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

ISSUED FOR BID: 10/18/24

CSARCH - ARCHITECTS
BLAKE ENGINEERING, PLLC - M.E.P. ENGINEERS
PASSERO ASSOCIATES - SITE/CIVIL AND STRUCTURAL ENGINEERS
AECC ENVIRONMENTAL CONSULTING - HAZARDOUS MATERIALS DESIGNERS

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:
2023 CAPITAL PROJECT - PHASE 1 44-13-01-06-0-017-014

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

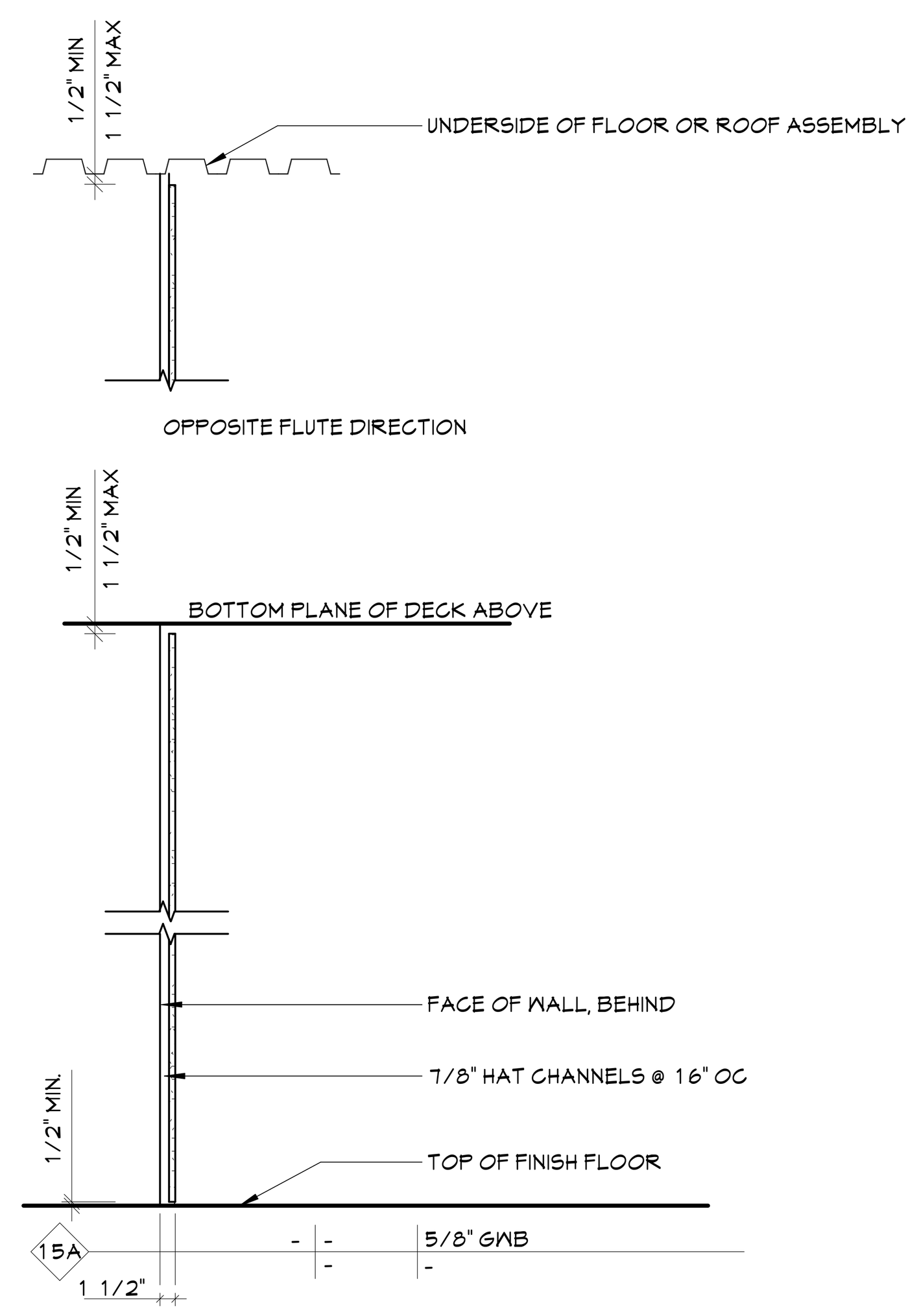
VICINITY MAP NTS

DRAWING LIST

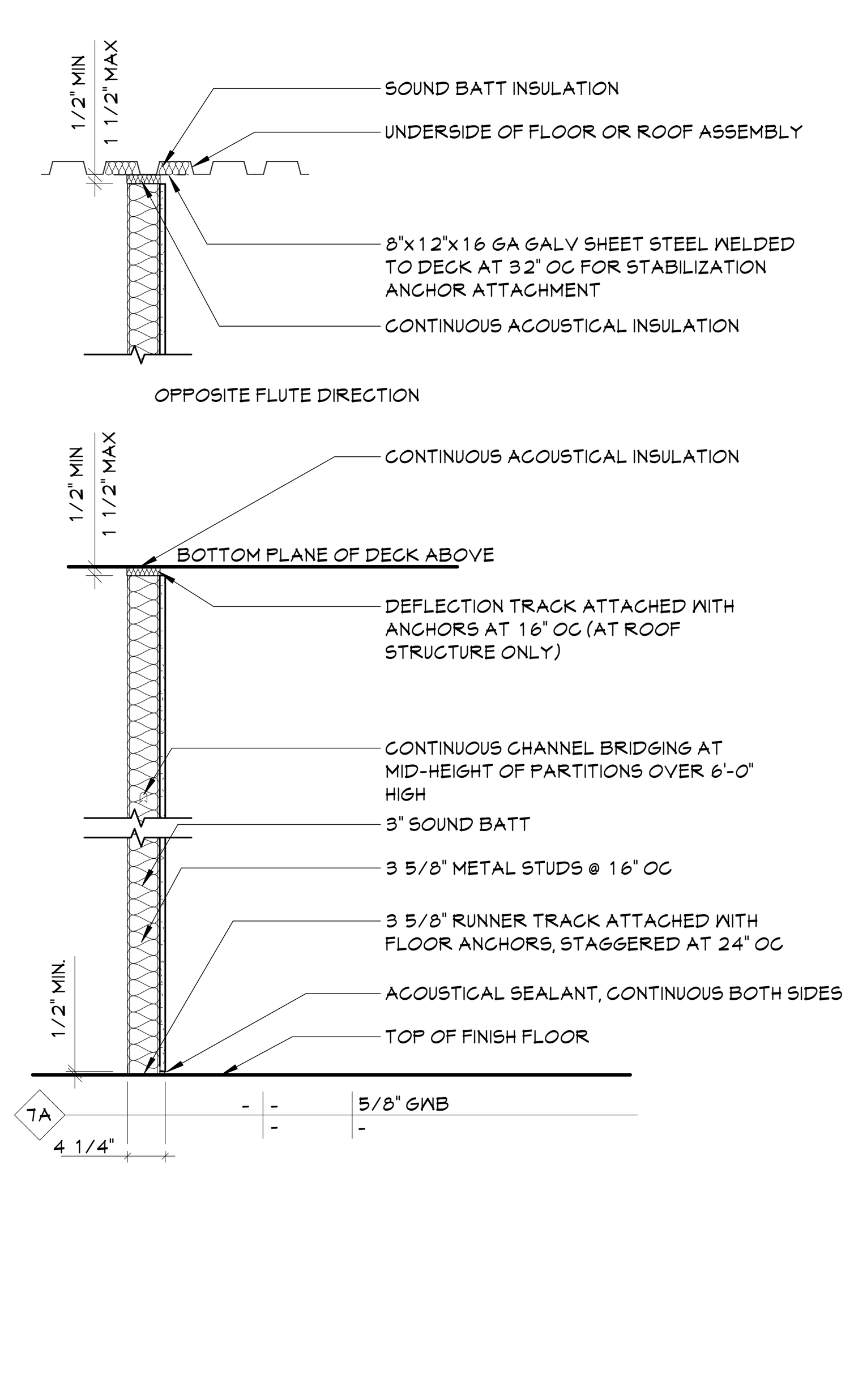
REGISTERED ARCHITECT
THOMAS M. RITZENTHALER
023344
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

VOLUME 1 OF 8



5 PARTITION TYPE '15'
A701 3/4" = 1'-0"



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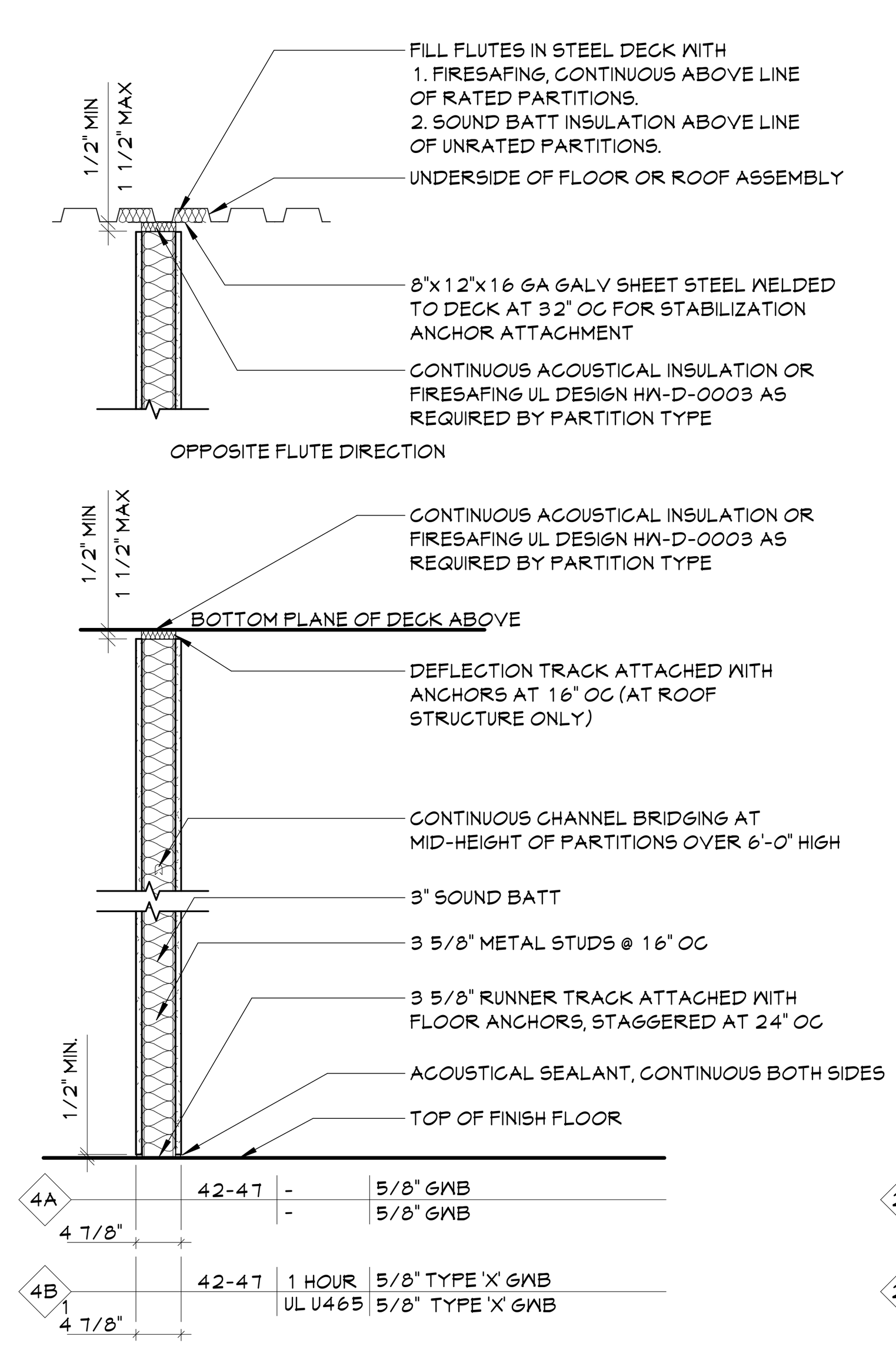
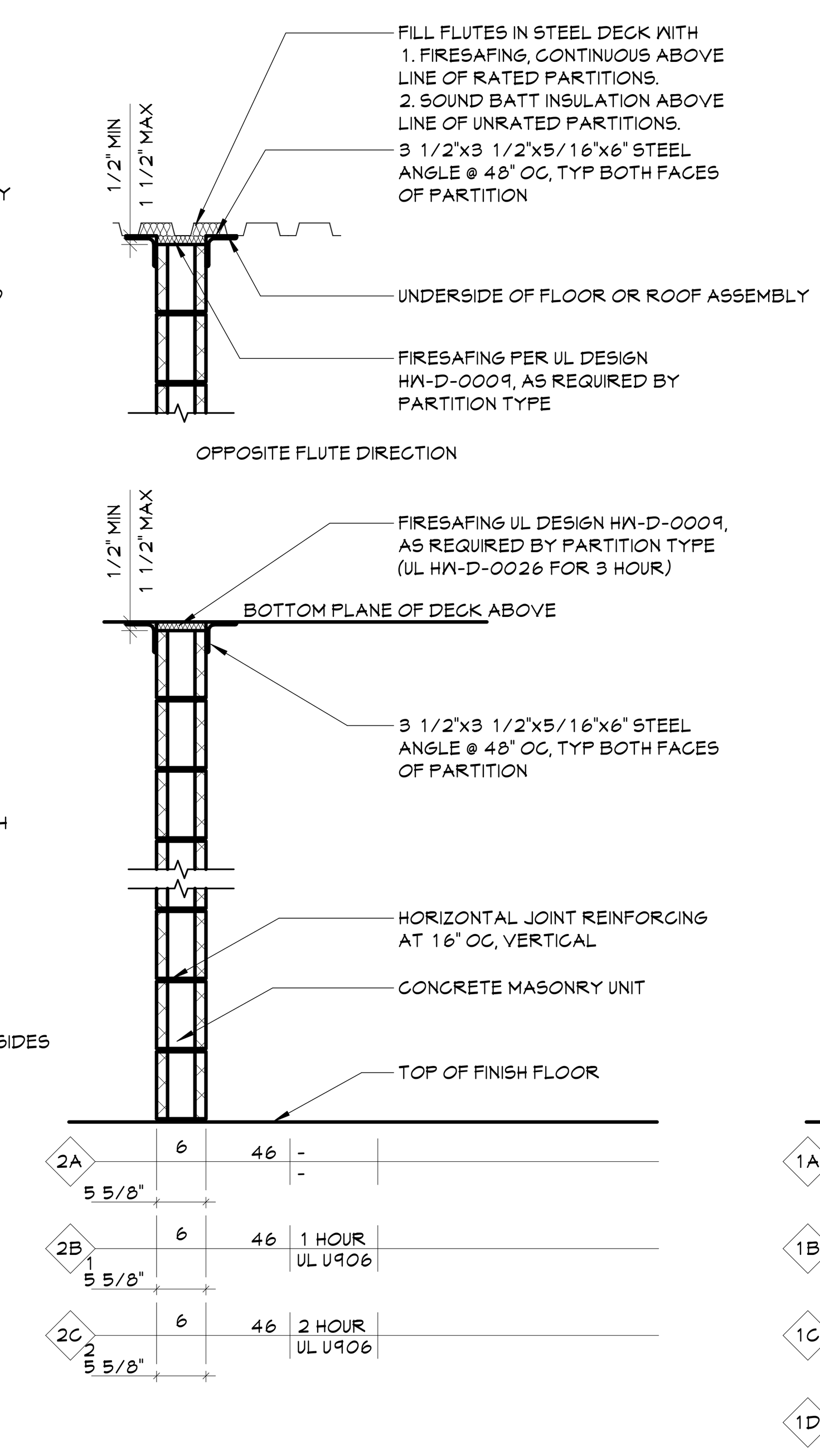
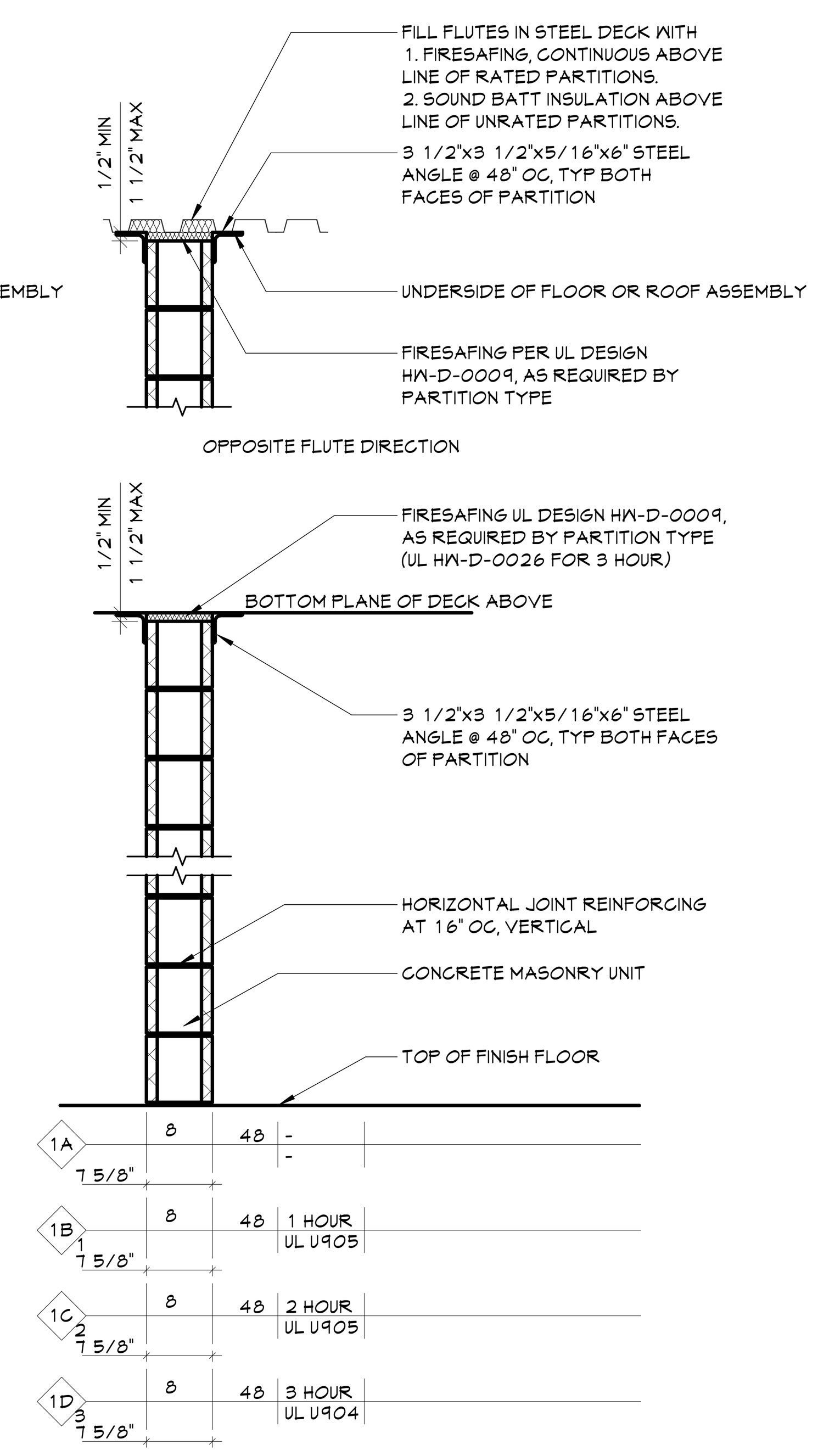


3 PARTITION TYPE '4'
A701 3/4" = 1'-0"



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



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

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADMIN	ADMINISTRATIVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIO VISUAL
BLDG	BUILDING
BOT OR B/	BOTTOM OF
BSMT	BASEMENT
CJ	CONTROL / CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ED	EDUCATION
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
ELEV	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDENT-TREATED MATERIAL
FTG	FOOTING
G	GROUND
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GWB	GYPSUM WALL BOARD
GWBS	GYPSUM WALL BOARD SOFFIT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
LAB	LABORATORY
LB	POUND
LIN	LINEAR
LVL	LEVEL
MAN	MANUAL
MAS	MASONRY
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPT	OPTIONAL
OVR	OVERALL
OZ	OUNCE
PERIM	PERIMETER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
PR	PAIR
PREP	PREPARATORY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
REQD	REQUIRED
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
SCH	SCHEDULED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
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
- S1 — STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
- 1 — COLUMN GRID DESIGNATION
- 1 / M 1 — PARTITION TAG, REFER TO A700 DRAWINGS; HOUR RATING OF PARTITION; ADDITIONAL NOTES FOR PARTITION
- 1 — REVISION NUMBER
- 1 — KEY NOTE, NEW WORK
- 1 — KEY NOTE, DEMOLITION WORK
- +0'-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

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

DETAIL INDICATOR (SECTION)

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

ENLARGED DETAIL INDICATOR

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

DETAIL TITLE

1 FLOOR PLAN
A100 1/8" = 1'-0"

DETAIL NUMBER; DETAIL TYPE / NAME; DRAWING SHEET NUMBER; SCALE

EXTERIOR ELEVATION INDICATOR

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

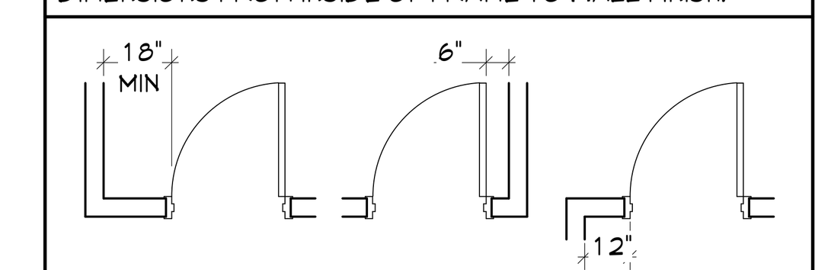
INTERIOR ELEVATION INDICATOR

1 2 3 4 / A600 — BLANK ARROW INDICATES ELEVATIONS NOT DETAILED; ELEVATION NUMBER; DRAWING SHEET NUMBER DETAIL IS DRAWN ON; DIRECTION OF VIEWS

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

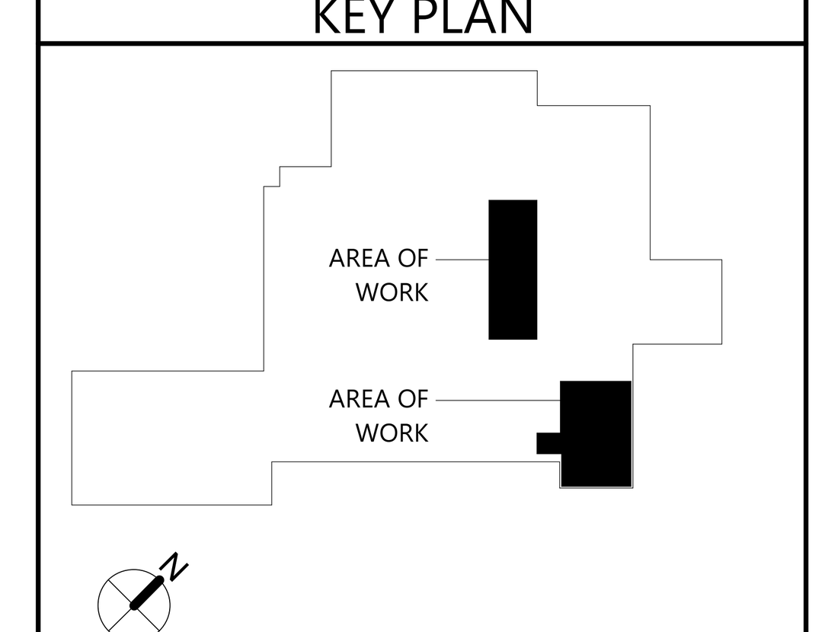
FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW UNO. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



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 COODINATE 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 A701
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



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

REGISTERED ARCHITECT · STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
SYMBOLS, ABBREVIATIONS, MISC, AND PARTITION TYPES

Sheet No.
BES G001

CONSTRUCTION DOCUMENTS

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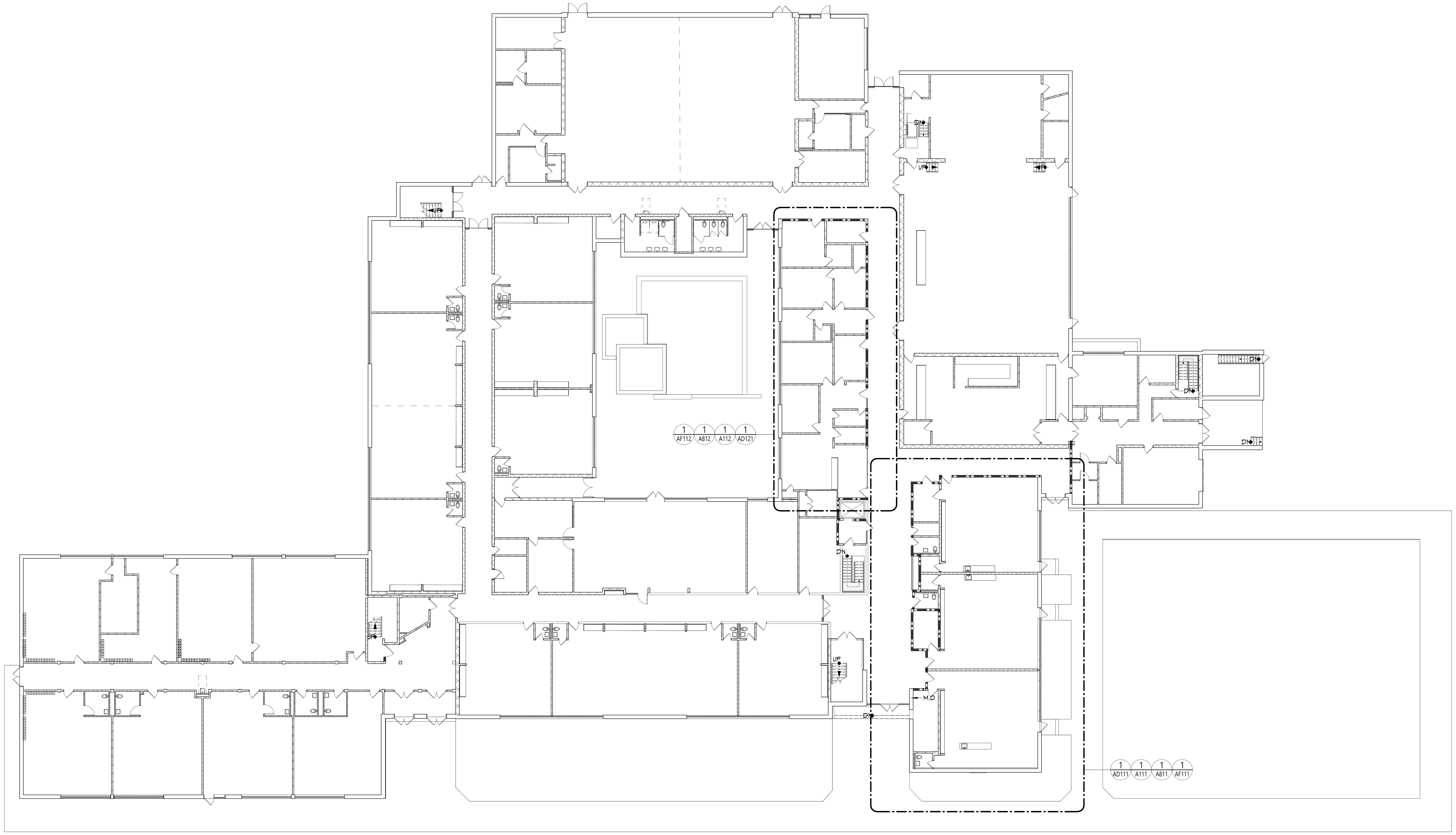

1 OVERALL FIRST FLOOR PLAN

G111

1/16" = 1'-0"

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2023 CAPITAL PROJECT - PHASE 1

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Sheet Title

OVERALL FLOOR PLAN - FIRST FLOOR

Sheet No.

BES G111

CONSTRUCTION DOCUMENTS

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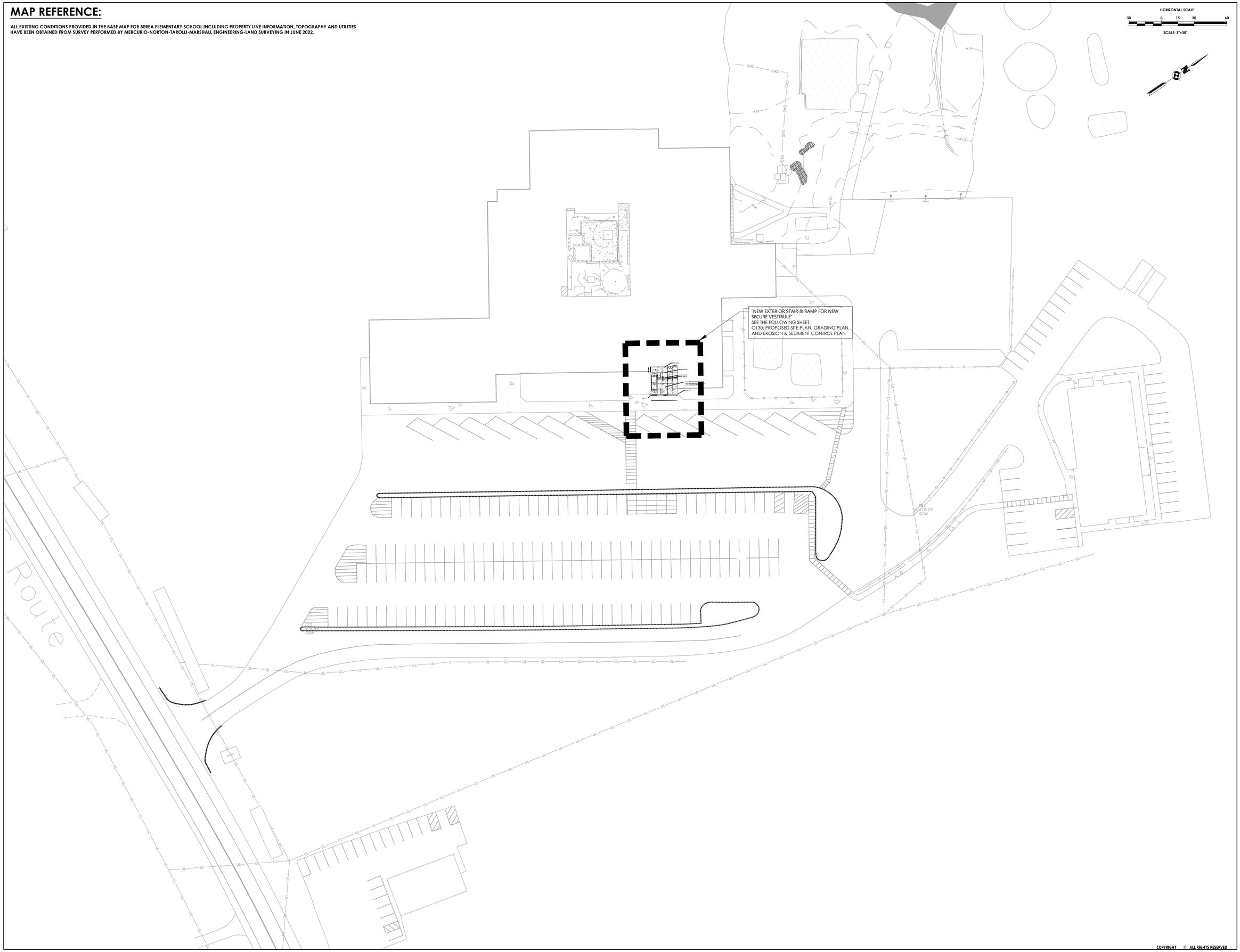
MAP REFERENCE:

ALL EXISTING CONDITIONS PROVIDED IN THE BASE MAP FOR BEREA ELEMENTARY SCHOOL INCLUDING PROPERTY LINE INFORMATION, TOPOGRAPHY AND UTILITIES HAVE BEEN OBTAINED FROM SURVEY PERFORMED BY MERCURIO-NORTON-TAROLLI-MARSHALL ENGINEERING-LAND SURVEYING IN JUNE 2022.



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

Project Title

STATE OF NEW YORK
CHRISTOPHER J. LEONARD
102593
LICENSED PROFESSIONAL ENGINEER

EXPIRATION DATE: SEPT. 20, 2025

No.	DATE	DESCRIPTION

Drawn By:	MTP
Checked By:	SK
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

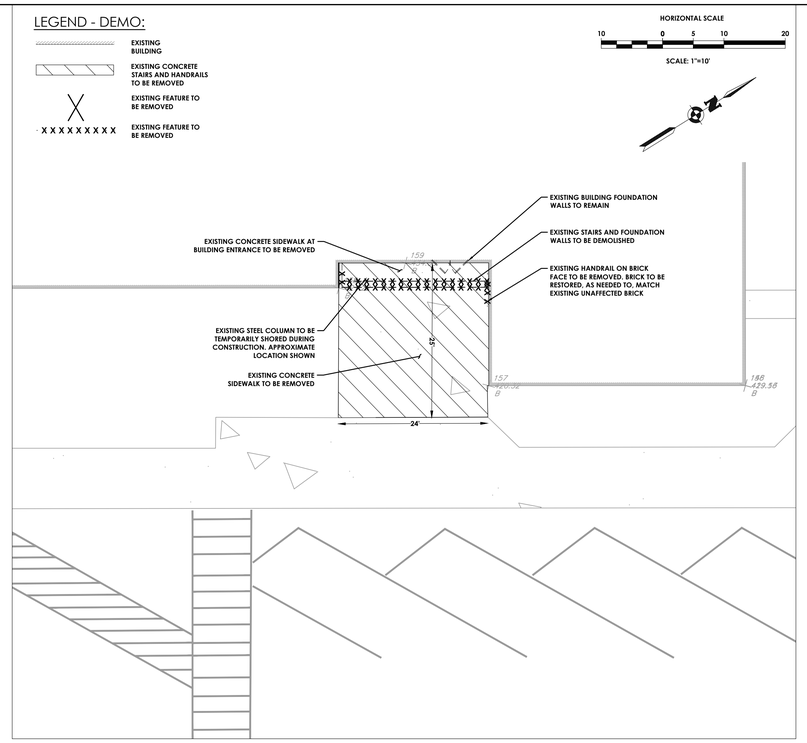
Sheet Title

KEY PLAN

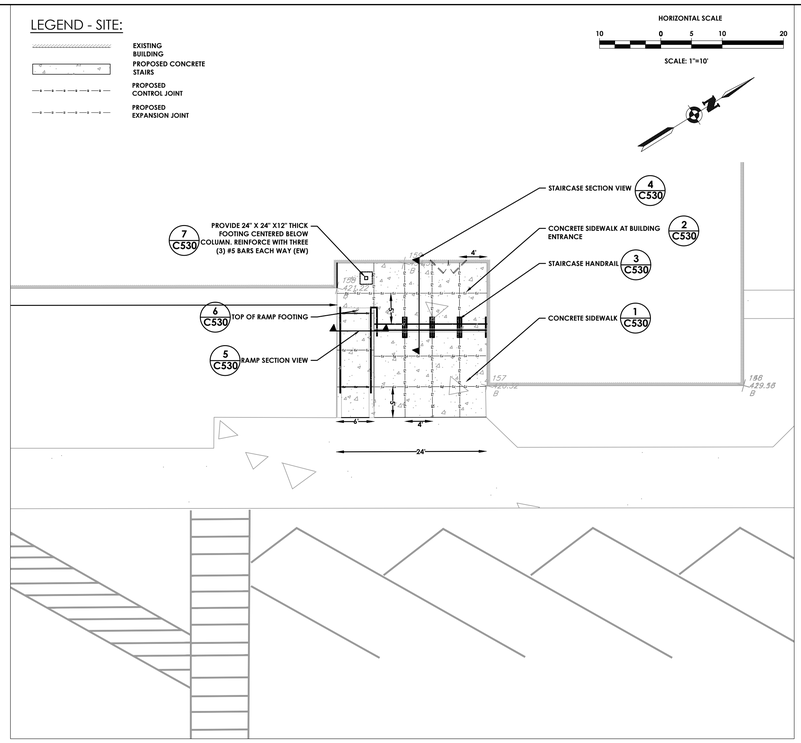
Sheet No.

BES
C100

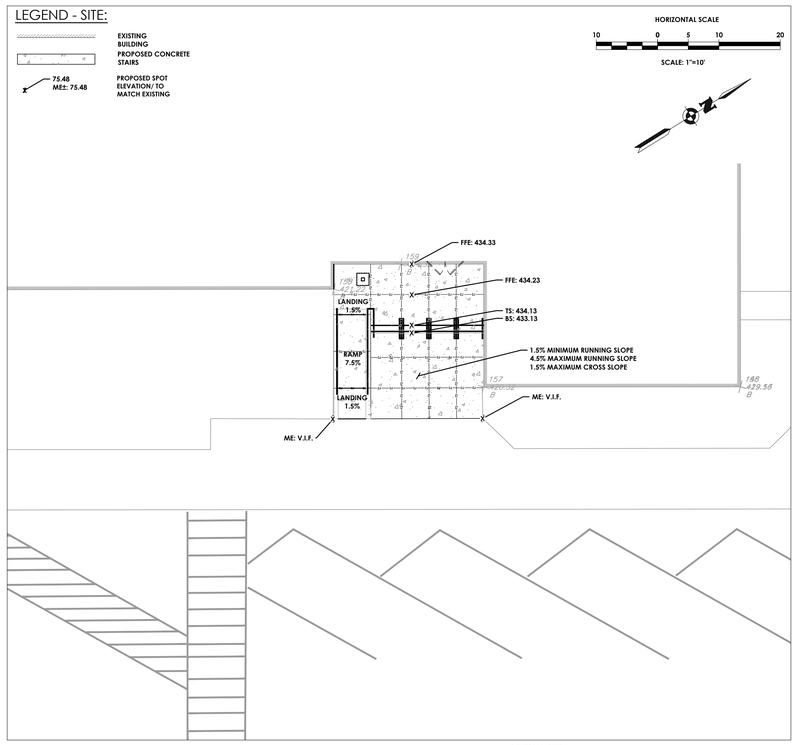
CONSTRUCTION DOCUMENTS



1 DEMOLITION PLAN
SCALE: 1"=10'



2 SITE PLAN
SCALE: 1"=10'



3 GRADING PLAN
SCALE: 1"=10'

GENERAL NOTES:

1. PROPOSED SIDEWALK GRADES SHALL MATCH GRADE OF EXISTING SIDEWALKS TO REMAIN.
2. SIDEWALK SLOPES SHALL NOT EXCEED 1.5% FOR CROSS SLOPES AND 5% FOR RUNNING SLOPES.
3. CONTRACTOR SHALL SET UP SIDEWALK RELOCATION SIGNAGE, BARRIERS AND SAFE PASSAGEWAYS SO AS TO LIMIT DISRUPTION TO PEDESTRIAN CIRCULATION.

DEMOLITION NOTES:

1. SECURITY PROVIDE, INSTALL AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
2. DIG SAFE GENERAL SITE CONTRACTOR IS RESPONSIBLE TO CALL DIG SAFE PRIOR TO BEGINNING DEMOLITION.
3. VERIFICATION SITE CONTRACTOR TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF ALL UTILITIES WITHIN THE WORK AREA OR THOSE EXPECTED TO BE AFFECTED BY NEW WORK, AND SUBSURFACE FEATURES. THE SITE CONTRACTOR MUST BRING ANY ISSUES TO THE DESIGN ENGINEER AND OBTAIN WRITTEN APPROVAL FROM THE OWNER'S ONSITE REPRESENTATIVE UPON COMPLETION OF VERIFICATION PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION.
4. APPLICABILITY THE SITE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK SHOWN ON THE "C" SERIES DRAWINGS AND AS DEFINED IN THE SPECIFICATIONS UNLESS SPECIFICALLY DEFINED OTHERWISE. THIS INCLUDES ALL REMOVALS AS NECESSARY FOR THE CONSTRUCTION OF NEW WORK EVEN IF NOT SPECIFICALLY NOTED ON THE CONTRACT DOCUMENTS.
5. RECORD MAP - DURING REMOVAL/DEMOLITION PROCESS THE SITE CONTRACTOR SHALL OBTAIN DETAILED RECORD INFORMATION TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES ENCOUNTERED. THIS INFORMATION SHALL BE INCLUDED ON THE RECORD/AS-BUILT MAPS TO BE SUPPLIED BY THE SITE CONTRACTOR TO HYDE PARK CENTRAL SCHOOL DISTRICT.
6. SHUTDOWNS SITE CONTRACTOR TO COORDINATE ALL UTILITY SHUT DOWNS, RELOCATIONS, SERVICE INSTALLATIONS WITH THE SCHOOL DISTRICT AND LOCAL UTILITY COMPANIES.
7. COORDINATION SITE CONTRACTOR SHALL COORDINATE THE REMOVAL OF DEMOLISHED MATERIAL WITH THE OWNER'S REPRESENTATIVE SITE FURNISHINGS AND MATERIAL DETERMINED TO TO BE REMOVED SHALL BE REMOVE AND EXPORTED OFFSITE IN A LEGAL MANNER AND IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
8. PROTECT ALL EXISTING FEATURES TO REMAIN. DAMAGE TO EXISTING ASPHALT, LAWN AND OTHER FEATURES TO REMAIN SHALL BE REPAIRED AT THE SITE CONTRACTOR'S EXPENSE.
9. DISTURBANCE ALL SURFACES THAT ARE DISTURBED DUE TO CONSTRUCTION, OUTSIDE OF THE MAJOR WORK AREAS, ARE TO BE RESTORED TO PRE-CONSTRUCTION CONDITION. IN ACCORDANCE WITH THE CONCRETE SECTION DETAILS INCLUDED IN THESE PLANS. LAWN AREAS ARE TO BE RE-ESTABLISHED WITH A MINIMUM OF 4 INCHES OF TOPSOIL AND SEED.
10. HAZARDOUS MATERIAL ANY MATERIALS CONTAINING ASBESTOS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. NOTE THIS MAY INCLUDE UNDERGROUND UTILITIES. SITE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE TO NOTIFY THEM OF ANY UNKNOWN HAZARDOUS MATERIAL.
11. EXISTING SERVICE SITE CONTRACTOR SHALL MAINTAIN SERVICE FROM ALL UTILITIES NOT SLATED FOR DEMOLITION AND SHALL REMAIN FUNCTIONAL UPON COMPLETION OF DEMOLITION.
12. EXISTING UTILITIES THAT ARE PROPOSED TO BE REMOVED, UNLESS OTHERWISE INDICATED, SHALL BE EXCAVATED, UTILITY MATERIAL REMOVED, AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE SPECIFICATIONS. ALL TRENCHES SHALL BE BACKFILLED WITH GRANULAR FILL, COMPACTED IN 12" LIFTS TO 95% MODIFIED PROCTOR TEST. ALL DISTURBED AREAS SHALL BE RESTORED IN KIND IN ACCORDANCE WITH THE DETAILS IN THESE PLANS AND AT A MINIMUM TO THEIR ORIGINAL STATE.
13. PERMITS SITE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS REQUIRED FOR DEMOLITION AND CONSTRUCTION, INCLUDING ALL FEES ASSOCIATED WITH THOSE PERMITS, IN THE BID.
14. ENVIRONMENTAL CONDITIONS OR ISSUES, NOT PREVIOUSLY IDENTIFIED, ARE ENCOUNTERED DURING DEMOLITION, THE SITE CONTRACTORS(S) SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER BEFORE CONTINUING THE DEMOLITION PROCESS.
15. RECYCLE ALL MATERIALS WHEN APPROPRIATE.
16. SPOIL MATERIALS FROM DEMOLITION OR EARTHWORK, SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT THE SITE CONTRACTOR'S EXPENSE.
17. EXISTING STRUCTURES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED TO A DEPTH OF 2 FEET BELOW FINISHED GRADE. STRUCTURES SHALL BE FILLED WITH CRUSHED STONE. (MEETING NYSDOT STANDARD SPECIFICATION SECTION 304) COMPACTED IN 12" LIFTS TO 95% MODIFIED PROCTOR TEST.
18. FIELD TILE IN THE EVENT FIELD TILE IS ENCOUNTERED, THE SITE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER. UNDER NO CIRCUMSTANCES SHALL FIELD TILE BE PERMITTED TO EXIST NEAR BUILDING FOUNDATIONS.
19. ELECTRICAL DEMOLITION - THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING ELECTRICAL FEATURES, AND SHALL COORDINATE WITH THE SITE CONTRACTOR ON BACKFILLING TRENCHES TO MEET THE SPECIFICATIONS OUTLINED WITHIN THE CONTRACT DOCUMENTS.

