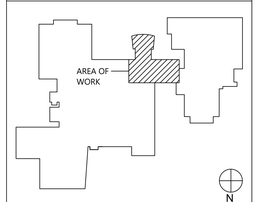
Key Notes:

1. NEW UNIT VENTILATOR
2. 3/4" HWS/HWR & 1-1/4" CHWS/CHWR TO UV INSIDE DRAFT STOP; CONNECT TO EXISTING PIPING AT WALL
3. NEW THERMOSTAT
4. EXISTING OUTSIDE AIR LOUVER AND WALL SLEEVE TO REMAIN
5. NEW DRAFT STOP INSTALLED ON BOTH SIDE OF UV
8. NEW DUCTED HORIZONTAL UNIT VENTILATOR; CONNECT TO EXISTING HW & CHW PIPING AND SUPPLY, RETURN & OUTSIDE AIR DUCTWORK; VERIFY EXACT ROUTING & SIZES IN FIELD
9. EXISTING SUPPLY AIR GRILLE/DIFFUSER & DUCT TO REMAIN
10. EXISTING RETURN AIR GRILLE & DUCT TO REMAIN
11. EXISTING OUTSIDE AIR LOUVER & DUCT TO REMAIN
12. EXISTING EXHAUST AIR GRILLES & DUCT TO REMAIN
13. EXISTING CABINET HEATER TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATE PNEUMATIC CONTROLS; PROVIDE ELECTRONICALLY CONTROLLED VALVE(S) & DAMPER(S) CONNECTED TO BUILDING AUTOMATION SYSTEM
14. EXISTING EXHAUST FAN ON ROOF TO REMAIN
15. EXISTING FINNED TUBE RADIATION TO REMAIN; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATE PNEUMATIC CONTROLS; PROVIDE ELECTRONICALLY CONTROLLED VALVE(S) CONNECTED TO BUILDING AUTOMATION SYSTEM
16. PROVIDE 3/4" HWS & HWR PIPING UP THRU FLOOR FROM CRAWL SPACE TO NEW UV
17. PROVIDE 1-1/4" CHWS & CHWR PIPING UP THRU FLOOR FROM CRAWL SPACE TO NEW UV



1 / M212 Mechanical Plan - Part 2
Scale: 1/8" = 1'-0"

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant

BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING
445 HAMILTON AVE, SUITE 1102, WHITE PLAINS, NEW YORK 10601

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
089039
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

MECHANICAL PLAN - PART 2

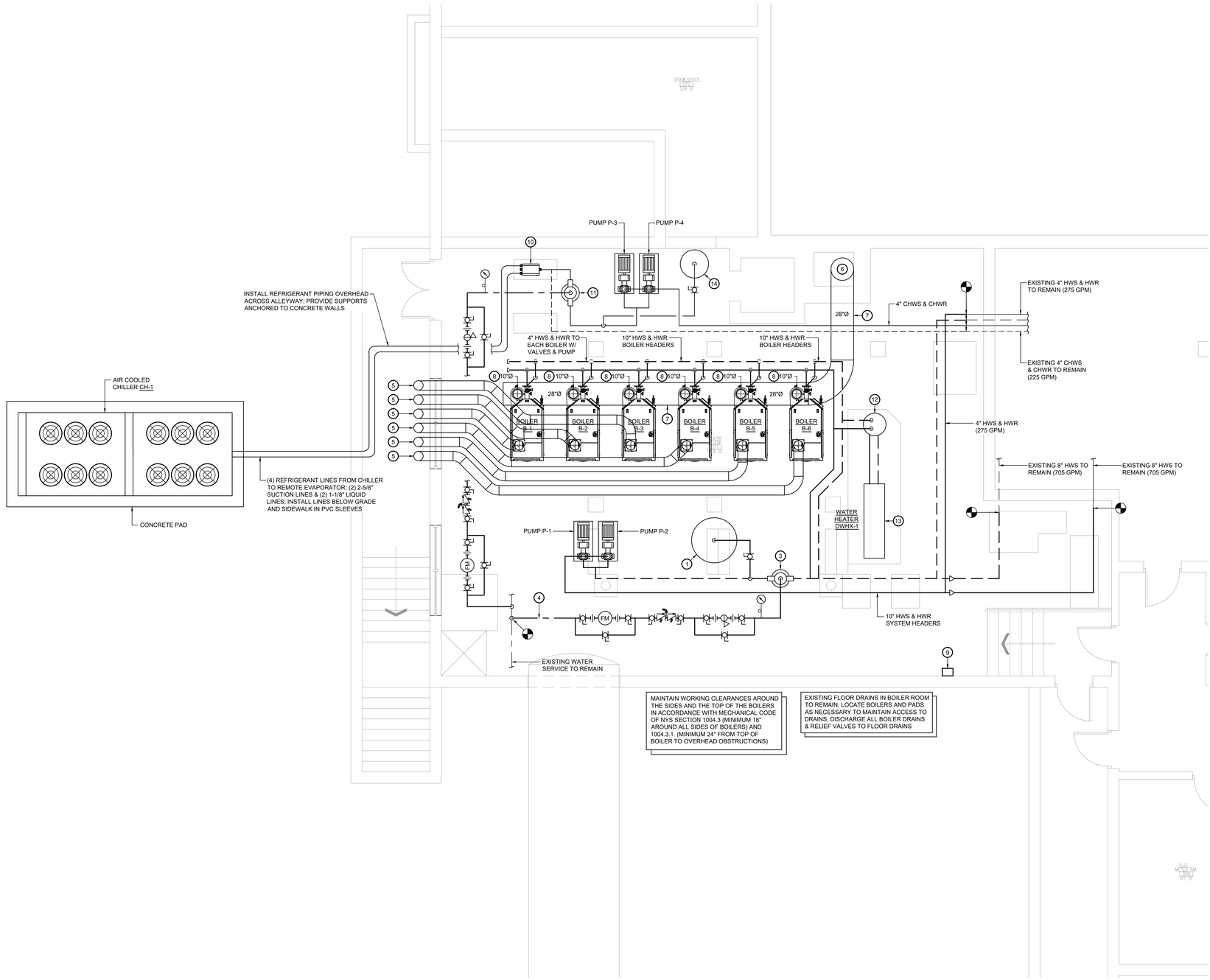
Sheet No.

VCHS M212

CONSTRUCTION DOCUMENTS

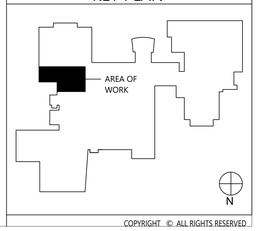
Key Notes:

1. EXPANSION TANK TYPICAL OF JOHN WOODS JOER-22-019 OR ACCEPTABLE EQUAL; 793 GALLON, ASME, BLADDER TYPE; INSTALL ON 4" TALL CONCRETE PAD
2. CHEMICAL TREATMENT FEEDER
3. MAGNETIC AIR SEPARATOR / DIRT ELIMINATOR TYP. OF SPIROTHERM VDT1000FAM OR EQUAL
4. 3/4" MAKEUP WATER W/ WATER METER W/ BYPASS, PRESSURE REDUCING VALVE W/ BYPASS & RPZ; CONNECT TO CWS MAIN INSIDE BOILER ROOM
5. PROVIDE 10"Ø COMBUSTION AIR DUCTWORK FOR EACH BOILER; INSTALL PER MANUFACTURER REQUIREMENTS; CONNECT TO TOP OF BOILER AT DESIGNATED LOCATION; COORDINATE EXACT ROUTING IN FIELD W/ ADJACENT INFRASTRUCTURE; EXTEND THRU EXTERIOR WALL TO 90° ELBOW TURNED DOWN W/ INSECT SCREEN PROTECTING OPEN OF TERMINATION
6. PROVIDE 28"Ø GAS VENT UP INSIDE OF EXISTING MASONRY CHIMNEY; SEE KEYNOTE 7 FOR ADDITIONAL INFORMATION
7. DOUBLE WALL SPECIAL GAS VENT TYPICAL OF HEAT-FAB MODEL CI PLUS OR ACCEPTABLE EQUAL; UL-1738 LISTED; SEE PLAN FOR SIZES; PROVIDE MOTORIZED DAMPER AT EACH BOILER W/ INLINE DRAIN INSTALLED DIRECTLY ABOVE DAMPER; AL29-4C STAINLESS STEEL; PROVIDE TEE AT BASE OF STACK AT EACH BOILER W/ DRAIN TO FLOOR DRAIN; MAINTAIN CLEARANCE ABOVE BOILER FOR CLEANING AND MAINTENANCE
8. PROVIDE TEE FITTINGS AT THE BASE OF BREECHING WITH CONDENSATE DRAINS; PROVIDE CONDENSATE PIPING FROM FITTING TO NEAREST FLOOR DRAIN; RUN CONDENSATE THROUGH ACID NEUTRALIZER BEFORE SPILLING TO DRAIN
9. PROVIDE GAS DETECTION SYSTEM TYPICAL OF HONEYWELL E3POINT OR ACCEPTABLE EQUAL; PROVIDE WITH HORN STROBE FOR LOCAL ALARMING WITHIN BOILER ROOM; CONNECT DETECTION SYSTEM TO BAS FOR MONITORING OF ALARMS; PROVIDE 24VAC POWER SOURCE TO DETECTION SYSTEM; SHUT DOWN BOILERS UPON DETECTION OF CARBON MONOXIDE
10. BRAZED PLATE HEAT EXCHANGER; CONNECT TO REFRIGERANT & CHILLED WATER PIPING; SEE PIPING DETAILS ON M004, PROVIDE ALL ACCESSORIES AND SENSORS FOR A COMPLETE INSTALLATION; FULLY INSULATE HEAT EXCHANGER, ALL PIPING, PUMPS, VALVES & ACCESSORIES; MAINTAIN CONTINUOUS VAPOR BARRIER
11. MAGNETIC AIR SEPARATOR / DIRT ELIMINATOR TYP. OF SPIROTHERM VDT400FAM OR EQUAL
12. BUFFER TANK HYDRAULIC SEPARATOR TYPICAL OF LOCHINVAR BVU120 OR ACCEPTABLE EQUAL; 120 GALLON, 3" NPT CONNECTION; JACKETED & INSULATED
13. INDIRECT PLATE & FRAME WATER HEATER TYPICAL OF LOCHINVAR IPW120DW OR ACCEPTABLE EQUAL; ASME DOUBLE WALL 316L STAINLESS STEEL HEAT EXCHANGER
14. EXPANSION TANK TYPICAL OF JOHN WOODS JOER-22-080 OR ACCEPTABLE EQUAL; 80 GALLON, ASME, BLADDER TYPE; INSTALL ON 4" TALL CONCRETE PAD



1 / M301 **Mechanical Plan**
Scale: 1/4" = 1'-0"

KEY PLAN



CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

MATTHEW GEORGE BLAKE
STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
099039

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
MECHANICAL PLAN

Sheet No.
VCHS M301

CONSTRUCTION DOCUMENTS

COPYRIGHT © ALL RIGHTS RESERVED

LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	MANUFACTURER & MODEL	TYPE	VOLTAGE	# OF LAMPS	LAMP WATTS	FIXTURE WATTS	MOUNTING	SIZE	NOTES
A	A	HE WILLIAMS RECESSED DIRECT/INDIRECT DIG-S22-L32/840-AD-DIM-UNV	LED	120	1	25.8	25.8	RECESSED	2'x2'	4000K COLOR TEMPERATURE
B-EM	B-EM	HE WILLIAMS VOLTAIRE ARCHITECTURAL WALL PACK VWPH-L30/740-T3-DBZ-SDGL-EM/10WC-DIM-UNV	LED	120	1	36	36	SURFACE WALL MOUNT	12"x12"	VANDAL RESISTANT; 4000K COLOR TEMPERATURE; W/ LED EMERGENCY 90 MINUTE LOW TEMPERATURE BATTERY BACKUP; UL 924 LISTED FIXTURE
C	C	HE WILLIAMS SURFACE/PENDANT MOUNT WRAP 39-4-L52/840-A	LED	120	1	37	37	PENDANT	4'x10-3/16"	4000K COLOR TEMPERATURE PROVIDE W/ ADJ. Y AIRCRAFT CABLE WITH CANOPIES
D	D	HE WILLIAMS LIGHTING LED VOLTAIRE ARCH SURFACE/GARAGE VG1-L30/740-T5-SM-BLK-WS-FSP-3111-L_-120/277	LED	120	1	36	36	SURFACE MTD.	13"x13"	PROVIDE W/ INTEGRATED MOTION & DAYLIGHT SENSOR; IP66 WET LOCATION RATED
-		HE WILLIAMS LED EMERGENCY LIGHT EMER/LED-WHT-SDT-D	LED	120	2	1.0	2.0	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP
-		HE WILLIAMS LED EXIT & EMERGENCY LIGHT EXIT/EM/LED-R-WHT-RC-SDT-D	LED	120	2	1.5	3.4	UNIVERSAL	-	UL 924 LISTED FIXTURE; 90-MINUTE BATTERY BACKUP; PROVIDE W/ REMOTE HEAD MODEL WETRHL-T-WHT-HL-MV
-		HE WILLIAMS LED EXIT LIGHT EXIT-R-EM-WHT-SDT-D	LED	120	1	3.8	3.8	UNIVERSAL	-	90-MINUTE BATTERY BACKUP

FIRE ALARM LEGEND:

- HORN/STROBE DEVICE, ONE ASSEMBLY; MTD. 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED
- STROBE DEVICE; MTD. 80" A.F.F. UNLESS OTHERWISE NOTED; 15 CANDELA UNLESS OTHERWISE NOTED
- MANUAL PULL STATION; MTD. 48" A.F.F.
- WATER FLOW SWITCH
- VALVE TAMPER SWITCH
- DETECTOR; LETTER INDICATES AS FOLLOWS:
BLANK = SMOKE DETECTOR
P = PHOTOELECTRIC SMOKE
M = MULTIPLE STATION SMOKE ALARM
D = PHOTOELECTRIC DUCT SMOKE DETECTOR
FSD = DUCT SMOKE DETECTOR FOR FIRE SMOKE DAMPER
- RATE OF RISE HEAT DETECTOR, 135°F
- CARBON MONOXIDE DETECTOR; MTD. 60" A.F.F.
- FACP — ADDRESSABLE FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- RTS — REMOTE TEST SWITCH & LED FOR DUCT SMOKE DETECTORS
- R — FIRE ALARM RELAY

SECURITY LEGEND:

- PB — PANIC BUTTON - 18/4 SHIELDED
- IC — INTERCOM
- DR — DOOR RELEASE BUTTON - 16/2 SHIELDED
- WS — WORKSTATION FOR CARD ACCESS & VIDEO SYSTEM
- CR — CARD READER - 22/6 SHIELDED
- REX — REQUEST TO EXIT - 18/4 SHIELDED
- DC — MAGNETIC DOOR CONTACT - 16/2 SHIELDED
- EL — ELECTRIC LOCK - 16/2 SHIELDED

ELECTRICAL LEGEND:

- MOTOR
- EARTH GROUND
- JUNCTION BOX
- E — EMERGENCY POWER OFF BUTTON
- FUSE WITH RATING
- MOLDED CASE CIRCUIT BREAKER
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
- M — METER
- 20A 120V DUPLEX CEILING MOUNTED RECEPTACLE
- 20A 120V DUPLEX WALL MOUNTED RECEPTACLE; 18" A.F.F. UNLESS OTHERWISE NOTED
- 20A 120V DUPLEX WALL MOUNTED RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
- 20A 120V QUADRAPLEX RECEPTACLE
- WALL MOUNTED SPECIAL PURPOSE RECEPTACLE
- USB — 20A 120V WALL MOUNTED USB CHARGER RECEPTACLE TYPICAL OF HUBBELL USB20X OR ACCEPTABLE EQUAL
- F — FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE; FLUSH MOUNTED
- F — FLOOR MOUNTED BOX W/ DUPLEX RECEPTACLE & 2 PORT ETHERNET OUTLET; FLUSH MOUNTED
- F — FLOOR MOUNTED BOX W/ QUAD RECEPTACLE & 2 PORT ETHERNET OUTLET; FLUSH MOUNTED
- W — WALL PHONE OUTLET MTD. 48" A.F.F.; 3/4" EMT CDT. IN WALL TO ABOVE CEILING; PROVIDE 1 PORT ETHERNET WALL PLATE; PROVIDE (1) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT CLOSET
- WALL BOX FOR TELEVISION CONNECTION; 1-1/4" EMT CDT. IN WALL TO ABOVE CEILING W/ PULL CORD
- TELEPHONE/DATA COMMUNICATION BOX W/ (2) 3/4" EMT CDT. IN WALL TO ABOVE CEILING; PROVIDE 2 PORT ETHERNET WALL PLATE; PROVIDE (2) CAT 6E CABLES FROM WALL PLATE TO NEAREST IT CLOSET
- BRANCH CIRCUIT HOMERUN; LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS; ONE SEPARATE GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN
- $2 — SWITCH
BLANK = SINGLE POLE, 2 = DOUBLE POLE
3 = THREE-WAY, 4 = FOUR-WAY
D = DIMMER, K = KEY OPERATED
P = WITH PILOT LIGHT, PB= PUSH BUTTON
T = TIMER OPERATED, WP= WEATHER PROOF
X = EXPLOSION PROOF, OC= OCCUPANCY SENSOR
- OS — DUAL TECHNOLOGY OCCUPANCY SENSOR
- DS — DAYLIGHT SENSOR
- MM — MULTIMEDIA BOX. PROVIDE DEVICE BOX AT 60" ABOVE FINISHED FLOOR WITH DUPLEX RECEPTACLE & (2) CAT6E PORTS. PROVIDE FACEPLATES AND (2) 1-1/4" CONDUITS STUBBED ABOVE CEILING. (1) W/ CAT6E CABLES RUN TO NEAREST IT CLOSET & (1) W/ PULL CORD FOR FUTURE HDMI. RECESS MOUNT BOX TYPICAL OF WIREMOLD EVOLUTION SERIES WITH CONCEALED CONDUITS IN EXISTING FRAMED WALLS AND ALL NEW WALLS. PROVIDE SURFACE MOUNT BOXES WITH DUAL CHANNEL SURFACE MOUNT RACEWAY (LEGRAND WIREMOLD 5400 SERIES) WHERE INSTALLED ON EXISTING MASONRY WALLS.

ELECTRICAL NOTES:

1. 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.
2. 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.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
4. ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
5. ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
6. A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT 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.
7. 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.
8. EQUIPMENT AND MATERIALS FOR WHICH UNDERWRITERS LABORATORIES INC. (UL) PROVIDES PRODUCT LISTING SERVICE SHALL BE LISTED AND BEAR THE LISTING MARK.
9. ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2015 NATIONAL ELECTRIC CODE, 2020 BUILDING CODE OF NEW YORK STATE, 2020 FIRE CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
10. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED FULLY LAMPED AND OPERABLE. THE CONTRACTOR SHALL TURN OVER TO THE OWNER SPARE LAMPS OF EVERY TYPE ON THE PROJECT IN AN AMOUNT NOT LESS THAN 20% OF THE TOTAL NUMBER OF EACH TYPE (MINIMUM 1 PER TYPE).
11. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL UTILITY COMPANY AND/OR THE TELEPHONE COMPANY. ALL WORK INVOLVING THE UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
12. ALL CONDUCTORS SHALL BE COPPER, SHALL NOT BE LESS THAN #12 AWG, AND SHALL NOT EXCEED 70 FEET FROM PANEL BOARD TO FURTHEST CONNECTION UNLESS OTHERWISE NOTED ON PLANS.
13. LIGHTING LOADS SHALL NOT BE COMBINED ON THE SAME CIRCUIT AS ANY OTHER ELECTRICAL LOADS.
14. CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL SMALL DETAILS AND INCIDENTAL WORK NOT SHOWN OR SPECIFIED, BUT WHICH CAN BE REASONABLY INFERRED AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM OF HIGH QUALITY MEETING ALL APPLICABLE CODES AND REGULATIONS.
15. FOR EACH NEW OR MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD TO REFLECT ALL CIRCUITING. ADDITIONALLY, THE CONTRACTOR SHALL LABEL (WITH A PERMANENT MARKER OR LABEL) EACH RECEPTACLE ON THE INSIDE OF EACH FACE PLATE WITH PANEL AND CIRCUIT NUMBER DESIGNATION.
16. MINIMUM REQUIREMENT FOR EQUIPMENT GROUNDING SHALL BE GOVERNED BY THE NEC. ALL GROUNDS, BONDING, ETC. SHALL MEET THESE REQUIREMENTS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL ITEMS NECESSARY TO MEET THESE REQUIREMENTS AT NO EXTRA COST, EVEN IF SUCH ITEMS ARE NOT DETAILED ON THE DRAWINGS.
17. ALL CONDUIT AND CABLE 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.
18. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, WIRING, DEVICES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
19. 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.

WIRE COLOR CODING TABLE

PHASE	WIRES	VOLTAGE	L1	L2	L3	NEUTRAL	GROUND
1	2 (1)	120	BLACK	-	-	WHITE	-
1	2 (1)	208	BLACK	RED	-	-	-
1	3	120	BLACK	-	-	WHITE	GREEN (2)
1	3	208	BLACK	RED	-	-	GREEN (2)
3	4	208	BLACK	RED	BLUE	-	GREEN (2)
3	5	208	BLACK	RED	BLUE	WHITE	GREEN (2)
1	3	277	BROWN	-	-	GRAY	GREEN (2)
1	3	480	BROWN	ORANGE	-	-	GREEN (2)
3	4	480	BROWN	ORANGE	YELLOW	-	GREEN (2)
3	5	480	BROWN	ORANGE	YELLOW	GRAY	GREEN (2)

NOTES:
1. FOR DOUBLE INSULATED EQUIPMENT ONLY.
2. GREEN/YELLOW MAY BE USED:
   - GREEN/YELLOW SHALL BE GREEN WITH ONE OR MORE YELLOW STRIPES.
   - GREEN = 50 TO 70%, YELLOW = 50 TO 30%.
   - GREEN/YELLOW IS THE ONLY COLOR INTERNATIONALLY ACCEPTED FOR USE AS AN EQUIPMENT GROUNDING CONDUCTOR.
   - GREEN OR GREEN/YELLOW MUST ONLY BE USED FOR GROUNDING CONDUCTORS.

DEVICE MOUNTING HEIGHTS

POWER RECEPTACLES (INTERIOR)	18" A.F.F.
POWER RECEPTACLES (EXTERIOR)	36" A.F.G.
POWER RECEPTACLES (@ COUNTER)	44" A.F.F.
LIGHT SWITCHES	44" A.F.F. TO TOP OF DEVICE
DISCONNECT SWITCHES	SEE NEC 404.8(A)
TELEPHONE/DATA RECEPTACLES	18" A.F.F.
TELEPHONE/DATA RECEPTACLES (@ COUNTER)	44" A.F.F.
WALL TELEPHONE RECEPTACLES	48" A.F.F. TO TOP OF DEVICE
FIRE ALARM PULL STATIONS	42" A.F.F. MIN./44" A.F.F. MAX.
FIRE ALARM AUDIO/VISUAL DEVICES	80" A.F.F. MIN./96" A.F.F. MAX.
EXIT LIGHTS (WALL MOUNTED)	12" ABOVE DOOR
EMERGENCY LIGHTS (WALL MOUNTED)	90" A.F.F.
TV & A/V OUTLETS	18" A.F.F.
NOTE: ALL DIMENSIONS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED	

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 561 3179 www.csarchpc.com

Consultant

BLAKE ENGINEERING PLLC
481 ROUTE 59 SUITE 2A, SUFFERN, NEW YORK 10901

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK · MATTHEW GEORGE BLAKE · 089039 · LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

ELECTRICAL NOTES, LEGEND, DETAILS & SCHEDULES

Sheet No.