SITE PLAN NOTES:

1. LAYOUT THE DIMENSIONS SHOWN ARE TO THE FACE OF THE CURB AND INCLUDES THE OVERALL SIDEWALK WIDTH, WHERE APPLICABLE.
2. ASPHALT SHALL BE CALCULATED BY WEIGHT (TONNAGE) USING THE SPECIFIED COMPACTED THICKNESS. PAVEMENTS WILL BE BASED ON THE TONNAGE PLACED AS ACCOUNTED FOR BY EACH DELIVERY TRUCK. FULL TIME ON-SITE OBSERVATION WILL BE PRESENT DURING ALL RELATED PAVING OPERATIONS.
3. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "LATEST EDITION". CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
4. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREED. PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
5. JOINTS PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENT OR BETWEEN SUCCESSIVE DAYS WORK.
6. TACK COAT SHALL CONFORM WITH THE FOLLOWING:
   - A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 ASPHALT EMULSION FOR TACK COAT OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "LATEST EDITION" AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407. TACK COAT SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
   - B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.
   - C. APPLY TACK COAT TO THE ASPHALT PAVEMENT SURFACES AND SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
   - D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.
7. CLEAN SURFACE AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

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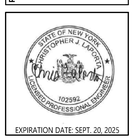

EXPIRATION DATE: SEPT. 20, 2025

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CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

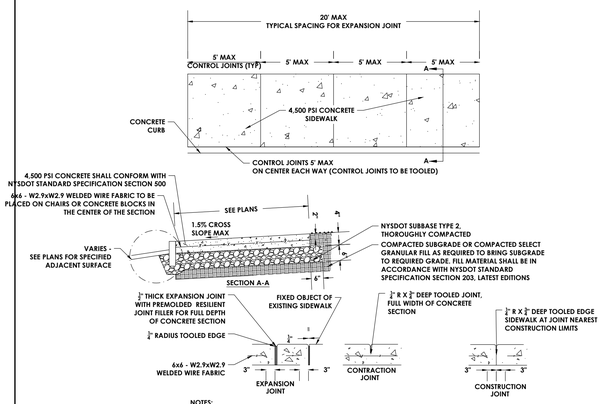
Sheet Title

SITE, GRADING AND ESC PLAN

Sheet No.

BES C130

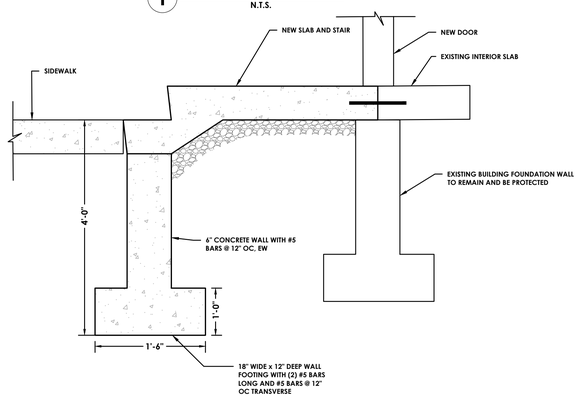
CONSTRUCTION DOCUMENTS



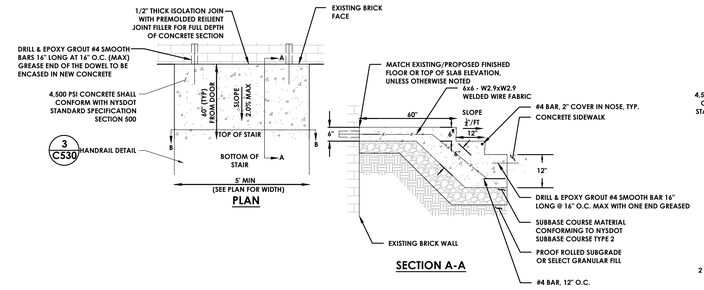
NOTES:

1. SIDEWALK WIDTH SHALL BE MEASURED FROM THE BACK OF THE CURB UNLESS OTHERWISE SPECIFIED.
2. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 203, LATEST EDITION
3. NYSDOT SUBBASE TYPE 2 SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION SECTION 304, LATEST EDITION.
4. CONCRETE SHALL NOT BE PLACE UNLESS THE AMBIENT AIR SURFACE TEMPERATURE IS ABOVE 40 DEGREES UNLESS DISCUSSED WITH OWNER AND ENGINEER.
5. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% PER FOOT UNLESS OTHERWISE SPECIFIED ON THE PLANS.
6. ALL EXPOSED CONCRETE SURFACES SHALL BE BROOM FINISHED AND THE EDGES SHALL BE FINISHED WITH A 1.5" RADIUS EDGING TOOL.
7. THE FINISHED CONCRETE SURFACE SHALL BE TREATED WITH CONCRETE SEALER, HARDENER AND DUSTPROOFER. RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1 TYPICAL SIDEWALK DETAIL
N.T.S.

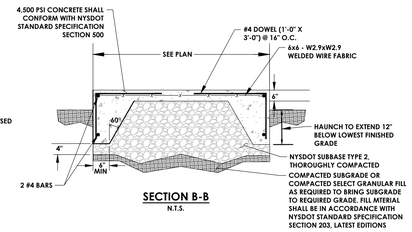


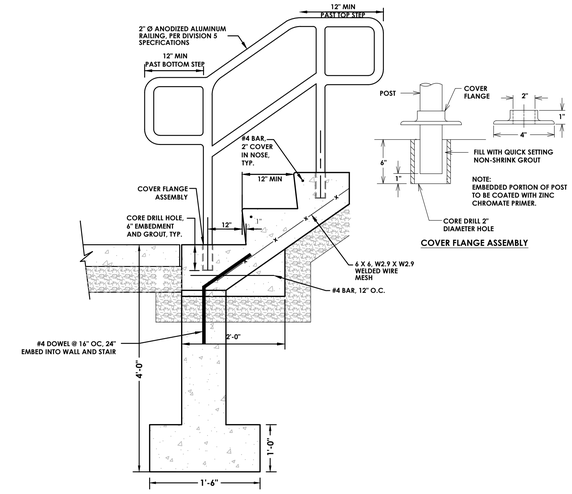
4 STAIRCASE SECTION VIEW
N.T.S.



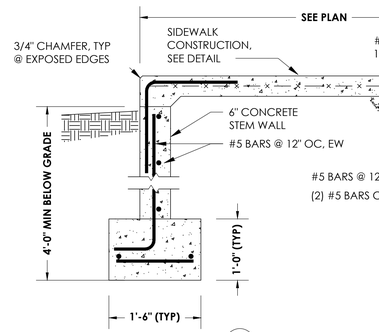
GENERAL NOTE: HANDRAILS TO BE INSTALLED PER DETAIL 17.

2 CONCRETE STAIR AT BUILDING'S BRICK FACE
N.T.S.

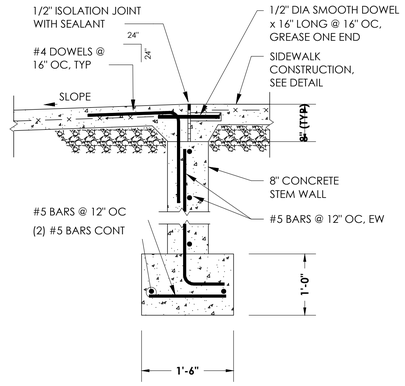




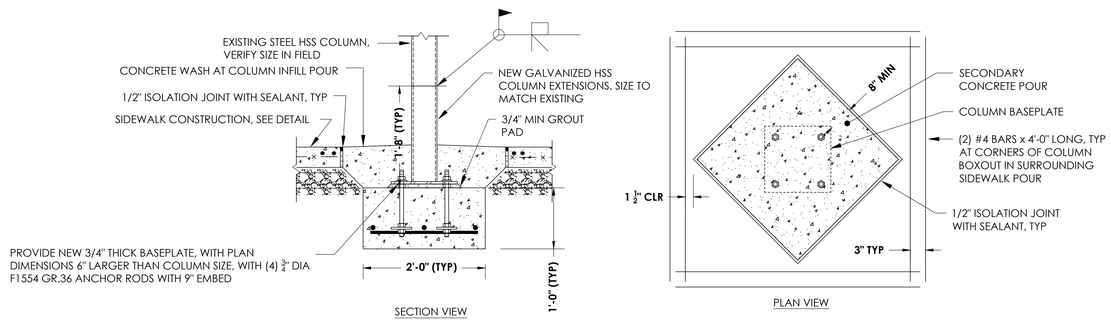
3 STAIRCASE HANDRAIL
N.T.S.



5 RAMP SECTION VIEW
N.T.S.



6 TOP OF RAMP FOOTING
N.T.S.



NOTE: AFTER WELDING, PAINT WITH ZINC RICH COATING THEN APPLY HIGH PERFORMANCE COATING TO COLUMN EXTENSION TO MATCH EXISTING PAINT TEXTURE, COLOR, AND FINISH

7 COLUMN DETAIL
N.T.S.

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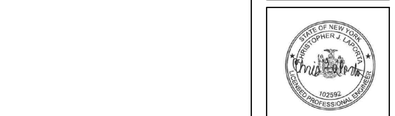
BEREA ELEMENTARY SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title



EXPIRATION DATE: SEPT. 20, 2025

NO.	DATE	DESCRIPTION

Drawn By:	MTP
Checked By:	SK
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

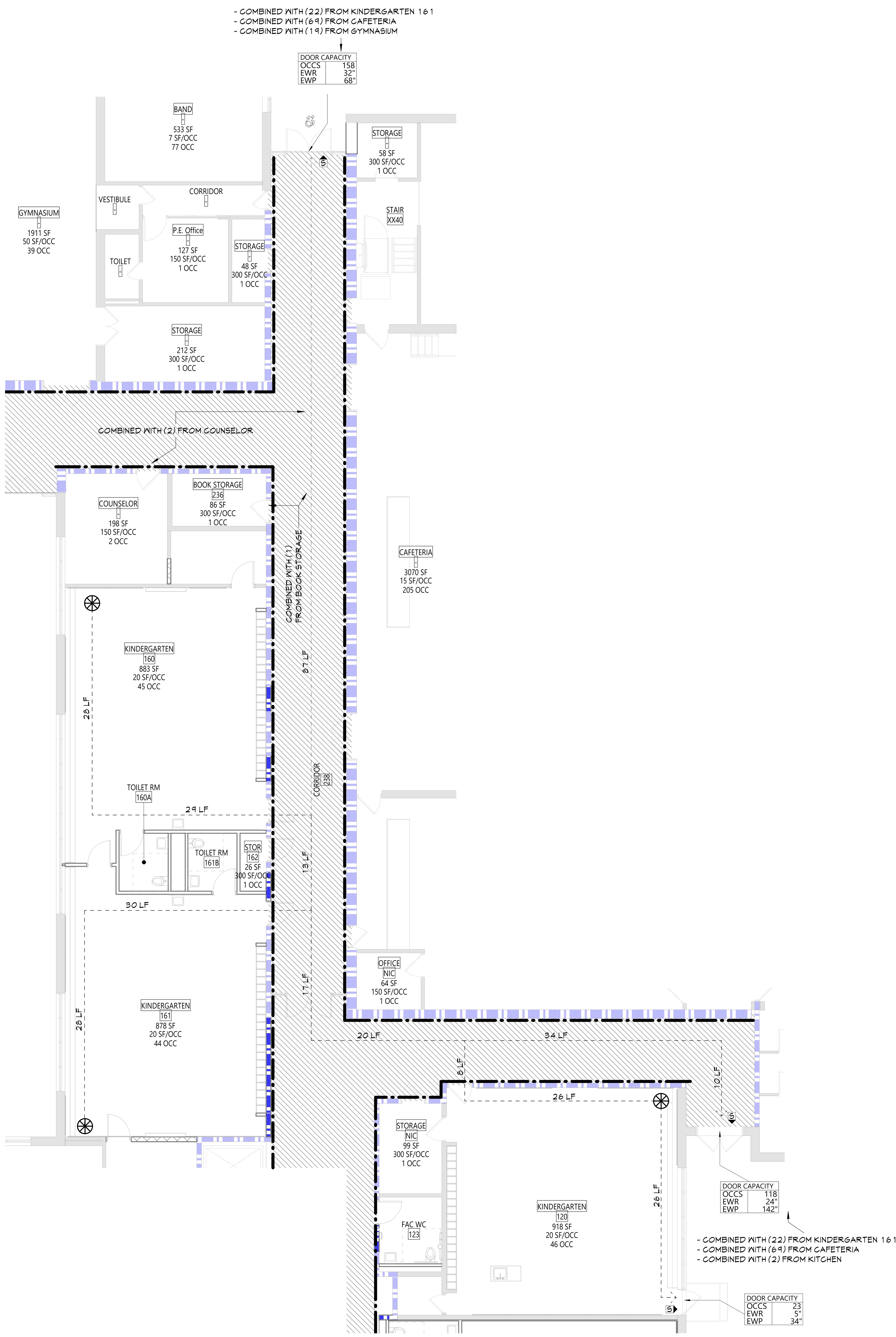
DETAILS

Sheet No.

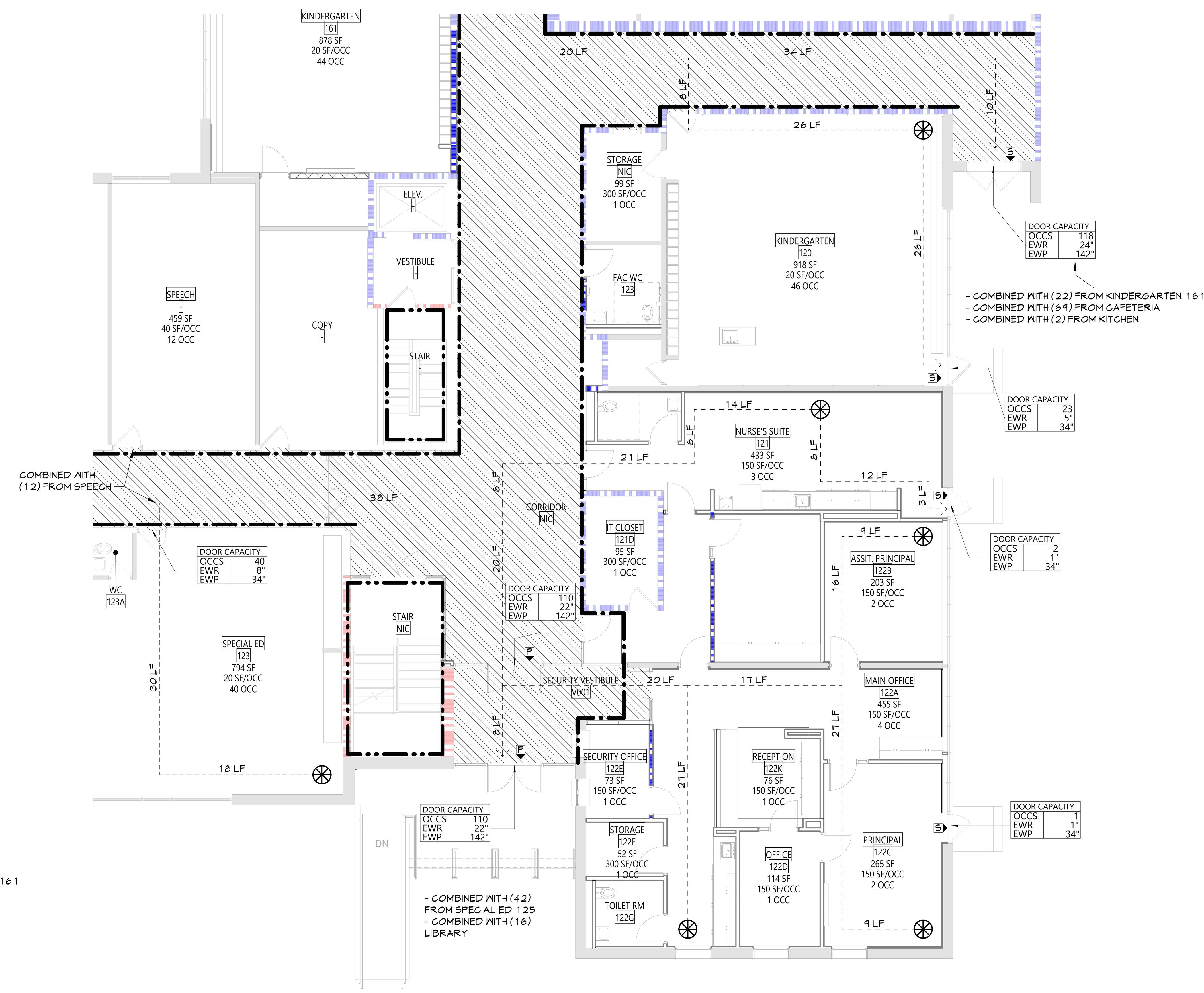
BES
C530

CONSTRUCTION DOCUMENTS

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 AREA B - LIFE SAFETY PLAN
LS111 1/8" = 1'-0"



2 AREA A - LIFE SAFETY PLAN
LS111 1/8" = 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)
- STAIR CAPACITY OCCS / EWR / EWP — REQUIRED EXIT WIDTH FOR STAIRS BASED ON (OCCUPANT * 0.3)
- EXIT PATH OF TRAVEL (START - END)
- EXIT SIGN, WALL MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED.
- EXIT SIGN, CEILING MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED.

ABBREVIATIONS

- AED AUTOMATED EXTERNAL DEFIBRILLATOR
- DF DRINKING FOUNTAIN
- 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:
1968 : ORIGINAL CONSTRUCTION
CONSTRUCTION TYPE:
FIRST FLOOR AREA: 57430 SF GROSS
SECOND FLOOR AREA: 28661 SF GROSS
CURRENT USE:
PROPOSED 2023 ADDITION:
CONSTRUCTION TYPE:
FIRST FLOOR AREA: 57430 SF GROSS
SECOND FLOOR AREA: 28661 SF GROSS

CLASSIFICATION OF WORK:
- LEVEL 1 ALTERATION xxx SF
- LEVEL 2 ALTERATION xxx SF

OCCUPANT LOAD

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

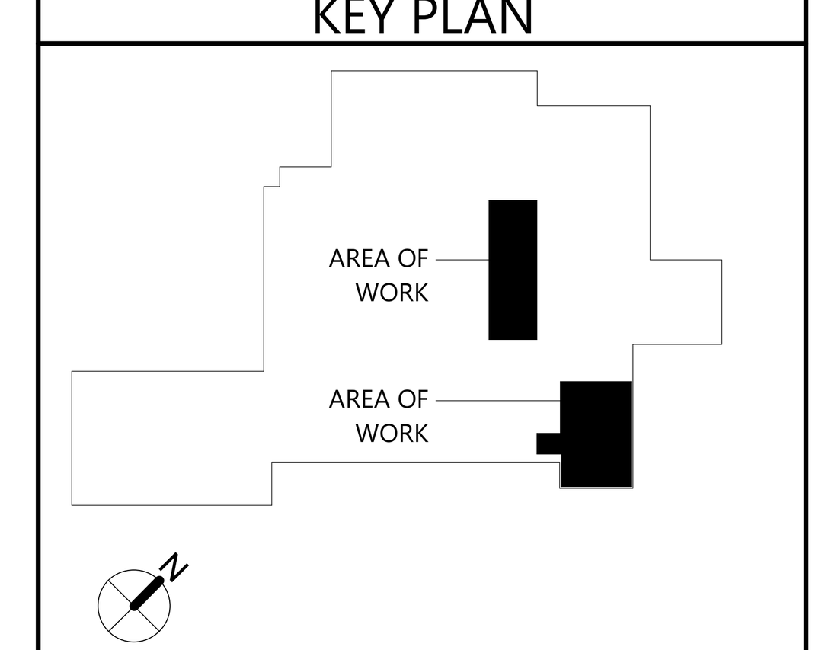
STRUCTURAL LOAD

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	$A_a = A_t$+(NS x I_f)
I_f = [100/XX - 0.25] XX/30	A_a = XXX+(XXX x 0.XX)
I_f = [0.XX] 1.00	A_a = XXX+(XXX)
I_f = XX%	A_a = XXX sq ft

KEY PLAN



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

REGISTERED ARCHITECT THOMAS M. RITZENTHALER 023344 STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
LIFE SAFETY PLANS - FIRST FLOOR

Sheet No.
BES LS111

CONSTRUCTION DOCUMENTS

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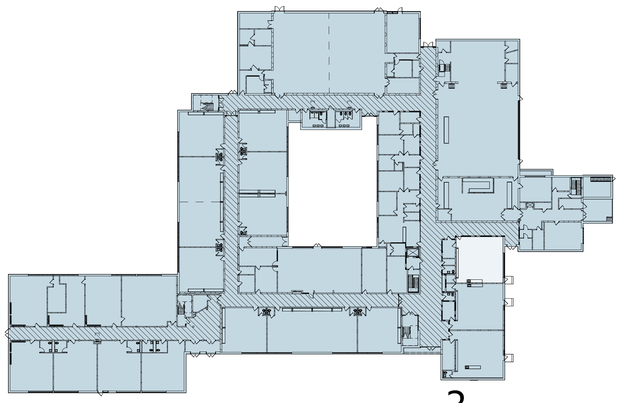
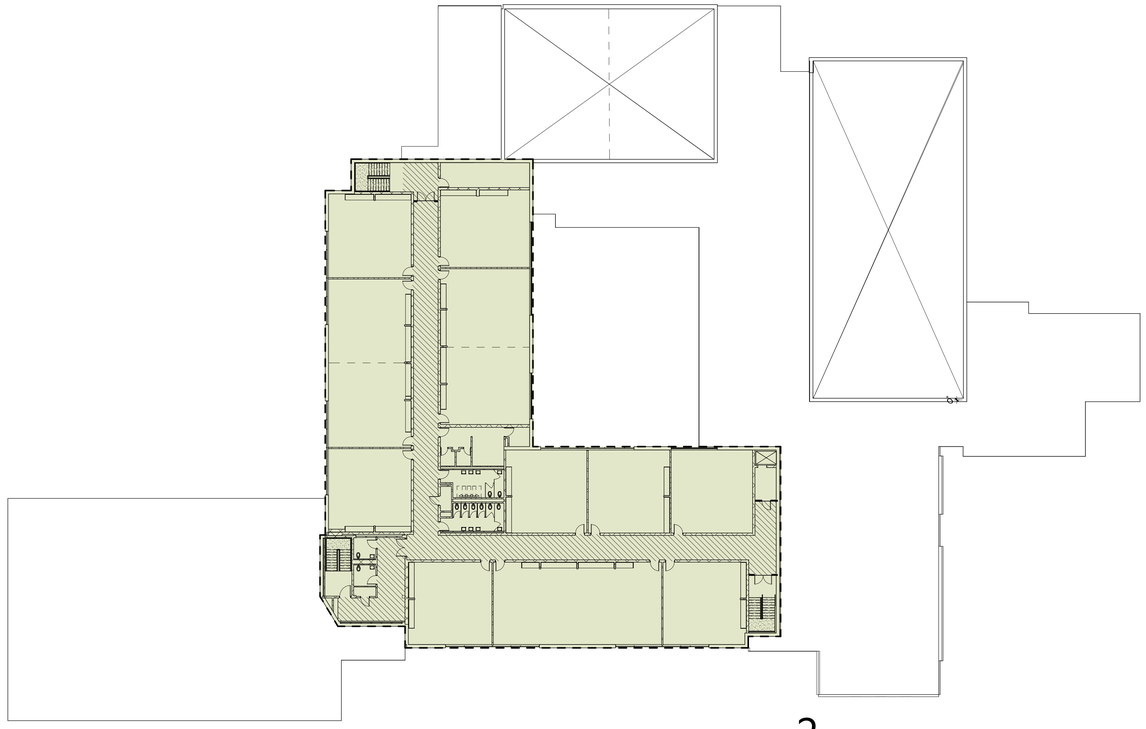
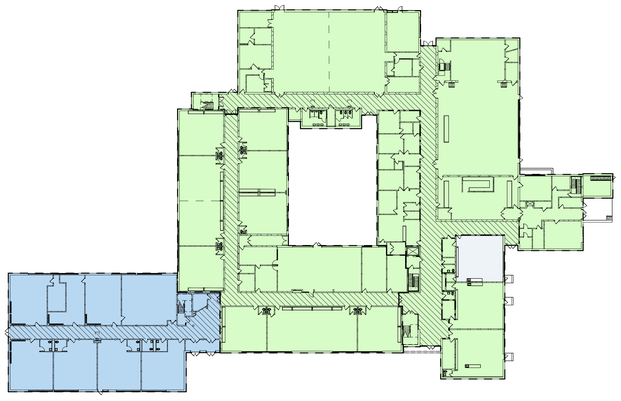


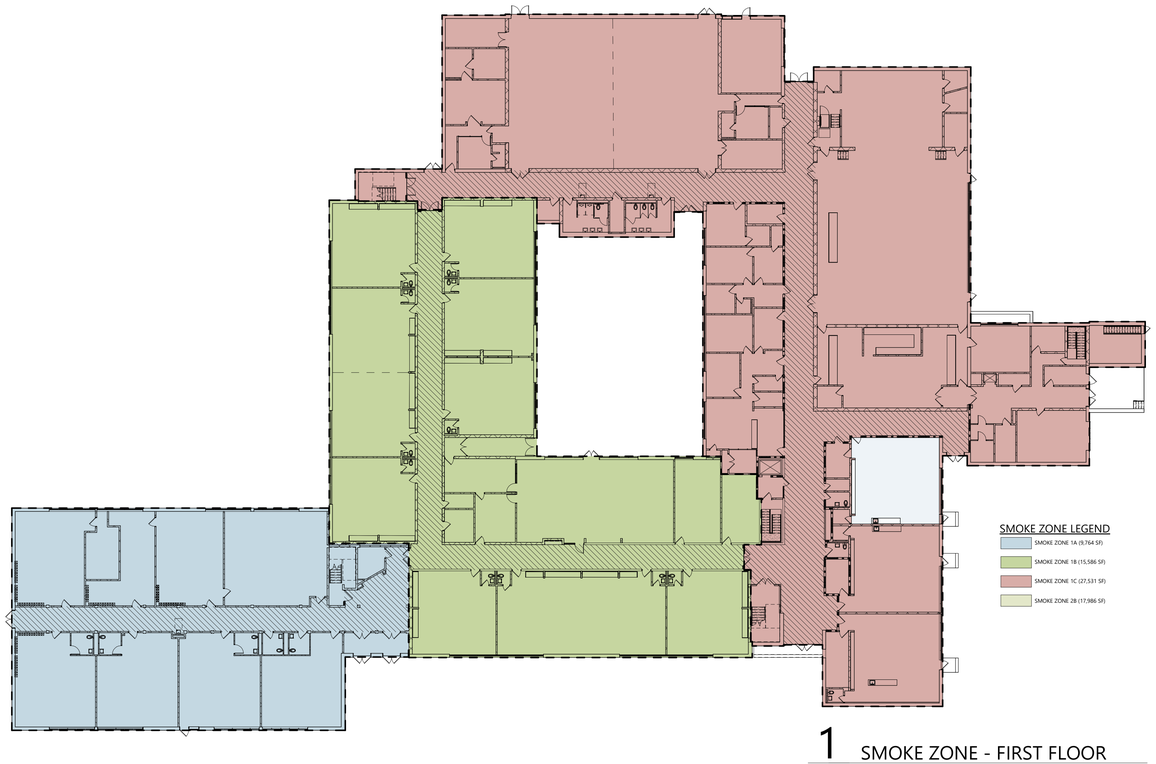
3 FIRE ZONE PLAN
LS112 1" = 40'-0"



2 SMOKE ZONE - SECOND FLOOR
LS112 3/64" = 1'-0"



4 VINTAGE PLAN
LS112 1" = 40'-0"



1 SMOKE ZONE - FIRST FLOOR
LS112 3/64" = 1'-0"

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Project Title

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

REGISTERED ARCHITECT
JOHN M. WITZENBURG
022334
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

SMOKE ZONE PLANS

Sheet No.

BES
LS112

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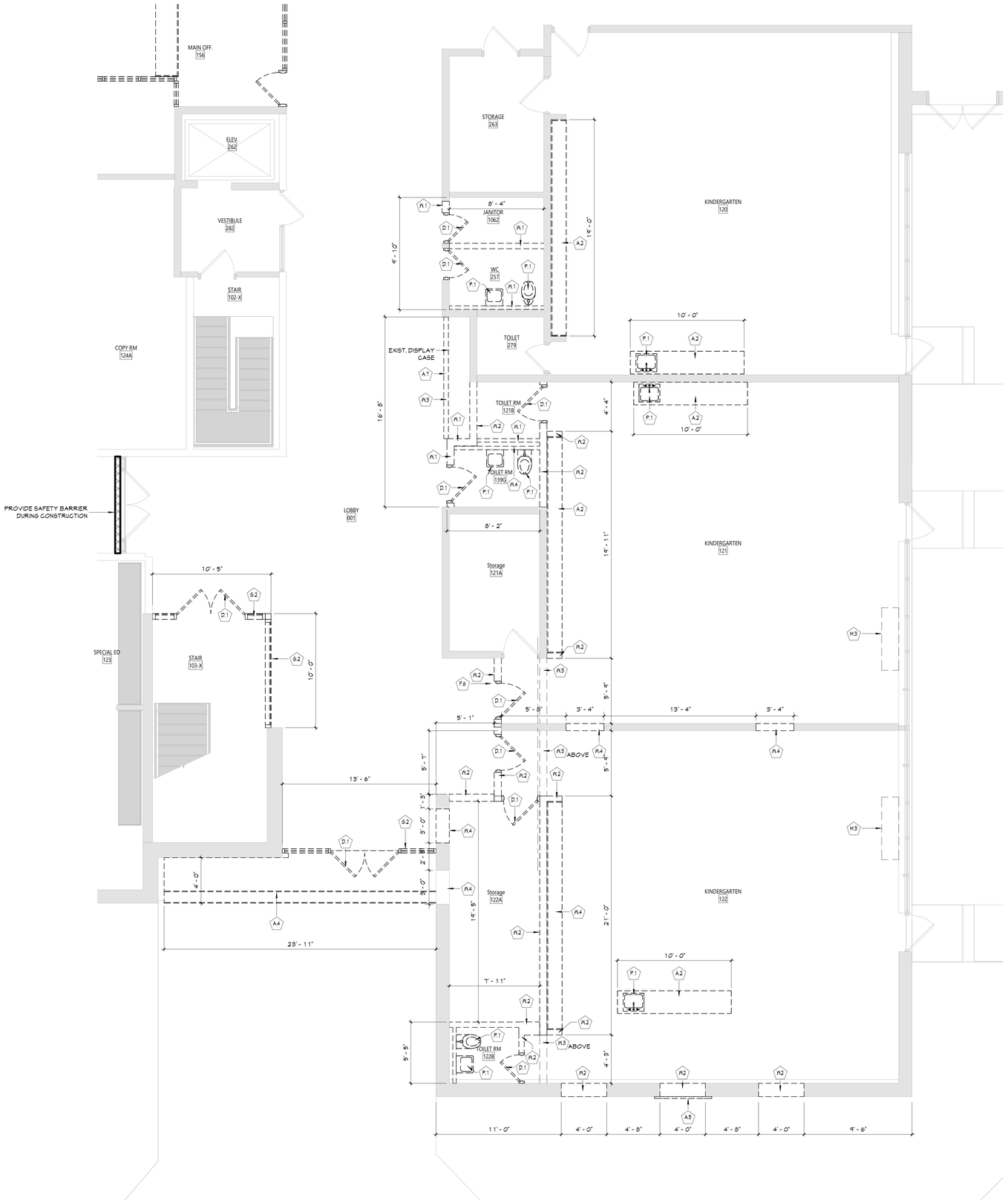


1 AREA C - PARTIAL FIRST FLOOR REMOVAL PLAN
AD111 1/4" = 1'-0"

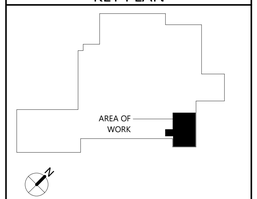
GENERAL REMOVAL NOTES

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.2	REMOVE CASEWORK IN ITS ENTIRETY, INCLUDING ALL BLOCKING, FASTENERS, AND BASE TRIM. REFER TO MEP DRAWINGS FOR ADDITIONAL REMOVALS.
A.4	REMOVE STAIRS/RAMP IN THEIR ENTIRETY, INCLUDING ALL STRUCTURE, HANDRAILS AND LANDINGS. COORDINATE REMOVAL WITH CIVIL DRAWINGS.
A.5	REMOVE BUILT-IN CASEWORK IN ITS ENTIRETY.
A.7	REMOVE EXISTING GLAZING ASSOCIATED WITH THE DISPLAY CASE.
D.1	REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
F.6	PATCH TERRAZZO FLOORING.
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.
P.1	PLUMBING REMOVAL.
W.1	SAWCUT AND REMOVE MASONRY WALL IN ITS ENTIRETY.
W.2	SAWCUT AND REMOVE MASONRY WALL FOR EXTENT SHOWN, COORDINATE REMOVAL WITH NEW WORK.
W.3	REMOVE STUD PARTITION IN ITS ENTIRETY.
W.4	REMOVE WALL TO THE EXTENT SHOWN.

KEY PLAN



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BEREA ELEMENTARY SCHOOL
2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT — DENNIS M. RITZENHEIM — 022334 — STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
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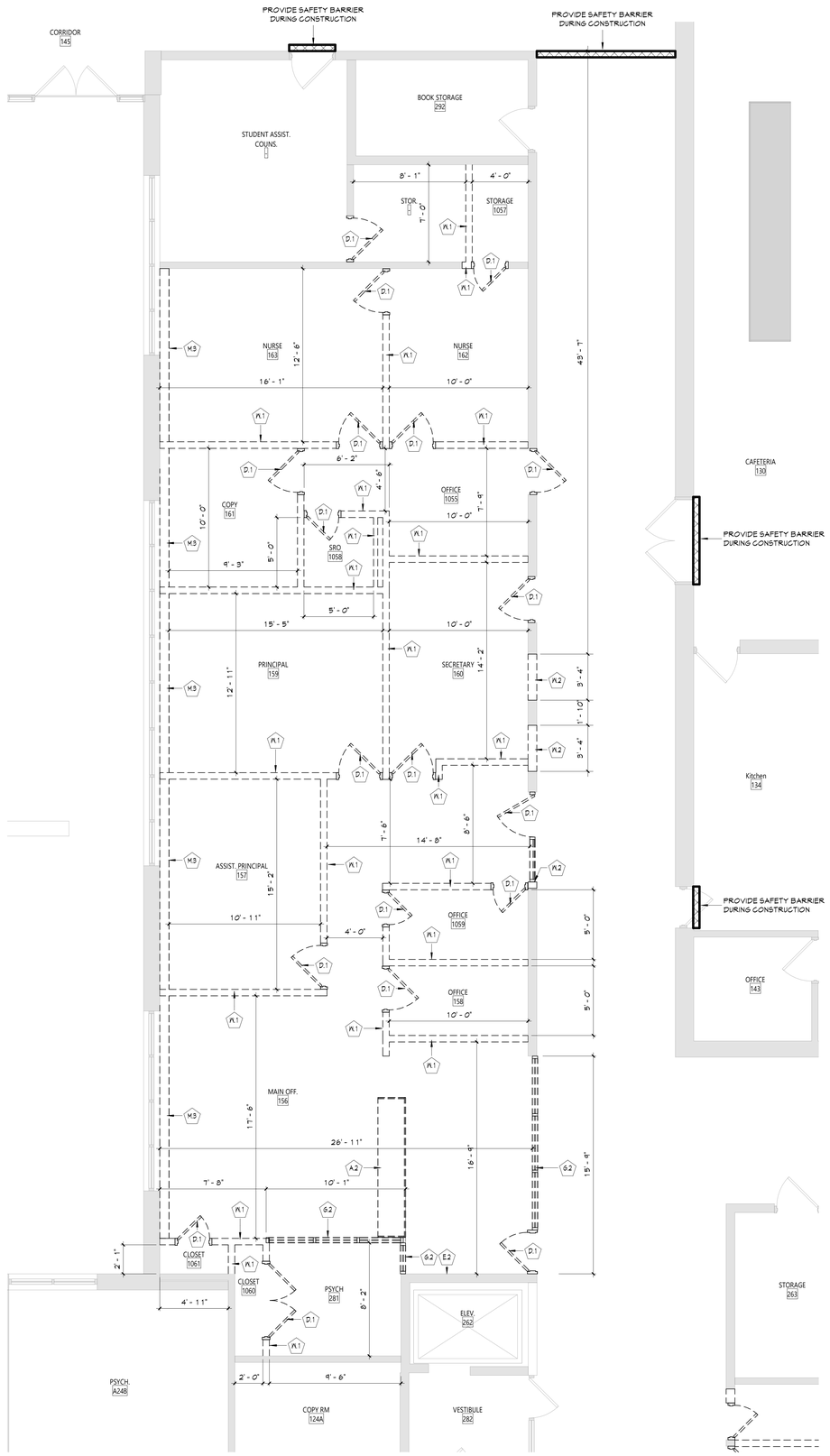
Sheet Title

REMOVALS PLAN - FIRST FLOOR - AREA A

Sheet No.

BES AD111

CONSTRUCTION DOCUMENTS



1 AREA B - PARTIAL FIRST FLOOR REMOVAL PLAN
AD121 1/4" = 1'-0"

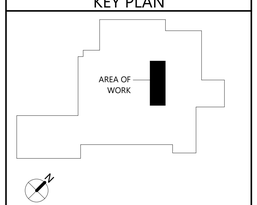
GENERAL REMOVAL NOTES

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.2	REMOVE CASEWORK IN ITS ENTIRETY, INCLUDING ALL BLOCKING, FASTENERS, AND BASE TRIM. REFER TO MEP DRAWINGS FOR ADDITIONAL REMOVALS.
D.1	REMOVE DOOR, HARDWARE, AND FRAME IN ITS ENTIRETY.
E.2	ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
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.
W.1	SAWCUT AND REMOVE MASONRY WALL IN ITS ENTIRETY.
W.2	SAWCUT AND REMOVE MASONRY WALL FOR EXTENT SHOWN, COORDINATE REMOVAL WITH NEW WORK.

KEY PLAN



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2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT ANDREW M. WITKOWSKI 022345 STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

REMOVALS PLAN - FIRST FLOOR - AREA B

Sheet No.

BES AD121

CONSTRUCTION DOCUMENTS

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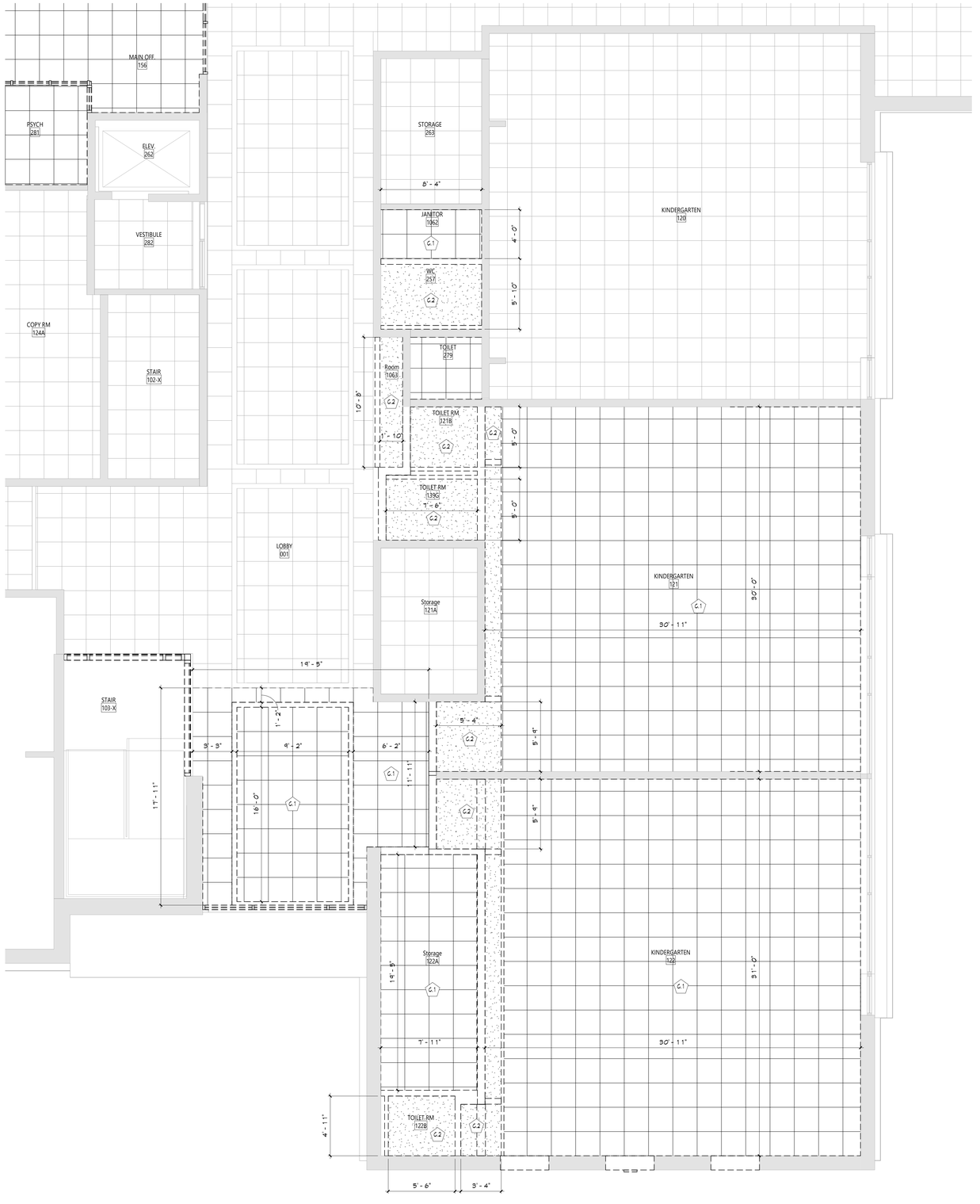


2 AREA A - PARTIAL FIRST FLOOR REMOVAL RCP
AD811 1/4" = 1'-0"

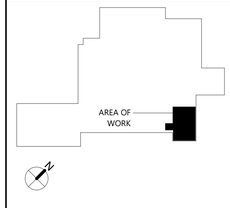
GENERAL REMOVAL NOTES

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
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.

KEY PLAN



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EXPIRATION DATE: 02/28/2025

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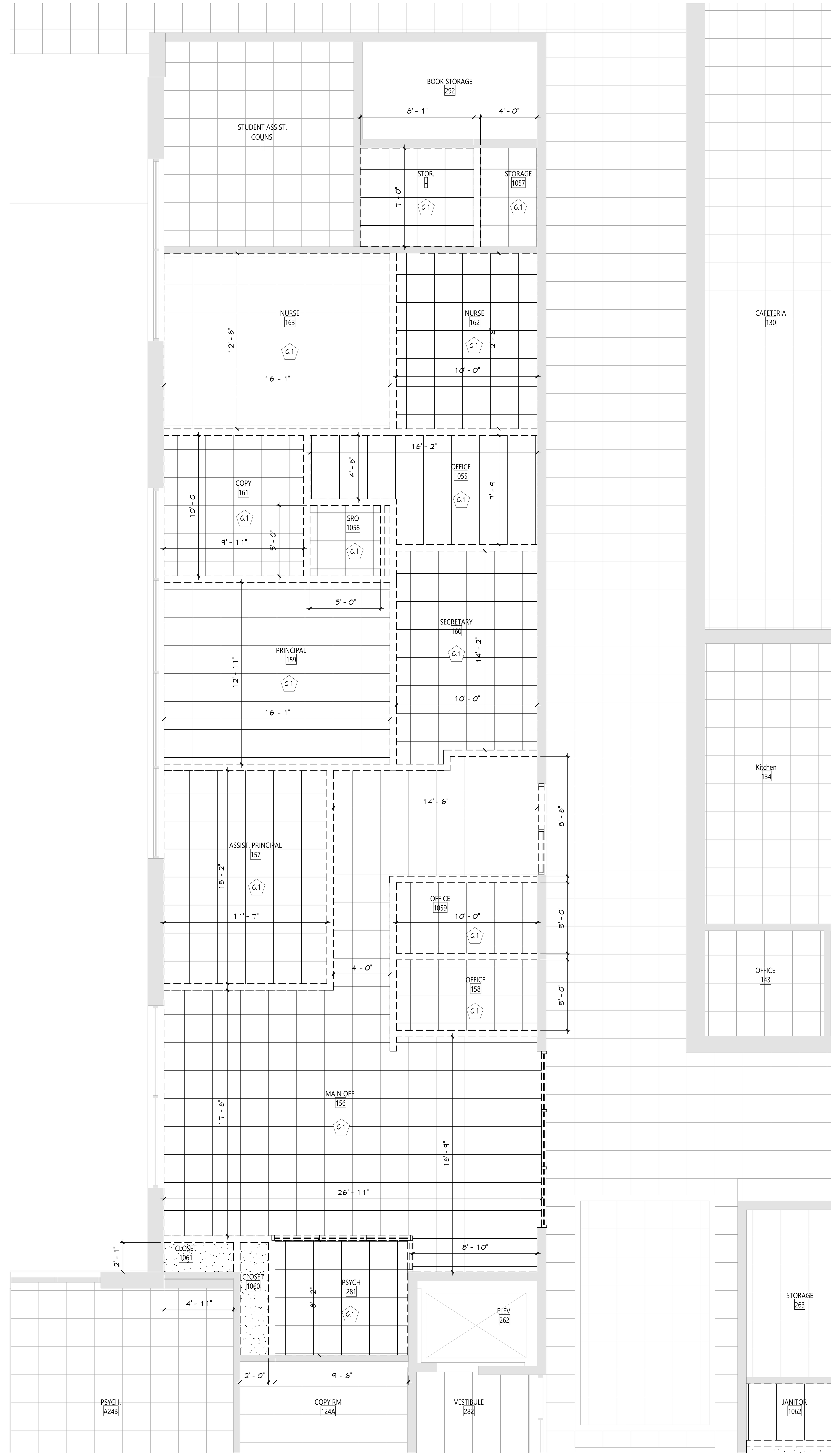
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
REFLECTED CEILING DEMO. PLAN - FIRST FLOOR AREA A

Sheet No.
BES
AD811

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD BES_dmiller393.rvt



1 AREA B - PARTIAL FIRST FLOOR REMOVAL RCP
AD812 1/4" = 1'-0"

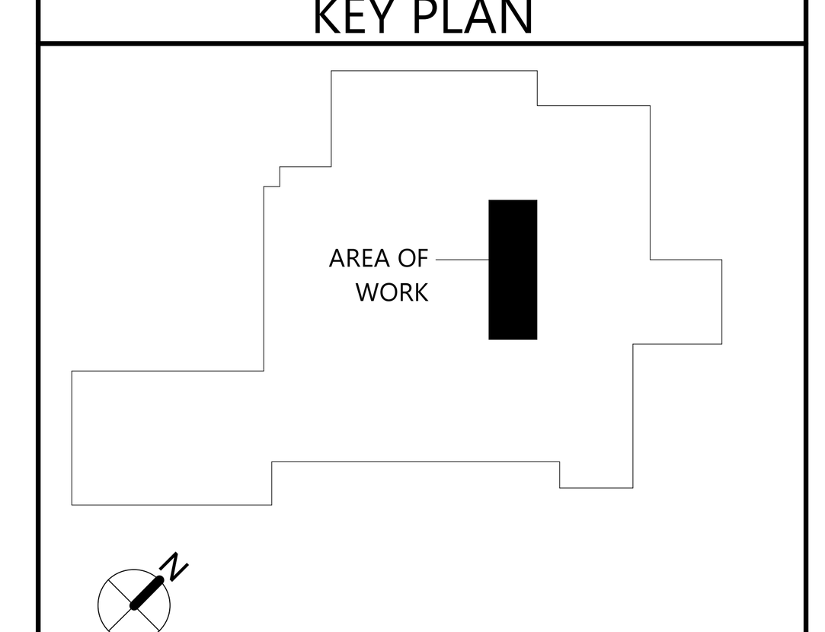
GENERAL REMOVAL NOTES

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
C.1	REMOVE EXISTING SUSPENDED CEILING SYSTEM IN ITS ENTIRETY, INCLUDING ALL HANGERS AND FASTENERS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT REMOVALS.

KEY PLAN



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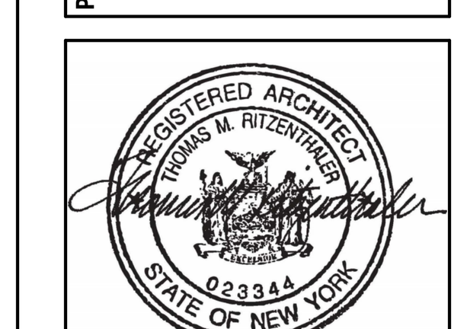
Project Title

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



EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
REFLECTED CEILING DEMO. PLAN - FIRST FLOOR AREA B

Sheet No.
BES AD812

CONSTRUCTION DOCUMENTS

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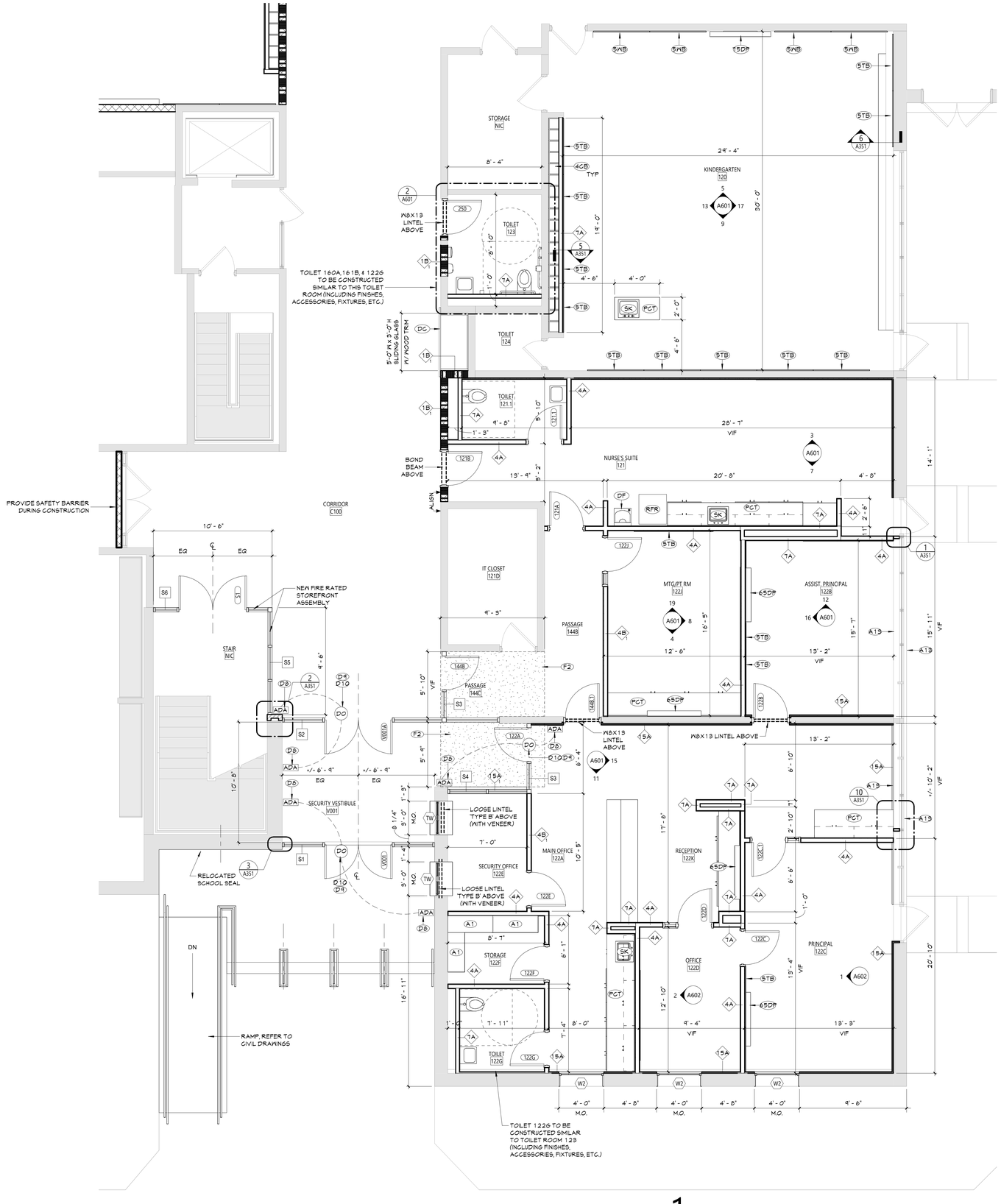


1 AREA A - PARTIAL FIRST FLOOR PLAN
A111 1/4" = 1'-0"

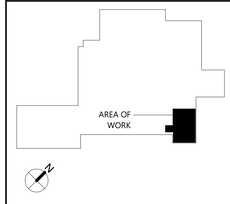
GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3. REFER TO A700 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4. REFER TO SHEET A701 FOR PARTITION TYPES AND ADDITIONAL NOTES.

NEW WORK KEYNOTES

#	Description
4GB	CUBBIE, 4'.
5TB	TACKABLE SURFACE BOARD, 5'.
5WB	WHITEBOARD, 5'.
65DP	65" PR DISPLAY.
75DP	75" PR DISPLAY MONITOR.
A1	PROVIDE METAL SHELVES
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.
DC	NEW DISPLAY CASE. SEE PLAN FOR DIMENSIONS. SILL TO BE AT 3'-0" A.F.F. INFILL AROUND ALL SIDES WITH METAL STUDS AND PAINTED GWB.
DF	DRINKING FOUNTAIN, REFER TO PLUMBING DRAWINGS
F2	PROVIDE SELF-LEVELING CEMENTITIOUS UNDERLAYMENT TO ACHIEVE LEVEL SURFACE FOR FINISHED FLOORING.
PCT	PLAM COUNTER TOP, CONTINUOUS.
RFR	REFRIGERATOR, NOT-IN-CONTRACT.
SK	SINK, REFER TO PLUMBING DRAWINGS

KEY PLAN



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

Project Title

REGISTERED ARCHITECT
JOHN M. WITZENBURG
022334
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

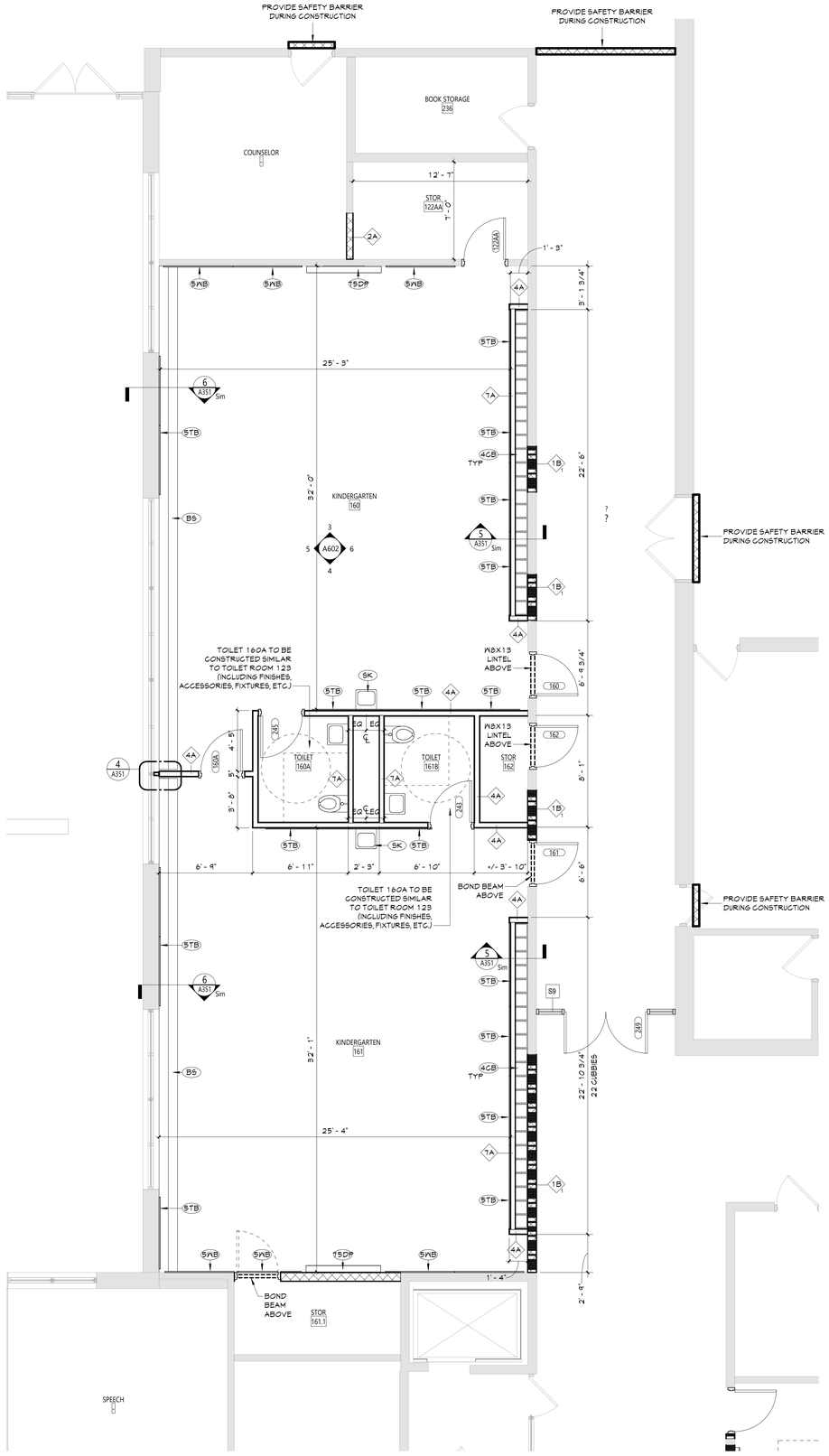
#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ENLARGED FLOOR PLAN - FIRST FLOOR - AREA A

Sheet No.
BES
A111

CONSTRUCTION DOCUMENTS



1 AREA B - PARTIAL FIRST FLOOR PLAN
A112 1/4" = 1'-0"

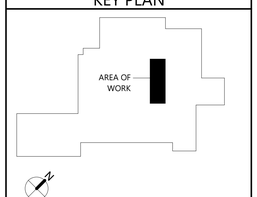
GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4. REFER TO SHEET A7101 FOR PARTITION TYPES AND ADDITIONAL NOTES.

NEW WORK KEYNOTES

#	Description
4GB	CUBBIE, 4'.
5TB	TACKABLE SURFACE BOARD, 5'.
5WB	WHITEBOARD, 5'.
15DP	15" PR DISPLAY MONITOR.
B5	BOOK SHELVES.
SK	SINK, REFER TO PLUMBING DRAWINGS

KEY PLAN



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Project Title

VALLEY CENTRAL SCHOOL DISTRICT
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2023 CAPITAL PROJECT - PHASE 1

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

#	DATE	DESCRIPTION

Drawn By:	Author
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Proj. #:	44-13-01.06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ENLARGED FLOOR PLAN - FIRST FLOOR - AREA B

Sheet No.
BES A112

CONSTRUCTION DOCUMENTS

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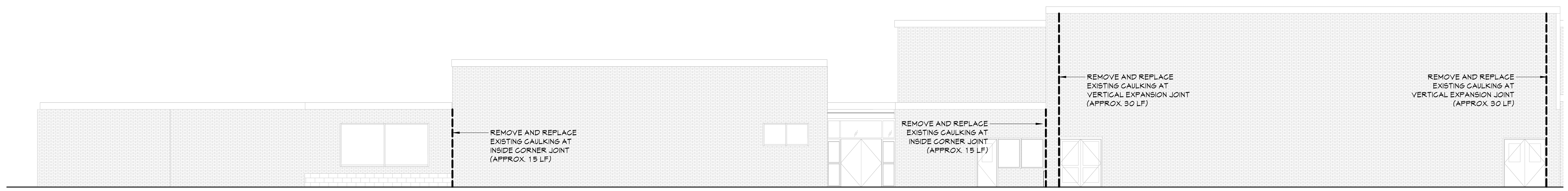
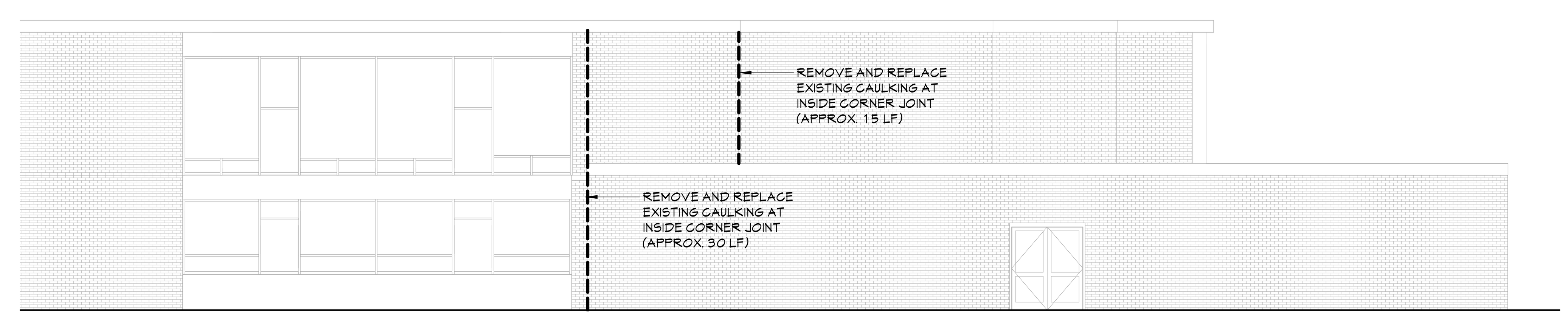
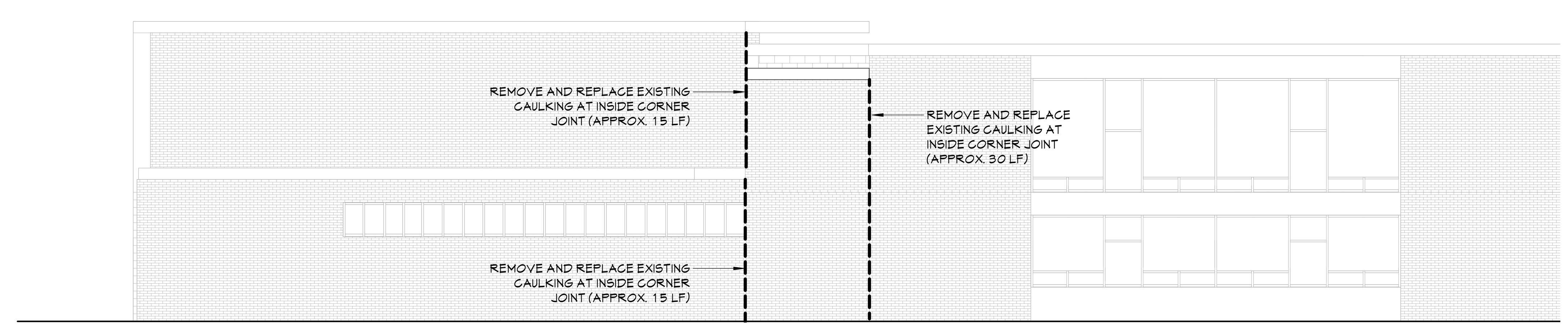


3 A201 EXTERIOR ELEVATION - WEST 1
1/8" = 1'-0"



2 A201 EXTERIOR ELEVATION - SOUTH 2
1/8" = 1'-0"



1 A201 EXTERIOR ELEVATION - SOUTH 1
1/8" = 1'-0"

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Project Title
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2023 CAPITAL PROJECT - PHASE 1

THOMAS M. RITZENTHALER REGISTERED ARCHITECT 023344 STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
BES A201

CONSTRUCTION DOCUMENTS

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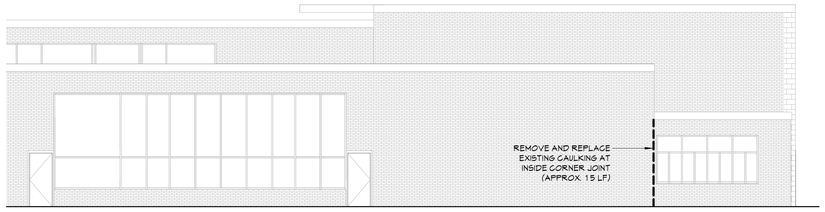
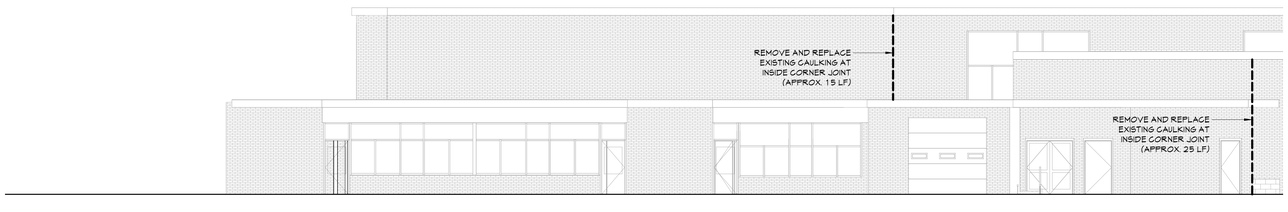
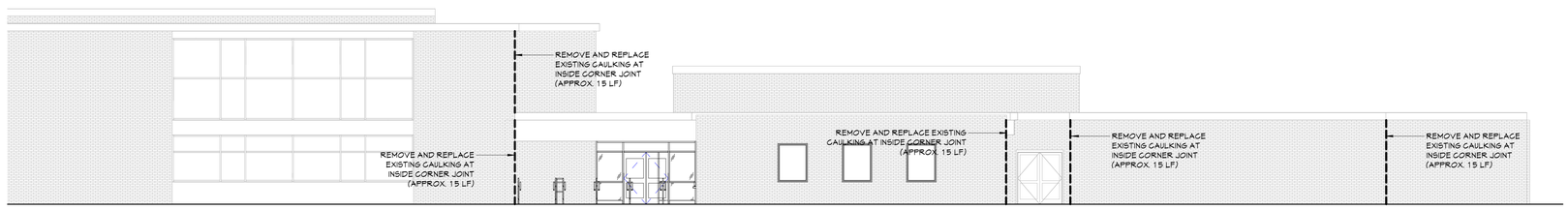


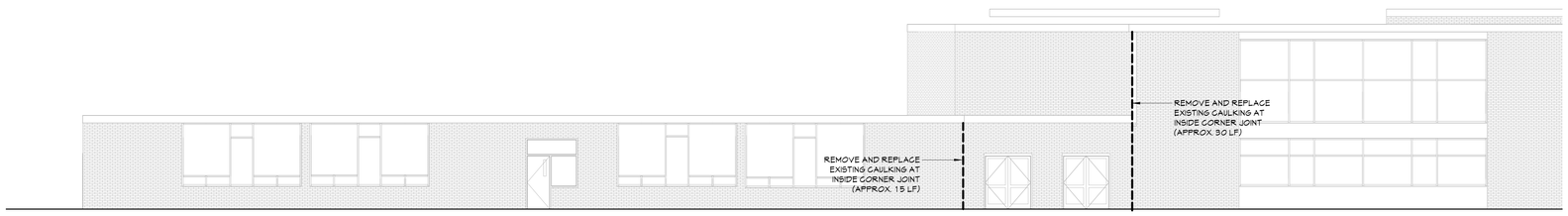
4 EXTERIOR ELEVATION - NORTH 2
A202 1/8" = 1'-0"



3 EXTERIOR ELEVATION - NORTH 1
A202 1/8" = 1'-0"



2 EXTERIOR ELEVATION - EAST 2
A202 1/8" = 1'-0"



1 EXTERIOR ELEVATION - EAST 1
A202 1/8" = 1'-0"

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2023 CAPITAL PROJECT - PHASE 1

Project Title

REGISTERED ARCHITECT
JOSEPH M. FITZSIMMONS
022334
STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
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EXTERIOR ELEVATIONS

Sheet No.

BES
A202

CONSTRUCTION DOCUMENTS

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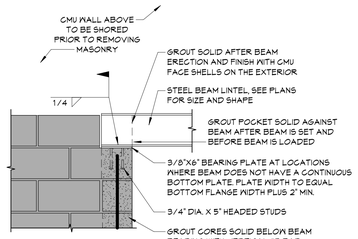


TYPICAL STEEL BEAM LINTELS (EXISTING WALL ASSEMBLIES)

9 STEEL BEAM LINTEL DETAILS
A351 3/4" = 1'-0"

LOOSE STEEL LINTEL SCHEDULE

TYPE	OPENING WIDTH	SHAPE	COMMENTS
'A'	8"-18"	(2) L3.5X3.5X1/4" + 1/8" PLATE	WITH VENEER: (1) ADDITIONAL L3.5X3.5X1/4"
'B'	19" - 48"	(2) L4X3.5X1/4" + 1/8" PLATE	WITH VENEER: (1) ADDITIONAL L4X3.5X1/4"
'C'	49" - 96"	(2) L6X3.5X5/16" + 1/8" PLATE	WITH VENEER: (1) ADDITIONAL L6X3.5X5/16"

LOOSE STEEL LINTEL NOTES:

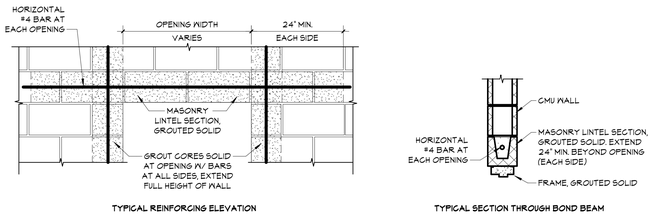
1) BEARING LINTELS AT EACH SIDE OF OPENING EQUAL TO 1/12 OF CLEAR SPAN, BUT NOT LESS THAN 8".

2) PROVIDE SOLID MASONRY AT LINTEL BEARING.

3) WHERE LINTEL BEARING INTERFERES WITH CONTROL JOINT PLACEMENT, PROVIDE FLEXIBLE CAULK JOINT.

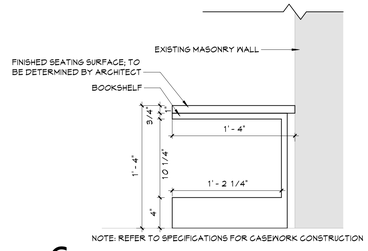
TYPICAL LOOSE STEEL LINTELS (EXISTING WALL ASSEMBLIES)

7 LOOSE STEEL LINTEL DETAILS
A351 3/4" = 1'-0"



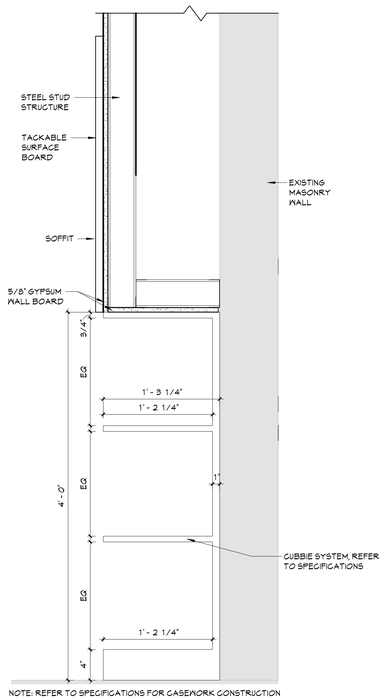
TYPICAL BOND BEAM LINTELS (NEW WALL ASSEMBLIES)

8 BOND BEAM LINTEL DETAILS
A351 3/4" = 1'-0"



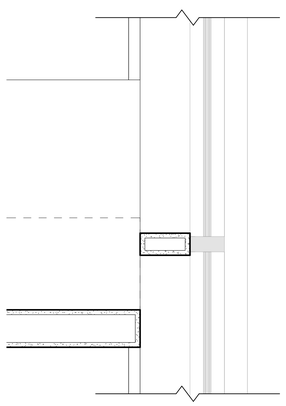
NOTE: REFER TO SPECIFICATIONS FOR CASEWORK CONSTRUCTION

6 SECTION DETAIL
A351 1 1/2" = 1'-0"

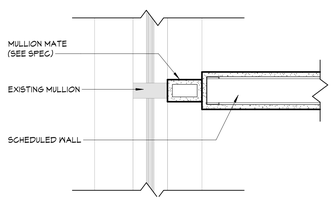


NOTE: REFER TO SPECIFICATIONS FOR CASEWORK CONSTRUCTION

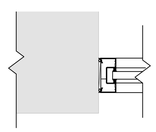
5 SECTION DETAIL
A351 1 1/2" = 1'-0"



10 PLAN DETAIL
A351 1 1/2" = 1'-0"



4 PLAN DETAIL
A351 1 1/2" = 1'-0"



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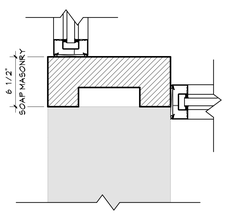

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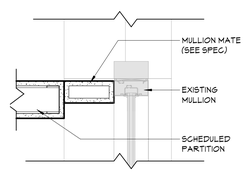

1 PLAN DETAIL
A351 1 1/2" = 1'-0"

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VALLEY CENTRAL SCHOOL DISTRICT
BEREA ELEMENTARY 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. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

PLAN AND SECTION DETAILS

Sheet No.

BES
A351

CONSTRUCTION DOCUMENTS

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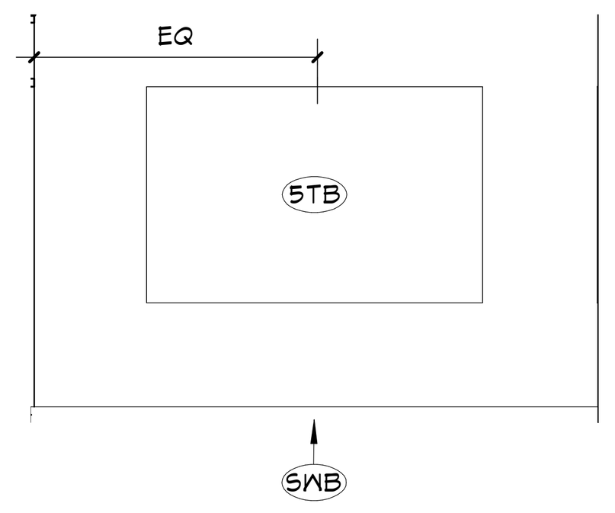
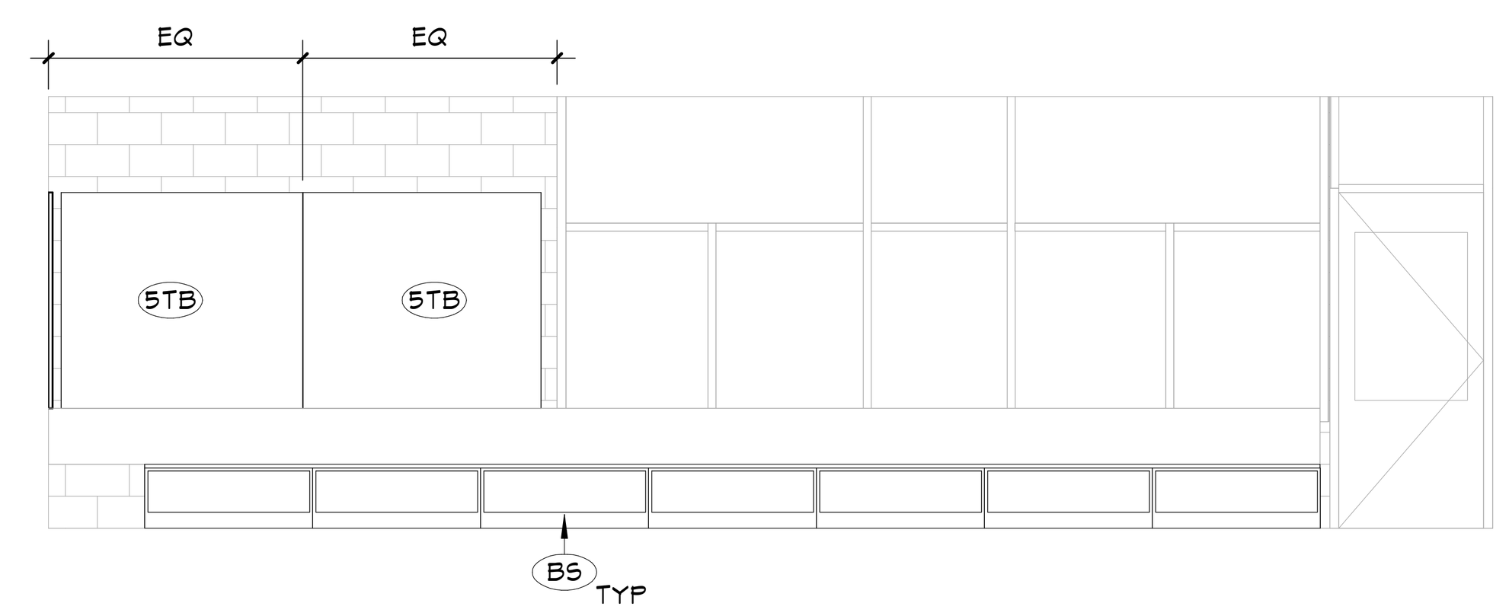
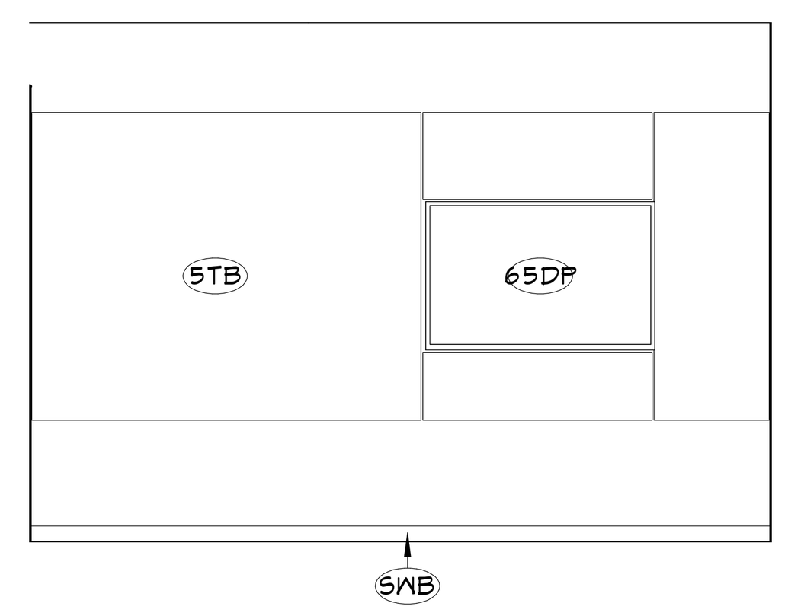


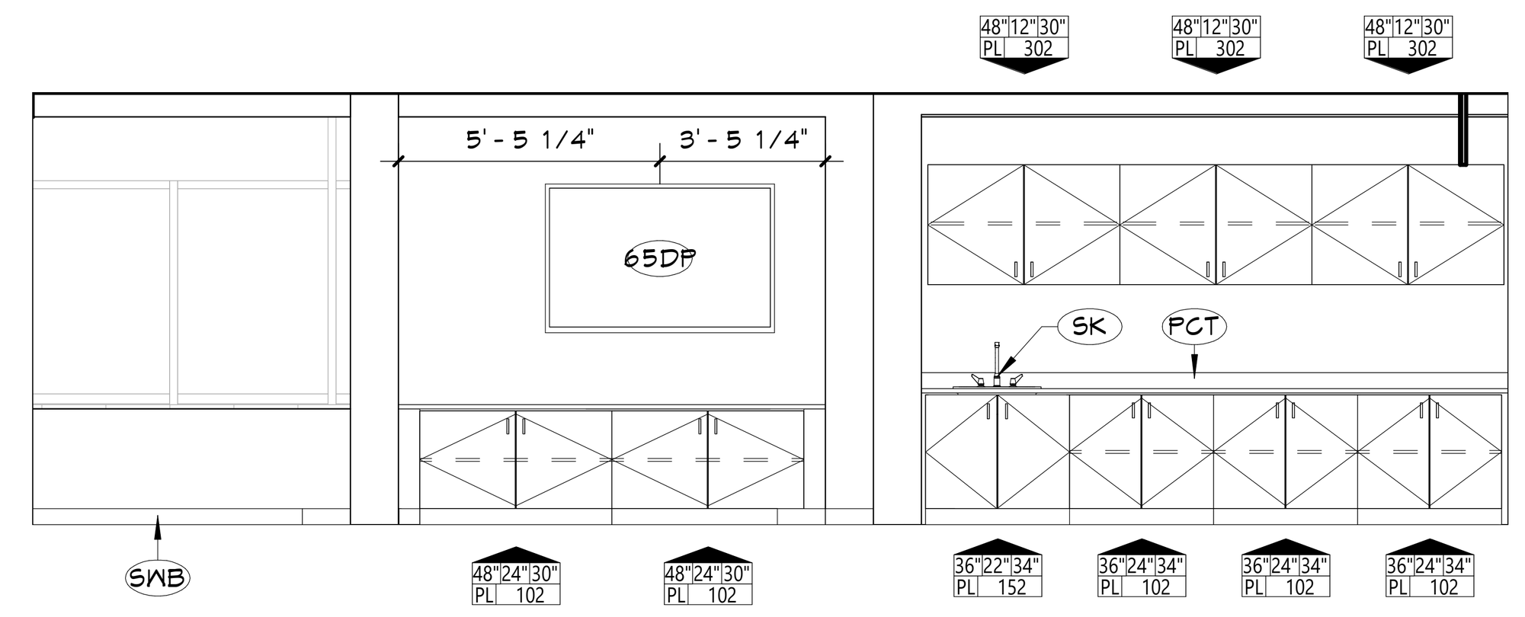
19 MTG/PT RM 122I NORTH
A601 1/4" = 1'-0"



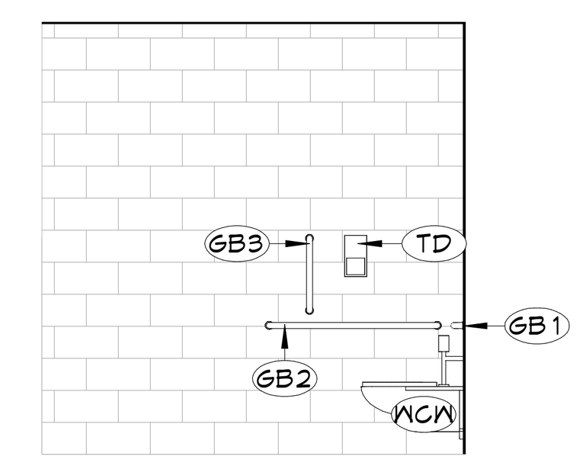
17 KINDERGARTEN 120 EAST
A601 1/4" = 1'-0"



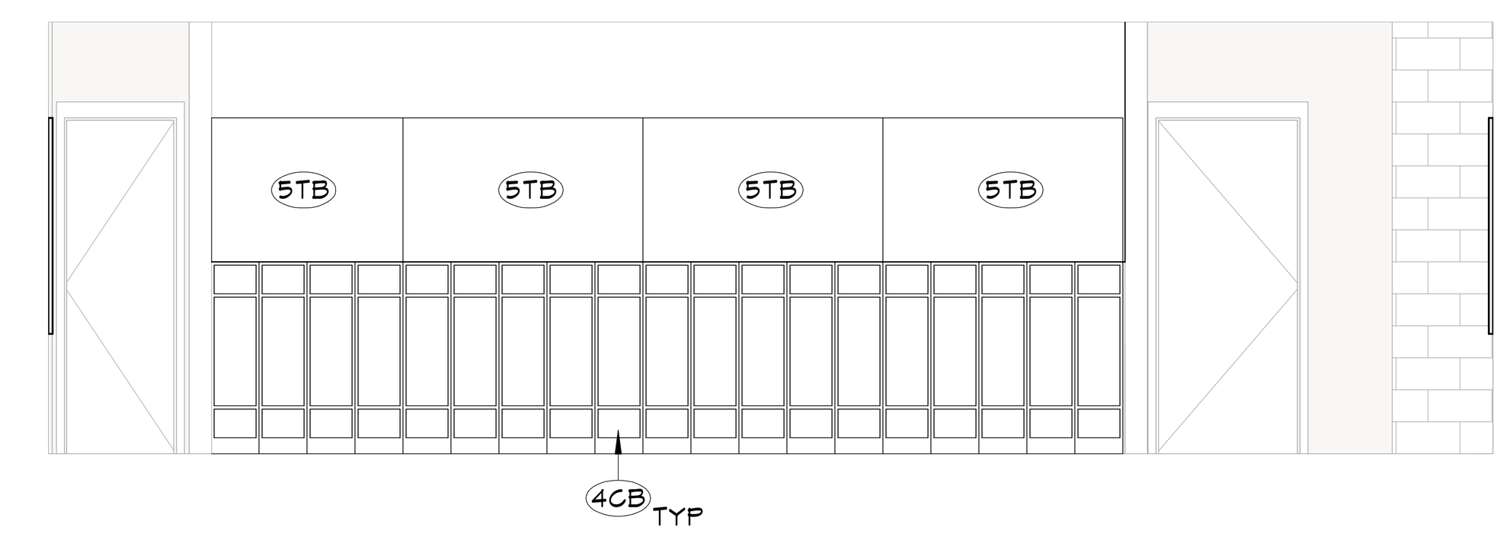
16 ASSIT. PRINCIPAL 122B WEST
A601 1/4" = 1'-0"



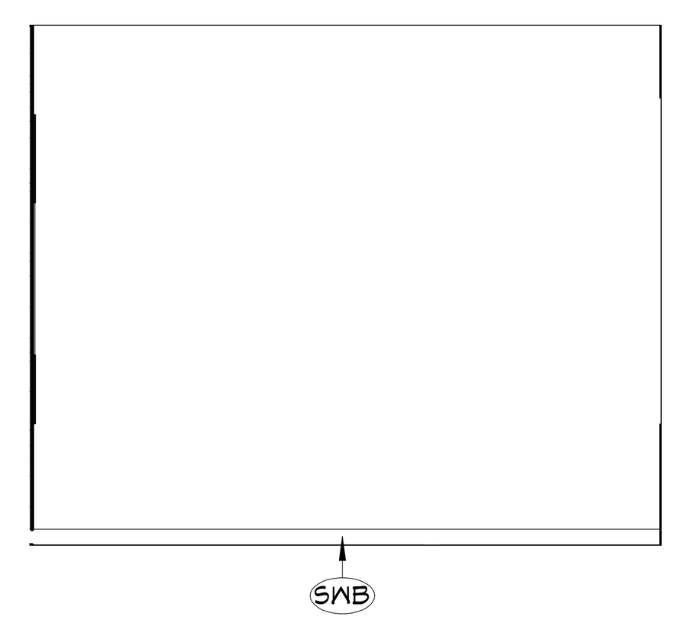
15 MAIN OFFICE 122A EAST
A601 1/4" = 1'-0"



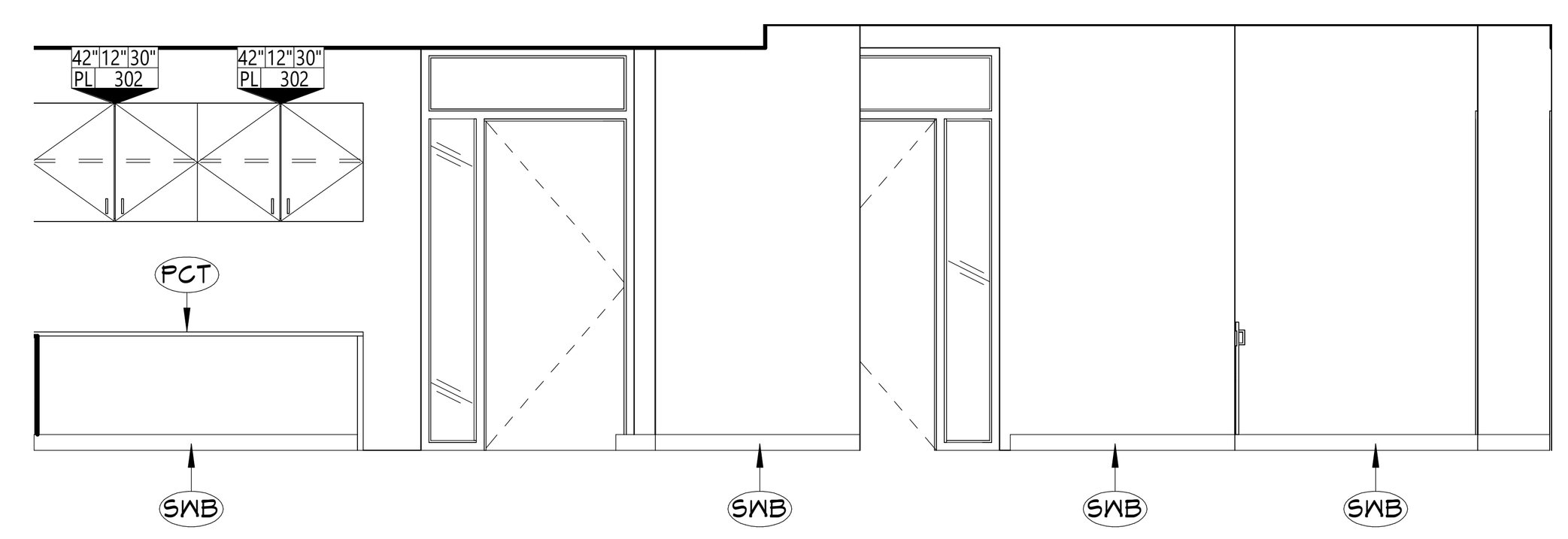
14 FAC WC 123 - TYP ADA TOILET EAST
A601 1/4" = 1'-0"



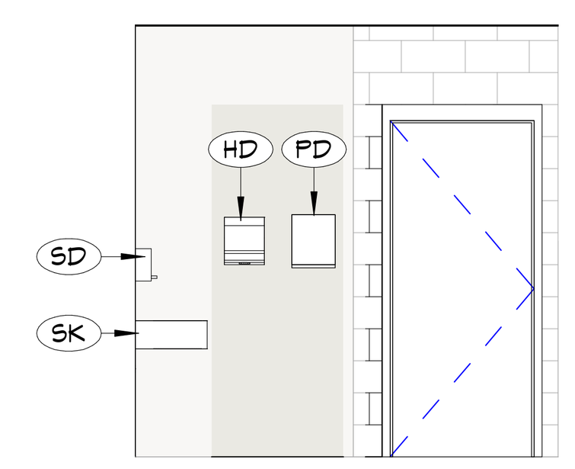
13 KINDERGARTEN 120 WEST
A601 1/4" = 1'-0"