VCHS E001

CONSTRUCTION DOCUMENTS

120/208V 3Ø 4W+G — BUS RATING: 200A — MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
CHILLER	EXISTING WIRING	20	1				2	20	-	SPARE
PUMP # 1 & 2	EXISTING WIRING	60	3				4	60	EXISTING WIRING	PUMP # 3 & 4
ACC	EXISTING WIRING	50	5				6	30	EXISTING WIRING	TANK MONITOR PANEL
EXISTING PANEL				-	-	-			- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

1 E002 Existing Panelboard BP
Scale: None

120/208V 3Ø 4W+G — BUS RATING: 225A — MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
			1				2			
VACUUM PUMPS	EXISTING WIRING	30	3				4	40	EXISTING WIRING	AC RTO AD OFFICE
			5				6			
SUMP PUMPS	EXISTING WIRING	50	7				8	20	-	SPARE
			9				10	60	EXISTING WIRING	SHED
			11				12			
CIRCULATOR PUMPS	EXISTING WIRING	40	13				14	40	EXISTING WIRING	EXISTING LOAD
			15				16			
			17				18			
SEWER PUMPS	EXISTING WIRING	30	19				20	20	EXISTING WIRING	NEW COMPRESSOR
			21				22			
			23				24			
SPARE	-	20	25				26	20	EXISTING WIRING	PUMP 2
SPARE	-	20	27				28			
SPARE	-	20	29				30			
BOILER ROOM LIGHTS	EXISTING WIRING	20	31				32	100	EXISTING WIRING	PUMP 1
BOILER ROOM LIGHTS	EXISTING WIRING	20	33				34			
EXISTING LOAD	EXISTING WIRING	20	35				36			
			37				38			
WELL PUMP	EXISTING WIRING	50	39				40	100	EXISTING WIRING	SPACE
			41				42			
EXISTING PANEL				-	-	-			- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

2 E002 Existing Panelboard C
Scale: None

120/208V 3Ø 4W+G — BUS RATING: 225A — MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
PARKING LOTS 2 & 3	EXISTING WIRING	20	1				2	20	EXISTING WIRING	PARKING LOT #4
EXISTING LOAD	EXISTING WIRING	20	3				4	20	-	PARKING LOT #4
SPARE	-	20	5				6	20	-	PARKING LOT #4
TECH LAB	EXISTING WIRING	20	7				8	20	EXISTING WIRING	PARKING LOT #4
PARKING LOT #3	EXISTING WIRING	20	9				10	20		EXISTING LOAD
PARKING LOT #1	EXISTING WIRING	20	11				12	20	EXISTING WIRING	PARKING LOT #5
			13				14	20	-	PARKING LOT #6
FCU BOILER ROOM	-	20	15				16	20	EXISTING WIRING	PARKING LOT #6
			17				18	20	EXISTING WIRING	PARKING LOT #6
SIEMAN'S PANEL	EXISTING WIRING	20	19				20	20	EXISTING WIRING	EXISTING LOAD
SPARE	-	20	21				22	20	EXISTING WIRING	EXISTING LOAD
SPARE	-	20	23				24	20	EXISTING WIRING	EXISTING LOAD
SPARE	-	20	25				26	20	-	SPARE
SPARE	-	20	27				28	20	-	SPARE
SPARE	-	20	29				30	20	-	SPARE
SPARE	-	20	31				32	20	-	SPARE
SPARE	-	20	33				34	20	-	SPARE
SPARE	-	20	35				36	20	-	SPARE
SPARE	-	20	37				38	20	-	SPACE
SPARE	-		39				40		-	SPACE
SPACE	-		41				42		-	SPACE
EXISTING PANEL				-	-	-			- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

3 E002 Existing Panelboard T
Scale: None

120/208V 3Ø 4W+G — BUS RATING: 225A — MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
FAN ROOM 210	EXISTING WIRING	15	1				2	15	EXISTING WIRING	LAB TABLE RECP., & RM 210
SPARE TO CEILING BELOW 210	EXISTING WIRING	15	3				4	15	EXISTING WIRING	LAB TABLE RECP. RM 210
GYM SOUND BOARD	EXISTING WIRING	20	5				6	20	EXISTING WIRING	SPARE CEILING BELOW 210
FUME HOOD TO RM 210	EXISTING WIRING	20	7				8	20	EXISTING WIRING	KITCHEN HW HEAT
FUME HOOD UNDER RM 210	EXISTING WIRING	20	9				10	20	EXISTING WIRING	TANK LEVER CONTROL PANEL
FIRE ALARM PANEL PL	EXISTING WIRING	20	11				12	20	EXISTING WIRING	HW HEATER ALT
FUME HOOD FAN	EXISTING WIRING	20	13				14	20		SPARE
FUME HOOD FAN	EXISTING WIRING	20	15				16	15	EXISTING WIRING	HWRC PUMP 1
FUME HOOD FAN	EXISTING WIRING	20	17				18	15	EXISTING WIRING	HWRC PUMP 2
SPARE	EXISTING WIRING	15	19				20	15	EXISTING WIRING	HWRC PUMP 3
SPARE	EXISTING WIRING	15	21				22	15	-	SPARE
HVAC CONT. PANEL	EXISTING WIRING	20	23				24	15	-	SPARE
GYM HALLWAY	EXISTING WIRING	20	25				26	15	-	SPARE
GYM HALLWAY	EXISTING WIRING	20	27				28	15	-	SPARE
BOOSTER PUMP, CONTROL PANEL	EXISTING WIRING	50	29				30			
			31				32	50	EXISTING WIRING	TEMP SHED
			33				34			
SPACE	-		35				36		-	SPACE
SPACE	-		37				38		-	SPACE
SPACE	-		39				40		-	SPACE
SPACE	-		41				42		-	SPACE
EXISTING PANEL				-	-	-			- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

4 E002 Existing Panelboard HA1
Scale: None

120/208V 3Ø 4W+G — BUS RATING: 225A — MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
LIGHTS RMS. 104, 105, 112	EXISTING WIRING	20	1				2	20	EXISTING WIRING	LIGHTS RM. 128, 145
LIGHTS RM. 127	EXISTING WIRING	20	3				4	20	-	LIGHTS RM. 129
LIGHTS RM. 130	EXISTING WIRING	20	5				6	20	-	SPARE
LIGHTS CORR. 131	EXISTING WIRING	20	7				8	20	EXISTING WIRING	LIGHTS CORR. 131
LIGHTS COURTYARD	-	20	9				10	20	-	LIGHTS RM156, 157&COR 133
LIGHTS CORR. 132	EXISTING WIRING	20	11				12	20	EXISTING WIRING	RECP. 104,105,112,129
RECP. 127, 128	EXISTING WIRING	20	13				14	20	-	RECP. 128, 129
RECP. 127, 128	-	20	15				16	20	EXISTING WIRING	RECP. 129, 130
RECP. 129, 130	-	20	17				18	20	EXISTING WIRING	POOL LOBBY, CORR. 131
SPARE	EXISTING WIRING	20	19				20			
UV 129, 130	EXISTING WIRING	20	21				22	20	EXISTING WIRING	UV 127, 128
E.F. #1	EXISTING WIRING	20	23				24	20	EXISTING WIRING	RECP. 156, 157 & CH#10
CH# 1&7	EXISTING WIRING	20	25				26	20	EXISTING WIRING	CH#2 & 11, 12
FIRE ALARM SYSTEM-156	EXISTING WIRING	20	27				28	20	EXISTING WIRING	SPARE
RECP. CORR. 132, 133	-	20	29				30	20	EXISTING WIRING	RECP. CORR. 131, 132
			31				32			
ROOM 143	-	20	33				34	20	-	SPARE
			35				36		-	SPACE
SPACE	-		37				38		-	SPACE
SPACE	-		39				40		-	SPACE
SPACE	-		41				42		-	SPACE
EXISTING PANEL				-	-	-			- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

5 E002 Existing Panelboard H
Scale: None

120/208V 3Ø 4W+G — BUS RATING: 125A — MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
LIGHTS ROOM 128	EXISTING WIRING	20	1				2	20	EXISTING WIRING	OUTLETS ROOM 129
LIGHTS ROOM 129	EXISTING WIRING	20	3				4	20	EXISTING WIRING	OUTLETS ROOM 128
LIGHTS ROOM 127	EXISTING WIRING	20	5				6	20	EXISTING WIRING	OUTLETS ROOM 127
LIGHTS ROOM 126	EXISTING WIRING	20	7				8	20	EXISTING WIRING	OUTLETS ROOM 126
SPARE	-	20	9				10	20	-	SPARE
ELEVATOR PIT LIGHTS	EXISTING WIRING	20	11				12	20	EXISTING WIRING	MACHINE ROOM OUTLET
ELEVATOR PIT OUTLETS	EXISTING WIRING	20	13				14	20	EXISTING WIRING	CUV RM 129 128 127 126
ELEVATOR CONTROLS	EXISTING WIRING	20	15				16	30	EXISTING WIRING	CUV ELEVATOR LOBBY
ELEVATOR CONTROLS	EXISTING WIRING	20	17				18			
TECH LAB	EXISTING WIRING	20	19				20			
HEAT PUMPS AREA J	EXISTING WIRING	20	21				22	20	EXISTING WIRING	A/C ROOM 143, HEAT PUMPS AREA J
			23				24			
			25				26	20	EXISTING WIRING	A/C ROOM 143
TWO WATER COOLERS	EXISTING WIRING	20	27				28			
			29				30			
			31				32			
			33				34			
			35				36			
			37				38			
			39				40			
			41				42			
EXISTING PANEL				-	-	-			- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