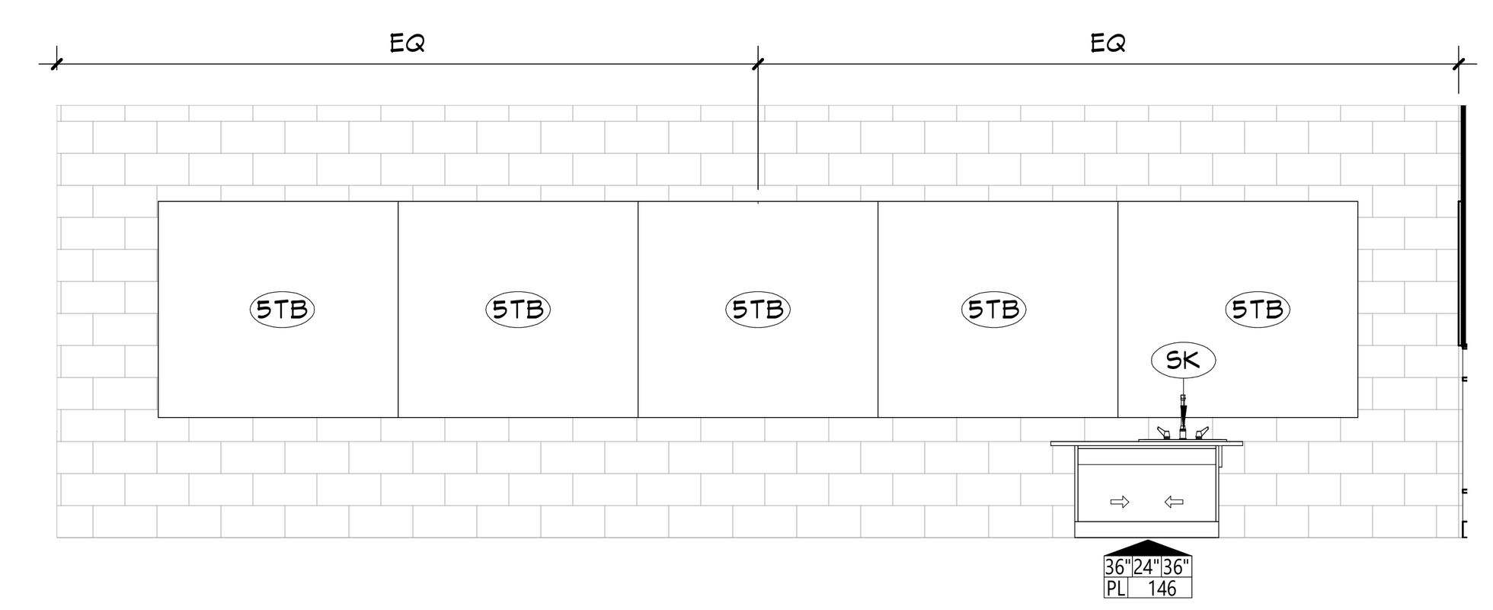
12 ASSIT. PRINCIPAL 122B NORTH
A601 1/4" = 1'-0"



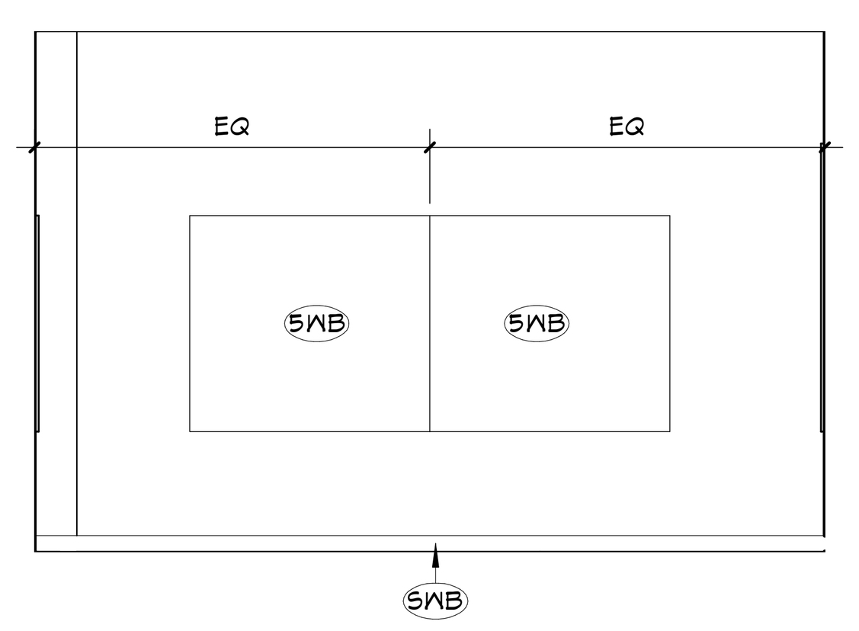
11 MAIN OFFICE 122A SOUTH
A601 1/4" = 1'-0"



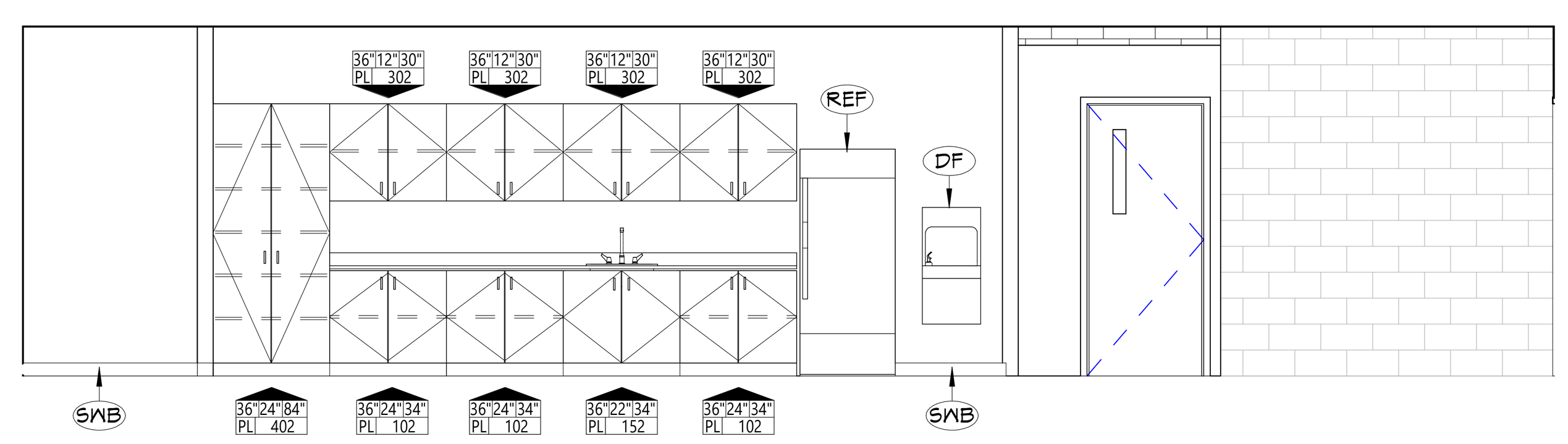
10 FAC WC 123 - TYP ADA TOILET WEST
A601 1/4" = 1'-0"



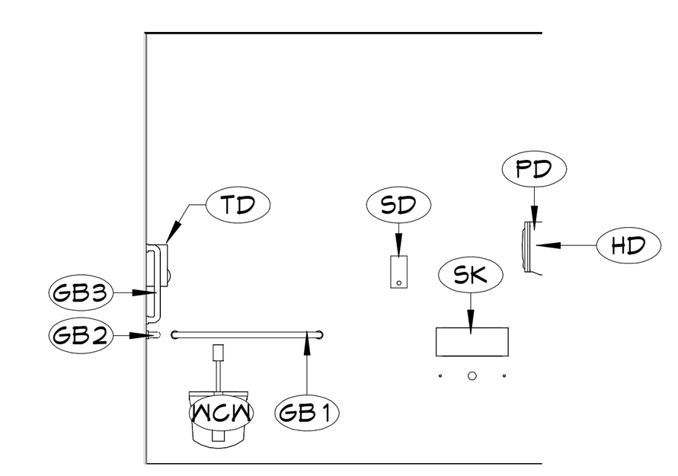
9 KINDERGARTEN 120 SOUTH
A601 1/4" = 1'-0"



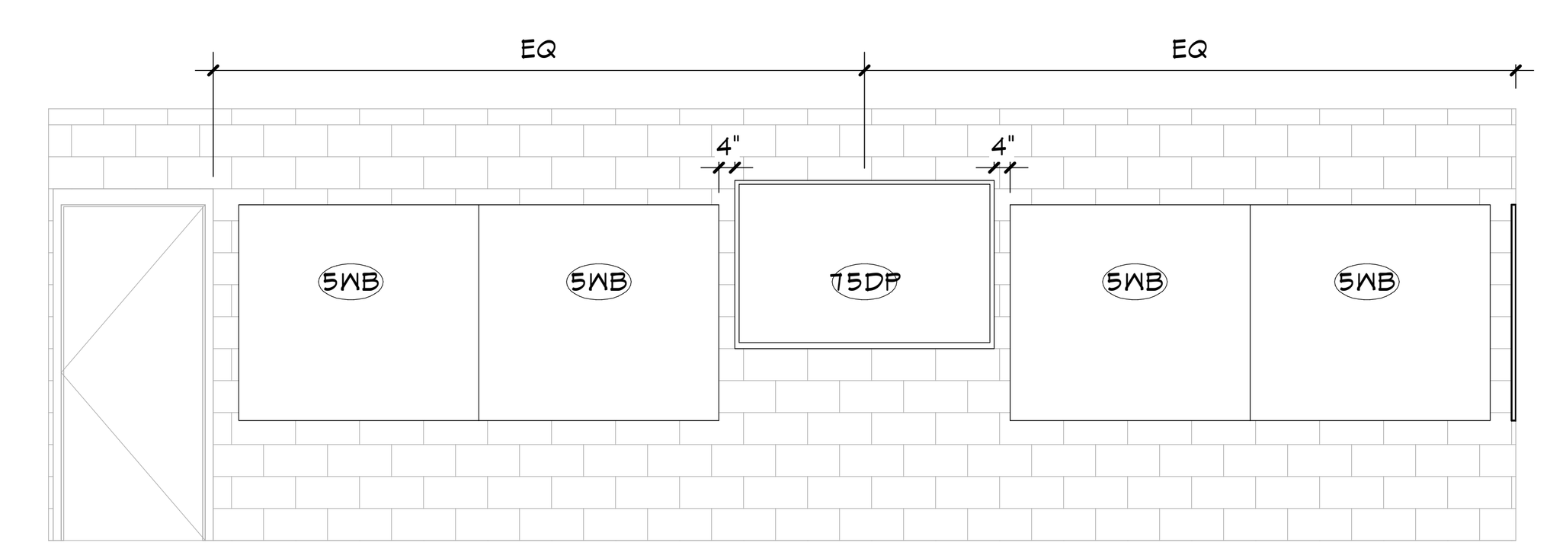
8 MTG/PT RM 122I EAST
A601 1/4" = 1'-0"



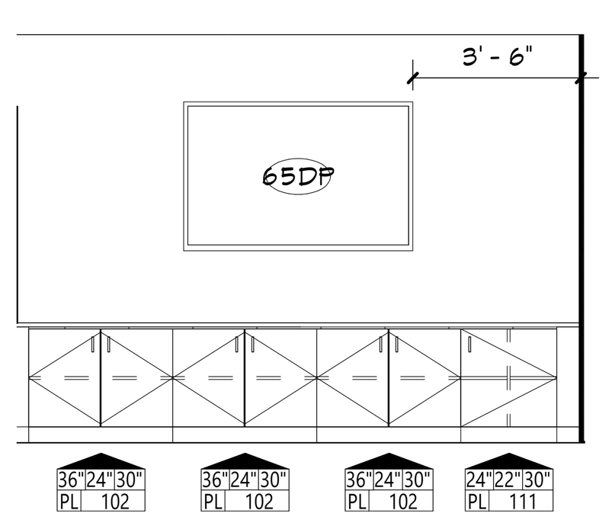
7 NURSE'S SUITE 121 SOUTH
A601 1/4" = 1'-0"



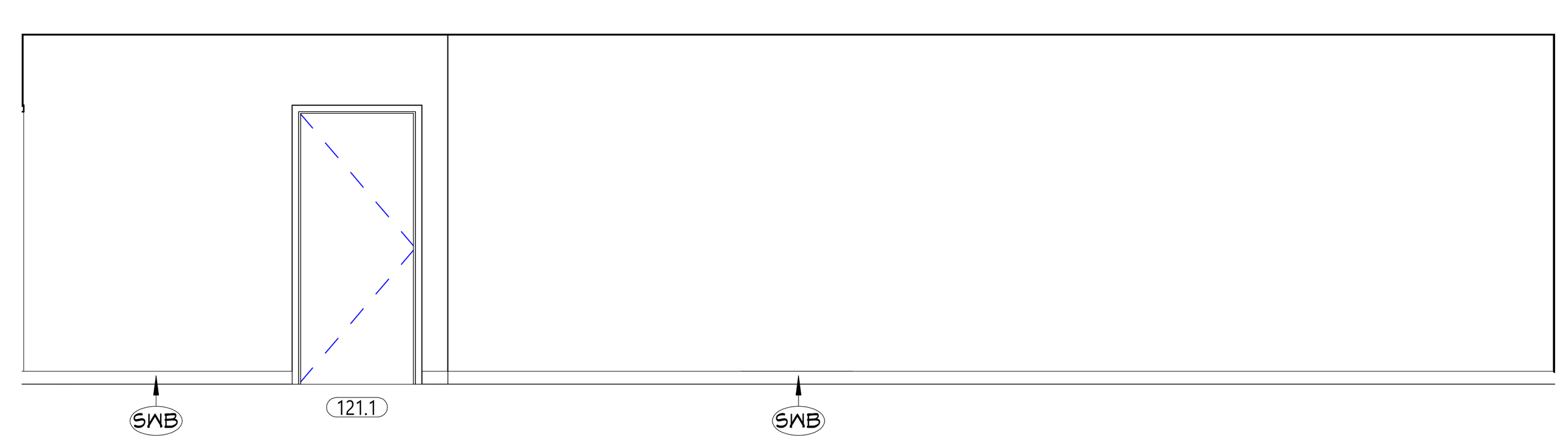
6 FAC WC 123 - TYP ADA TOILET SOUTH
A601 1/4" = 1'-0"



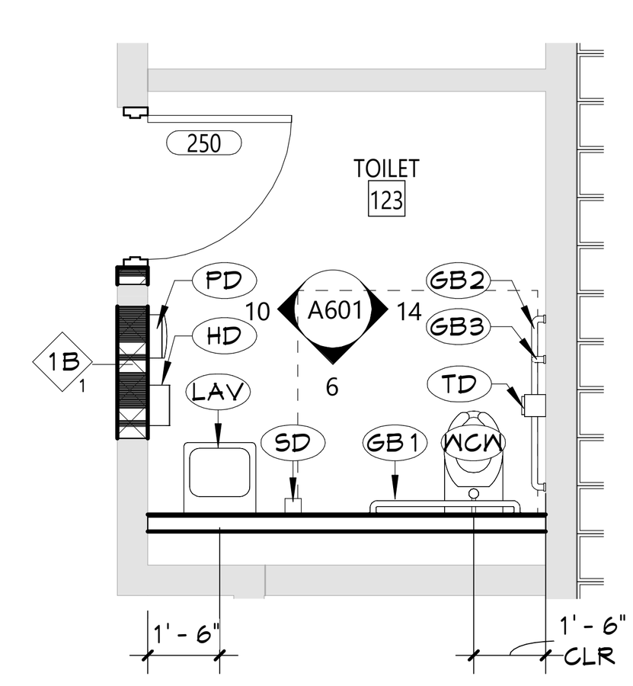
5 KINDERGARTEN 120 NORTH
A601 1/4" = 1'-0"

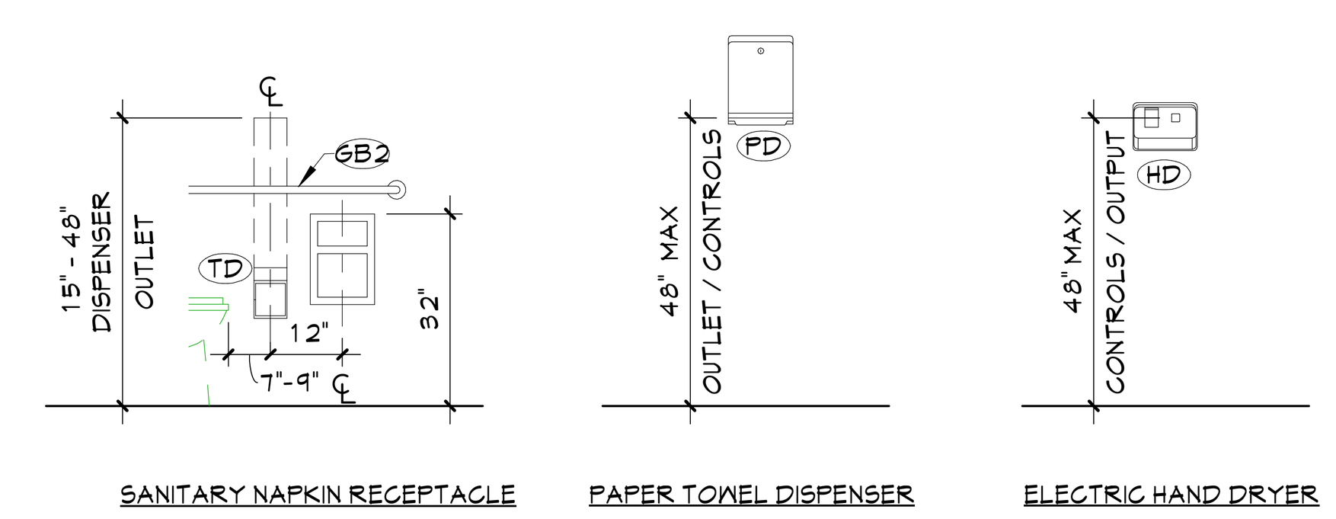


4 MTG/PT RM 122I SOUTH
A601 1/4" = 1'-0"

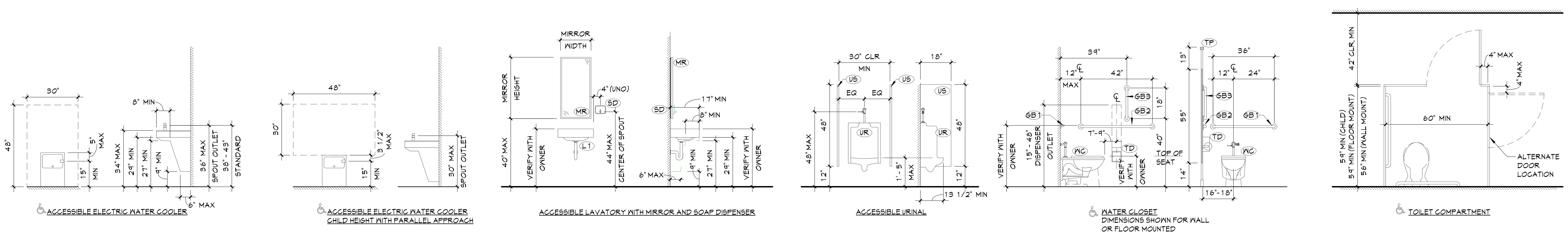


3 NURSE'S SUITE 121 NORTH
A601 1/4" = 1'-0"





2 ENLARGED PLAN - TYP ADA TOILET
A601 1/4" = 1'-0"



1 PLUMBING FIXTURE ELEVATIONS
A601 3/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4. REFER TO SHEET A701 FOR PARTITION TYPES AND ADDITIONAL NOTES.

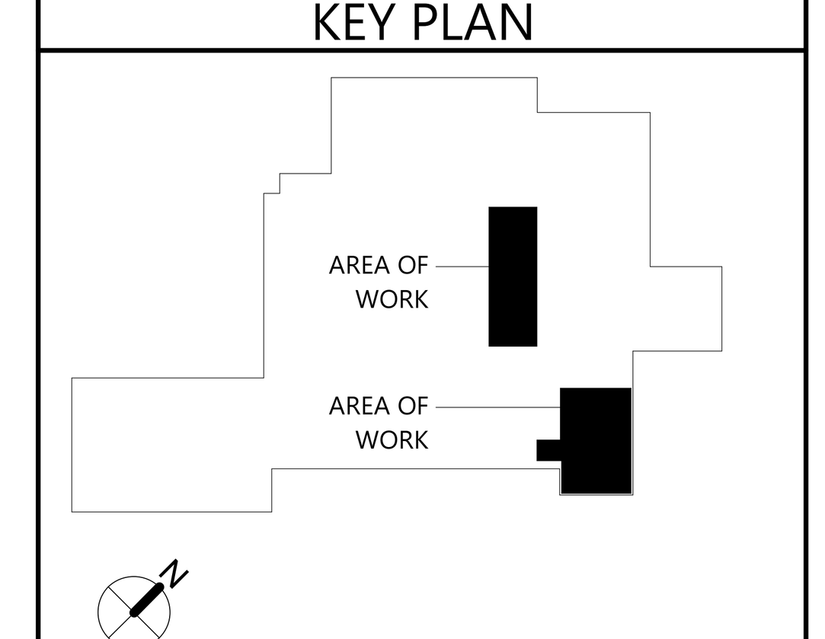
TOILET ROOM NOTES

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

DEMOLITION KEYNOTES

#	Description

KEY PLAN



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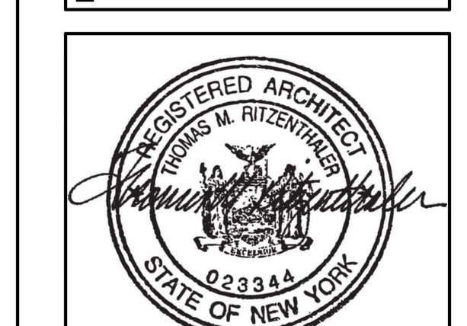
Project Title

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



EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
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Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

ENLARGED PLAN AND INTERIOR ELEVATIONS

Sheet No.

BES A601

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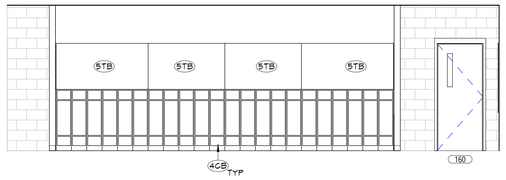
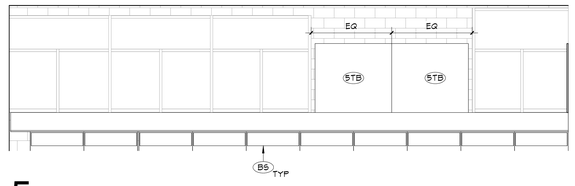
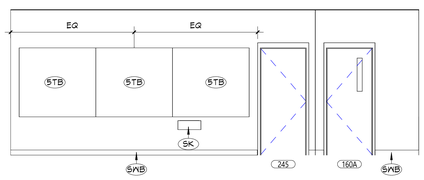


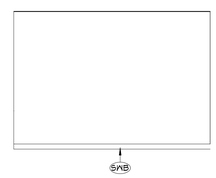
6 INTERIOR ELEVATION - KINDERGARTEN 160 (EAST)
A602 1/4" = 1'-0"



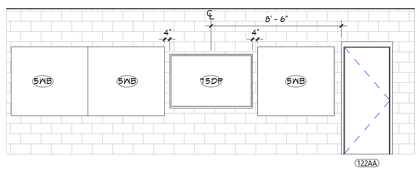
5 INTERIOR ELEVATION - KINDERGARTEN 160 (WEST)
A602 1/4" = 1'-0"



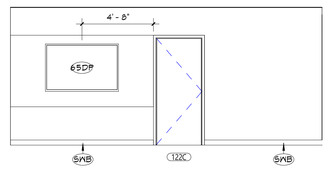
4 INTERIOR ELEVATION - KINDERGARTEN 160 (SOUTH
A602 1/4" = 1'-0"



2 INTERIOR ELEVATION - OFFICE 122D
A602 1/4" = 1'-0"



3 INTERIOR ELEVATION - KINDERGARTEN 160 (NORTH)
A602 1/4" = 1'-0"



1 INTERIOR ELEVATION - PRINCIPAL OFFICE
A602 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4. REFER TO SHEET A7101 FOR PARTITION TYPES AND ADDITIONAL NOTES.

TOILET ROOM NOTES

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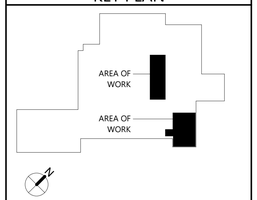
4. THE DIMENSIONS CALLED OUT ARE TO THE CENTERLINE OF FIXTURES AND EQUIPMENT AS SHOWN, UNO.
5. ALL ACCESSORIES TO BE SURFACE MOUNTED, UNO.
6. INSTALL PRESSURE TREATED WOOD BLOCKING IN STUD PARTITIONS AT ALL LOCATIONS WHERE TOILET ACCESSORIES ARE MOUNTED TO THE WALL.

KEY PLAN



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Project Title

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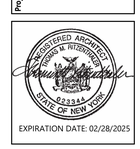
BEREA ELEMENTARY SCHOOL
2023 CAPITAL PROJECT - PHASE 1



EXPIRATION DATE: 02/28/2025

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CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

ENLARGED PLAN AND INTERIOR ELEVATIONS

Sheet No.

BES A602

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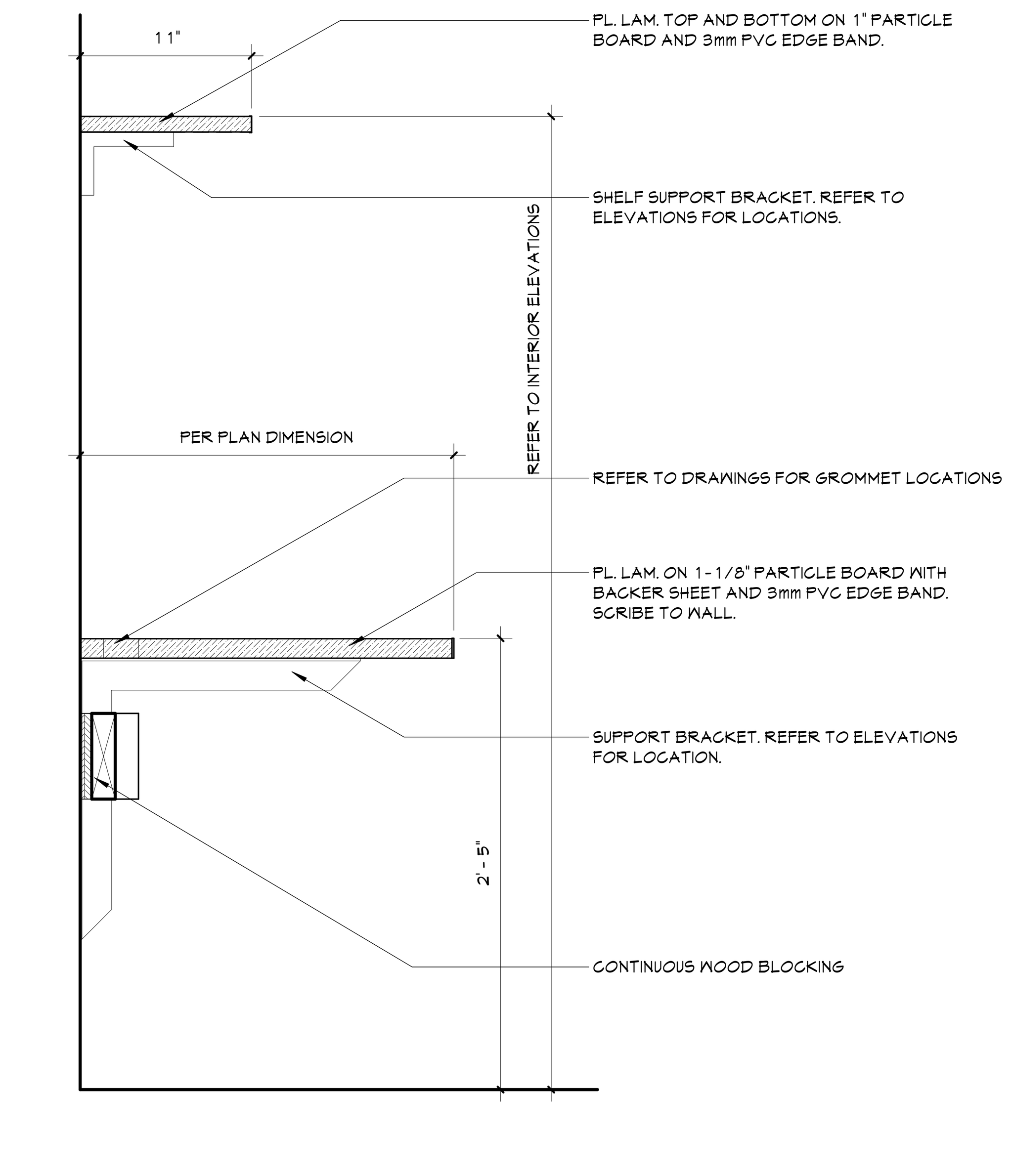
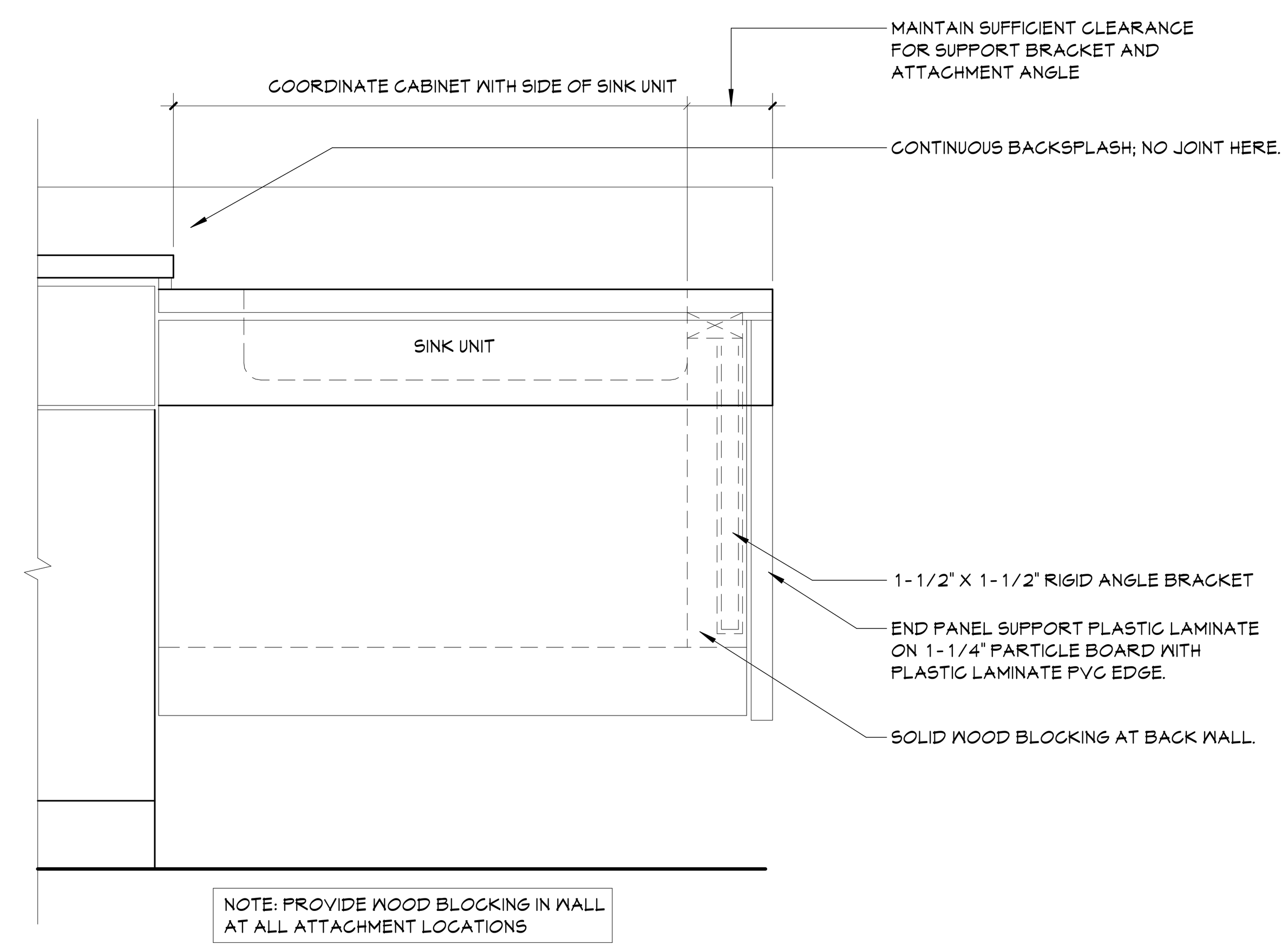
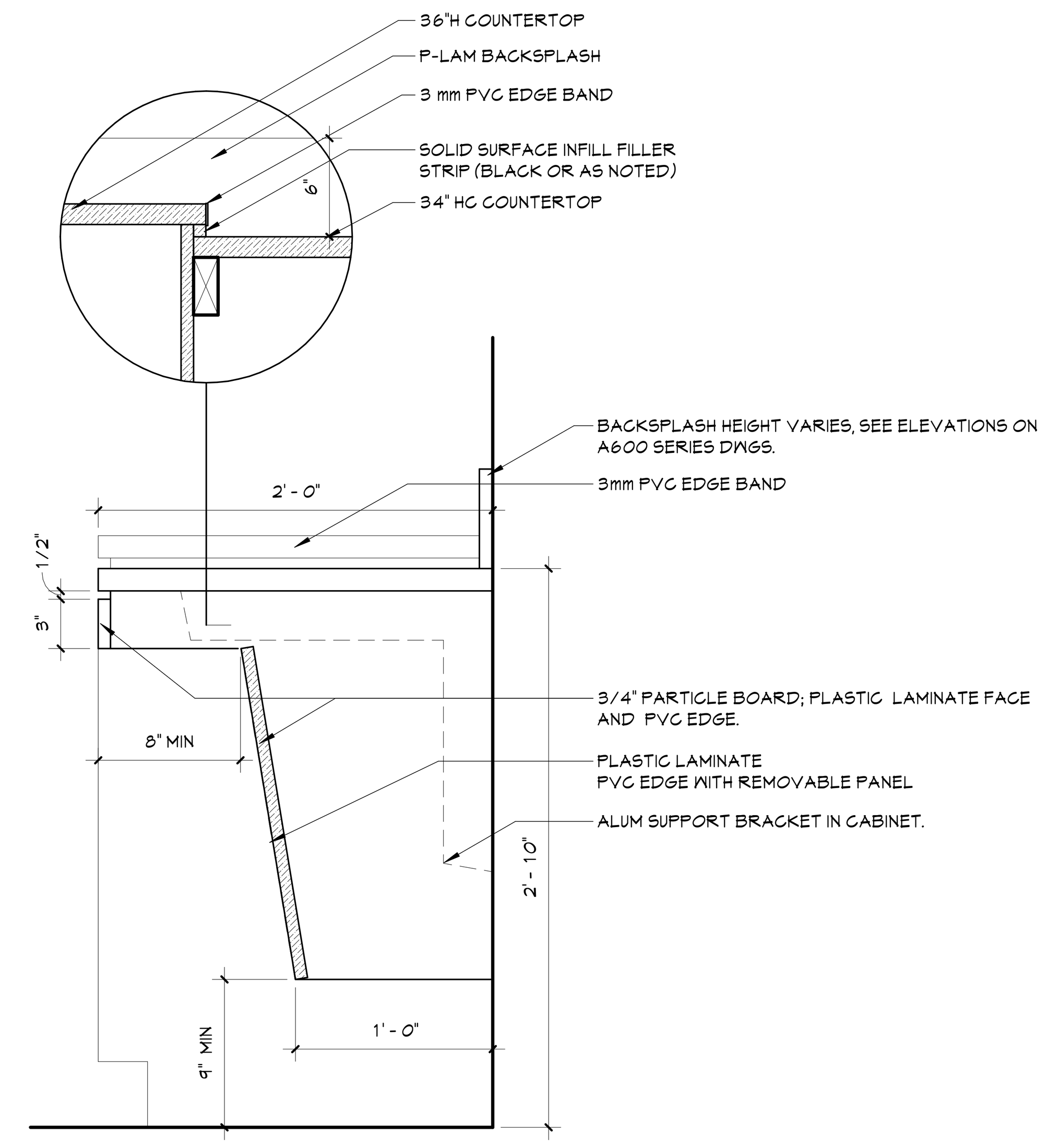


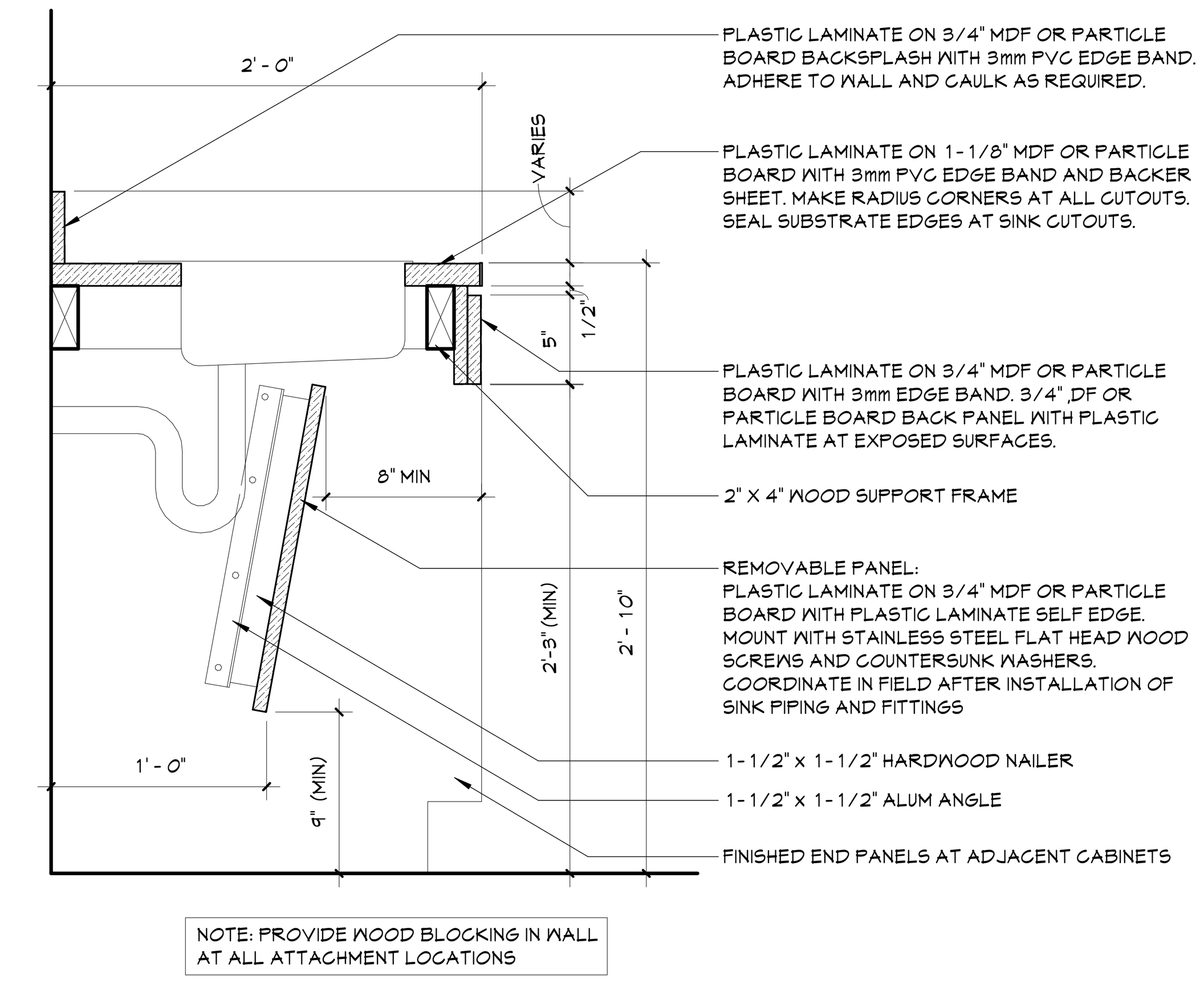
9 COUNTER DETAIL
A651 1 1/2" = 1'-0"



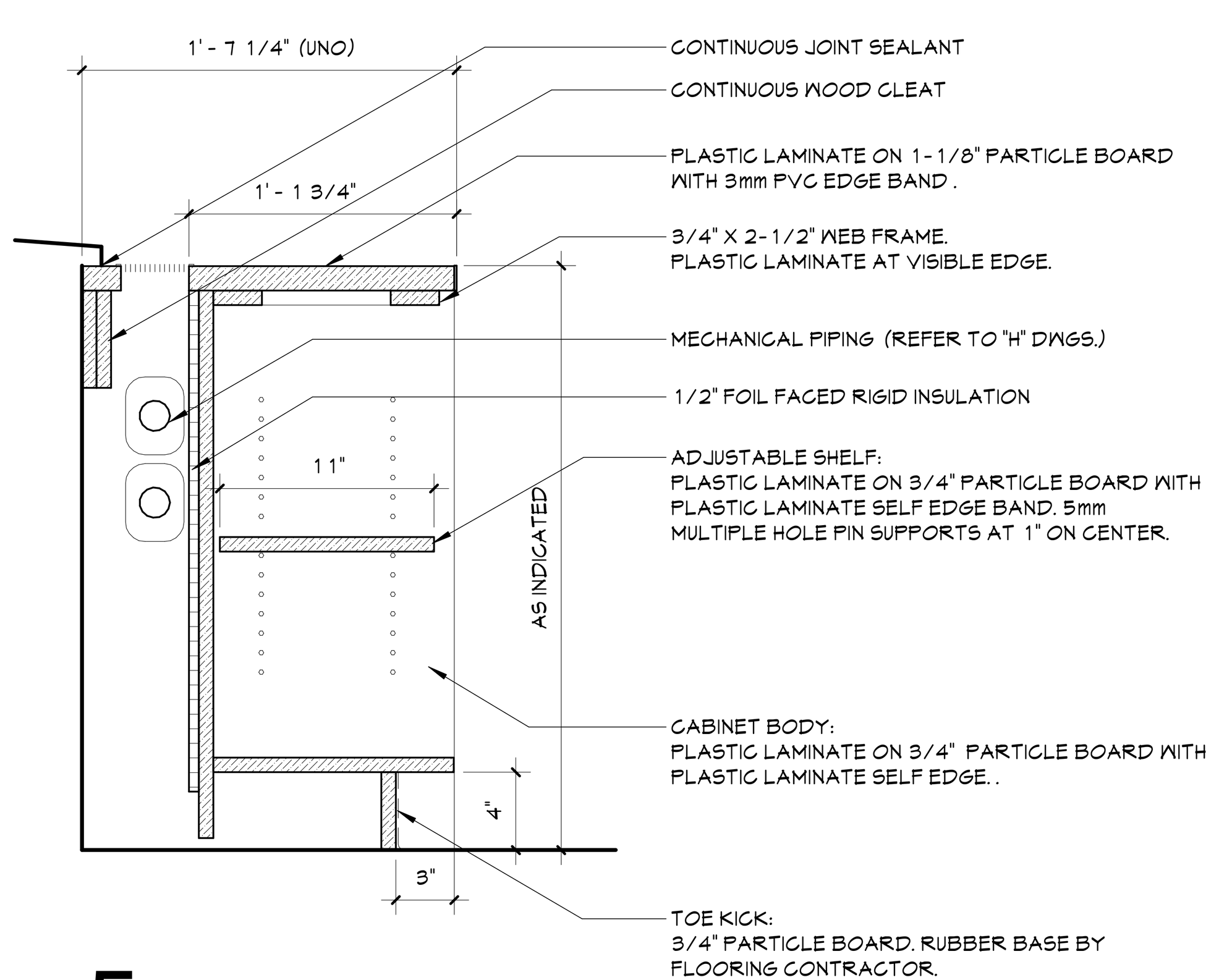
8 CASEWORK DETAIL
A651 1 1/2" = 1'-0"