6 E002 Existing Panelboard HH1
Scale: None

120/208V 3Ø 4W+G — BUS RATING: 400A — MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
SUB-FEED-PANEL D	EXISTING WIRING	150	1				2	200	EXISTING WIRING	SUB-FEED-PANEL E
SUB-FEED-PANEL C	EXISTING WIRING	150	3				4	150	EXISTING WIRING	SUB-FEED-PANEL B
SUB-FEED-PANEL H	EXISTING WIRING	100	5				6	100	-	SPARE
EXIT LIGHTS - WEST	EXISTING WIRING	20	7				8	20		SPARE
EXIT LIGHTS - EAST	EXISTING WIRING	20	9				10	20	EXISTING WIRING	HWRC PUMP 1
EXISTING PANEL				-	-	-			- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

7 E002 Existing Panelboard A
Scale: None

120/208V 3Ø 4W+G — BUS RATING: 225A — MLO

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
ROOM 146 RECPS.	EXISTING WIRING	20	1				2	20	EXISTING WIRING	ROOM 140A RECP.
ROOM 146 RECPS.	EXISTING WIRING	20	3				4	20	EXISTING WIRING	ROOM 140B RECP.
ROOM 145 RECPS.	EXISTING WIRING	20	5				6	20	EXISTING WIRING	ROOM 141A RECP.
POOL CUSTODIAN	EXISTING WIRING	20	7				8	20	EXISTING WIRING	ROOM 142A RECP.
POOL CUSTODIAN	EXISTING WIRING	20	9				10	20	EXISTING WIRING	ROOM 141B RECP.
POOL OFFICE	EXISTING WIRING	20	11				12	20	EXISTING WIRING	ROOM 142B RECP.
SPARE	-	20	13				14	20	EXISTING WIRING	ROOM 143 RECP.
SPARE	-	20	15				16	20	EXISTING WIRING	ROOM 144 RECP.
SPARE	-	20	17				18	20	EXISTING WIRING	HALL RECEPTACLE
SPARE	-	20	19				20			
SPARE	-	20	21				22	20	EXISTING WIRING	PANEL HHC2 NEAR LANGUAGE OFFICE
SPARE	-	20	23				24			
SPARE	-	20	25				26	20	-	SPARE
SPARE	-	20	27				28	20	-	SPARE
SPARE	-	20	29				30	20	-	SPARE
ROOM 143 OUT	EXISTING WIRING	20	31				32	20	-	SPARE
ROOM 143	EXISTING WIRING	20	33				34	20	-	SPARE
ROOM 143	EXISTING WIRING	20	35				36	20	-	SPARE
SPACE	-		37				38		-	SPACE
SPACE	-		39				40		-	SPACE
SPACE	-		41				42		-	SPACE
EXISTING PANEL				-	-	-			- kVA TOTAL	

- PROVIDE NEW CIRCUIT BREAKERS FOR ALL NEW OR MODIFIED CIRCUITS; BREAKERS SHALL MATCH EXISTING TYPE AND RATING
- PANEL SCHEDULE SHOWN BASED ON EXISTING DIRECTORY, CONTRACTOR SHALL VERIFY IN FIELD & ADJUST CIRCUIT LAYOUT AS NEEDED BASED ON AVAILABLE POSITIONS

8 E002 Existing Panelboard HHC1
Scale: None

COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENERGY MODELING
845-565-1100 BLAKE@BLAKEENGINEERING.COM

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

STATE OF NEW YORK — MATTHEW GEORGE BLAKE — 099039 — LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ELECTRICAL PANEL SCHEDULES

Sheet No.
VCHS E002

CONSTRUCTION DOCUMENTS

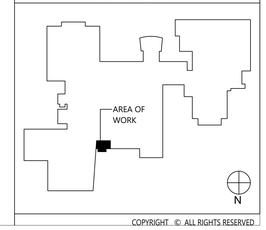


Key Notes:

1. EXISTING CABINET UNIT HEATER 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 DOOR OPERATOR & ADA PADDLE SWITCH TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
4. DISCONNECT, REMOVE & PROPERLY DISPOSE OF PA ZONE PANEL & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE; MAINTAIN CONTINUITY OF EXISTING FIRE ALARM CIRCUITS
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 POWER POLE TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
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

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

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845-561-3179 www.csarchpc.com

Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING SERVICES

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

STATE OF NEW YORK
MATTHEW GEORGE WAKE
089039
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

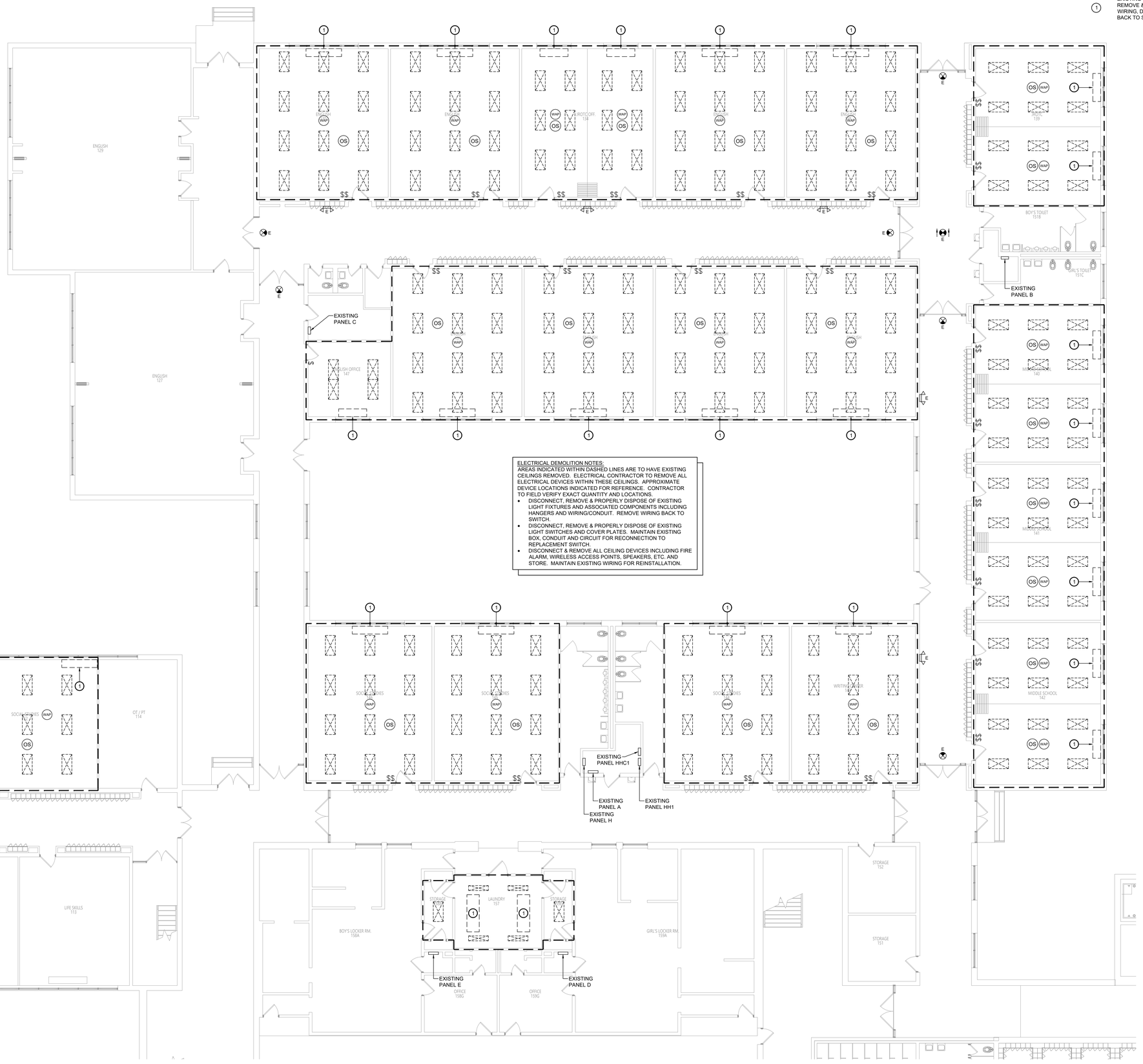
Sheet Title
ELECTRICAL DEMOLITION PLAN

Sheet No.
VCHS ED111

CONSTRUCTION DOCUMENTS

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



ELECTRICAL DEMOLITION NOTES:
AREAS INDICATED WITHIN DASHED LINES ARE TO HAVE EXISTING CEILINGS REMOVED. ELECTRICAL CONTRACTOR TO REMOVE ALL ELECTRICAL DEVICES WITHIN THESE CEILINGS. APPROXIMATE DEVICE LOCATIONS INDICATED FOR REFERENCE. CONTRACTOR TO FIELD VERIFY EXACT QUANTITY AND LOCATIONS.

- DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING LIGHT FIXTURES AND ASSOCIATED COMPONENTS INCLUDING HANGERS AND WIRING/CONDUIT. REMOVE WIRING BACK TO SWITCH.
- DISCONNECT, REMOVE & PROPERLY DISPOSE OF EXISTING LIGHT SWITCHES AND COVER PLATES. MAINTAIN EXISTING BOX, CONDUIT AND CIRCUIT FOR RECONNECTION TO REPLACEMENT SWITCH.
- DISCONNECT & REMOVE ALL CEILING DEVICES INCLUDING FIRE ALARM, WIRELESS ACCESS POINTS, SPEAKERS, ETC. AND STORE. MAINTAIN EXISTING WIRING FOR REINSTALLATION.

1 ED211 **Electrical Demolition Plan**
Scale: 1/8" = 1'-0"

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING SERVICES
845-565-1100 | 845-565-1102 | WWW.BLAKEENGINEERING.COM

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title



#	DATE	DESCRIPTION

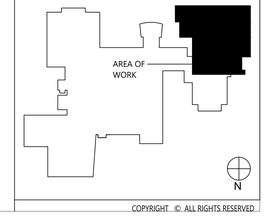
Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ELECTRICAL DEMOLITION PLAN

Sheet No.
VCHS ED211

CONSTRUCTION DOCUMENTS

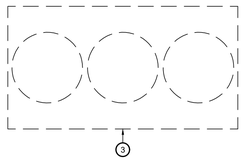
KEY PLAN

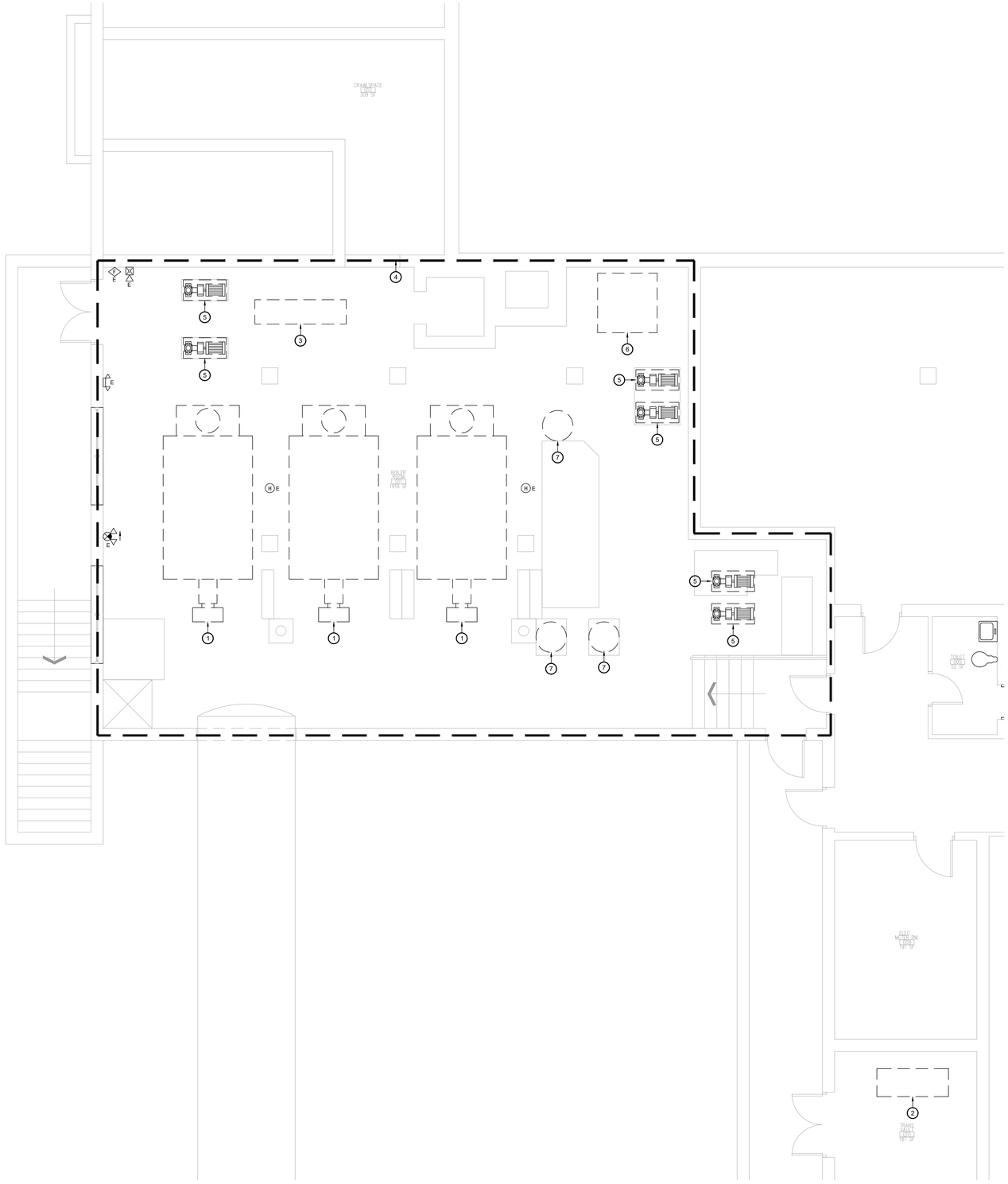


COPYRIGHT © ALL RIGHTS RESERVED

Key Notes:

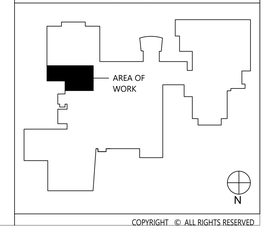
1. EXISTING BOILER TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
2. EXISTING AIR COMPRESSOR TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, MOTOR STARTERS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
3. EXISTING CHILLER TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, MOTOR STARTERS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
4. DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL LIGHTING WITHIN BOILER ROOM; MAINTAIN EXISTING CIRCUIT AND SWITCHES FOR RECONNECTION TO REPLACEMENT LIGHTING
5. EXISTING PUMP TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, MOTOR STARTERS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
6. EXISTING FEEDWATER SYSTEM TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, MOTOR STARTERS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
7. EXISTING WATER HEATER TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE





1 ED301 Electrical Demolition Plan
Scale: 1/4" = 1'-0"

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com

Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTING & ENGINEERING
845-527-2000 FAX 845-527-2020

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
090670
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