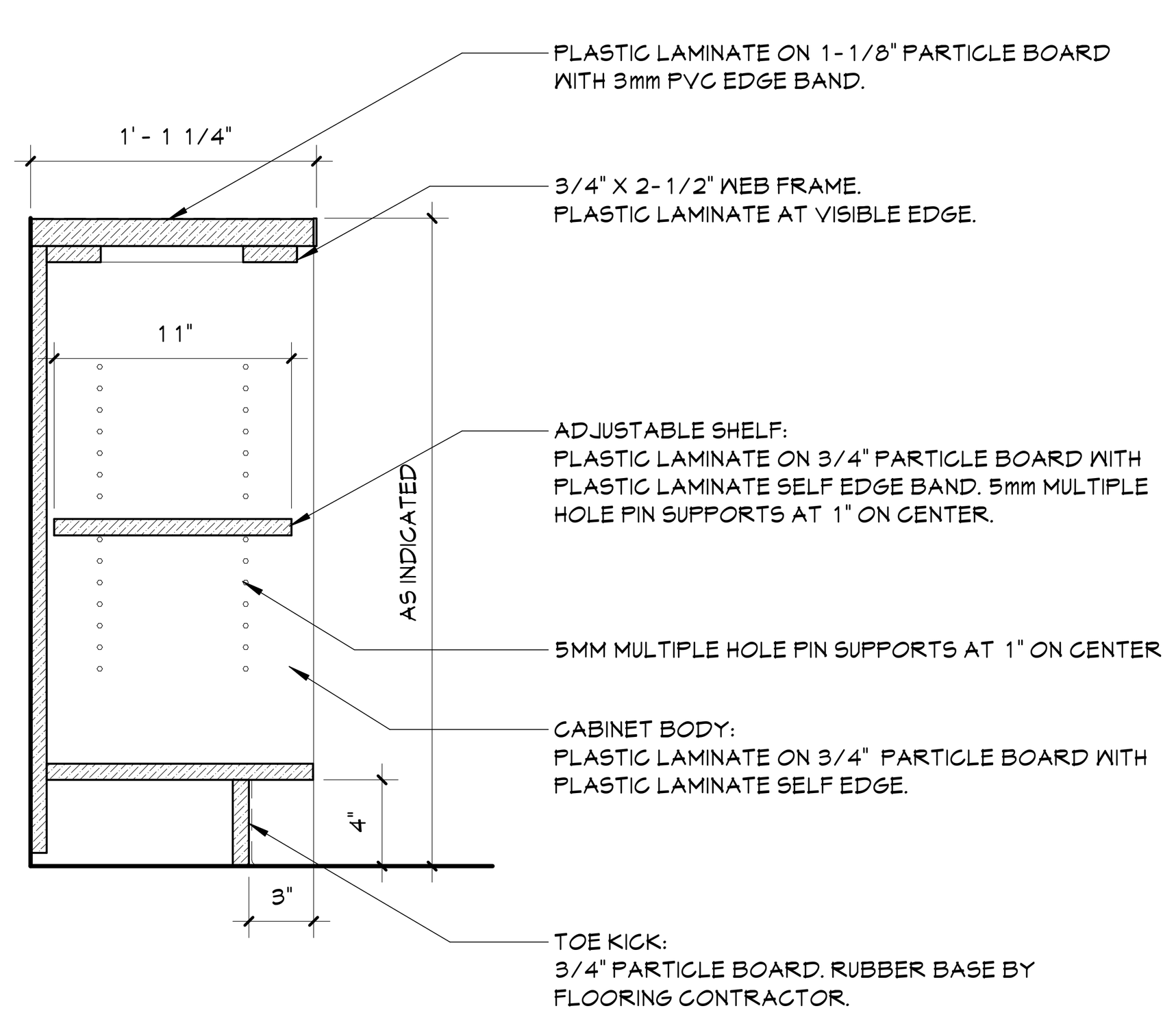
7 CASEWORK DETAIL
A651 1 1/2" = 1'-0"



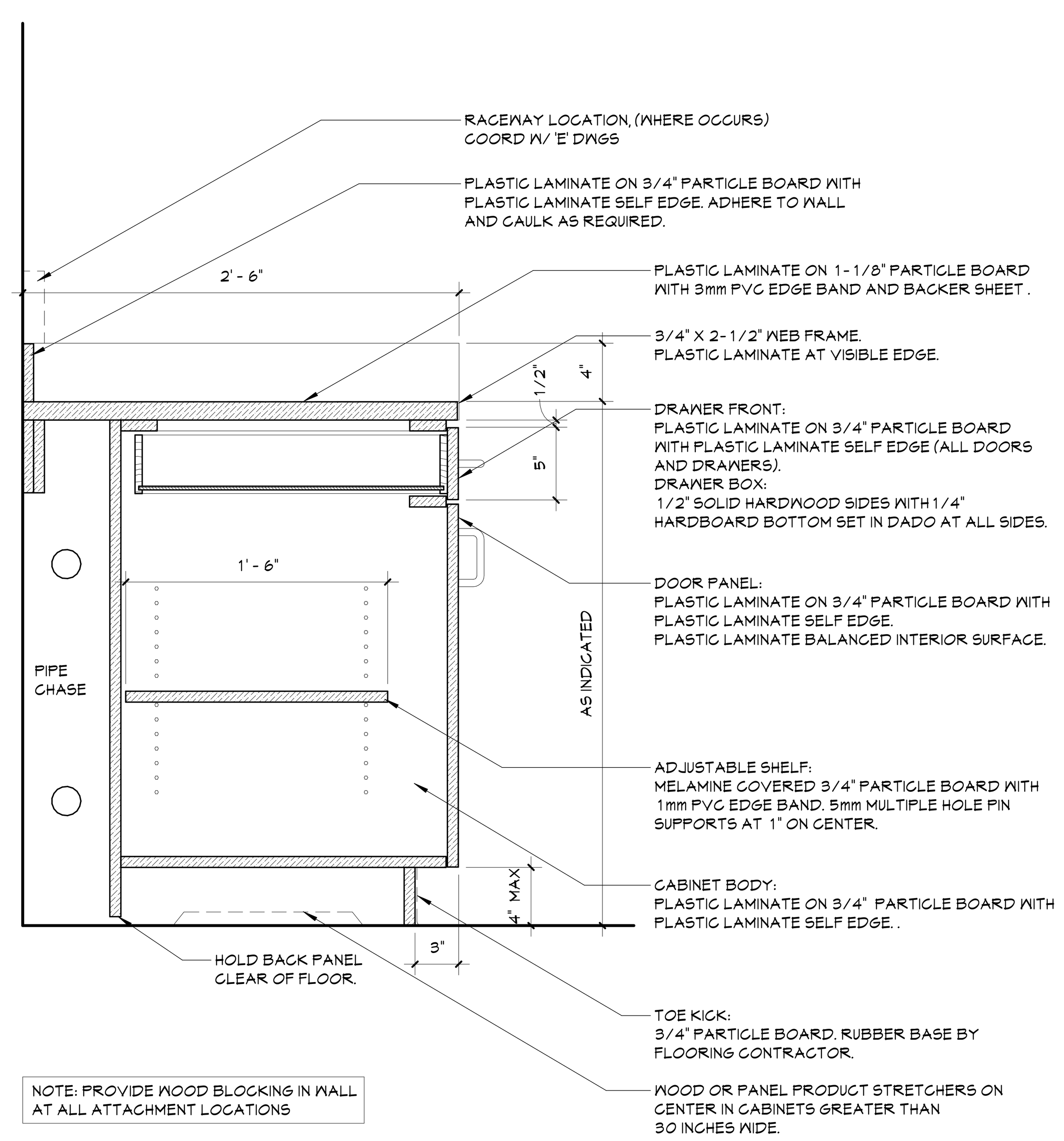
6 CASEWORK DETAIL
A651 1 1/2" = 1'-0"



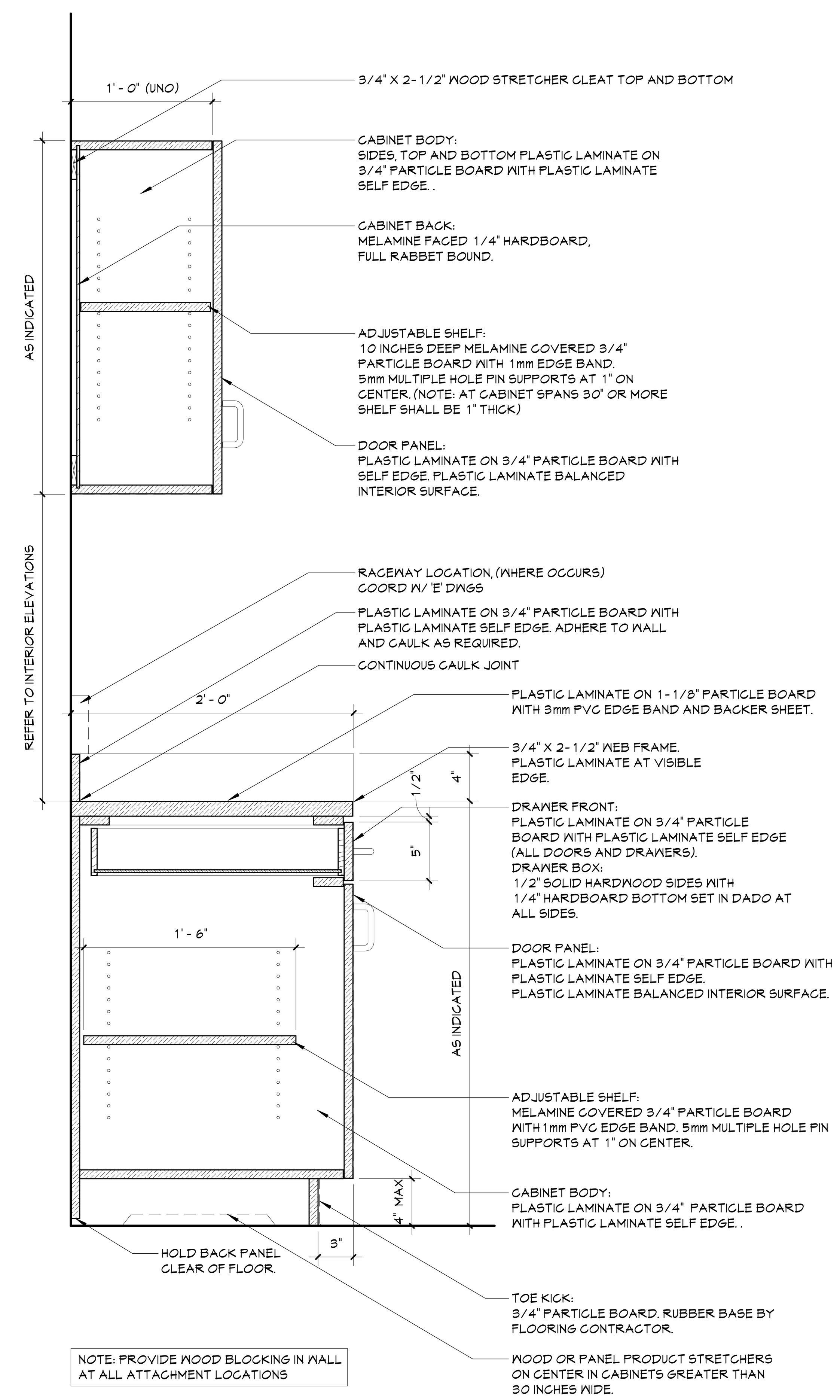
5 BOOKCASE DETAIL
A651 1 1/2" = 1'-0"



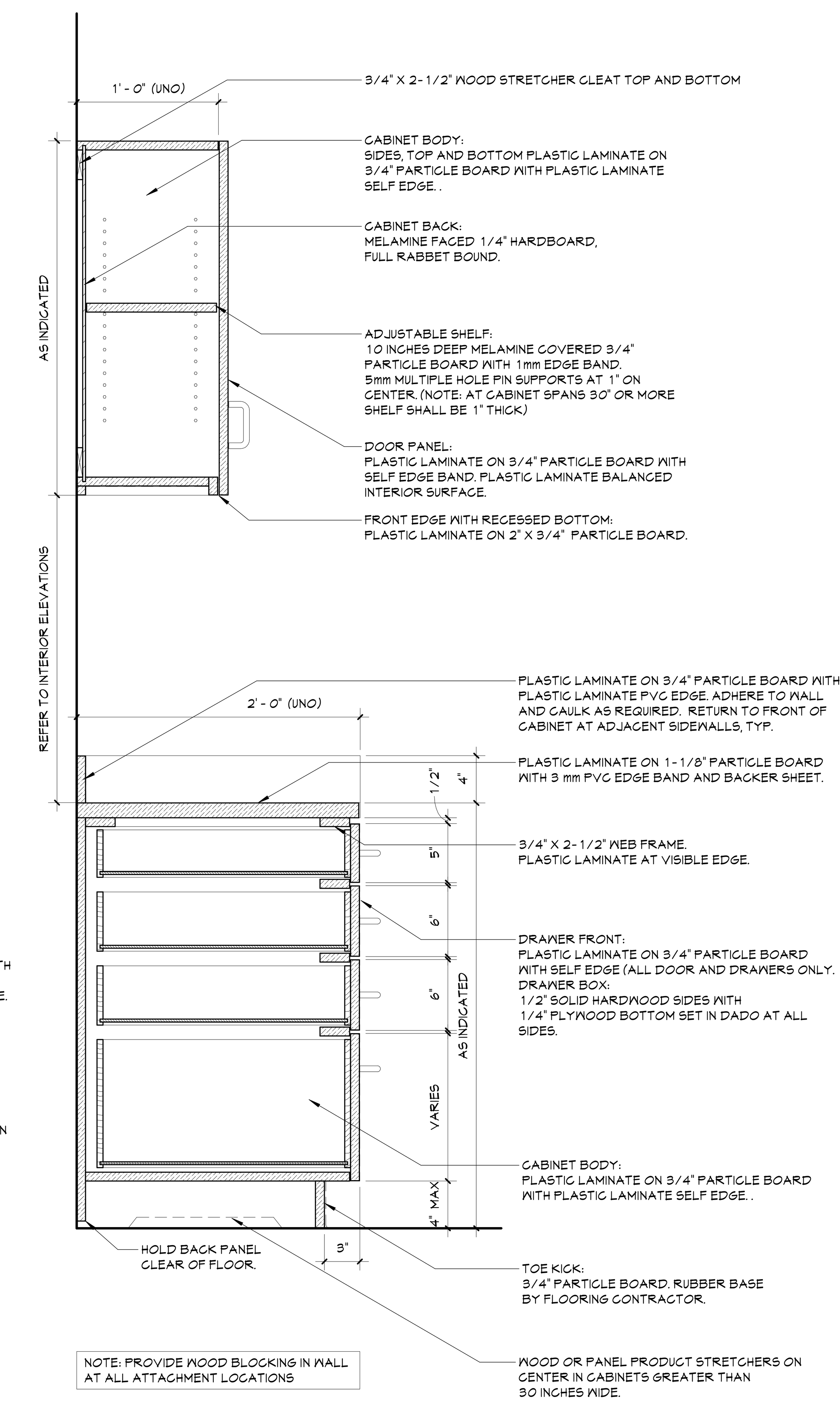
4 BOOKCASE DETAIL
A651 1 1/2" = 1'-0"



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



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



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

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BEREA ELEMENTARY SCHOOL
2023 CAPITAL PROJECT - PHASE 1

EXPIRATION DATE: 02/28/2025

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Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
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CASEWORK DETAILS

Sheet No.

BES
A651

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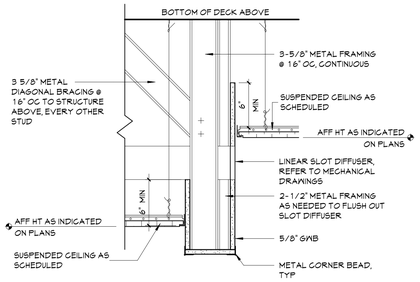
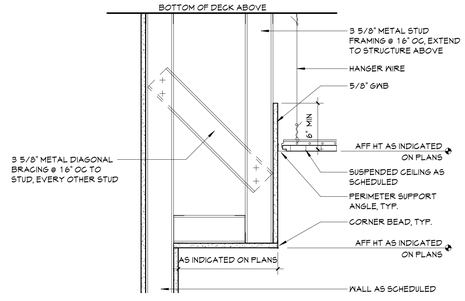


3 CEILING BULKHEAD DETAIL
A811 1 1/2" = 1'-0"



2 SOFFIT DETAIL
A811 1 1/2" = 1'-0"

1 AREA A - PARTIAL FIRST FLOOR RCP
A811 1/4" = 1'-0"

CEILING NOTES

1. INSTALL CEILING GRIDS CENTERED IN THE ROOM, UNO. IN ROOMS OTHER THAN RECTANGULAR SHAPED, INSTALL GRIDS CENTERED ON WALLS OR OTHER BUILT FEATURES AS INDICATED.
2. INSTALLATION HEIGHTS OF THE CEILINGS MAY VARY SLIGHTLY FROM PLANS IN ROOMS WITH EXTERIOR WINDOWS. ACTUAL CEILING HEIGHT TO BE VERIFIED IN THE FIELD.
3. FINAL INSTALLED CEILINGS SHALL HAVE HEIGHTS COORDINATED WITH OTHER CONTRACTORS WITH ABOVE CEILING WORK AND VERIFIED WITH FIELD CONDITIONS. ALL CHANGES IN CONFIGURATION OR HEIGHTS ARE TO BE APPROVED BY THE ARCHITECT.

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

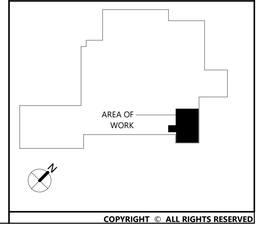
ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

- 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

KEY PLAN



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Sheet Title

REFLECTED CEILING PLAN - FIRST FLOOR AREA A

Sheet No.

BES A811

CONSTRUCTION DOCUMENTS

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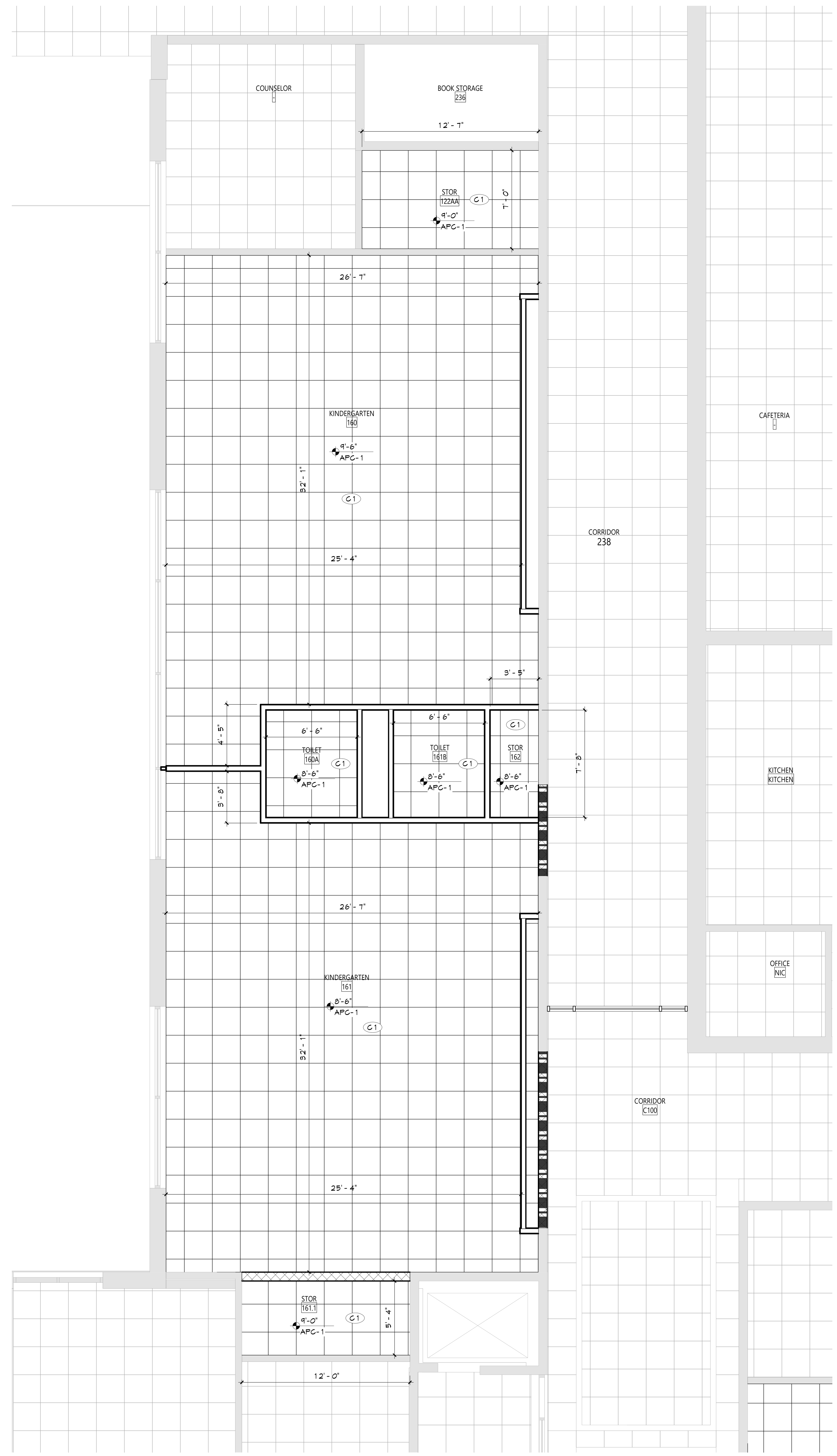


1 AREA B - PARTIAL FIRST FLOOR RCP

A812

1/4" = 1'-0"

CEILING NOTES

1. INSTALL CEILING GRIDS CENTERED IN THE ROOM, UNO. IN ROOMS OTHER THAN RECTANGULAR SHAPED, INSTALL GRIDS CENTERED ON WALLS OR OTHER BUILT FEATURES AS INDICATED.
2. INSTALLATION HEIGHTS OF THE CEILINGS MAY VARY SLIGHTLY FROM PLANS IN ROOMS WITH EXTERIOR WINDOWS. ACTUAL CEILING HEIGHT TO BE VERIFIED IN THE FIELD.
3. FINAL INSTALLED CEILINGS SHALL HAVE HEIGHTS COORDINATED WITH OTHER CONTRACTORS WITH ABOVE CEILING WORK AND VERIFIED WITH FIELD CONDITIONS. ALL CHANGES IN CONFIGURATION OR HEIGHTS ARE TO BE APPROVED BY THE ARCHITECT.

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

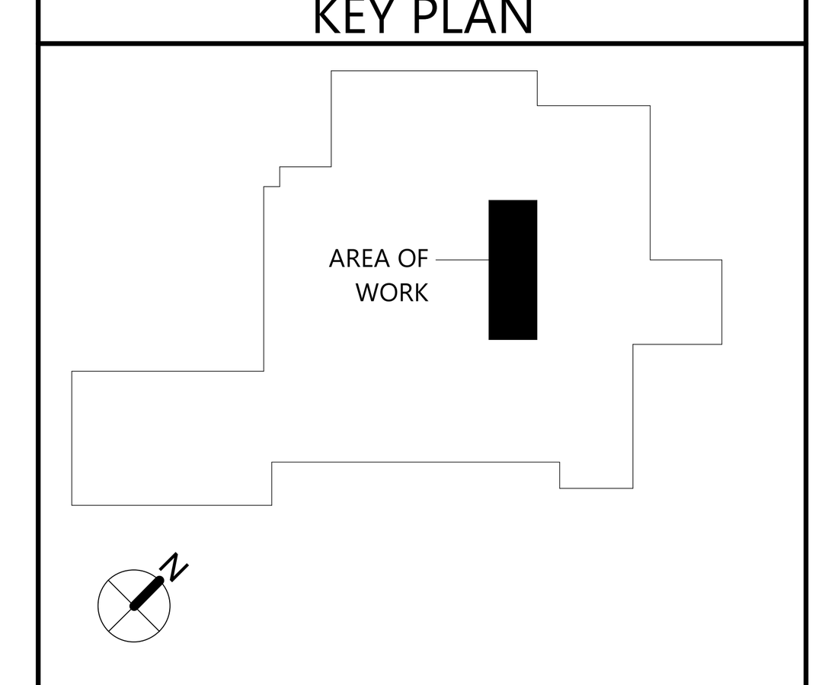
ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- 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

KEY PLAN



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Project Title

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

REGISTERED ARCHITECT THOMAS M. RITZENTHALER 023344 STATE OF NEW YORK

EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
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Sheet Title

REFLECTED CEILING PLAN - FIRST FLOOR AREA B

Sheet No.

BES A812

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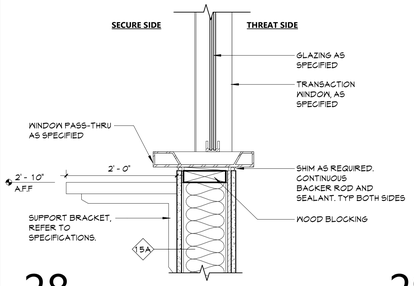
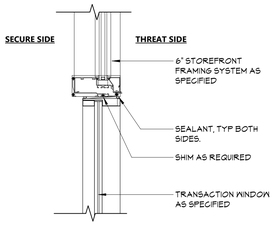
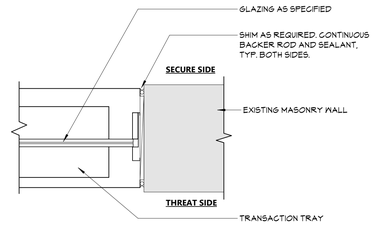


28 SILL DETAIL - SECURITY WINDOW
A901 1 1/2" = 1'-0"

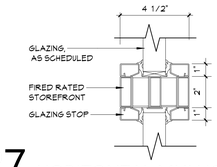


29 HEAD DETAIL - SECURITY WINDOW
A901 1 1/2" = 1'-0"

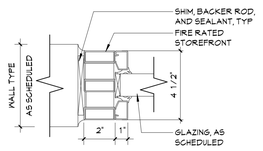


30 JAMB DETAIL - SECURITY WINDOW
A901 1 1/2" = 1'-0"

DOOR SCHEDULE																		
	DOOR										FRAME							
DOOR NUMBER	QUANTITY	FROM		TO		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	LABEL (MIN)	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	REMARKS	DOOR NUMBER
121.1	1	121	NURSE'S SUITE	121.1	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW11				121.1
121A	1	144B	PASSAGE	121	NURSE'S SUITE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	HM	PT		LM	HW10				121A
121B	1	C100	CORRIDOR	121	NURSE'S SUITE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	HM	PT	20	FR	HW6				121B
122A		122A	MAIN OFFICE	V001	SECURITY VESTIBULE	3' - 0"	7' - 0"	1 3/4"	N	ALUM	ANOD	ALUM	ANOD	20	FR	HW4				122A
122AA	1	160	KINDERGARTEN	122AA	STOR	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW15				122AA
122B	1	122A	MAIN OFFICE	122B	ASSIST. PRINCIPAL	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW7				122B
122C	1	122D	OFFICE	122C	PRINCIPAL	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW10				122C
122C.1	1	122C	PRINCIPAL	122A	MAIN OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	ALUM	ANOD			HW9				122C.1
122D	1	122D	OFFICE	122K	RECEPTION	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	ALUM	ANOD			HW9				122D
122E	1	122A	MAIN OFFICE	122E	SECURITY OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW5				122E
122F	1	122F	STORAGE	122A	MAIN OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW12				122F
122G	1	122A	MAIN OFFICE	122G	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW12				122G
122J	1	122J	MTG/PT RM	144B	PASSAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	ALUM	ANOD			HW7				122J
144B		C100	CORRIDOR	144C	PASSAGE	3' - 0"	7' - 0"	1 3/4"	N	ALUM	ANOD	ALUM	ANOD	20	FR	HW6				144B
144B.1	1	122A	MAIN OFFICE	144B	PASSAGE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	HM	PT		LM	HW6				144B.1
160	1	238	CORRIDOR	160	KINDERGARTEN	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	HM	PT	20	FR	HW13				160
160A	1	161	KINDERGARTEN	160	KINDERGARTEN	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	HM	PT		LM	HW14				160A
161	1	161	KINDERGARTEN	238	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	HM	PT	20	FR	HW13				161
162	1	162	STOR	238	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT	20	-	HW15				162
243	1	161	KINDERGARTEN	161B	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW11				243
245	1	160	KINDERGARTEN	160A	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW11				245
249		238	CORRIDOR	C100	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	N	ALUM	ANOD	ALUM	ANOD	45	FR	HW16				249
250	1	C100	CORRIDOR	123	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT	20	-	HW12				250
374	1	161.1	STOR	161	KINDERGARTEN	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	HM	PT			HW15				374
S1		C100	CORRIDOR	NIC	STAIR	3' - 0"	7' - 0"	1 3/4"	N	ALUM	ANOD	ALUM	ANOD	90	FR	HW8				S1
V001		V001	SECURITY VESTIBULE			3' - 0"	7' - 0"	1 3/4"	DG	ALUM	ANOD	ALUM	ANOD		CCL	HW1				V001
V001A		C100	CORRIDOR	V001	SECURITY VESTIBULE	3' - 0"	7' - 0"	1 3/4"	F	ALUM	ANOD	ALUM	ANOD	45	FR	HW1				V001A



27 HORIZONTAL MULLION RATED
A901 3" = 1'-0"



26 JAMB DETAIL RATED
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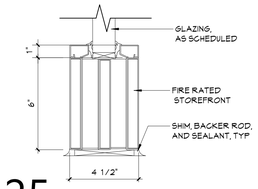

25 SILL DETAIL RATED
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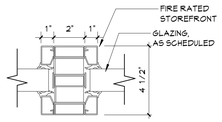
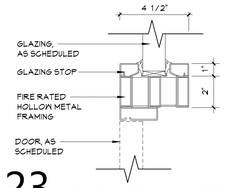
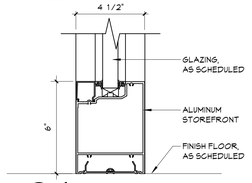


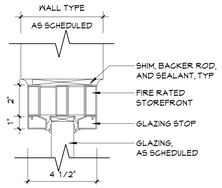
24 VERTICAL MULLION DETAIL
A901 3" = 1'-0"



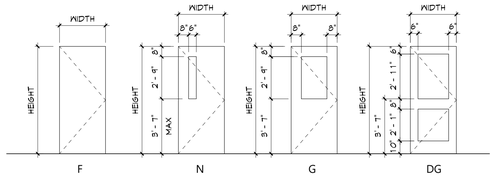
23 HEAD DETAIL RATED
A901 3" = 1'-0"



21 SILL DETAIL
A901 3" = 1'-0"



22 HEAD DETAIL RATED
A901 3" = 1'-0"



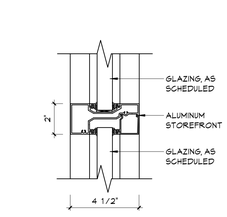
DOOR TYPES
1/4" = 1'-0"

DOOR LITE, GLAZING & PANEL TYPES

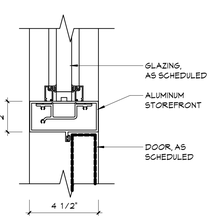
1. INSULATED GLAZING UNIT
2. FIRE-PROTECTION-RATED GLAZING. MATCH RATING OF OPENING. EXISTING CORRIDOR WALLS ARE PRESUMED 1-HOUR RATED, U.N.O.
3. INSULATED SECURITY GLAZING UNIT
4. SECURITY GLAZING
5. FIRE-PROTECTION-RATED SECURITY GLAZING. RATING BASED ON WALL OR DOOR RATING
6. INSULATED LAMINATED/TEMPERED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

LEGEND

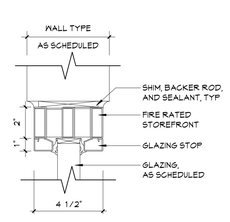
- S# STOREFRONT LABEL
- X WINDOW TAG



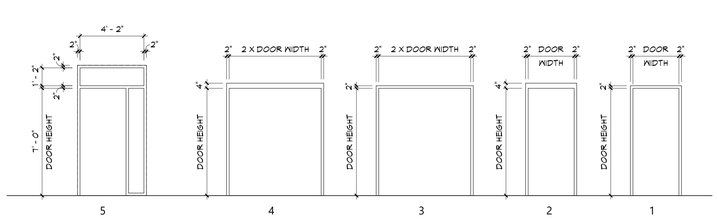
20 HORIZONTAL MULLION DETAIL
A901 3" = 1'-0"



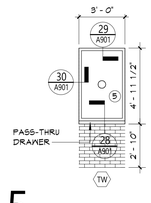
19 DOOR HEAD DETAIL
A901 3" = 1'-0"



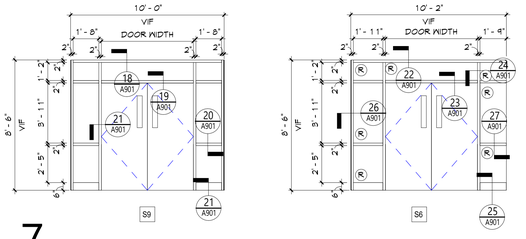
18 HEAD DETAIL
A901 3" = 1'-0"



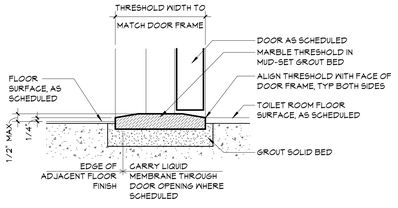
DOOR FRAME TYPES
1/4" = 1'-0"



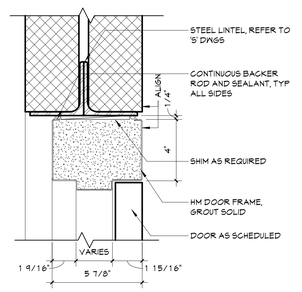
15 WINDOW ELEVATION
A901 1/4" = 1'-0"



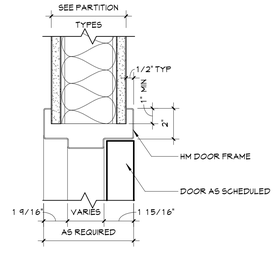
7 STOREFRONT ELEVATIONS
A901 1/4" = 1'-0"



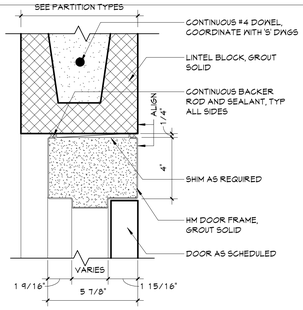
6 THRESHOLD DETAIL
A901 3" = 1'-0"



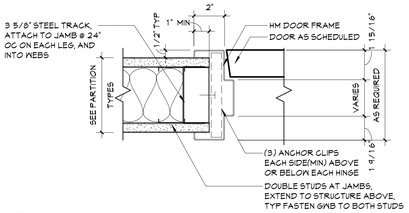
5 HEAD DETAIL
A901 3" = 1'-0"



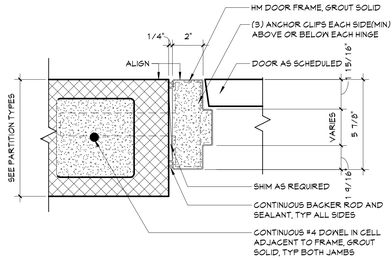
4 HEAD DETAIL
A901 3" = 1'-0"



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



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



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

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

Project Title

REGISTERED ARCHITECT JOHN M. WITZENBURG 024334 STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	Author
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
DOOR, WINDOW, & STOREFRONT DETAILS

Sheet No.
BES A901

CONSTRUCTION DOCUMENTS

C:\Users\dmiller\Documents\187-2302.01 VCSD BES_dmiller303.rvt

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	FLOOR BASE	Wall Finish	Accent_Wall	CEILING	Comments
-	COUNSELOR	ETR	RB-1	PNT-1			
120	KINDERGARTEN	ETR, VCT-2	ETR, RB-2	PNT-1			
121	NURSE'S SUITE	LVT-1	RB-1	PNT-1			
121.1	WC	CFT-1	CTB-1	PNT-1, CWT-1			
121D	IT CLOSET	LVT-1	RB-1	PNT-1			
122A	MAIN OFFICE	LVT-1	RB-1	PNT-1			
122AA	STOR	VCT-1	RB-1	PNT-1			
122B	ASSIT. PRINCIPAL	CPT-1	RB-1	PNT-1			
122C	PRINCIPAL	CPT-1	RB-1	PNT-1			
122D	OFFICE	CPT-1	RB-1	PNT-1			
122E	SECURITY OFFICE	CPT-1	RB-1	PNT-1			
122F	STORAGE	LVT-1	RB-1	PNT-1			
122G	TOILET RM	CFT-1	CTB-1	PNT-1, CWT-1			
122J	MTG/PT RM	CPT-1	RB-1	PNT-1			
122K	RECEPTION	LVT-1	RB-1	PNT-1			
123	FAC WC	CFT-1	CTB-1	PNT-1, CWT-1			
144B	CORRIDOR	LVT-1	RB-1	PNT-1			
160	KINDERGARTEN	VCT-1	RB-1	PNT-1			
160A	TOILET RM	CFT-1	CTB-1	PNT-1, CWT-1			
161	KINDERGARTEN	VCT-1	RB-1	PNT-1			
161.1	STOR	VCT-1	RB-1	PNT-1			
161B	TOILET RM	CFT-1	CTB-1	PNT-1, CWT-1			
162	STOR	VCT-1	RB-1	PNT-1			
238	CORRIDOR	ETR	TB-1	PNT-2, PNT-3			
NIC	CORRIDOR	ETR	TB-1	PNT-2, PNT-3			

MATERIALS LEGEND

MATERIAL	MANUFACTURER	MODEL	COLOR #/NAME	Material URL	SIZE	NOTE
CARPET TILE						
CPT-1	INTERFACE	STEP REPEAT	104440 IRON		24" X 24"	TYP. FLOOR
CERAIC TILE BASE						
CTB-1	DALTILE	COLOR WHEEL CLASSIC			4"	
CERAMIC FLOOR TILE						
CFT-1	DALTILE	KEYSTONES			2" x 2"	TYP. FLOOR
CERAMIC WALL TILE						
CWT-1	DALTILE	COLOR WHEEL LINEAR			4" X 12"	GENERAL WALL TILE
LAMINATE						
PLAM-1	WILSONART	LAMINATE				CASEWORK
LUXURY VINYL TILE						
LVT-1	INTERFACE	BRUSHED LINES			9" X 36"	TYP. FLOOR
PAINT						
PNT-1	SHERWIN WILLIAMS	EGG-SHELL				GENERAL WALL PAINT
PNT-2	SHERWIN WILLIAMS	EGG-SHELL	MATCH EXISTING			GENERAL WALL PAINT
PNT-3	SHERWIN WILLIAMS	EGG-SHELL	MATCH EXISTING			ACCENT WALL PAINT
PNT-4	SHERWIN WILLIAMS	SEMI-GLOSS				HM DOOR PAINT
PNT-5	SHERWIN WILLIAMS	FLAT				TYP. CEILING
RUBBER BASE						
RB-1	TARKETT	BASEWORKS	VN2 STONE COTTAGE		6"	
RB-2	TARKETT	BASEWORKS	MATCH EXISTING		6"	
TERRAZZO BASE						
TB-1	SHERWIN WILLIAMS		MATCH EXISTING			TYP. BASE
VINYL COMPOSITION TILE						
VCT-1	ARMSTRONG	STANDARD EXCELON	51911 GLASSIC WHITE		12" X 12"	GENERAL FLOOR TILE
VCT-2	ARMSTRONG	STANDARD EXCELON	MATCH EXISTING		12" X 12"	PATCH WORK

DISCLAIMER NOTE

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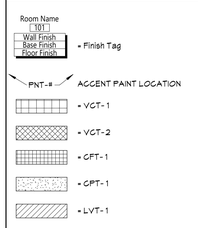
ABBREVIATIONS

ACMU	ARCHITECTURAL CONCRETE MASONRY UNIT
ACT	ACOUSTICAL CEILING TILE
APG	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
LVT	LUXURY VINYL TILE
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
TB	TERRAZZO BASE
TERR	TERRAZZO
TP	TOILET PARTITIONS
TYP	TYPICAL
VCT	VINYL COMPOSITION TILE
VCTAS	VINYL COMPOSITION TILE ANTI-STATIC
VWC	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 ELECTRIC, MECHANICAL COMPONENTS AND TELEPHONE PANELS EXPOSED IN A ROOM TO MATCH WALL COLOR.
4. 4. ALL NEW GWB CEILINGS, FASCIAS, AND SOFFITS TO BE PAINTED PNT-5.
5. ALL EXPOSED STEEL ASSOCIATED WITH STAIRS TO BE PAINTED PNT-5, INCLUDING STRINGERS, CHANNELS, RISERS, COLUMNS, PLATES, TUBES, GUARDRAILS, POSTS, UNDERSIDES OF FLOORS, LANDINGS, DECKS, AND STAIR PANS WITH THE EXCEPTION OF SS # FF, UNO.
6. NEW HM DOORS, DOOR FRAMES AND WINDOW FRAMES AND ETR CORRIDOR DOOR & WINDOW FRAMES AS SCHEDULED ON A600 SERIES DRAWINGS, PNT-4.
7. ALL EXPOSED GROUND FACE CMU LOCATIONS TO RECEIVE GRAFFITI COATING, TYPICAL FOR INTERIOR LOCATIONS.

FINISH KEYS



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

Project Title

EXPIRATION DATE: 02/28/2025

#	DATE	DISCRIPTION

Drawn By:	AS
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title

MATERIAL SCHEDULE

Sheet No.

BES AF001

CONSTRUCTION DOCUMENTS

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1 AF111 AREA A - PARTIAL FIRST FLOOR FINISHES PLAN
1/4" = 1'-0"

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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
LVT	LUXURY VINYL TILE
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
TB	TERRAZZO BASE
TERR	TERRAZZO
TP	TOILET PARTITIONS
TYP	TYPICAL
VCT	VINYL COMPOSITION TILE
VCTAS	VINYL COMPOSITION TILE ANTI-STATIC
VWC	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.
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3. ALL ELECTRIC, MECHANICAL COMPONENTS AND TELEPHONE PANELS EXPOSED IN A ROOM TO MATCH WALL COLOR.
4. 4. ALL NEW GWB CEILINGS, FASCIAS, AND SOFFITS TO BE PAINTED PNT-5.
5. ALL EXPOSED STEEL ASSOCIATED WITH STAIRS TO BE PAINTED PNT-9, INCLUDING STRINGERS, CHANNELS, RISERS, COLUMNS, PLATES, TUBES, GUARDRAILS, POSTS, UNDERSIDES OF FLOORS, LANDINGS, DECKS, AND STAIR PANS WITH THE EXCEPTION OF SS & FF, UNO.
6. NEW HM DOORS, DOOR FRAMES AND WINDOW FRAMES AND ETR CORRIDOR DOOR & WINDOW FRAMES AS SCHEDULED ON A600 SERIES DRAWINGS, PNT-4.
7. ALL EXPOSED GROUND FACE CMU LOCATIONS TO RECEIVE GRAFFITIT COATING, TYPICAL FOR INTERIOR LOCATIONS.

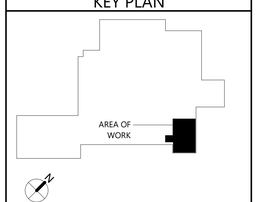
FINISH KEYS

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

PNT-# = ACCENT PAINT LOCATION

= VCT-1
= VCT-2
= CFT-1
= CPT-1
= LVT-1

KEY PLAN



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

Project Title

REGISTERED ARCHITECT · ANDREW M. WITKOWSKI · 023343 · STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

#	DATE	DESCRIPTION

Drawn By:	AS
Checked By:	Checker
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ENLARGED FLOOR FINISHES PLAN - FIRST FLOOR - AREA A

Sheet No.
BES AF111

CONSTRUCTION DOCUMENTS

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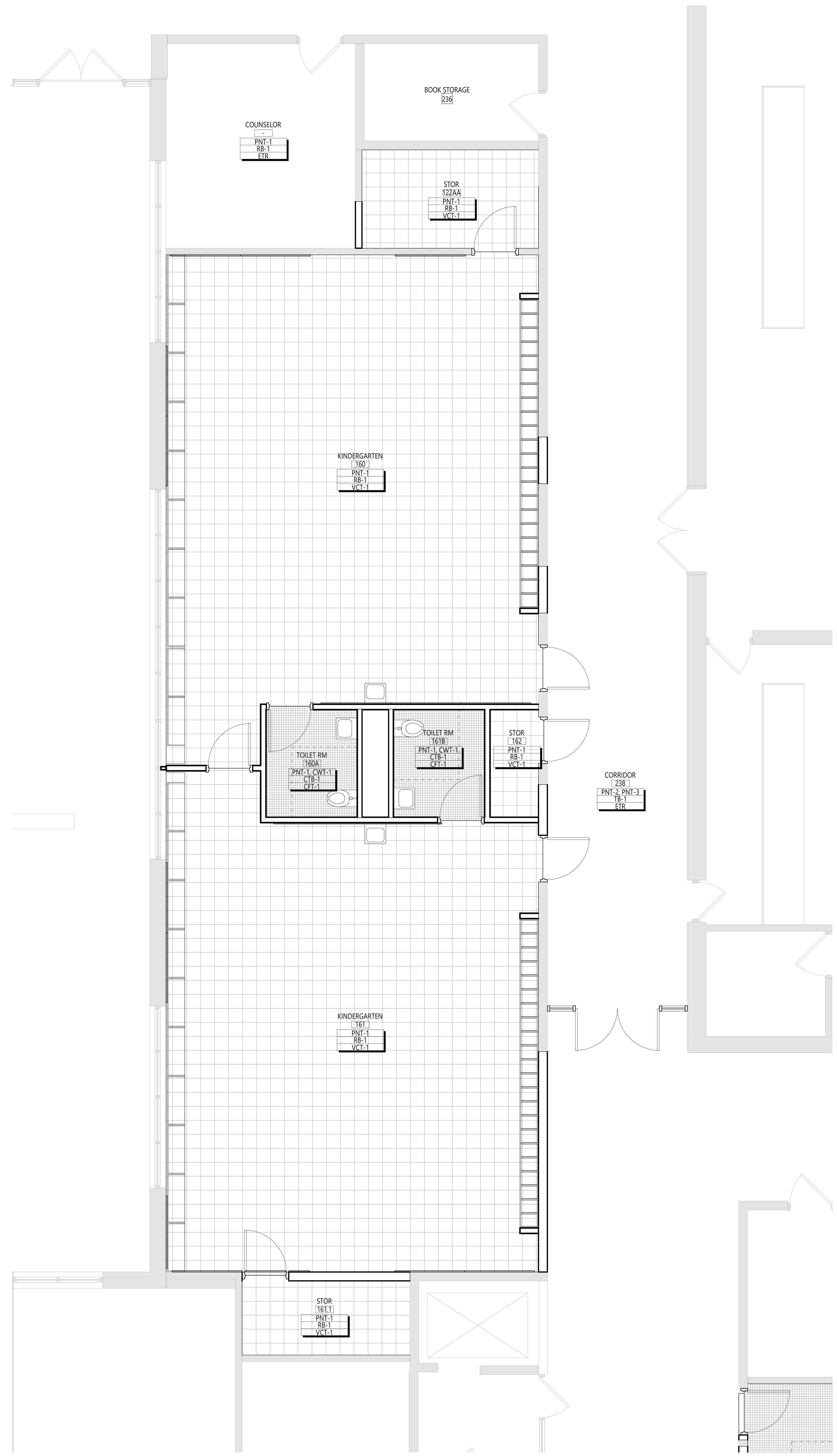

1 AREA B - PARTIAL FIRST FLOOR FINISHES PLAN
AF112 1/4" = 1'-0"

DISCLAIMER NOTE

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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
LVT	LUXIRY VINYL TILE
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
TB	TERRAZZO BASE
TERR	TERRAZZO
TP	TOILET PARTITIONS
TYP	TYPICAL
VCT	VINYL COMPOSITION TILE
VCTAS	VINYL COMPOSITION TILE ANTI-STATIC
VWC	VINYL WALLCOVERING
WAF	WOOD ATHLETIC FLOORING
WD	WOOD
WOM	WALK-OFF MAT

GENERAL FINISH NOTES

1. ALL EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE PAINTED.
2. WHEN ANY WORK IS PERFORMED ON ANY EXISTING WALL, THE ENTIRE WALL SURFACE IS TO BE PAINTED CORNER TO CORNER, UNLESS NOTED OTHERWISE.
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FINISH KEYS

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PNT-# ACCENT PAINT LOCATION

= VCT- 1

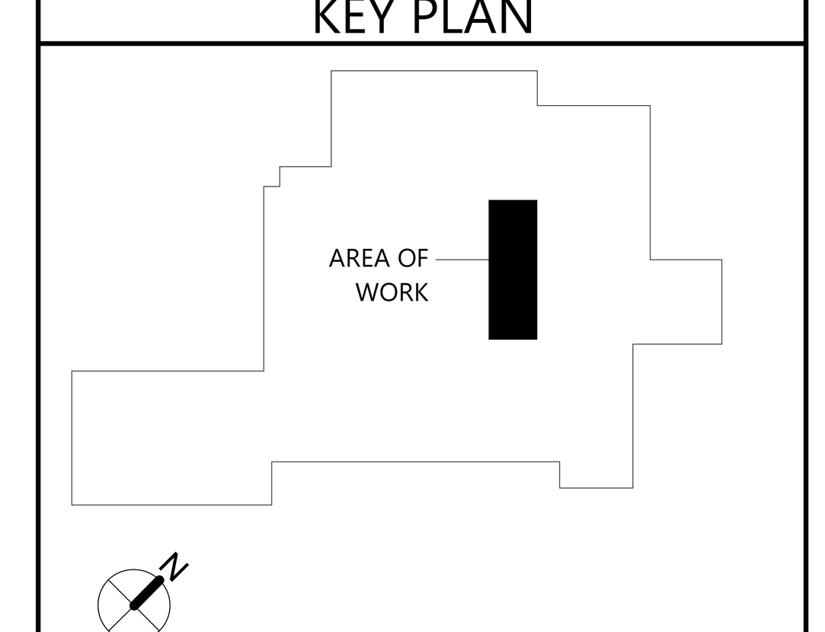
= VCT-2

= CFT- 1

= CPT- 1

= LVT- 1

KEY PLAN



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Project Title

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

REGISTERED ARCHITECT THOMAS M. RITZENTHALER 023344 STATE OF NEW YORK
EXPIRATION DATE: 02/28/2025

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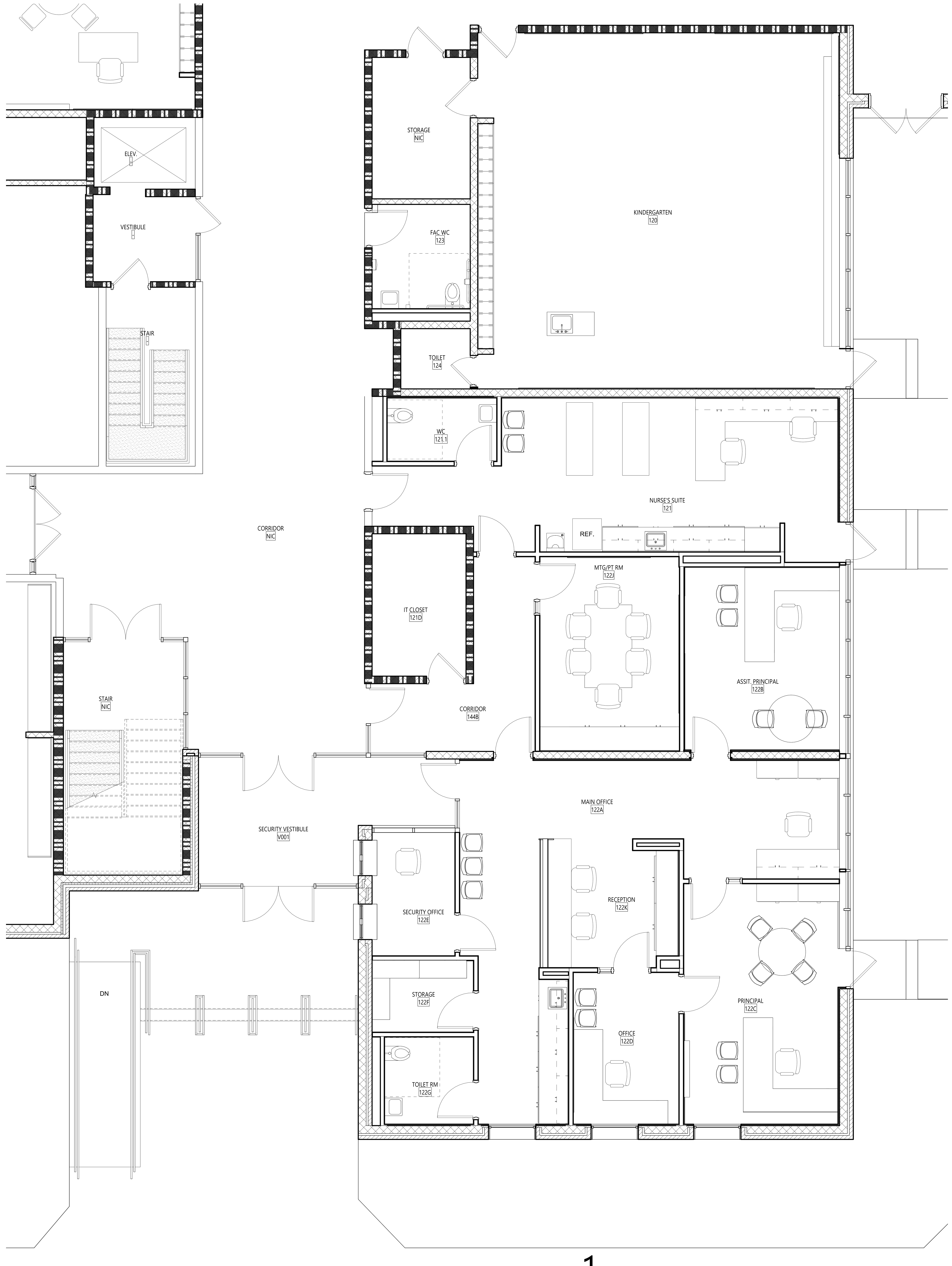
Sheet Title
ENLARGED FLOOR FINISHES PLAN - FIRST FLOOR - AREA B

Sheet No.
BES AF112

CONSTRUCTION DOCUMENTS



1 AREA A - PARTIAL FIRST FLOOR FURNITURE PLAN
FE111 1/4" = 1'-0"

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= VCT-2

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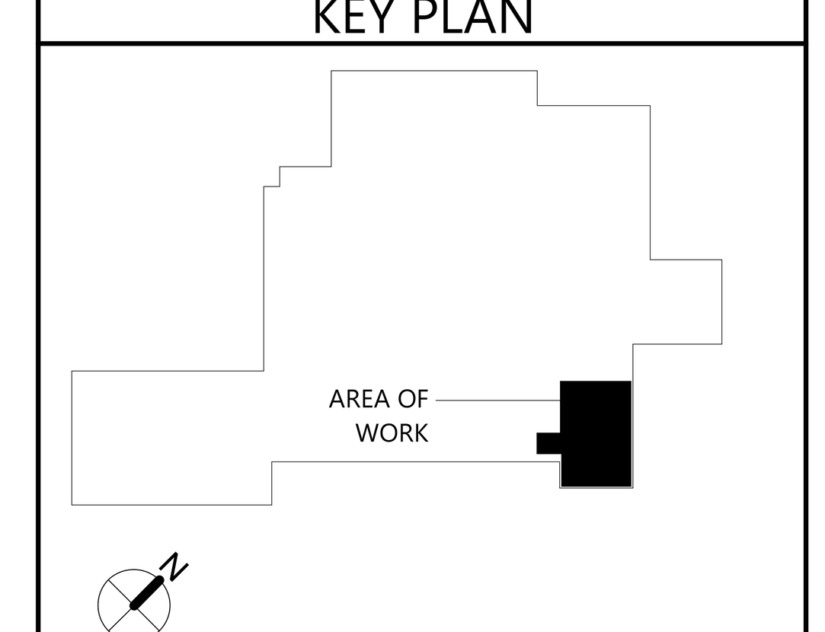
KEY PLAN



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Sheet Title
FLOOR FURNITURE PLAN - FIRST FLOOR - AREA A

Sheet No.
BES FE111

CONSTRUCTION DOCUMENTS

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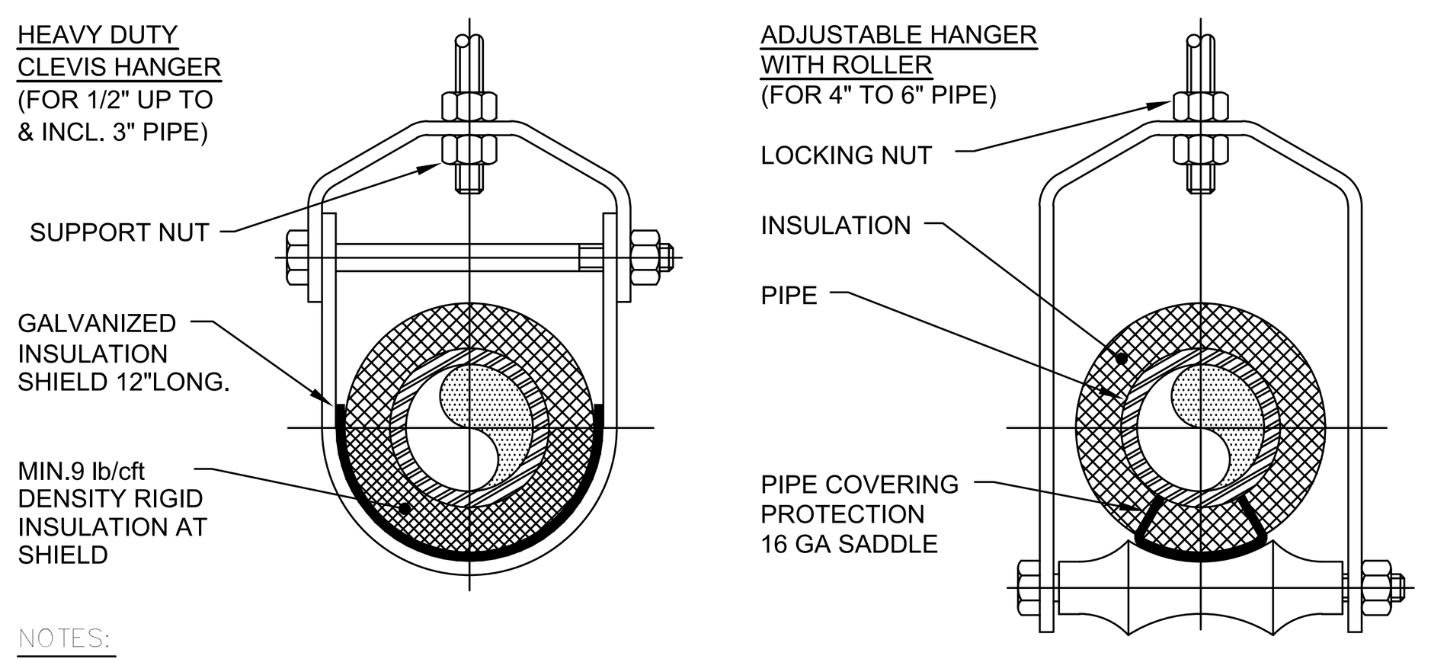
Plumbing Fixture Schedule

FIXTURE MARK	DESCRIPTION	PIPING CONNECTION				WATER SUPPLY FIXTURE UNITS	DRAINAGE FIXTURE UNITS	ADA (Y/N)	ELECTRONIC CONTROL (Y/N)	MANUFACTURER/MODEL (OR ACCEPTABLE EQUAL)	REMARKS
		H.W.	C.W.	WASTE	VENT						
1	LAVATORY	1/2	1/2	1-1/2	1-1/2	2.0	1	Y	Y	WALL HUNG LAVATORY TYPICAL OF ZURN MODEL #Z5340; VITREOUS CHINA; FURNISH W/ BATTERY SENSOR FAUCET MODEL #Z6955-XL-S-N-LL, CONCEALED ARM CARRIERS, ADA GRID STRAINER AND ADA TRAP/SUPPLY PROTECTORS	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS
2	WATER CLOSET	-	1	4	2	10.0	4	Y	Y	WATER CLOSET TYPICAL OF ZURN MODEL #Z5615 HET; WALL HUNG W/ ELONGATED FRONT RIM; 1.28 GPF; FURNISH W/ SEAT MODEL #Z5955SS-EL AND BATTERY SENSOR FLUSH VALVE MODEL# ZER6000AV-HET-CPM.	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS. PROVIDE WALL CARRIER TYPICAL OF ZURN Z1201 OR EQUAL
3	SINGLE BOWL SINK	1/2	1/2	2	1-1/2	1.4	2	N	N	SINGLE BOWL SINK TYPICAL OF ELKAY MODEL #LRAD252265PD; STAINLESS STEEL, 6-1/2" DEPTH; FURNISH W/ DRAIN & STRAINER MODEL #LKPD1 AND FAUCET MODEL #LK2439	INSTALL PER MANUFACTURER'S REQUIREMENTS
4	DRINKING FOUNTAIN W/ BOTTLE FILLER	-	3/8	1-1/2	1-1/2	0.25	0.5	Y	-	BOTTLE FILLING STATION & SINGLE ADA COOLER TYPICAL OF ELKAY MODEL #LZS8WSSP; FILTERED 8 GPH STAINLESS	INSTALL PER MANUFACTURER'S REQUIREMENTS & DETAIL 2/A601 W/ SPOUT HEIGHT AT 30" ABOVE FINISHED GRADE
5	SINGLE BOWL SINK	1/2	1/2	2	1-1/2	1.4	2	N	N	SINGLE BOWL SINK TYPICAL OF ELKAY MODEL #LRAD252265PD; STAINLESS STEEL, 6-1/2" DEPTH; FURNISH W/ DRAIN & STRAINER MODEL #LKPD1 AND FAUCET MODEL #LK2439	INSTALL PER MANUFACTURER'S REQUIREMENTS
6	FLOOR DRAIN	-	-	4	2	-	2	-	-	4"Ø FLOOR DRAIN W/ 6" STRAINER TYPICAL OF ZURN MODEL #Z415-BZ1-TSP; FURNISH WITH TRAP SEAL DEVICE	INSTALL PER MANUFACTURER'S REQUIREMENTS

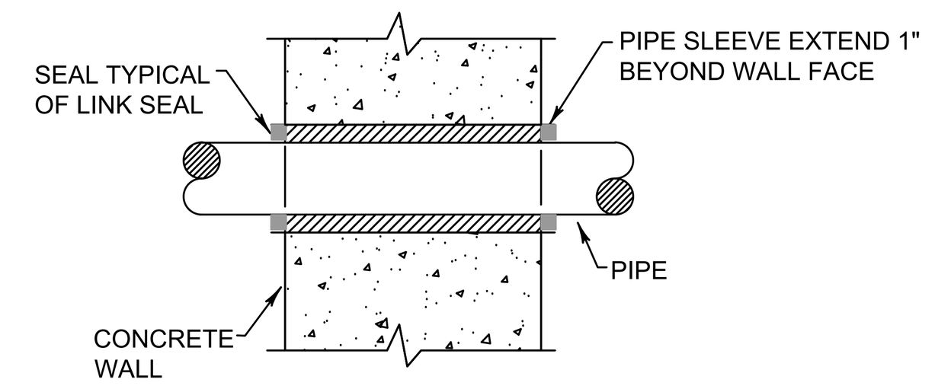


NOTES:

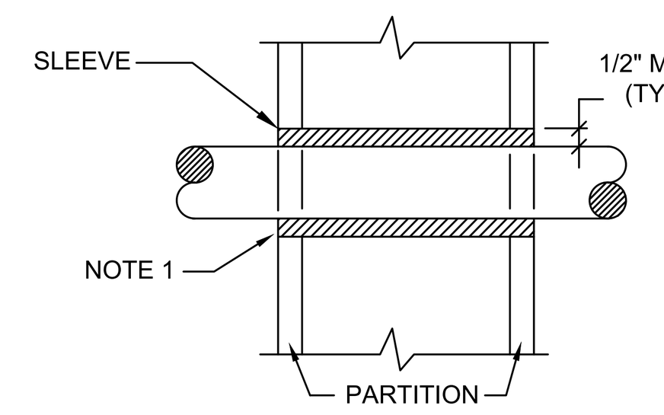
1. PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
2. FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

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.



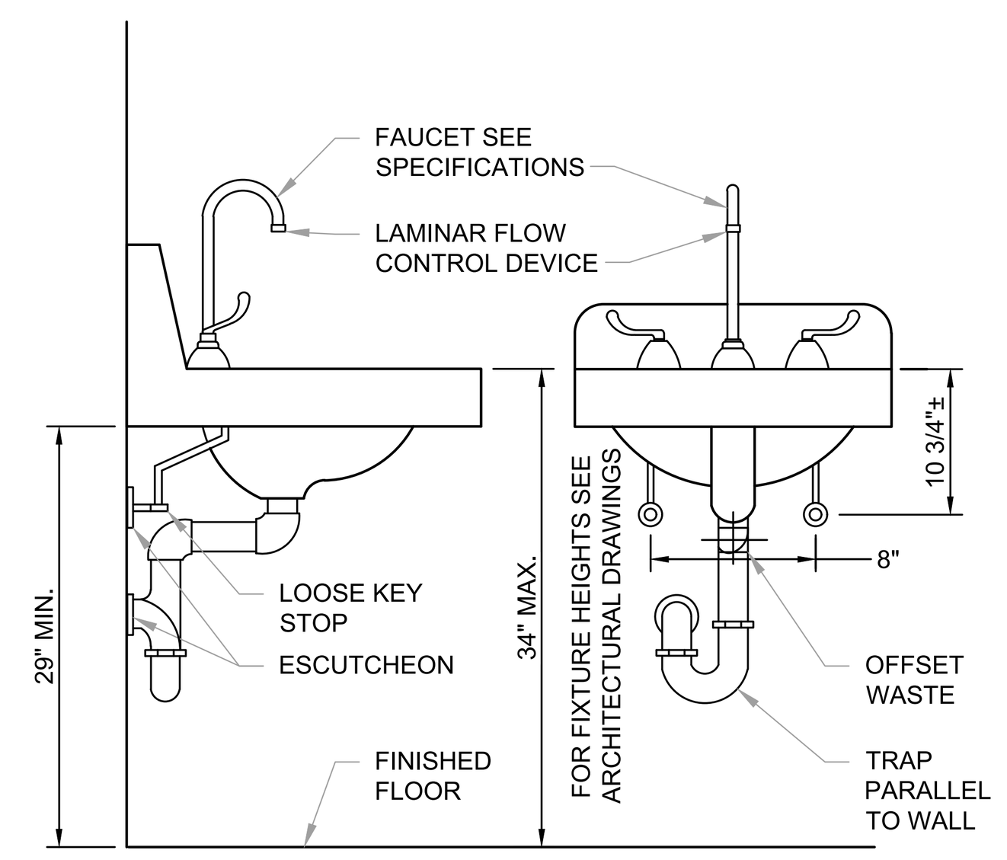
2 / P001 — Exterior Wall Pipe Penetrations
N.T.S.



NOTES:

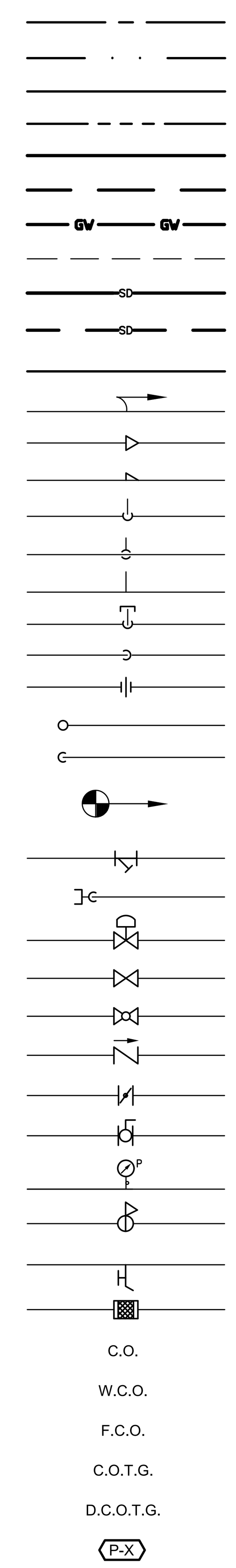
1. AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.
2. DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

3 / P001 — Pipe Penetrations Detail
N.T.S.



4 / P001 — Accessible Lavatory Detail
Scale: None

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
GW	GREASE WASTE, BELOW GRADE
	PLUMBING VENT
SD	STORM WATER, ABOVE GRADE
SD	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.

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BLAKE ENGINEERING PLLC

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PLUMBING NOTES, SCHEDULE, LEGEND & DETAILS

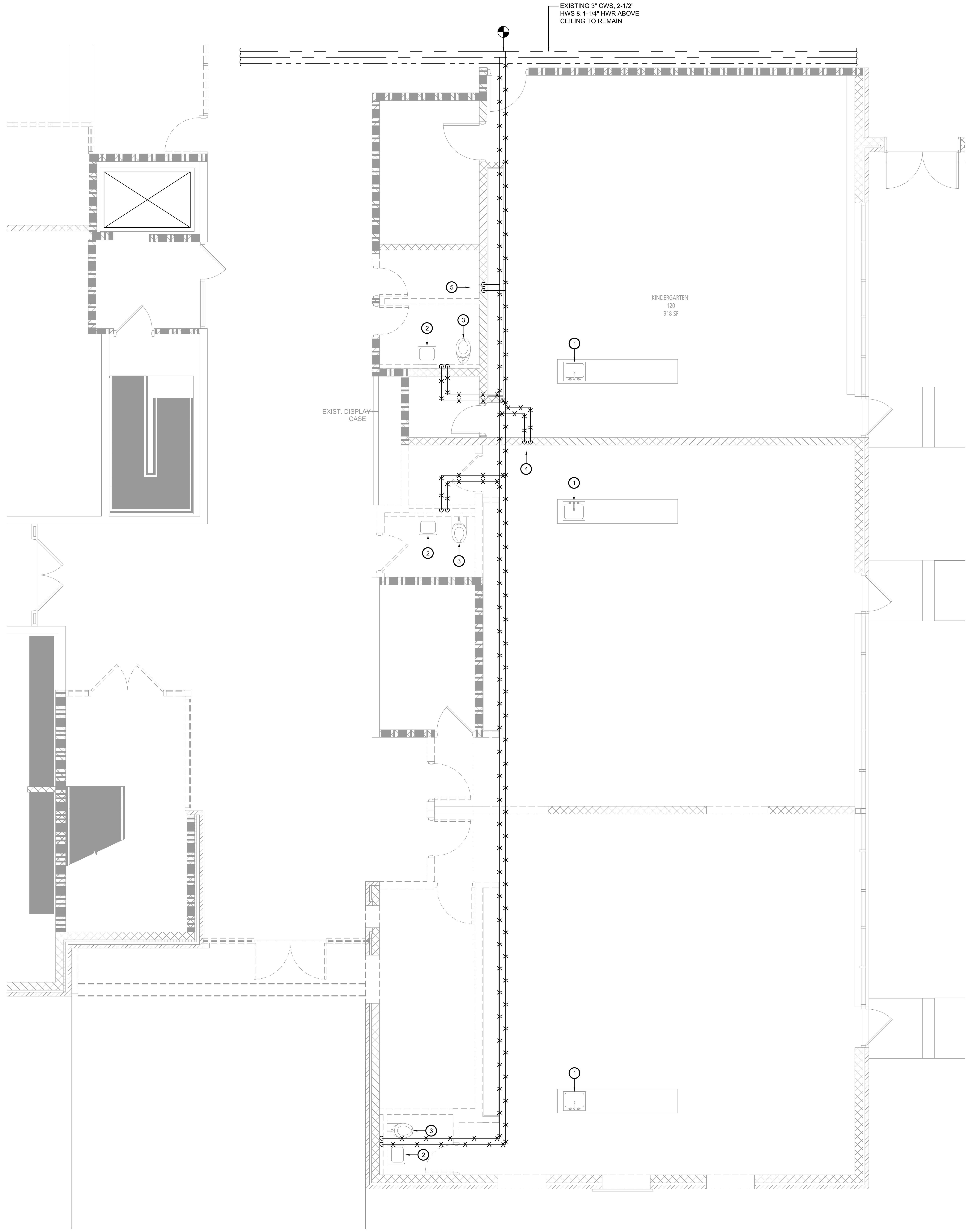
Sheet No.

BES P001

CONSTRUCTION DOCUMENTS

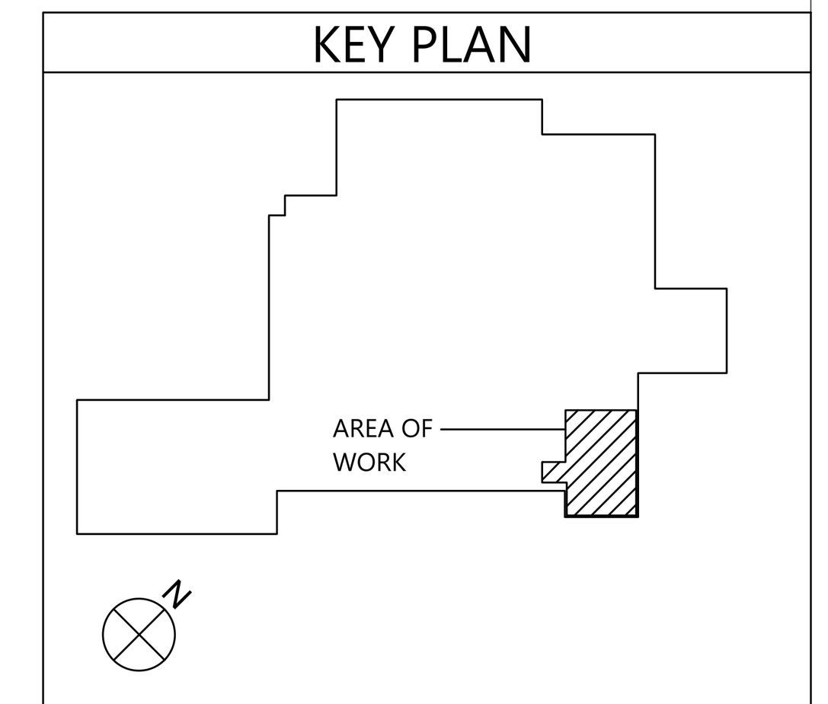
Key Notes:

1	DISCONNECT, REMOVE & PROPERLY DISPOSE OF SINK & ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING TO FLOOR & TEMPORARILY CAP; MAINTAIN PIPING FOR RECONNECTION TO REPLACEMENT SINK
2	DISCONNECT, REMOVE & PROPERLY DISPOSE OF LAVATORY & ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING TO NEAREST MAIN ABOVE CEILING, IN WALL OR AT FLOOR & CAP
3	DISCONNECT, REMOVE & PROPERLY DISPOSE OF WATER CLOSET & ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING TO NEAREST MAIN ABOVE CEILING, IN WALL OR AT FLOOR & CAP
4	DISCONNECT, REMOVE & PROPERLY DISPOSE OF DRINKING FOUNTAIN & ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING TO NEAREST MAIN ABOVE CEILING, IN WALL OR AT FLOOR & CAP
5	DISCONNECT, REMOVE & PROPERLY DISPOSE OF SERVICE SINK & ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING TO NEAREST MAIN ABOVE CEILING, IN WALL OR AT FLOOR & CAP



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

KEY PLAN



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Project Title
VALLEY CENTRAL SCHOOL DISTRICT
BEREA ELEMENTARY 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. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

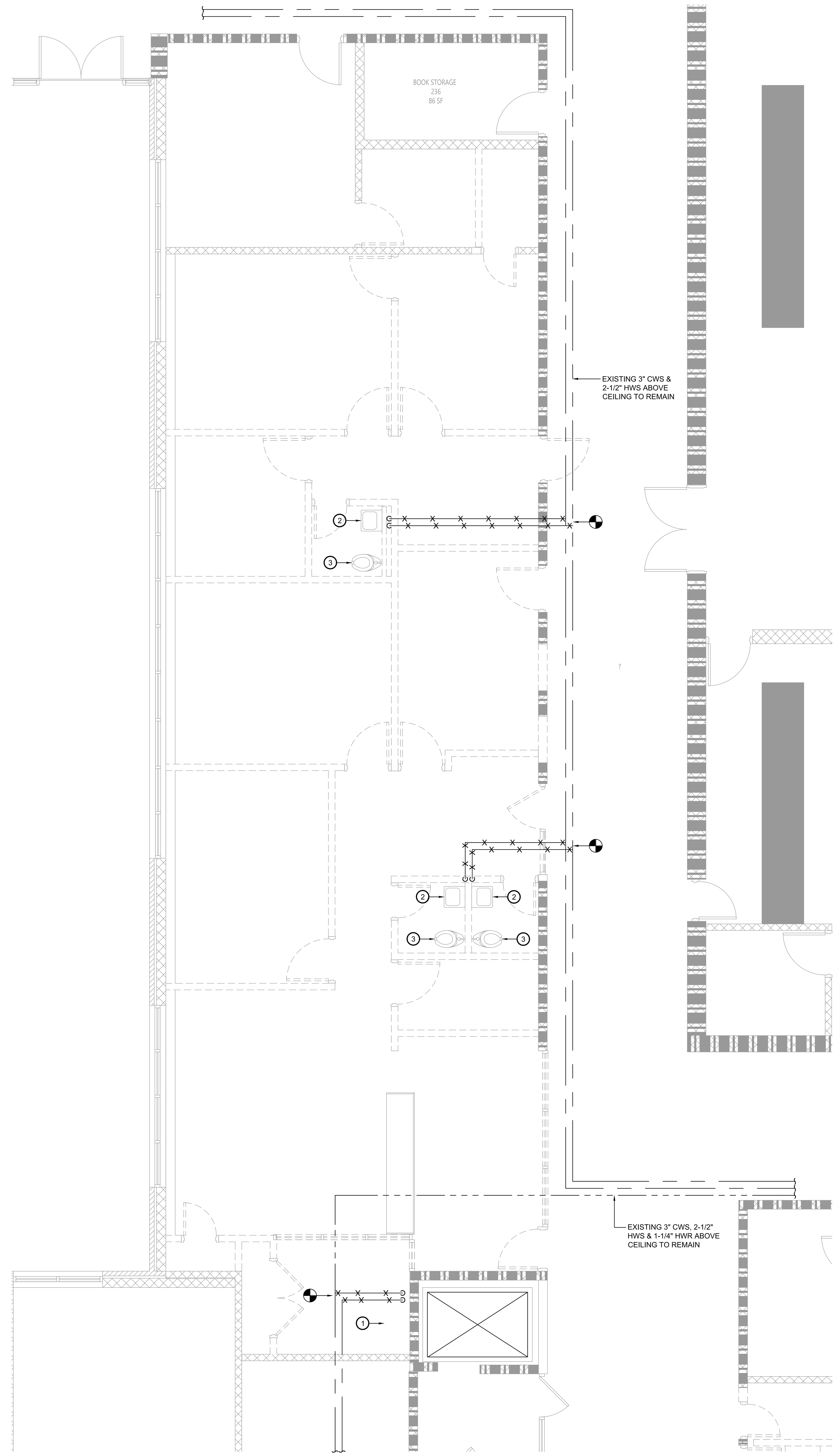
Sheet Title
PLUMBING DEMOLITION PLAN - PART 1

Sheet No.
BES PD111

CONSTRUCTION DOCUMENTS

Key Notes:

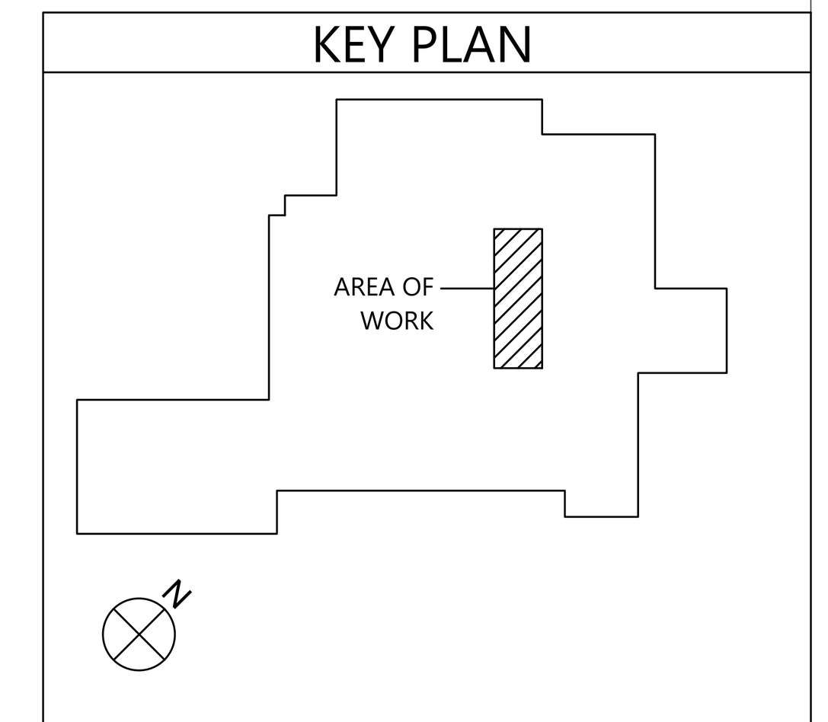
1	DISCONNECT, REMOVE & PROPERLY DISPOSE OF SINK & ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING TO FLOOR & TEMPORARILY CAP; MAINTAIN PIPING FOR RECONNECTION TO REPLACEMENT SINK
2	DISCONNECT, REMOVE & PROPERLY DISPOSE OF LAVATORY & ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING TO NEAREST MAIN ABOVE CEILING, IN WALL OR AT FLOOR & CAP
3	DISCONNECT, REMOVE & PROPERLY DISPOSE OF WATER CLOSET & ASSOCIATED PIPING, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING TO NEAREST MAIN ABOVE CEILING, IN WALL OR AT FLOOR & CAP



1 PD112 Plumbing Demolition Plan - Part 2

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

KEY PLAN



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Project Title

VALLEY CENTRAL SCHOOL DISTRICT

BEREA ELEMENTARY SCHOOL

2023 CAPITAL PROJECT - PHASE 1

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

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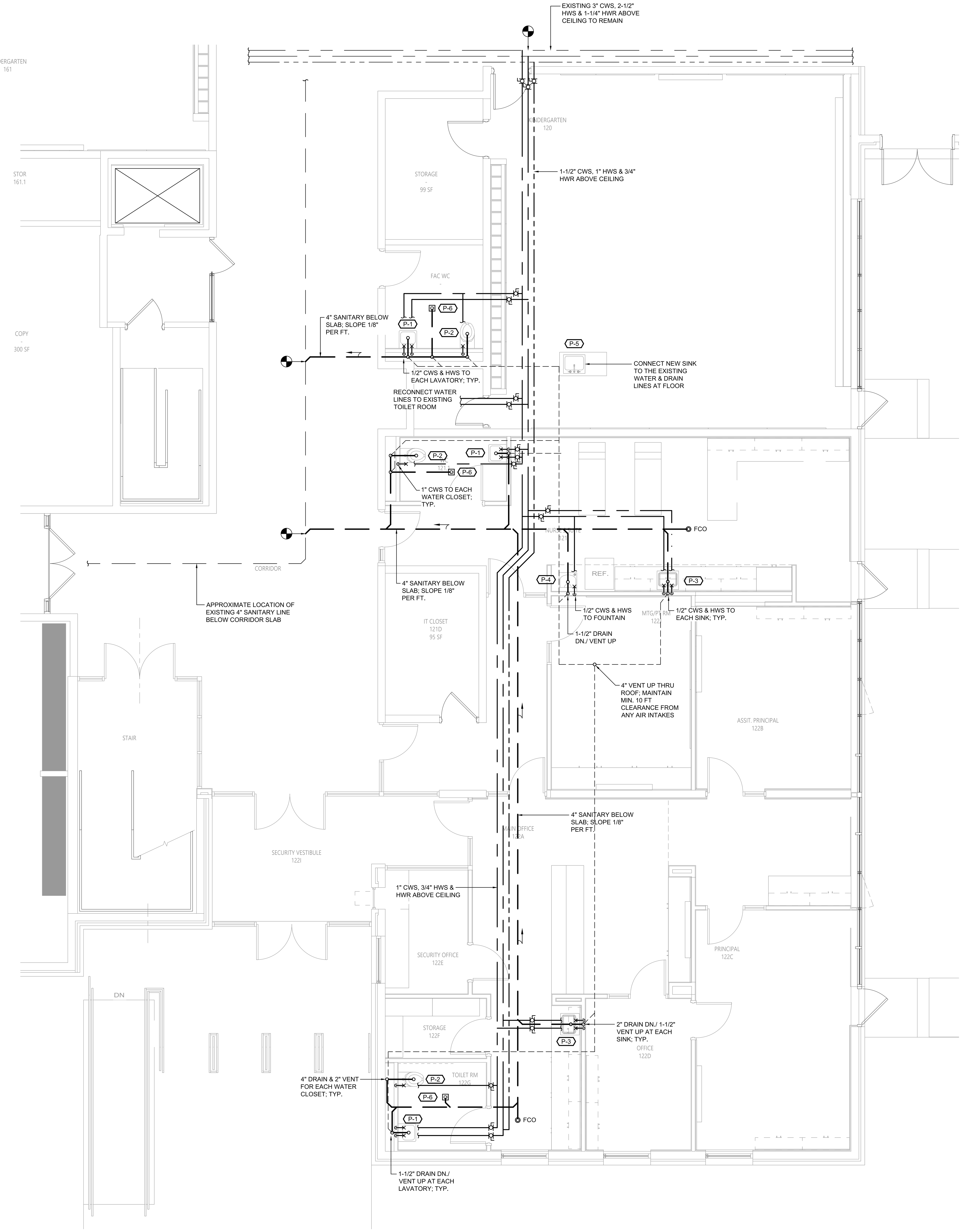
Sheet Title

PLUMBING DEMOLITION PLAN - PART 2

Sheet No.