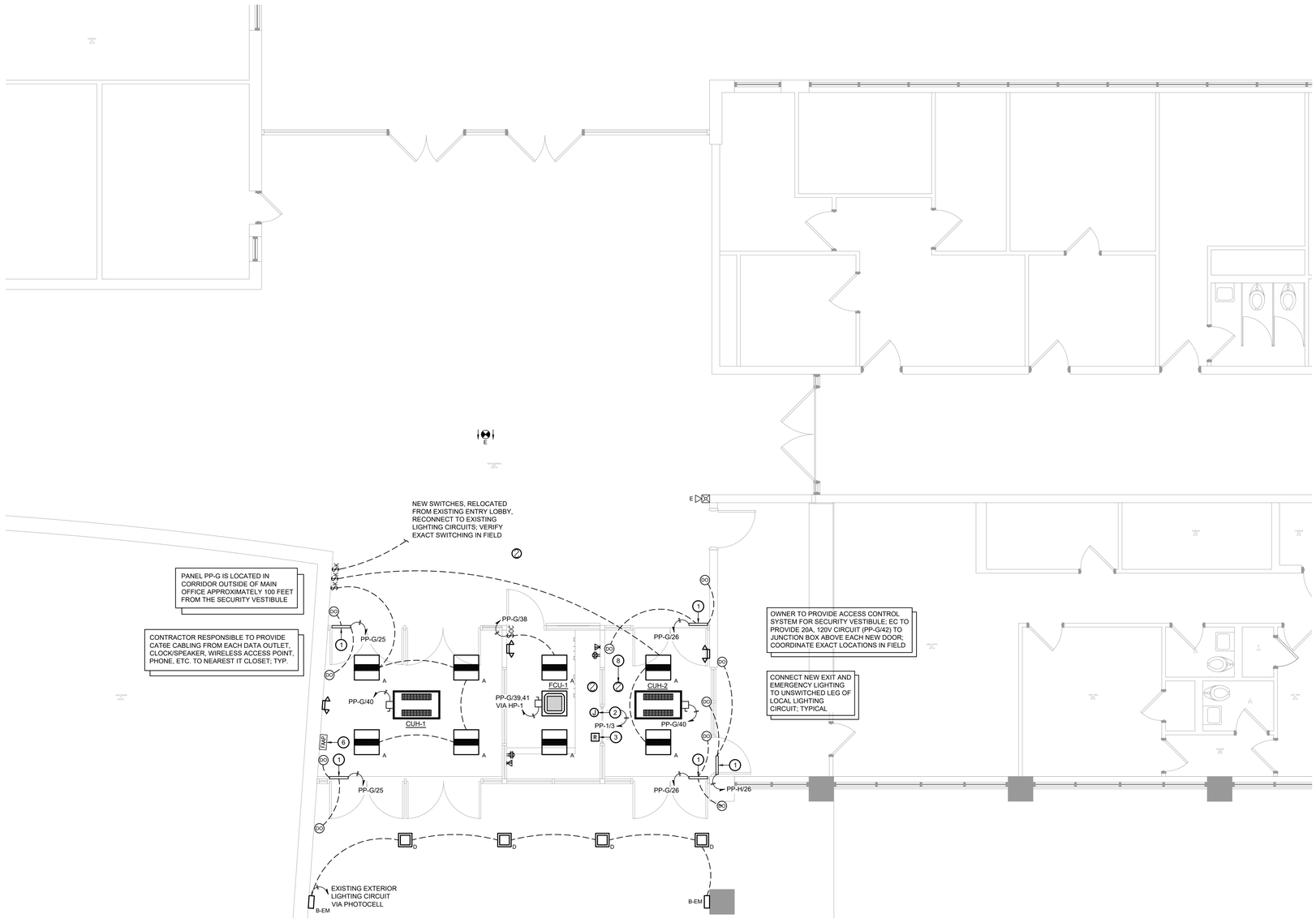
Sheet Title
ELECTRICAL DEMOLITION PLAN

Sheet No.
VCHS ED301

CONSTRUCTION DOCUMENTS

Key Notes:

1. PROVIDE NEW 120V ELECTRICAL CONNECTION FOR DOOR HARDWARE, INCLUDING MAGNETIC DOOR HOLDERS
2. PROVIDE NEW 120V ELECTRICAL CONNECTION FOR FIRE SHUTTER
3. FIRE ALARM RELAY; FIRE SHUTTER TO CLOSE UPON ACTIVATION OF FIRE ALARM
4. ELECTRIC STRIKE TO BE CONTROLLED BY DOOR RELEASE BUTTON IN SECURITY BOOTH
5. EXISTING LIGHT FIXTURE TO REMAIN; PROVIDE NEW SWITCH(ES) AS SHOWN; CONNECT TO EXISTING CIRCUIT
6. EXISTING FIRE ALARM ANNUNCIATOR PANEL & GRAPHIC DISPLAY 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. PROVIDE SMOKE DETECTORS ON BOTH SIDES OF THE AUTOMATIC FIRE SHUTTER AT THE TRANSACTION WINDOW; CONNECT TO THE EXISTING BUILDING FIRE ALARM SYSTEM



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

CSARCH
19 Front St. Newburgh, New York 12550-7601
845-561-3179 www.csarchpc.com

Consultant

BLAKE ENGINEERING PLLC
MEP/FP CONSULTING ENGINEERS
845-987-2900 | 845-987-2901 | WWW.BLAKEENGINEERING.COM

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

STATE OF NEW YORK
MATTHEW GEORGE BLAKE
089039
LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

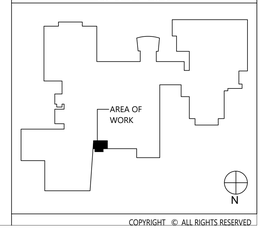
Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ELECTRICAL PLAN

Sheet No.
VCHS E111

CONSTRUCTION DOCUMENTS

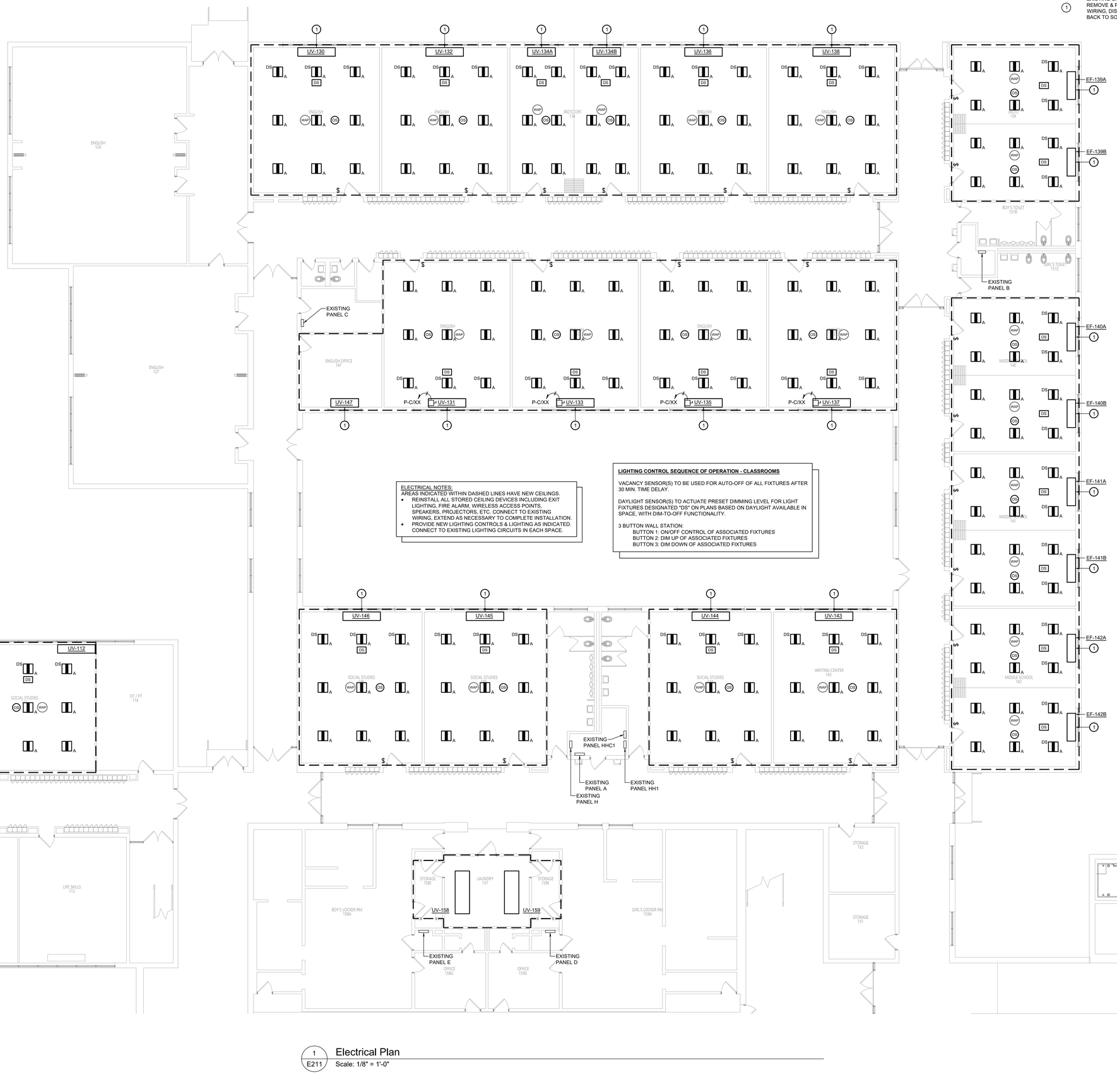
KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

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



ELECTRICAL NOTES:
AREAS INDICATED WITHIN DASHED LINES HAVE NEW CEILINGS.