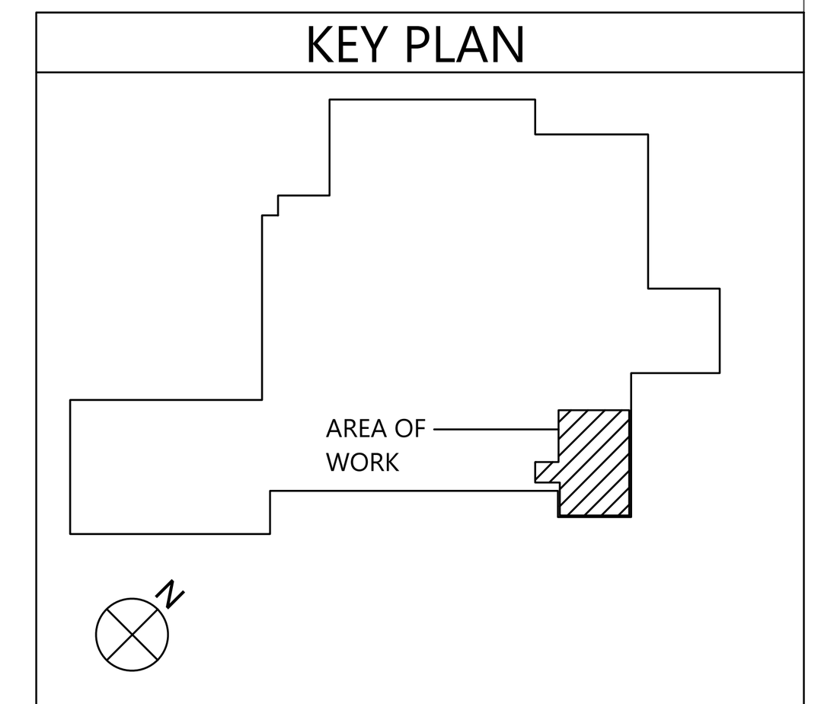
BES PD112

CONSTRUCTION DOCUMENTS



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

KEY PLAN



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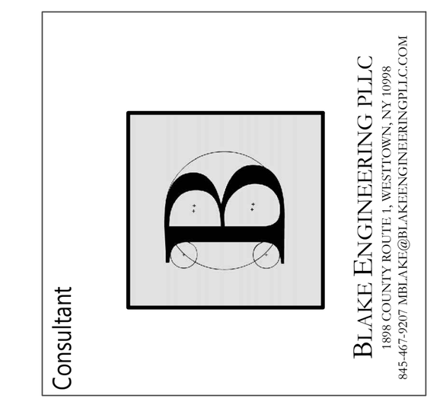
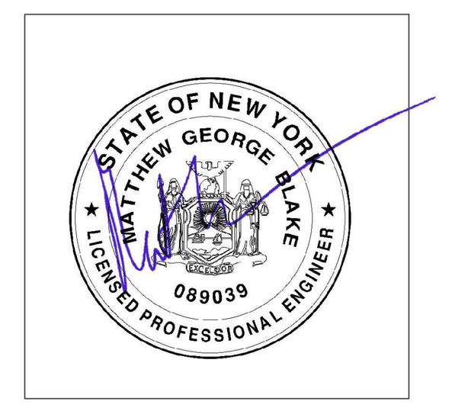


Project Title

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



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PLUMBING PLAN - PART 1

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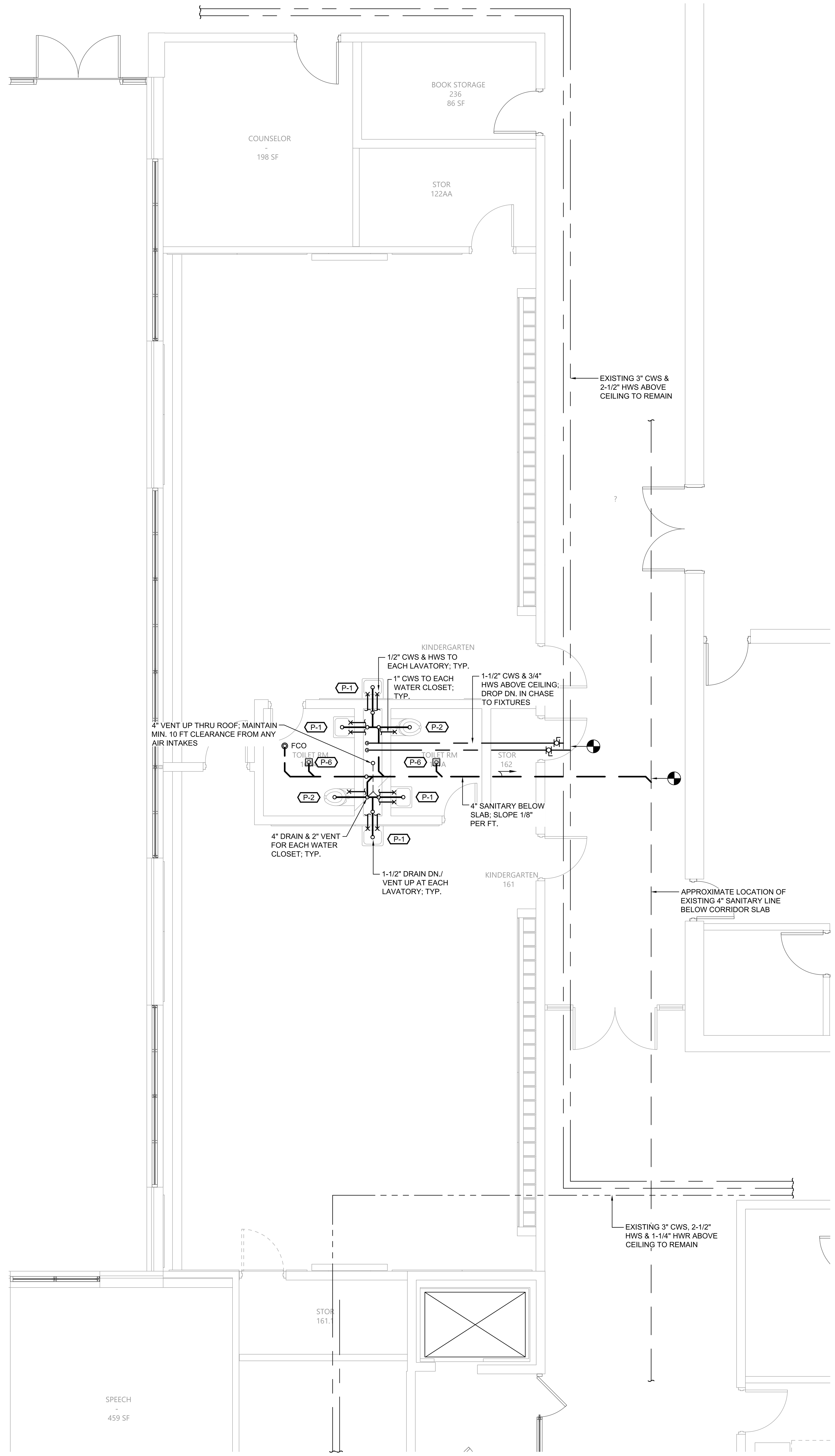
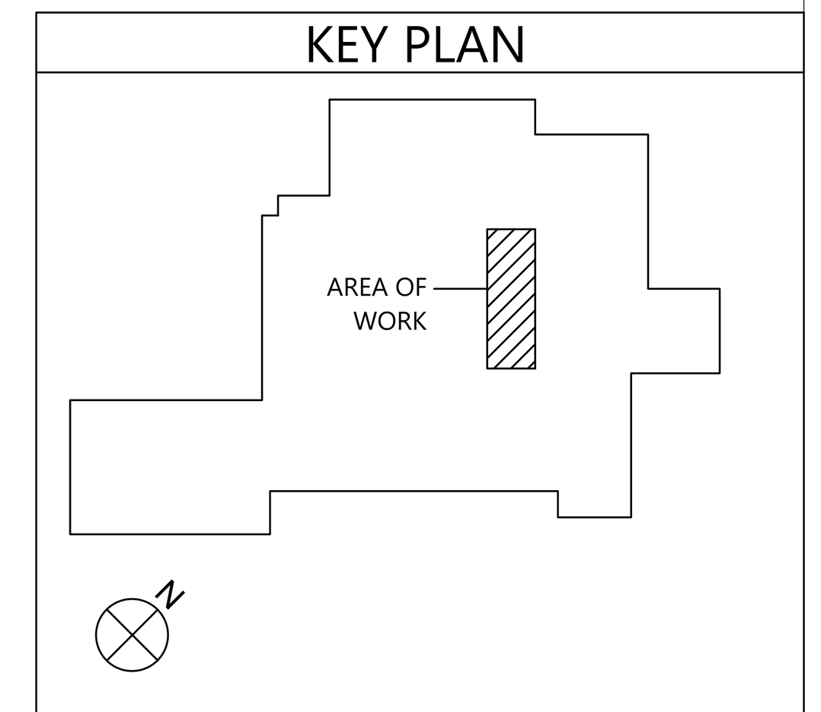
BES P111

CONSTRUCTION DOCUMENTS



1 / P112 Plumbing Plan - Part 2
Scale: 1/4" = 1'-0"

KEY PLAN



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PLUMBING PLAN - PART 2

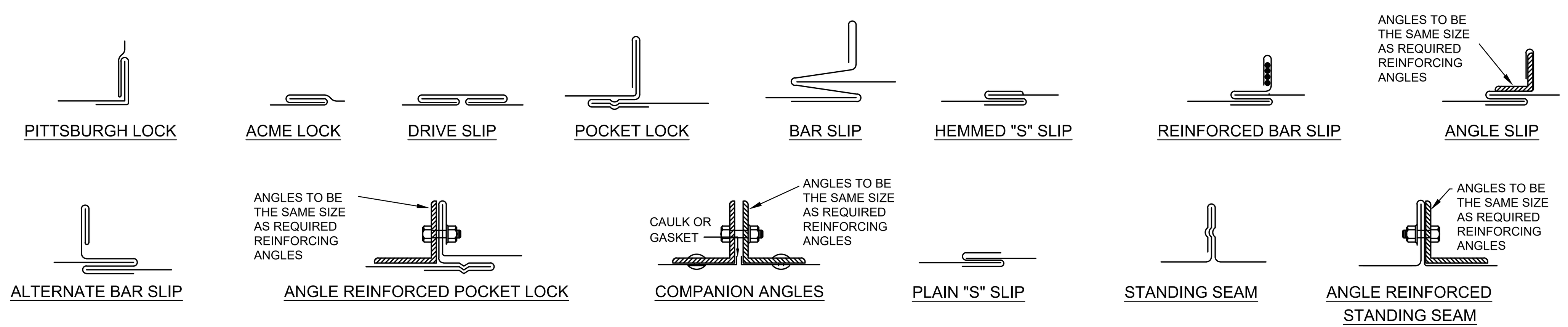
Sheet No.
BES P112

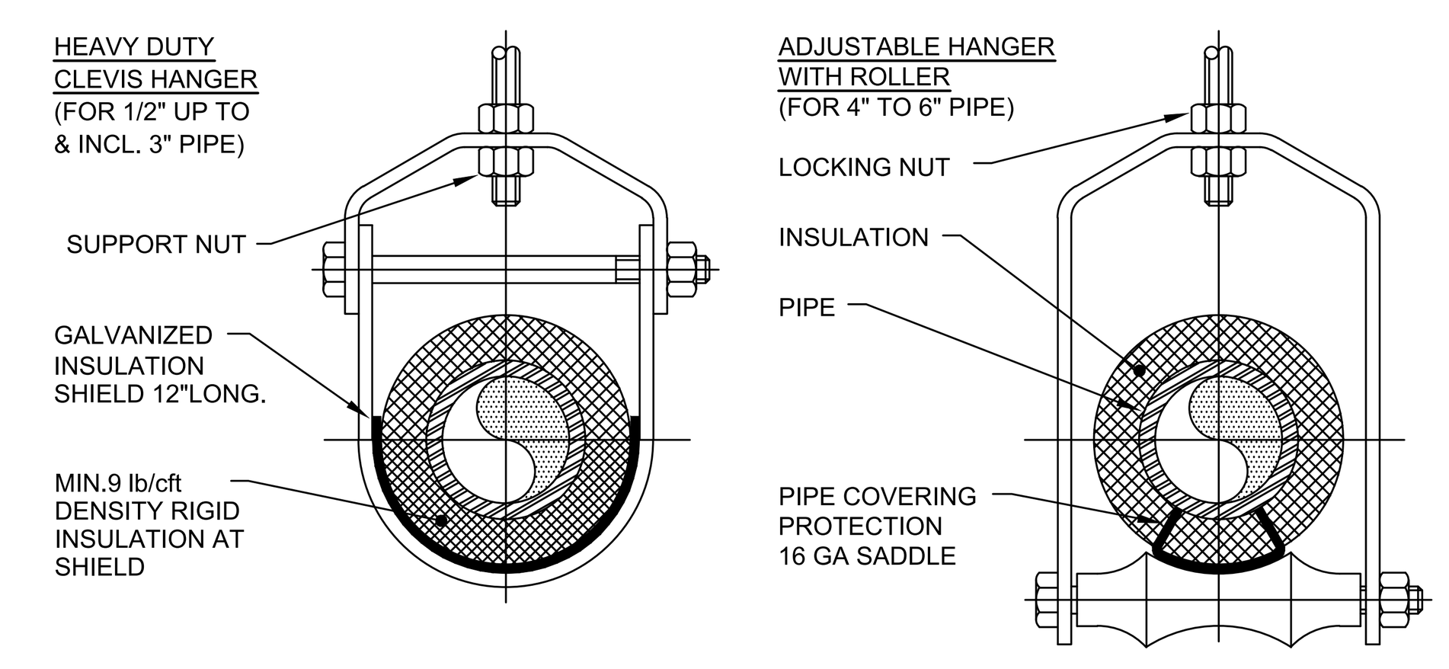
CONSTRUCTION DOCUMENTS

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 REIN-FORCED BAR SLIP OR POCKET LOCK	BAR SLIP OR REIN-FORCED 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 RE-INFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR RE-INFORCED 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 RE-INFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR RE-INFORCED 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, ALTER-NATE BAR SLIP, OR AN-GLE REINFORCED POCKET LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTER-NATE BAR SLIP, OR AN-GLE 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 AN-GLES, OR ANGLE RE-INFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP OR REINFORCED BAR SLIP	1 1/2" COMPANOIN AN-GLES, OR ANGLE RE-INFORCED 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" AN-GLES IF JOINTS ARE 8'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0" ON CENTER.



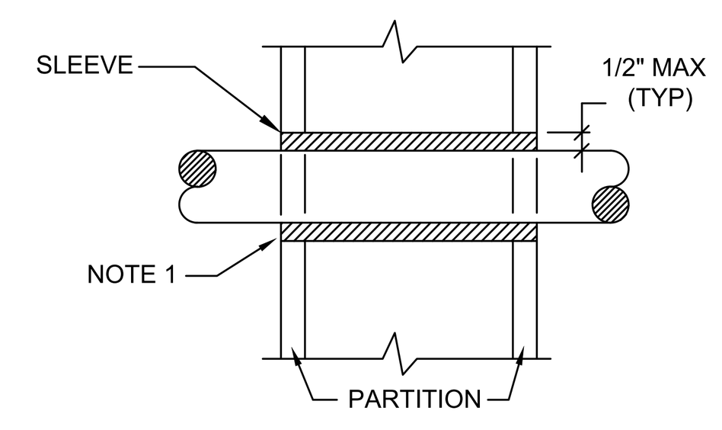


NOTES:

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

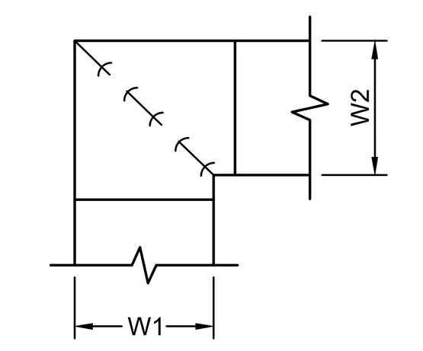
1 / M001 Pipe Hanger Support
N.T.S.



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.

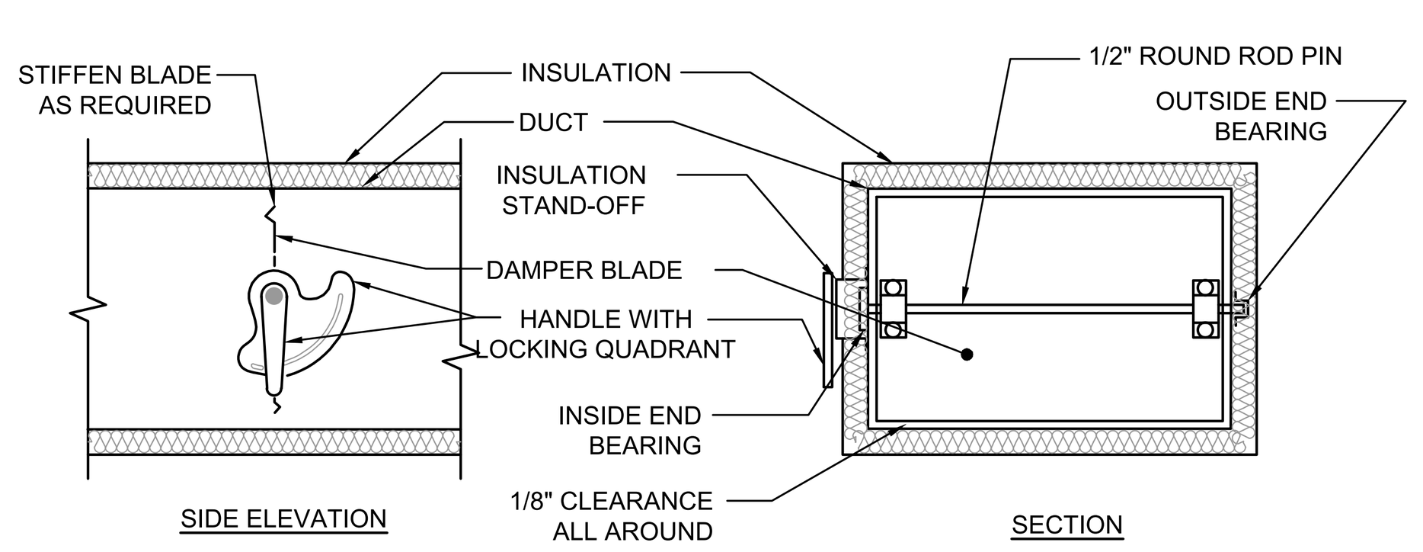
3 / M001 Pipe Penetrations Detail
N.T.S.



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.

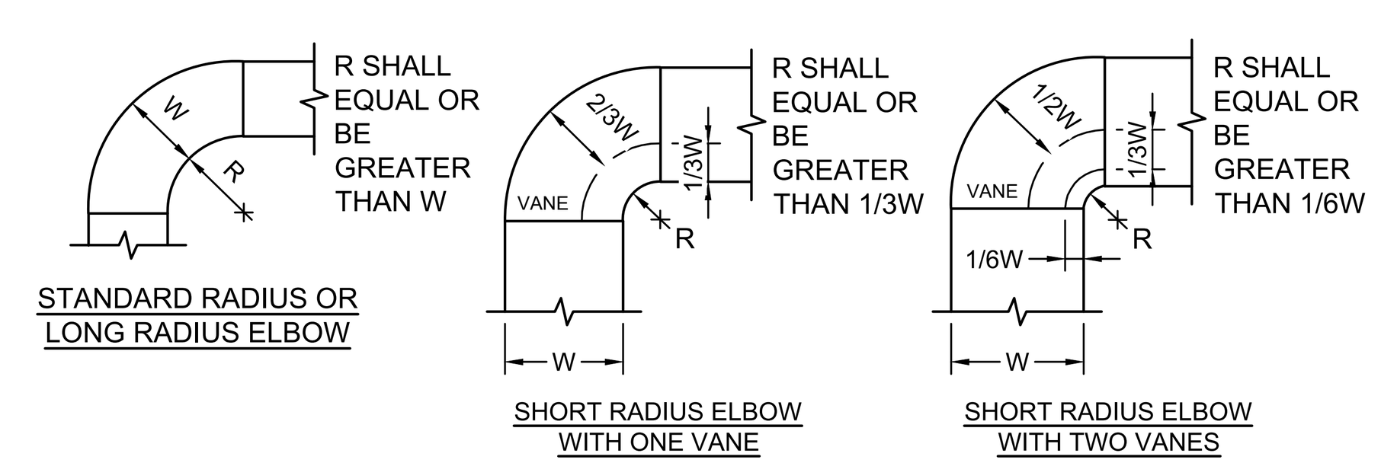
4 / M001 Ductwork Squared Elbow Detail
N.T.S.



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.



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.

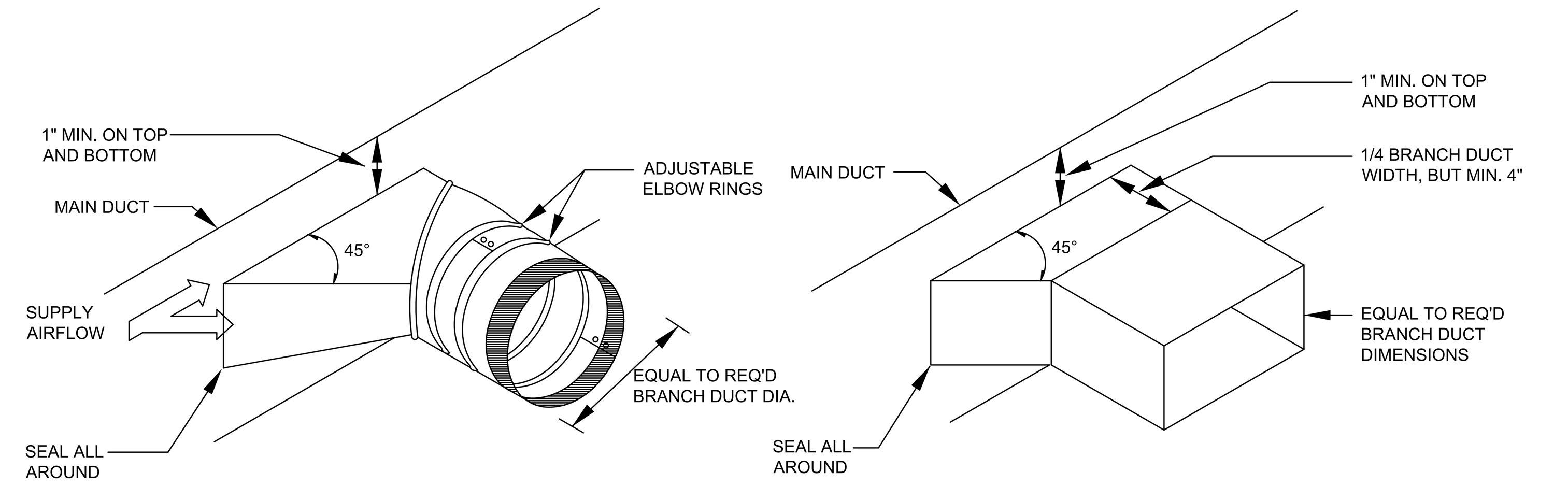
5 / M001 Ductwork Radius Elbow Detail
N.T.S.

General Symbols:

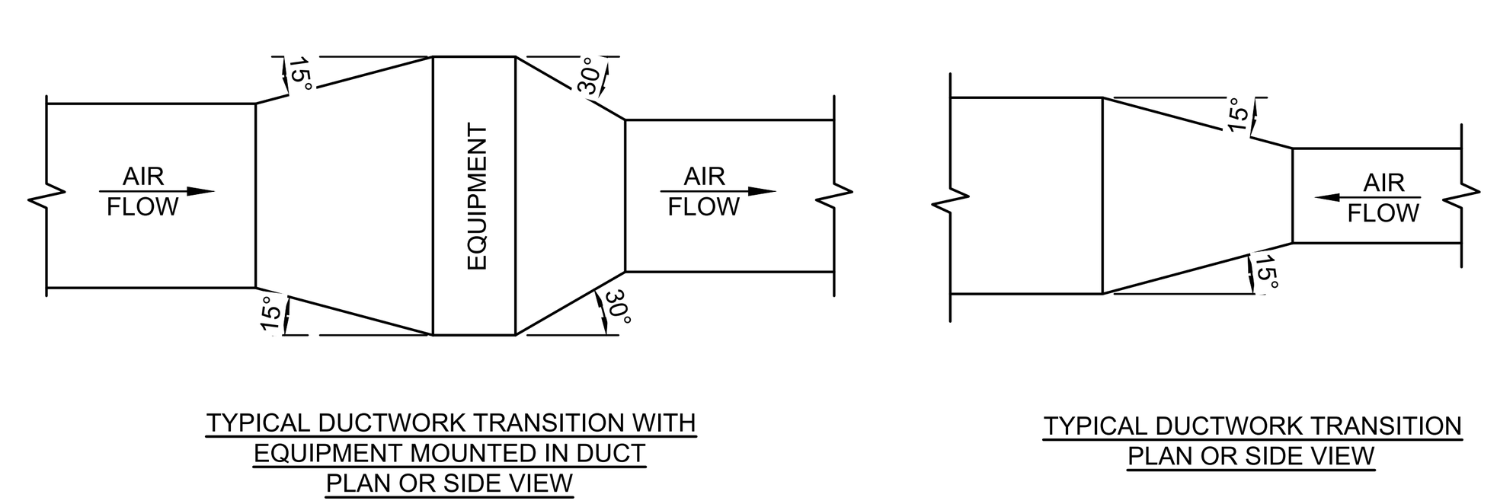
- DIRECTION OF PIPE PITCH (DOWN)
- DIRECTION OF FLOW
- ANCHOR
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION, 45° OR 90°
- BOTTOM CONNECTION, 45° OR 90°
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- PIPE UP
- PIPE DOWN
- INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES 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
- MANUAL AIR VENT
- QUICK-COUPLE HOSE CONNECTOR
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK

Valve Symbols:

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



6 / M001 Typical Branch Take-Off Fitting Detail
N.T.S.

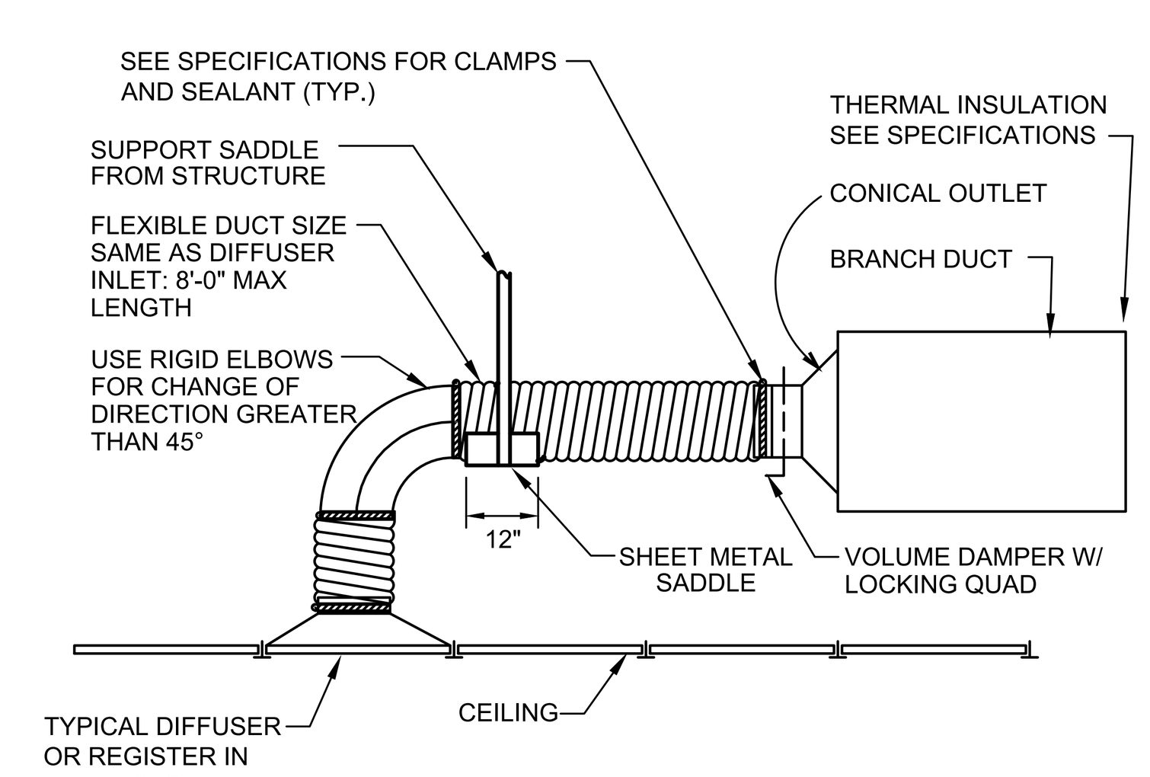


NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

7 / M001 Ductwork Transition Detail
N.T.S.

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 / 45° RETURN — STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
- 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)



8 / M001 Typical Supply Air Diffuser 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
- (T)1 SIMPLE REMOTE CONTROLLER TYPICAL OF TRANE TAC-YT53CRAU-J; MOUNT 5'-0" A.F.F. IN LOCATIONS SHOWN ON PLANS; FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR
- MC MASTER CONTROLLER TYPICAL OF TRANE TE-200A, CAN CONTROL UP TO 50 INDOOR UNITS; MOUNT 5'-0" A.F.F. IN LOCATIONS SHOWN ON PLANS; FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR

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BLAKE ENGINEERING PLLC

Project Title

VALLEY CENTRAL SCHOOL DISTRICT
BEREA ELEMENTARY 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. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
MECHANICAL NOTES, LEGENDS, SCHEDULES & DETAILS

Sheet No.
BES M001

CONSTRUCTION DOCUMENTS

ENERGY RECOVERY VENTILATOR SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	FRESH AIR FLOW RATE (CFM)	EXHAUST AIR FLOW RATE (CFM)	ROOM EXH. AIR (°F) WINTER DB	ROOM EXH. AIR WINTER WB	ROOM EXH. AIR SUMMER DB	ROOM EXH. AIR SUMMER WB	OUTSIDE AIR (°F) WINTER DB	OUTSIDE AIR WINTER WB	OUTSIDE AIR SUMMER DB	OUTSIDE AIR SUMMER WB	SUPPLY AIR (°F) WINTER DB	SUPPLY AIR WINTER WB	SUPPLY AIR SUMMER DB	SUPPLY AIR SUMMER WB	RECOVERY EFFECTIVENESS SENSIBLE WINTER	SENSIBLE SUMMER	TOTAL WINTER	TOTAL SUMMER	ELECTRICAL DATA MOTOR W	MOTOR FLA	VOLT.	PHASE	Hz.	MCA	MOCP	WEIGHT (LB)	NOTES
ERV-1	RENEWAIRE	HE07-JRTV-D11AA--DGNTF--L	300	300	70.0	54.4	75.0	62.6	0.0	-2.0	95.0	75.0	53.8	44.1	79.4	68.0	76.8%	76.8%	75.1%	59.9%	357 (2)	5.4	120	1	60	12.2	15	218-373	FURNISH W/ MERV 8 FILTERS, ECM MOTOR, DISCONNECT SWITCH, 24" INSULATED ROOF CURB & BACKDRAFT DAMPERS;

DUCTED HOT WATER COIL SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AIRFLOW (CFM)	AIR PRESS. DROP (IN. W.C.)	EFT (°F)	LFT (°F)	CAPACITY (MBH)	E.A.T. DB (°F)	L.A.T. DB (°F)	FPD (FT)	FLOW RATE (GPM)	ROWS	FIN HEIGHT (IN)	FIN LENGTH (IN)	COIL HEIGHT (IN)	COIL LENGTH (IN)	OVERALL LENGTH (IN)	NOTES
HWC-1	TRANE	D5WB12012G0AA142EABA00A	300	0.35	180	160	11.78	53.8	90	0.02	1.18	1	12	12	13.5	13.375	26	-

INDOOR MINI-SPLIT UNIT SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	MINI-SPLIT UNIT TYPE	AREA OF BUILDING SERVED	AIRFLOW (CFM)	COOLING CAPACITY (MBH)	COOLING EDB (°F)	COOLING EWB (°F)	HEATING CAPACITY (MBH)	HEATING EDB (°F)	HEATING EWB (°F)	PAIRED OUTDOOR UNIT	EXTERNAL STATIC PRESSURE (IN. W.C.)	ELECTRICAL POWER REQUIREMENTS VOLT.	PHASE	Hz.	W	WEIGHT (LB)	NOTES
FCU-1	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	NURSE'S SUITE	315	8	80.0	67.0	9	70.0	60.0	HP-1	-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-2	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	CONFERENCE ROOM	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-3	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	ASSISTANT PRINCIPAL	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-4	TRANE	TPLFYP012FM140A	CEILING RECESSED UNIT	MAIN OFFICE	335	12	81.0	66.0	13.5	68.0	60.0		-	208	1	60	50	31.3	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-5	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	SECURITY OFFICE	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-6	TRANE	TPLFYP008FM104A	CEILING RECESSED UNIT	OFFICE	315	8	80.0	67.0	9	70.0	60.0		-	208	1	60	50	28.9	PROVIDE W/ BUILT IN CONDENSATE PUMP
FCU-7	TRANE	TPLFYP012FM140A	CEILING RECESSED UNIT	PRINCIPAL	335	12	81.0	66.0	13.5	68.0	60.0		-	208	1	60	50	31.3	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) COOLING	HEATING	AHRI EFFICIENCY RATINGS EER	IEER	COP	REFRIGERANT	SOUND PRESSURE LEVEL COOLING/ HEATING (dBA)	ELECTRICAL POWER REQUIREMENTS VOLT.	PHASE	Hz.	MCA	MOCP	WEIGHT (LB)	NOTES
HP-1	TRANE	TUHYH0723AN40AN	FCU-1 THRU FCU-7	INVERTER SCROLL HEMETIC	72	80	23 TO 126	-22 TO 60	13.1	27.2	4.39	R410A	55/57	208	3	60	38	60	609	FURNISH W/ REQUIRED PIPING ACCESSORIES

NOTES:
1. FAN GUARD FROM TRANE IS TO BE USED IN COMBINATION WITH THIS DEVICE, MUST BE MOUNTED 12' OF GROUND OR 12" ABOVE HIGHEST AVERAGE SNOW DEPTH, WHICHEVER IS GREATER

ENERGY RECOVERY VENTILATOR, HOT WATER COIL & VRF SYSTEM 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

AIR GRILLE/DIFFUSER SCHEDULE

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

FINNED TUBE SCHEDULE

EQUIPMENT TAG	MANUFACTURER (OR ACCEPT. EQUAL)	MODEL	AVG WATER TEMP (°F)	BTU/FT	ELEMENT TUBE SIZE (IN)	ELEMENT TUBE MATERIAL	ELEMENT FIN SIZE (IN)	FINS PER FT	ACTIVE FIN LENGTH	ROW QUANTITY	ENCLOSURE MATERIAL	FINISH	COLOR	NOTES
FT-1	STERLING	JVB-S 24	150	860	3/4	COPPER	4-1/4 X 3-5/8	40	(2) 7FT SECTIONS	1	16 GAUGE STEEL	STANDARD PRIME FINISH	SELECTED BY ARCHITECT	PROVIDE W/ REMOVE 12" ACCESS PANEL AT EACH END PROVIDE W/ FULL SIZE BACK PLATE AND MOUNTING BRACKETS

FAN SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	SERVICE	FAN C.F.M.	R.P.M.	EXTERNAL STATIC PRESSURE INCH H_2O	MOTOR POWER (HP)	FLA	VOLT.	PHASE	HZ.	REMARKS
EF-1	GREENHECK	G-133-VG	CLASSROOM	500 (1,500)	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-2	GREENHECK	G-133-VG	CLASSROOM	500 (1,500)	818	0.25	1/4	3.7	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER
EF-3	GREENHECK	G-090-VG	TOILET ROOM	150	1,336	0.25	1/4	2.6	120	1	60	PROVIDE W/ FAN SPEED CONTROLLER, 24" HIGH INSULATED ROOF CURB & BACKDRAFT DAMPER

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)
ERV-1	NURSE'S SUITE 121	OFFICE/ SICKROOM	435	10	5	10	0.18	128	0.8	160	160	-	-	-	-
	MGT/PT ROOM 122J	CONFERENCE ROOM	194	10	50	5	0.06	62	0.8	77	80	-	-	-	-
	ASSISSTENT PRINCIPAL'S 122B	OFFICE	204	5	2	5	0.06	22	0.8	28	30	-	-	-	-
	MAIN OFFICE 122A	RECEPTION AREA	522	30	16	5	0.06	111	0.8	139	140	-	-	-	-
	SECURITY OFFICE 122E	OFFICE	73	5	1	5	0.06	9	0.8	12	15	-	-	-	-
	OFFICE 122D	OFFICE	114	5	1	5	0.06	12	0.8	15	15	-	-	-	-
	PRINCIPAL'S OFFICE 122C	OFFICE	266	5	2	5	0.06	26	0.8	32	35	-	-	-	-
EXISTING RTU	KINDERGARTEN 160	CLASSROOM (AGES 5-8)	876	25	30	10	0.12	325	0.8	507	510	-	-	-	-
	KINDERGARTEN 161	CLASSROOM (AGES 5-8)	872	25	30	10	0.12	325	0.8	507	510	-	-	-	-
	COUNSELOR	OFFICE	198	5	1	5	0.06	17	0.8	21	25	-	-	-	-
	COPY ROOM	COPY, PRINTING	299	4	2	5	0.06	28	0.8	35	35	-	-	-	-

NOTES:
1. QUANTITY OF OCCUPANTS FOR STANDARD CLASSROOMS ARE 25 TO 30 OCCUPANTS BASED ON NYSED STATISTICAL DATA. ALL OTHER OCCUPANCIES ARE BASED UPON OCCUPANT DENSITIES FROM THE 2015 INTERNATIONAL MECHANICAL CODE

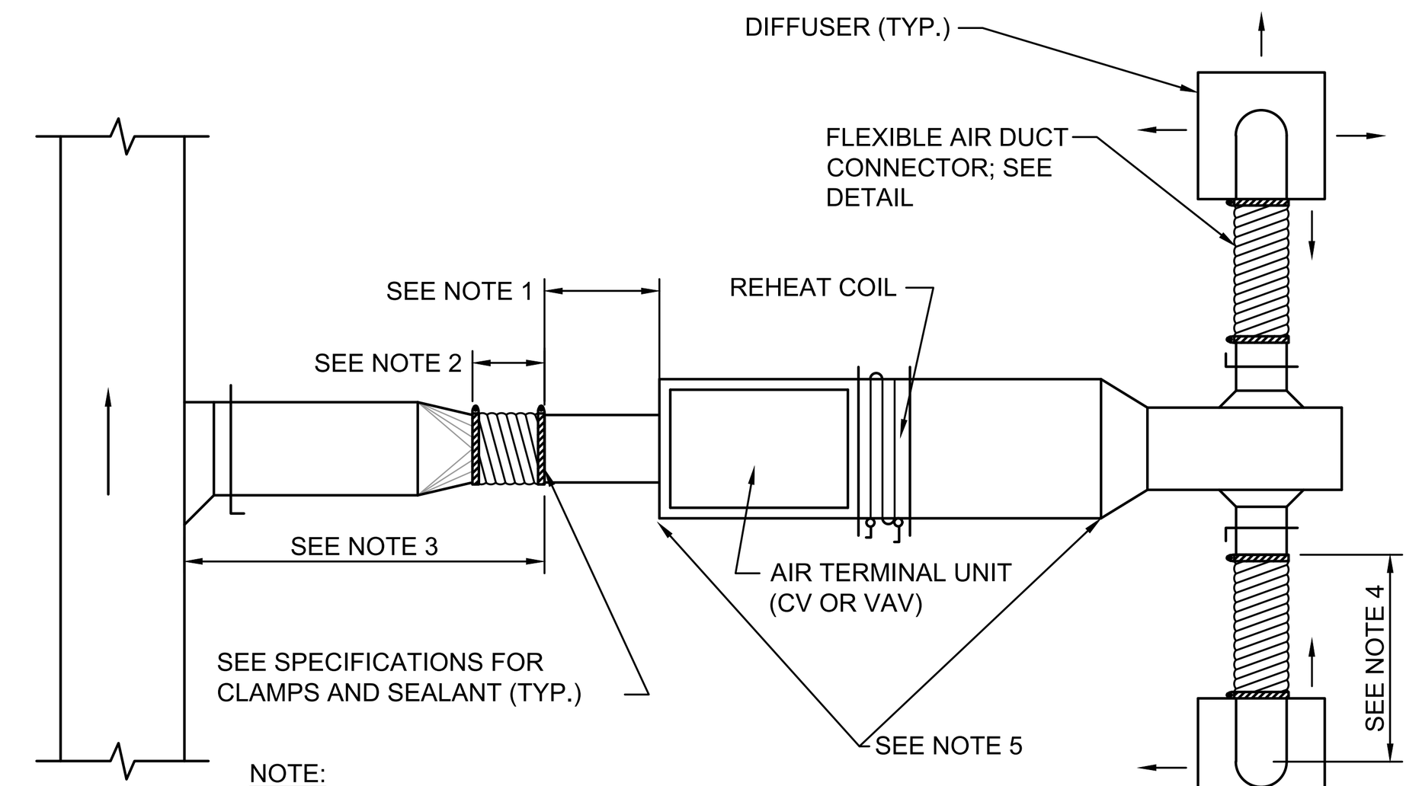
AIR TERMINAL UNIT SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	MAXIMUM PRIMARY CFM	MINIMUM PRIMARY CFM	SENSOR SP IN. W.C.	HYDRONIC REHEAT COIL HEAT CFM	EAT DEG F	LAT DEG F	CAPACITY MBH	EWT DEG F	LWT DEG F	COIL APD FT. W.G.	WATER GPM	COIL ROWS	WPD FT. W.G.	NOTES
VAV-1	KRUEGER	LMHS	1,500	510	-	1,125	55	90	42.5	180	160	0.23	4.0	2	1.17	1 - 4
VAV-2	KRUEGER	LMHS	1,500	510	-	1,125	55	90	42.5	180	160	0.23	4.0	2	1.17	1 - 4

1. PROVIDE WITH HOT WATER REHEAT COIL OF SIZE & CAPACITY SPECIFIED
2. PROVIDE W/ FACTORY INSTALLED AIRFLOW MEASURING SENSOR
3. PROVIDE W/ BACNET COMPATIBLE DDC CONTROLLER
4. PROVIDE W/ FACTORY INSTALLED TOGGLE DISCONNECT SWITCH

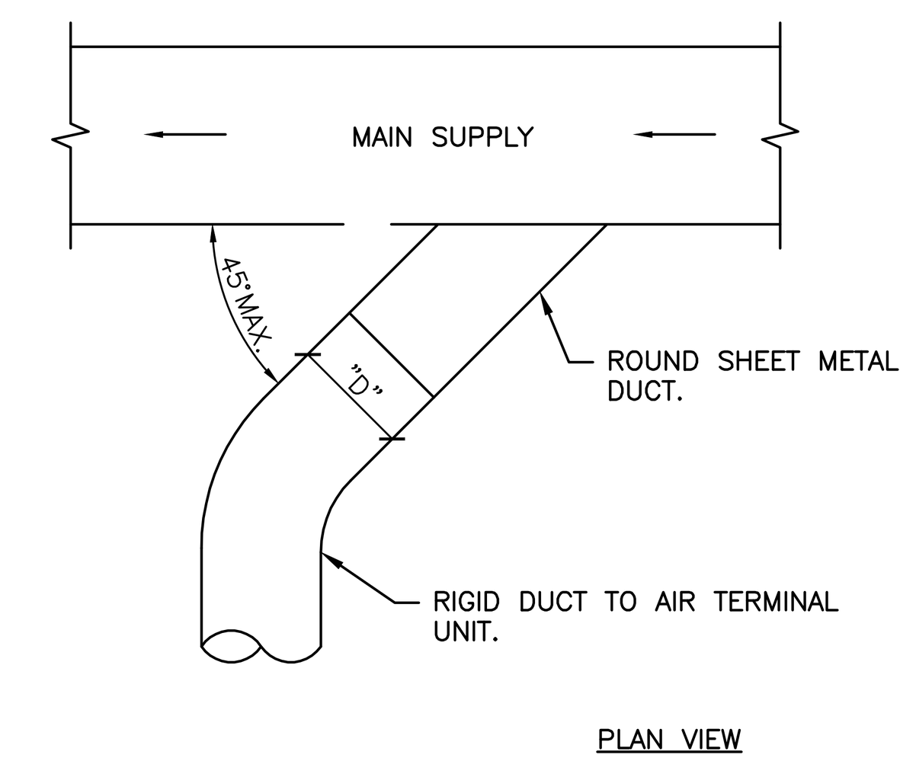
VRF System Notes:

1. WIRED 7 DAY PROGRAMMABLE THERMOSTAT SHALL BE FURNISHED BY OWNER FOR EACH INDOOR UNIT. THERMOSTATS SHIP LOOSE FOR FIELD INSTALLATION AND WIRING BY THE MECHANICAL CONTRACTOR.
2. OWNER TO FURNISH CENTRAL CONTROLLER FOR LOCAL SET POINT CONTROL AND SYSTEM VIEWING. CONTROLLER TO BE INSTALLED AND WIRING BY MECHANICAL CONTRACTOR. 24V POWER BY ELECTRICAL CONTRACTOR.
3. DISCONNECT SWITCHES FOR CONDENSING UNITS AND INDOOR UNITS SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. EXTERNAL SUPPORTS FOR INDOOR AND CONDENSING UNITS SHALL BE FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR.
5. FILTER RACK AND 2" PLEATED MERV-13 FILTERS FOR DUCTED UNITS SHALL FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR. FILTER RACK SHALL BE GALVANIZED STEEL, FULLY INSULATED & FACTORY ASSEMBLED. TYPICAL OF FLT-H SERIES OR EQUAL
6. CONDENSATE PUMPS SHIP FOR FIELD INSTALLATION BY MECHANICAL CONTRACTOR FOR WALL MOUNTED UNITS. DUCTED UNITS FURNISHED WITH FACTORY MOUNTED CONDENSATE PUMP. MECHANICAL CONTRACTOR TO PROVIDE CONDENSATE PIPING FROM ALL UNITS TO SANITARY DRAIN. FIELD VERIFY EXACT ROUTING AND TERMINATION POINT IN BUILDING.
7. PROVIDE REFRIGERANT ISOLATION VALVES ON LIQUID AND GAS LINES AT EVERY FAN COIL UNIT.

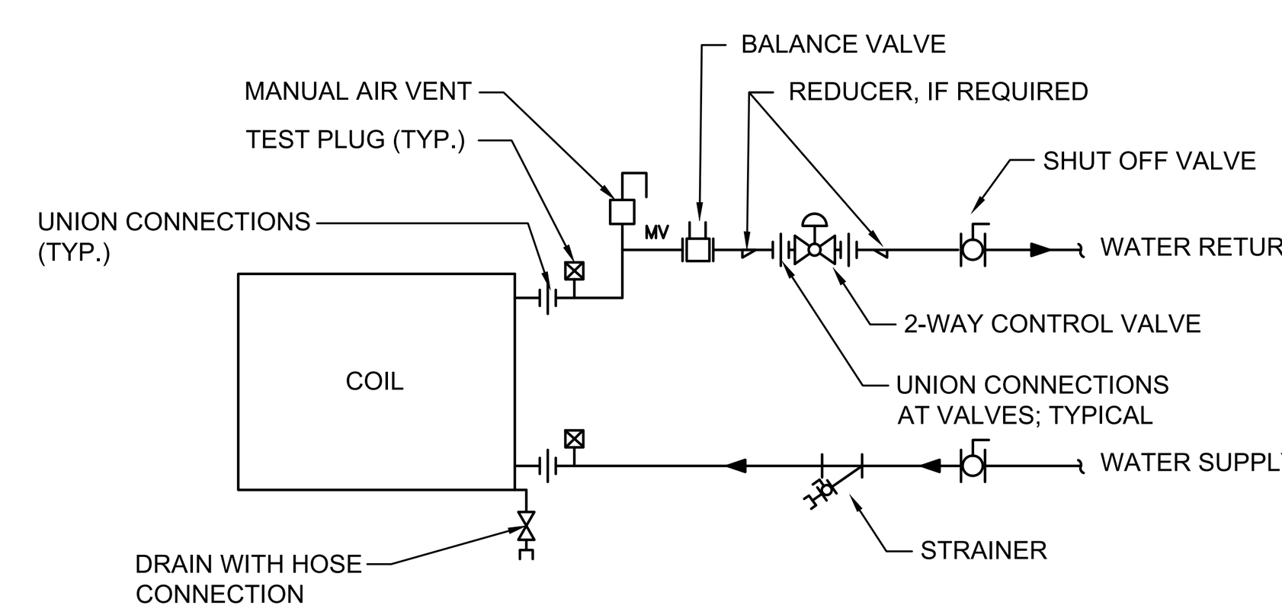


NOTE:
1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET.
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0".
3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET. FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100'.
4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 8'-0". USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/ VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.

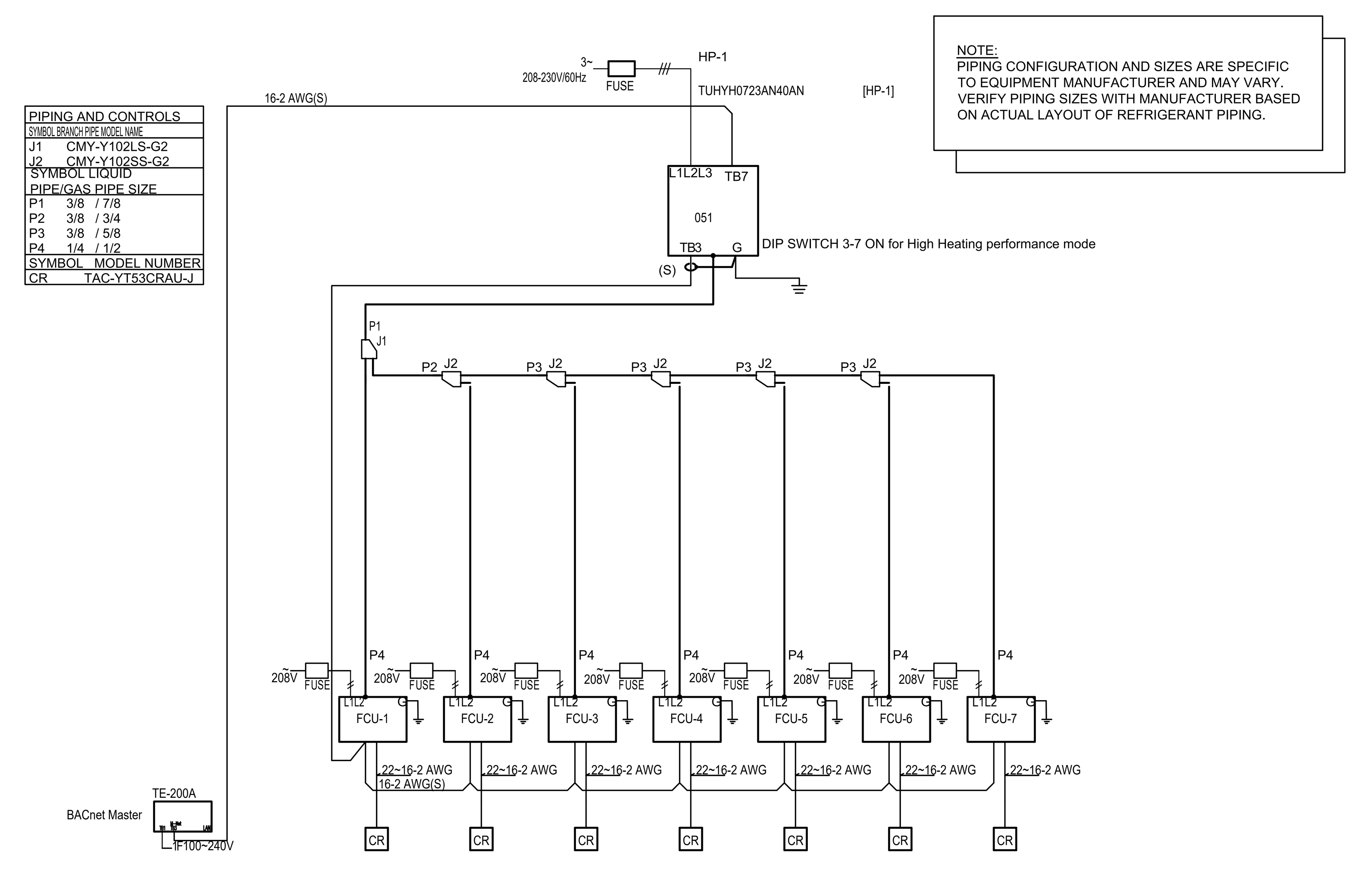
1 / M002 — VAV Air Terminal Unit Duct Connection Detail
N.T.S.