- REINSTALL ALL STORED CEILING DEVICES INCLUDING EXIT LIGHTING, FIRE ALARM, WIRELESS ACCESS POINTS, SPEAKERS, PROJECTORS, ETC. CONNECT TO EXISTING WIRING, EXTEND AS NECESSARY TO COMPLETE INSTALLATION.
- PROVIDE NEW LIGHTING CONTROLS & LIGHTING AS INDICATED. CONNECT TO EXISTING LIGHTING CIRCUITS IN EACH SPACE.

LIGHTING CONTROL SEQUENCE OF OPERATION - CLASSROOMS

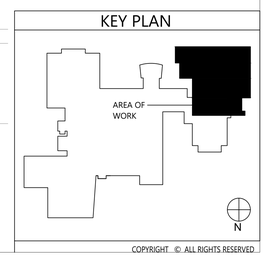
VACANCY SENSOR(S) TO BE USED FOR AUTO-OFF OF ALL FIXTURES AFTER 30 MIN. TIME DELAY.

DAYLIGHT SENSOR(S) TO ACTUATE PRESET DIMMING LEVEL FOR LIGHT FIXTURES DESIGNATED "DS" ON PLANS BASED ON DAYLIGHT AVAILABLE IN SPACE, WITH DIM-TO-OFF FUNCTIONALITY.

3 BUTTON WALL STATION:
BUTTON 1: ON/OFF CONTROL OF ASSOCIATED FIXTURES
BUTTON 2: DIM UP OF ASSOCIATED FIXTURES
BUTTON 3: DIM DOWN OF ASSOCIATED FIXTURES

1 / E211 **Electrical Plan**
Scale: 1/8" = 1'-0"

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

CSARCH
19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
Consultant
BLAKE ENGINEERING PLLC
MECHANICAL ELECTRICAL PLUMBING FIRE PROTECTION
845-565-1100 FAX 845-565-1373 WWW.BLAKEENGINEERING.COM

VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

STATE OF NEW YORK MATTHEW GEORGE BLAKE 089039 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

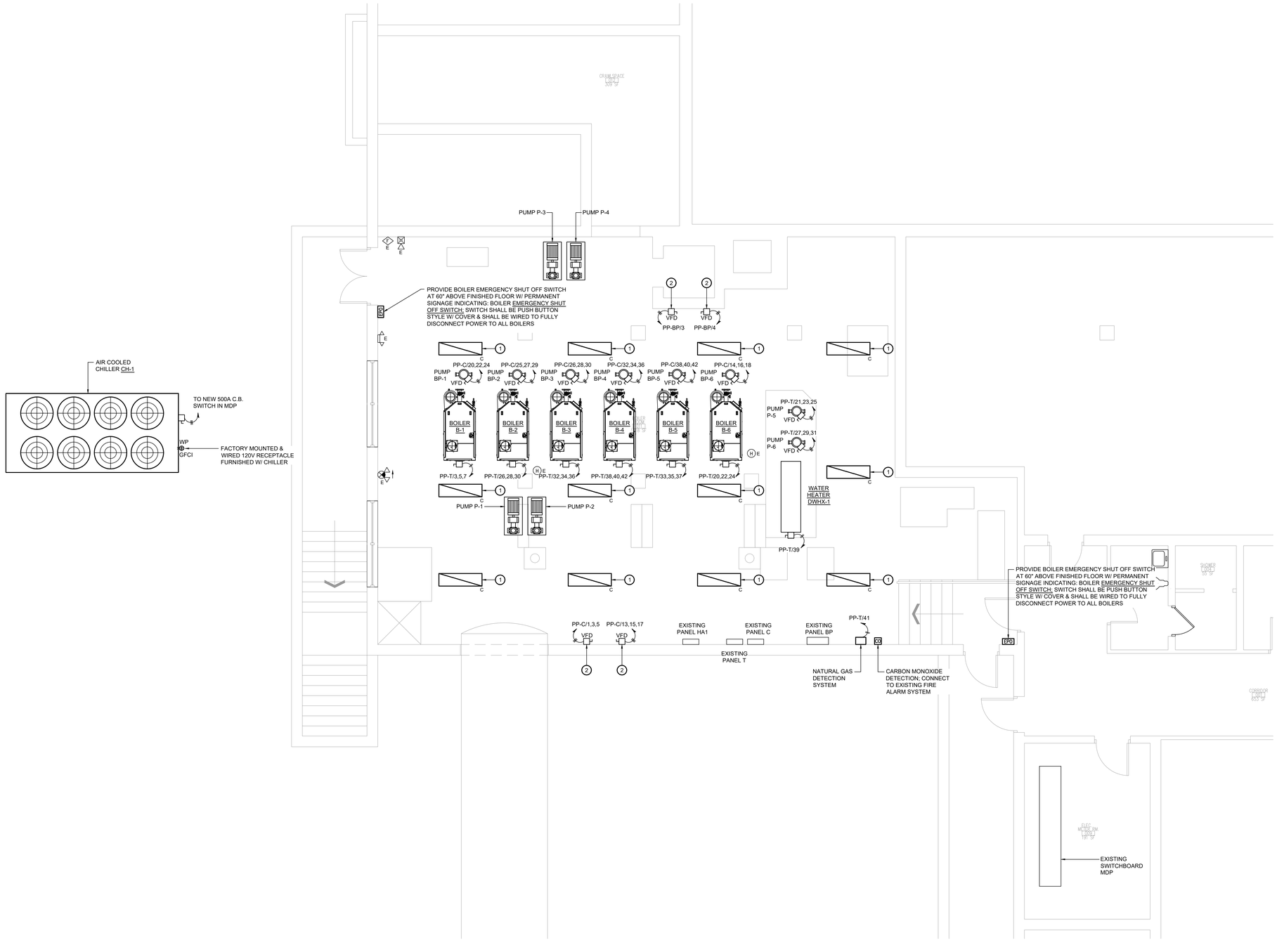
Sheet Title
ELECTRICAL PLAN

Sheet No.
VCHS E211

CONSTRUCTION DOCUMENTS

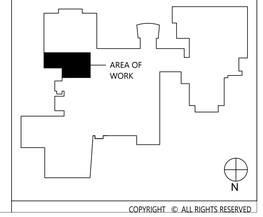
Key Notes:

1. NEW LIGHT FIXTURE; CONNECT TO EXISTING LIGHTING CIRCUIT & SWITCHING SERVING BOILER ROOM; FIELD VERIFY EXACT LAYOUT BASED ON EXISTING INFRASTRUCTURE & LAYOUT OF NEW PIPING & EQUIPMENT WITHIN SPACE
2. VFD FURNISHED BY MECHANICAL CONTRACTOR W/ PUMP; ELECTRICAL CONTRACTOR TO MOUNT & WIRE VFD



1 / E301 **Electrical Plan**
Scale: 1/4" = 1'-0"

KEY PLAN



COPYRIGHT © ALL RIGHTS RESERVED

19 Front St. Newburgh, New York 12550-7601
845 - 561 - 3179 www.csarchpc.com
CSARCH
Consultant
BLAKE ENGINEERING PLLC
MEP/FP CONSULTANTS & ENERGY RATING SERVICES
www.BLAKEENGINEERINGPLLC.COM

Project Title
VALLEY CENTRAL SCHOOL DISTRICT
VALLEY CENTRAL HIGH SCHOOL
2023 CAPITAL PROJECT - PHASE 1

STATE OF NEW YORK MATTHEW GEORGE BLAKE 079078 LICENSED PROFESSIONAL ENGINEER

#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-015-033
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ELECTRICAL PLAN

Sheet No.
VCHS E301

CONSTRUCTION DOCUMENTS