3 / M002 — Supply Duct Takeoff for Air Terminal Unit
N.T.S.



2 / M002 — Coil Piping Connection Detail
Scale: None



4 / M002 — VRF System Piping Diagram
N.T.S.

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

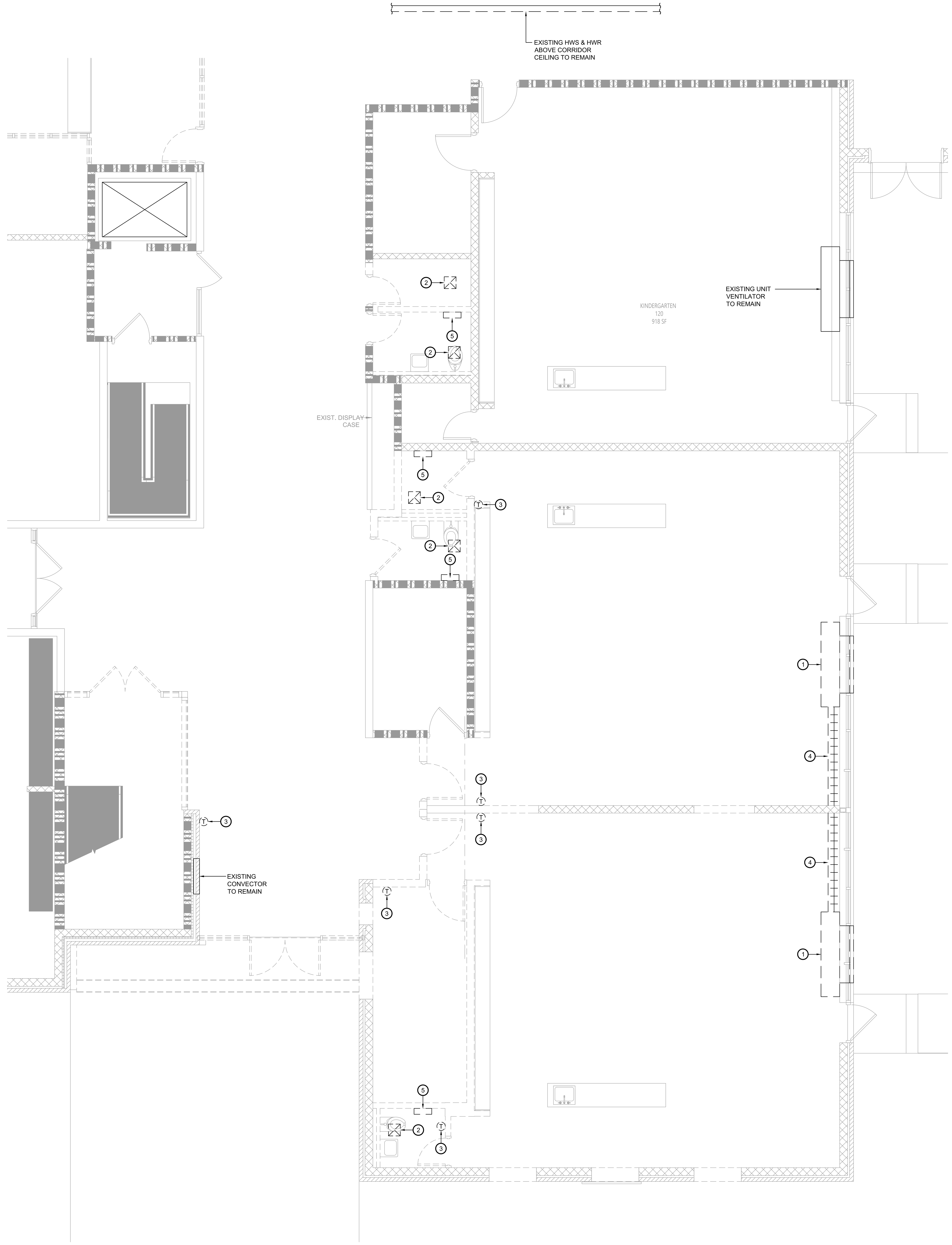
Project Title

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title: MECHANICAL SCHEDULES & DETAILS

Sheet No. BES M002

CONSTRUCTION DOCUMENTS

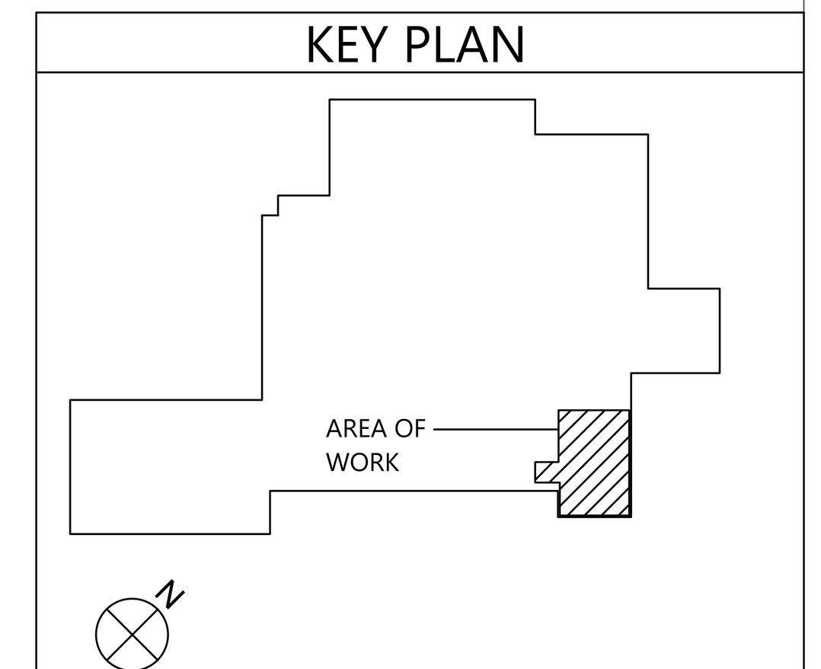


1 MD111 Mechanical Demolition Plan - Part 1
Scale: 1/4" = 1'-0"

Key Notes:

1. EXISTING UNIT VENTILATOR TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, LOUVERS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP; SEAL EXTERIOR LOUVER WEATHER TIGHT W/ RIGID INSULATION ON INSIDE FACE
2. EXISTING EXHAUST FAN TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY DUCTWORK, GRILLES, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.;
3. EXISTING THERMOSTAT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED WIRING, TUBING, CONDUIT, ACCESSORIES, ETC.;
4. EXISTING FINNED TUBE RADIATION TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP
5. EXISTING CONVECTOR TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP

KEY PLAN



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Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

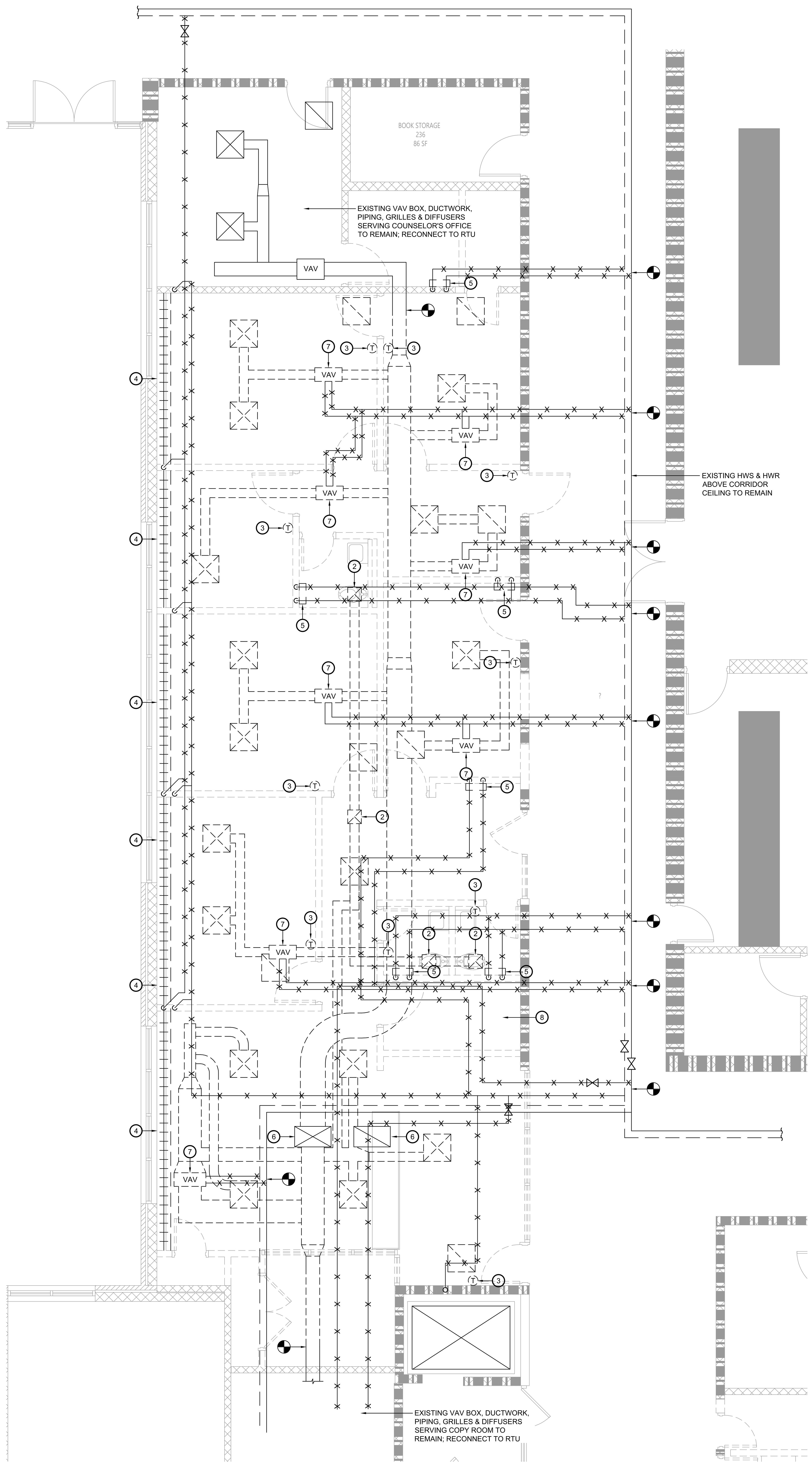
Sheet Title

MECHANICAL DEMOLITION PLAN - PART 1

Sheet No.

BES MD111

CONSTRUCTION DOCUMENTS

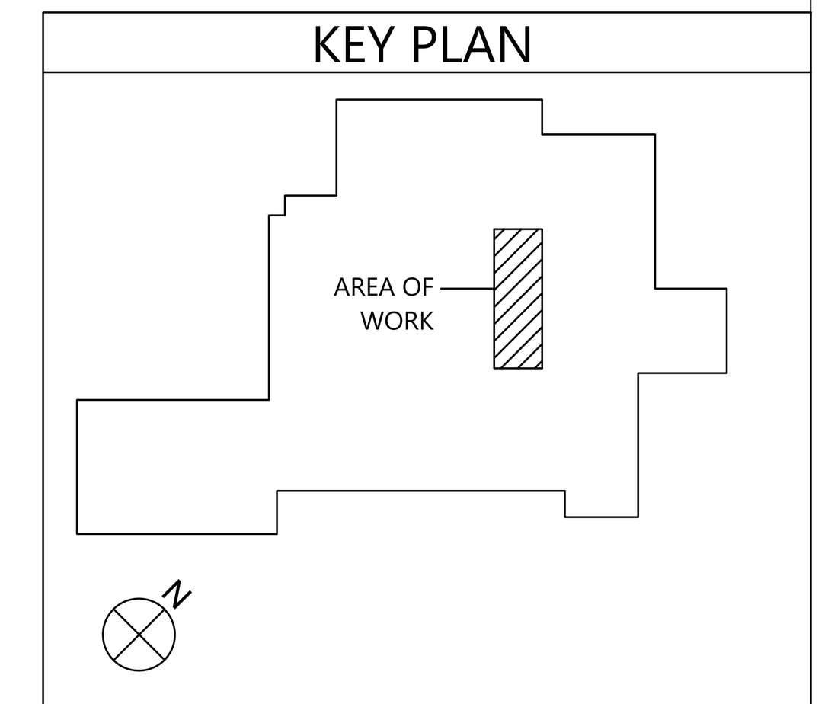


1 MD112 Mechanical Demolition Plan - Part 2
Scale: 1/4" = 1'-0"

Key Notes:

1. EXISTING UNIT VENTILATOR TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, LOUVERS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP; SEAL EXTERIOR LOUVER WEATHER TIGHT W/ RIGID INSULATION ON INSIDE FACE
2. EXISTING EXHAUST FAN TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY DUCTWORK, GRILLES, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.;
3. EXISTING THERMOSTAT TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY ASSOCIATED WIRING, TUBING, CONDUIT, ACCESSORIES, ETC.;
4. EXISTING FINNED TUBE RADIATION TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP
5. EXISTING CONVECTOR TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.; REMOVE PIPING BACK TO MAINS & CAP
6. EXISTING ROOFTOP UNIT TO REMAIN; REMOVE ALL DUCTWORK SERVING MAIN OFFICE; TEMPORARILY CAP DUCTWORK UNTIL CONNECTION TO NEW DUCT LAYOUT
7. EXISTING VARIABLE AIR VOLUME BOX TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF INCLUDING ANY DUCTWORK, PIPING, CONTROLS, HANGERS, SUPPORTS, ACCESSORIES, ETC.;
8. IN EXISTING STORAGE CLOSET IS PIPING AND VALVES FROM AN UNUSED CHANGEOVER SYSTEM FOR A 2 PIPE HW/CHW SYSTEM THAT IS NO LONGER USED; REMOVE ALL COMPONENTS RELATED TO THE REMOVED CHILLED WATER SYSTEM (PIPING, VALVES, PUMP, ETC.) MAINTAIN HOT WATER PIPING THAT SERVES ANY EXISTING LOADS; FIELD VERIFY EXACT LIMITS OF DEMOLITION

KEY PLAN



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

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

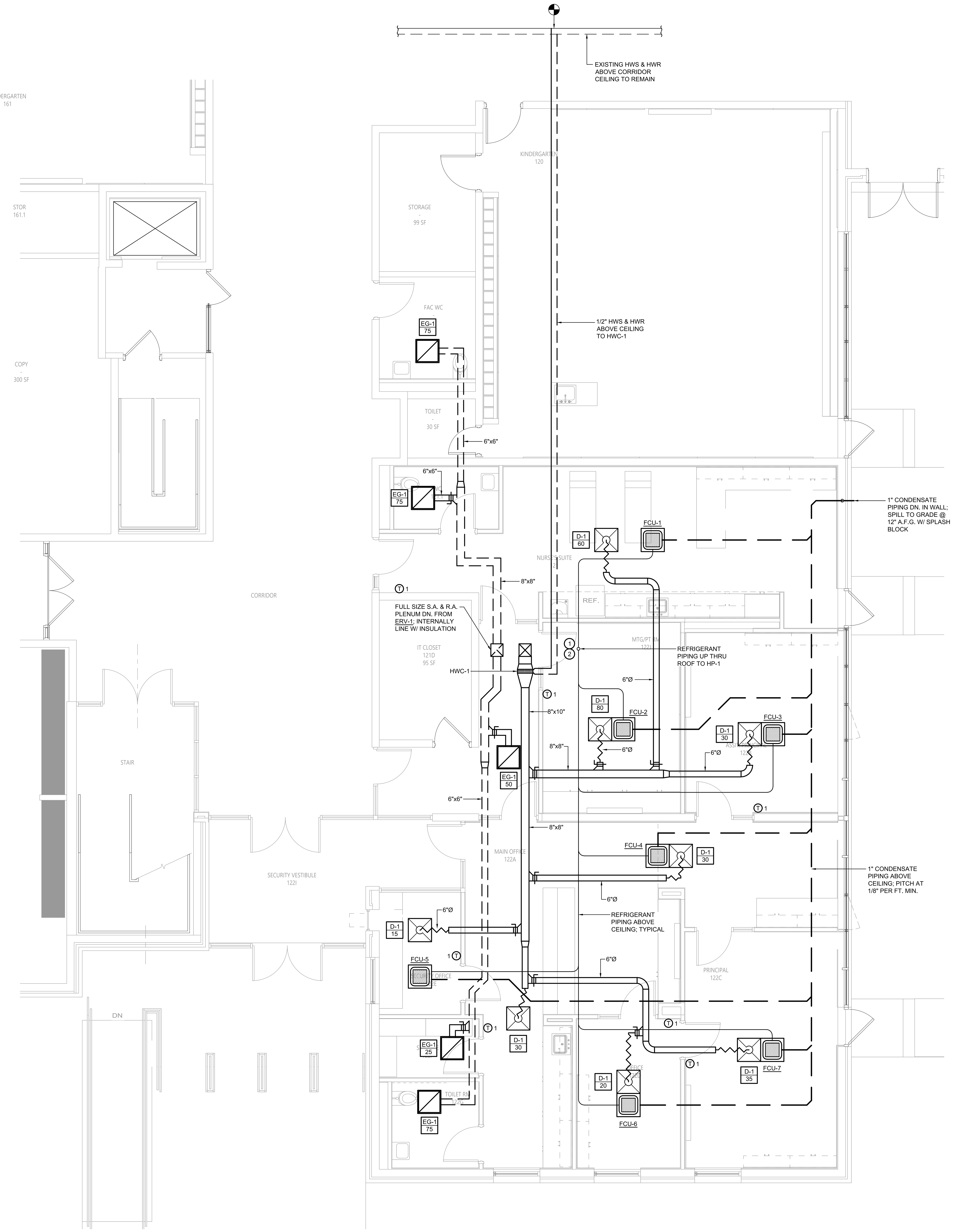
#	DATE	DESCRIPTION

Drawn By:	BJK
Checked By:	BJK
Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
MECHANICAL DEMOLITION PLAN - PART 2

Sheet No.
BES MD112

CONSTRUCTION DOCUMENTS

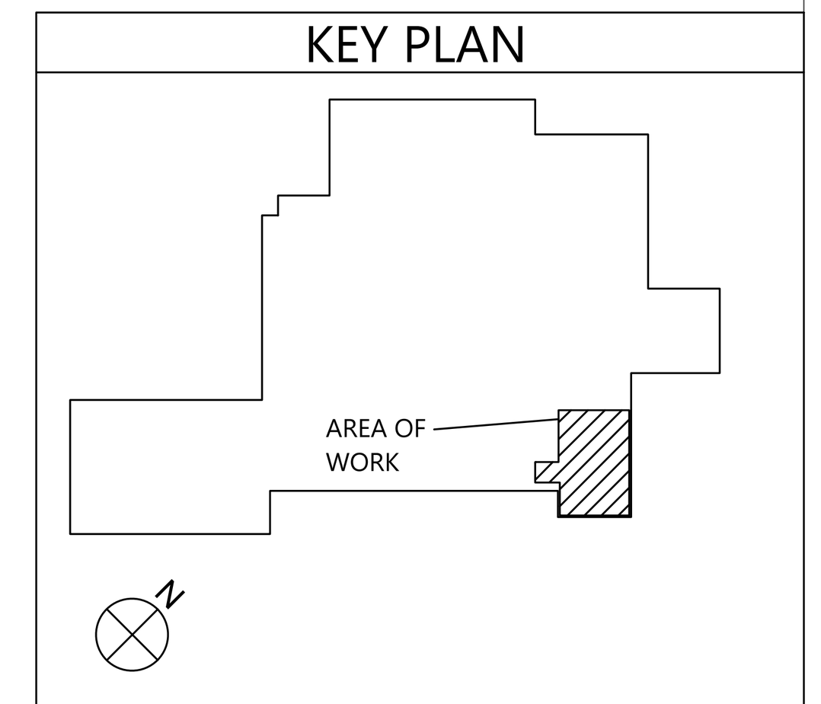


1
M111
Mechanical Plan - Part 1
Scale: 1/4" = 1'-0"

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



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Consultant
BLAKE ENGINEERING PLLC

Project Title

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

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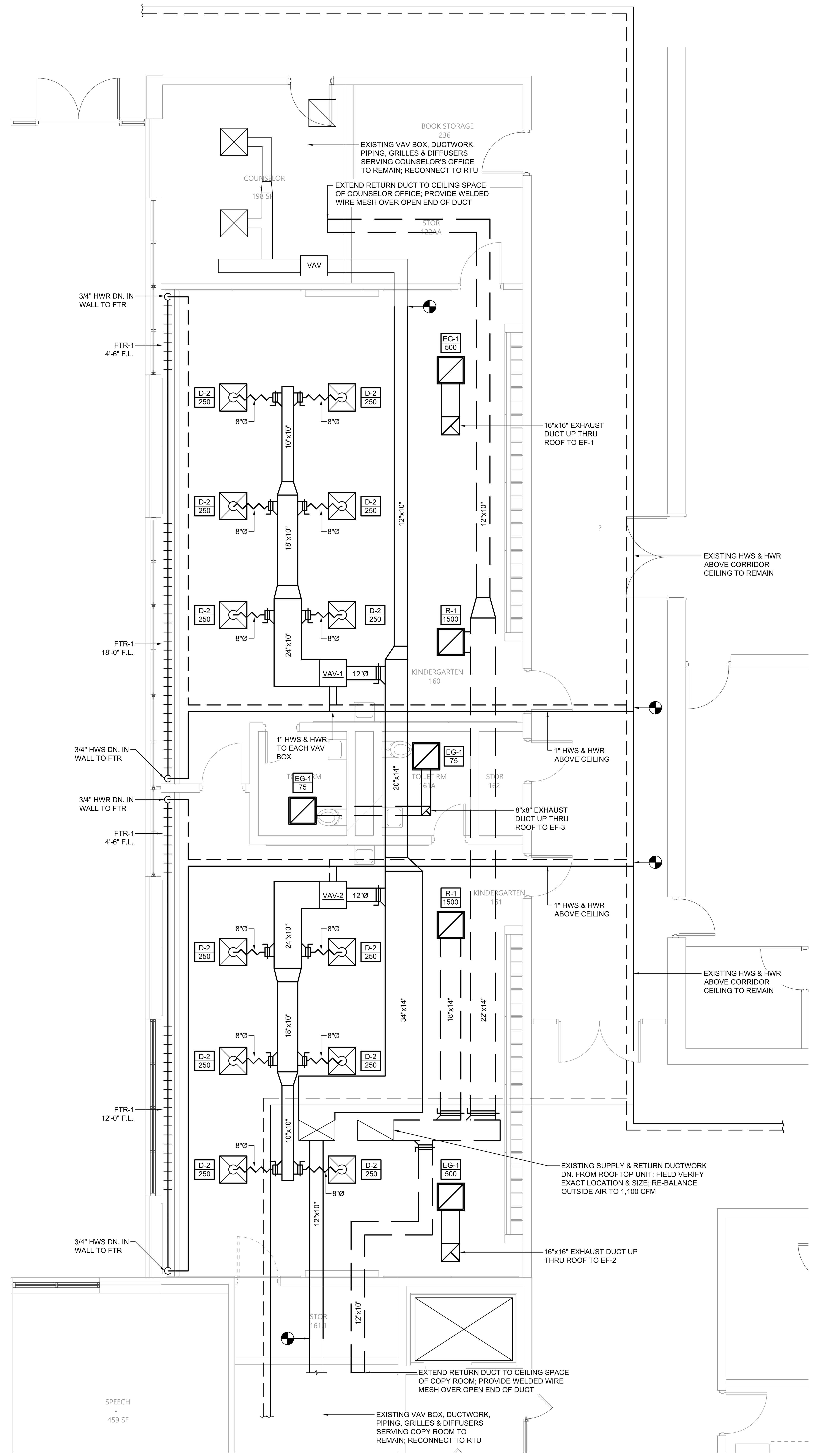
Sheet Title

MECHANICAL PLAN - PART 1

Sheet No.

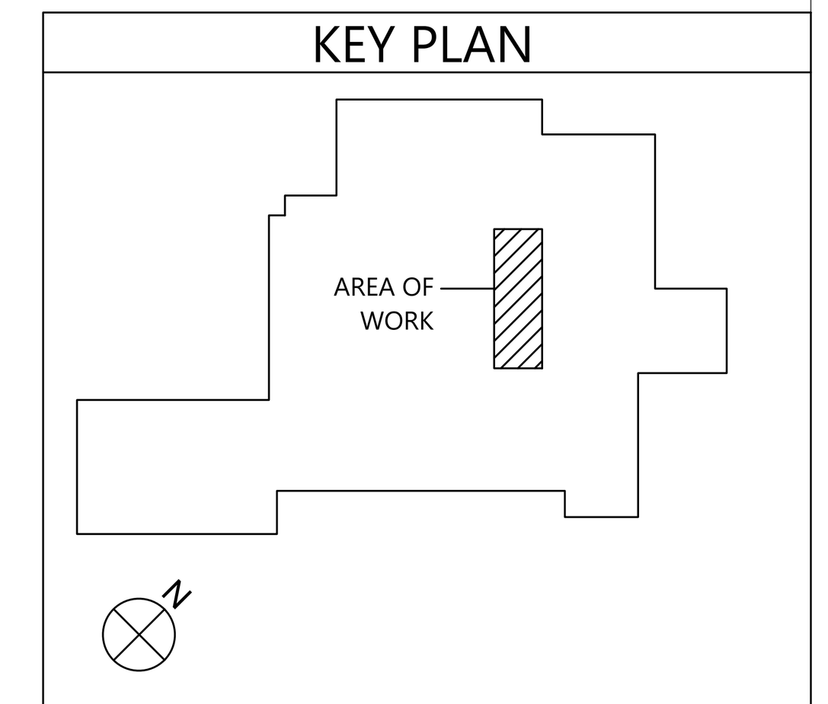
BES M111

CONSTRUCTION DOCUMENTS



1 / M112 — Mechanical Plan - Part 2
Scale: 1/4" = 1'-0"

KEY PLAN



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Consultant: Blake Engineering PLLC

Project Title:
VALLEY CENTRAL SCHOOL DISTRICT
BEREA ELEMENTARY SCHOOL
2023 CAPITAL PROJECT - PHASE 1

#	DATE	DESCRIPTION

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Sheet Title
MECHANICAL PLAN - PART 2

Sheet No.
BES M112

CONSTRUCTION DOCUMENTS

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 6" LED DOWNLIGHT - ROUND 6DR-TL-L15/840-DIM-UNV-LW-OF-WH-R	LED	120	1	13.8	13.8	RECESSED	6"Ø	4000K COLOR TEMPERATURE; REMODEL KIT
-		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

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
EXISTING LOAD	EXISTING WIRING	20	1	- / -			2	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	3		- / -		4	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	5			- / -	6	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	7	- / -			8	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	9		- / -		10	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	11			- / -	12	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	13	- / -			14	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	15		- / -		16	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	17			- / -	18	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	19	- / -			20	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	21		- / -		22	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	23			- / -	24	20	EXISTING WIRING	EXISTING LOAD
ACCESS CONTROL	(2) #12 CU & (1) #12 GND.	20	25	- / -			26	20	(2) #12 CU & (1) #12 GND.	BATHROOM RECEPTACLES
DOOR OPERATORS	(2) #12 CU & (1) #12 GND.	20	27		- / -		28	20	(2) #12 CU & (1) #12 GND.	WATER FOUNTAIN
REFRIGERATOR	(2) #12 CU & (1) #12 GND.	20	29			- / -	30	20	(2) #12 CU & (1) #12 GND.	KITCHEN RECEPTACLES
SPARE	-	20	31	- / -			32	20	-	SPARE
SPARE	-	20	33		- / -		34	20	-	SPARE
SPARE	-	20	35			- / -	36	20	(2) #12 CU & (1) #12 GND.	KITCHEN RECEPTACLES
KITCHEN RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	37	- / -			38	20	-	SPARE
EXHAUST FANS	(2) #12 CU & (1) #12 GND.	20	39		- / -		40	20	(2) #12 CU & (1) #12 GND.	BATHROOM RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	41			- / -	42	20	(2) #12 CU & (1) #12 GND.	VAV BOXES
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 / E001 Panelboard C Section 1
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
EXISTING LOAD	EXISTING WIRING	20	1	- / -			2	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	3		- / -		4	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	5			- / -	6	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	7	- / -			8	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	9		- / -		10	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	11			- / -	12	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	13	- / -			14	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	15		- / -		16	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	17			- / -	18	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	19	- / -			20	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	21		- / -		22	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	23			- / -	24	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	25	- / -			26	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	27		- / -		28	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	29			- / -	30	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	31	- / -			32	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	33		- / -		34	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	35			- / -	36	20	EXISTING WIRING	EXISTING LOAD
FAN COILS	(2) #12 CU & (1) #12 GND.	20	37	- / -			38	60	(3) #4 CU & (1) #8 GND.	HEAT PUMP HP-1
			39		- / -		40			
ERV-1	(2) #12 CU & (1) #12 GND.	20	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 / E001 Panelboard C Section 2
Scale: None

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

CONNECTED LOAD	CONDUCTORS	CKT. BREAKER AMPACITY	POSITION	L1 KVA	L2 KVA	L3 KVA	POSITION	CKT. BREAKER AMPACITY	CONDUCTORS	CONNECTED LOAD
EXISTING LOAD	EXISTING WIRING	20	1	- / -			2	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	3		- / -		4	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	5			- / -	6	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	7	- / -			8	20	EXISTING WIRING	EXISTING LOAD
EXISTING LOAD	EXISTING WIRING	20	9		- / -		10	20	EXISTING WIRING	EXISTING LOAD
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	11			- / -	12	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	13	- / -			14	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	15		- / -		16	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	17			- / -	18	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	19	- / -			20	20	(2) #12 CU & (1) #12 GND.	RECEPTACLES
RECEPTACLES	(2) #12 CU & (1) #12 GND.	20	21		- / -		22	-	-	SPACE
SPACE	-	-	23			- / -	24	-	-	SPACE
SPACE	-	-	25	- / -			26	-	-	SPACE
SPACE	-	-	27		- / -		28	-	-	SPACE
SPACE	-	-	29			- / -	30	-	-	SPACE
SPACE	-	-	31	- / -			32	-	-	SPACE
SPACE	-	-	33		- / -		34	-	-	SPACE
SPACE	-	-	35			- / -	36	-	-	SPACE
SPACE	-	-	37	- / -			38	-	-	SPACE
SPACE	-	-	39		- / -		40	-	-	SPACE
SPACE	-	-	41			- / -	42	-	-	SPACE
EXISTING SIEMENS S1 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 / E001 Existing Panelboard CP-2
Scale: None

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
- F — MANUAL PULL STATION; MTD. 48" A.F.F.
- WF — WATER FLOW SWITCH
- TS — VALVE TAMPER SWITCH
- X — 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
- H R — RATE OF RISE HEAT DETECTOR, 135°F
- CO — 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
- J — 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 (2) DUPLEX RECEPTACLES & (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.

CLOCK/PAGING LEGEND:

- S — CEILING MOUNTED SPEAKER
- S — WALL MOUNTED SPEAKER
- C — WALL MOUNTED CLOCK
- C S — COMBINATION WALL MOUNTED CLOCK/SPEAKER UNIT
- PA — BUILDING PAGING SYSTEM
- M — WALL MOUNTED MICROPHONE OUTLET
- V — VOLUME CONTROL

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 2017 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

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BEREA ELEMENTARY SCHOOL
2023 CAPITAL PROJECT - PHASE 1

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

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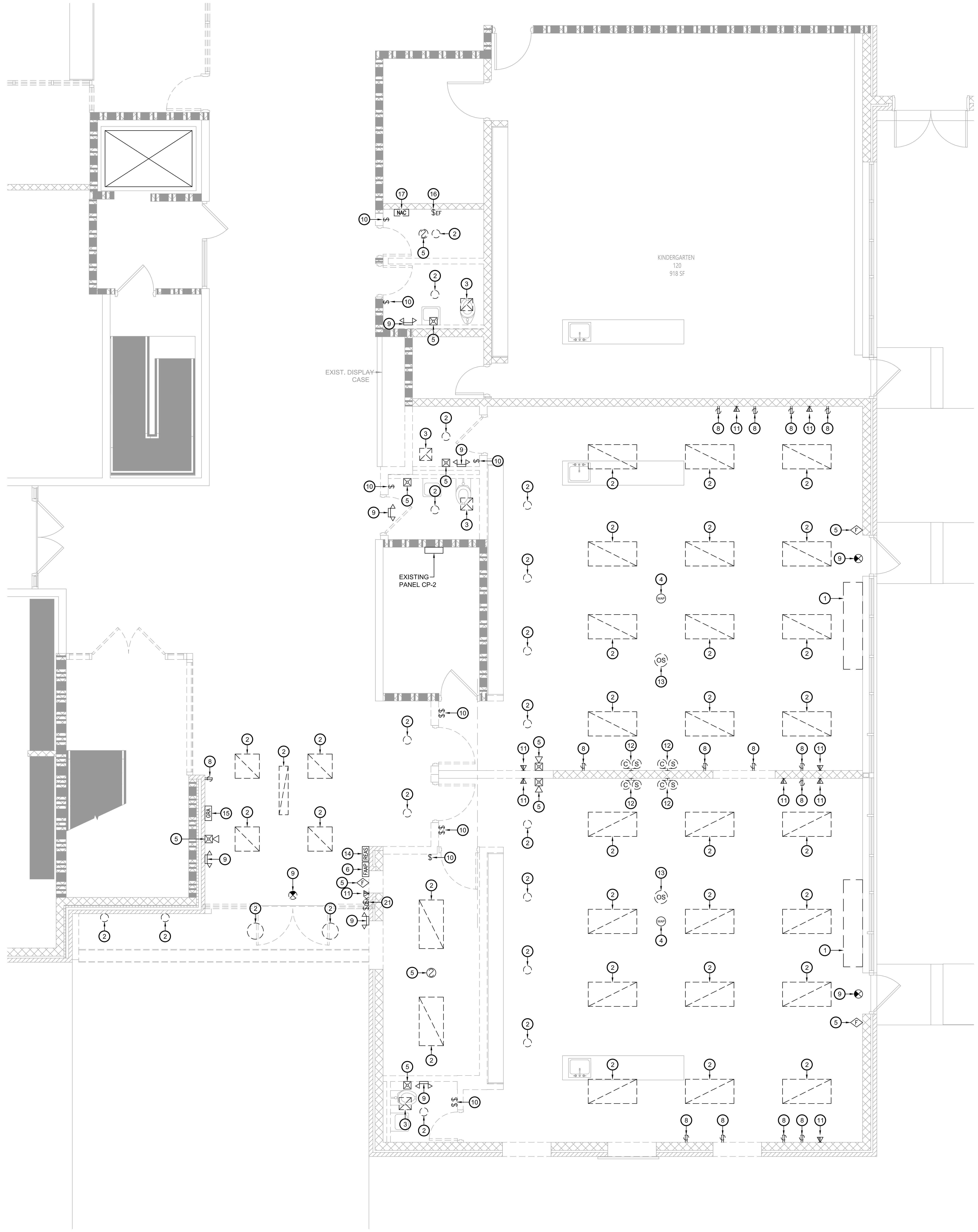
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ELECTRICAL NOTES, LEGENDS, SCHEDULES & DETAILS

Sheet No.
BES E001

CONSTRUCTION DOCUMENTS



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

Key Notes:

1. EXISTING UNIT VENTILATOR TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
2. DISCONNECT, REMOVE & PROPERLY DISPOSE OF LIGHT FIXTURE & ASSOCIATED WIRING & CONDUIT; MAINTAIN EXISTING CIRCUIT AS NEEDED FOR ANY ADJACENT LIGHTING THAT REMAINS IN PLACE, OTHERWISE TERMINATE AT SOURCE
3. EXISTING EXHAUST FAN TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
4. EXISTING WIRELESS ACCESS POINT TO BE DISCONNECTED, REMOVED & STORED; TEMPORARILY SUPPORT DATA CABLING UNTIL REINSTALLATION IN NEW CEILING
5. DISCONNECT, REMOVE & PROPERLY DISPOSE OF FIRE ALARM DEVICE & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE; MAINTAIN CONTINUITY OF EXISTING FIRE ALARM CIRCUITS
6. EXISTING FIRE ALARM ANNUNCIATOR PANEL TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL AFTER COMPLETION OF VESTIBULE
7. DISCONNECT, REMOVE & PROPERLY DISPOSE OF ANTIQUATED CLOCK AND PUBLIC ADDRESS SYSTEMS & ASSOCIATED WIRING & CONDUIT; 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
12. DISCONNECT, REMOVE & PROPERLY DISPOSE OF WALL MOUNTED CLOCK/SPEAKER & ASSOCIATED WIRING & CONDUIT; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
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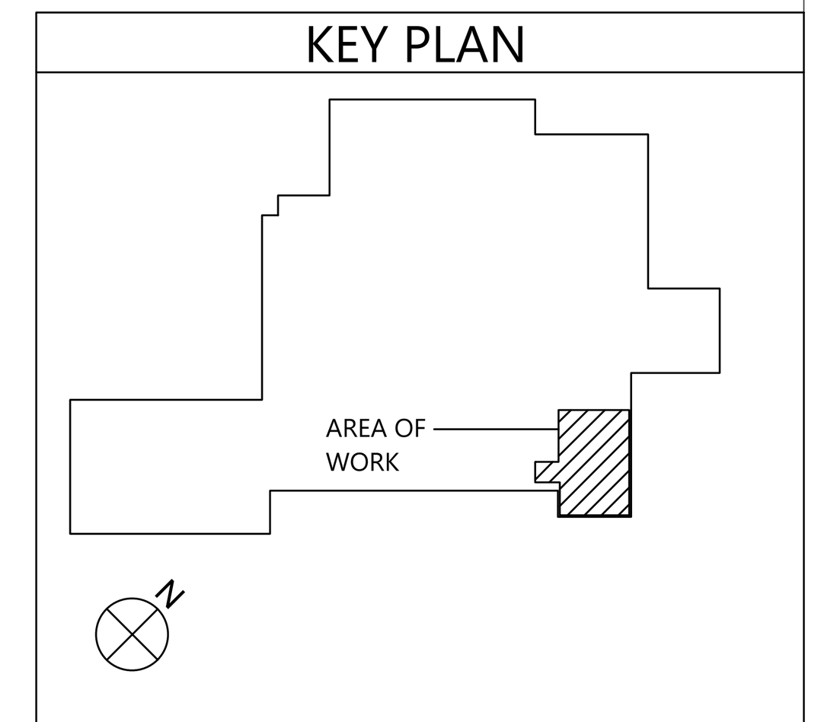
17. EXISTING FIRE ALARM PANEL TO BE RELOCATED; COORDINATE FINAL LOCATION W/ DISTRICT & FIRE ALARM VENDOR; RELOCATE ALL ASSOCIATED WIRING
18. EXISTING VAV BOX TO BE REMOVED; DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL ASSOCIATED CONDUITS, WIRING, DISCONNECTS, ETC.; REMOVE ALL CONDUITS AND WIRING BACK TO SOURCE
19. EXISTING MOMENTARY CONTACT LIGHT SWITCHES FOR REMOTE CONTROL OF EXTERIOR LIGHTING; (3) 2 POLE SWITCHES; CONNECTED TO ASCO CONTACTOR IN STORAGE ROOM B-10 IN BASEMENT UNDER MAIN ENTRANCE; DISCONNECT, REMOVE & PROPERLY DISPOSE OF SWITCHES, PULL WIRING TO NEAREST JUNCTION BOX ABOVE CORRIDOR CEILING, MAINTAIN FOR RECONNECTION TO NEW SWITCHES
20. EXISTING PHONE SYSTEM ON WALL; COORDINATE W/ DISTRICT & VENDOR TO REMOVE ALL WIRING AND DEVICES THAT ARE NO LONGER IN USE
21. EXISTING BANK OF 8 KEY SWITCHES & DIMMING LIGHT SWITCH TO BE DISCONNECTED & REMOVED FROM WALL; PULL ALL WIRING TO ABOVE CEILING & SECURE; INSTALL SWITCHES IN A NEW LOCATION & EXTEND WIRING AS NEEDED TO RECONNECT TO EXISTING DISTRIBUTION

KEY PLAN



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2023 CAPITAL PROJECT - PHASE 1

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Proj. #:	44-13-01-06-0-017-014
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title: ELECTRICAL DEMOLITION PLAN - PART 1

Sheet No. BES ED111

CONSTRUCTION DOCUMENTS

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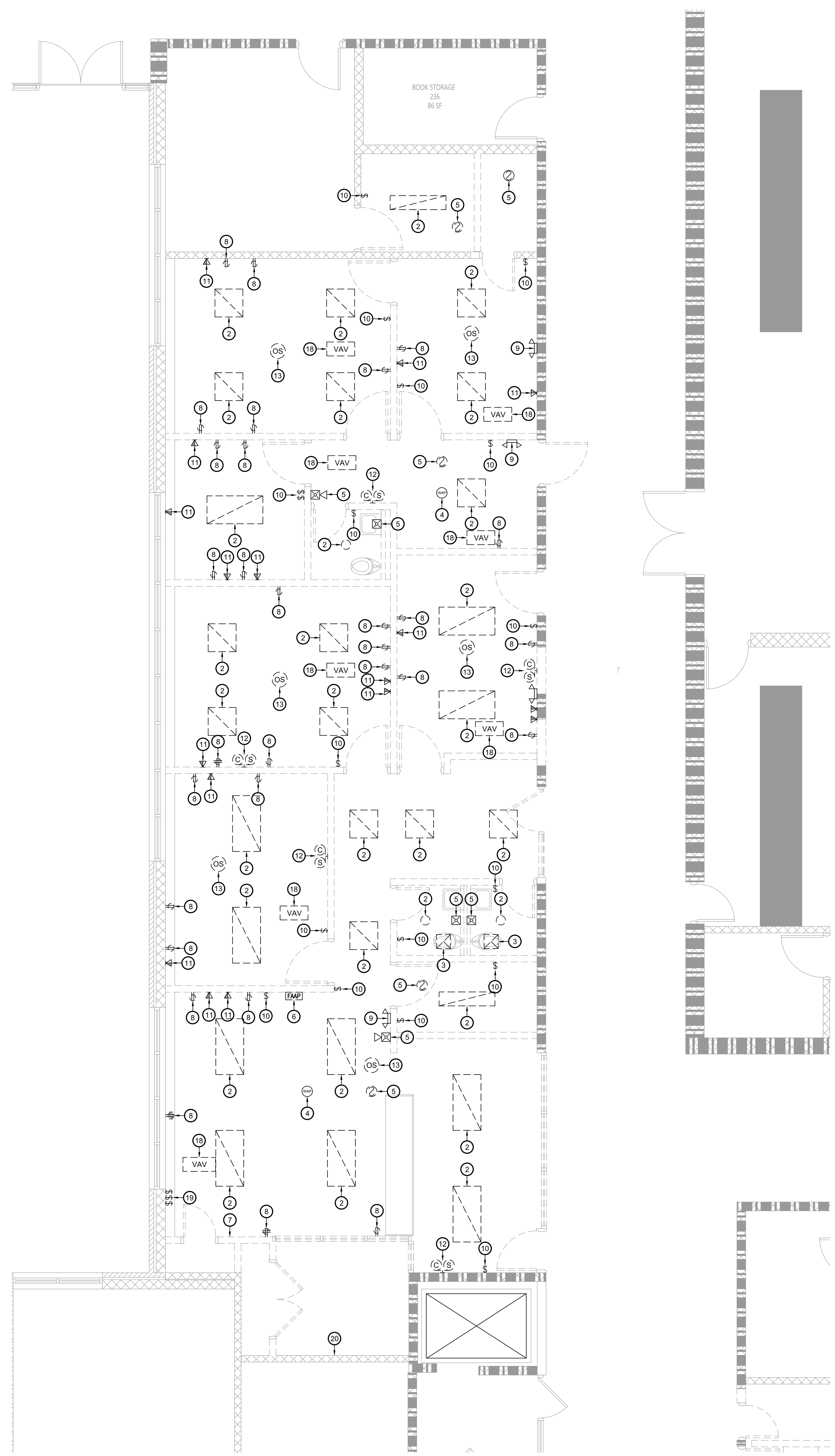
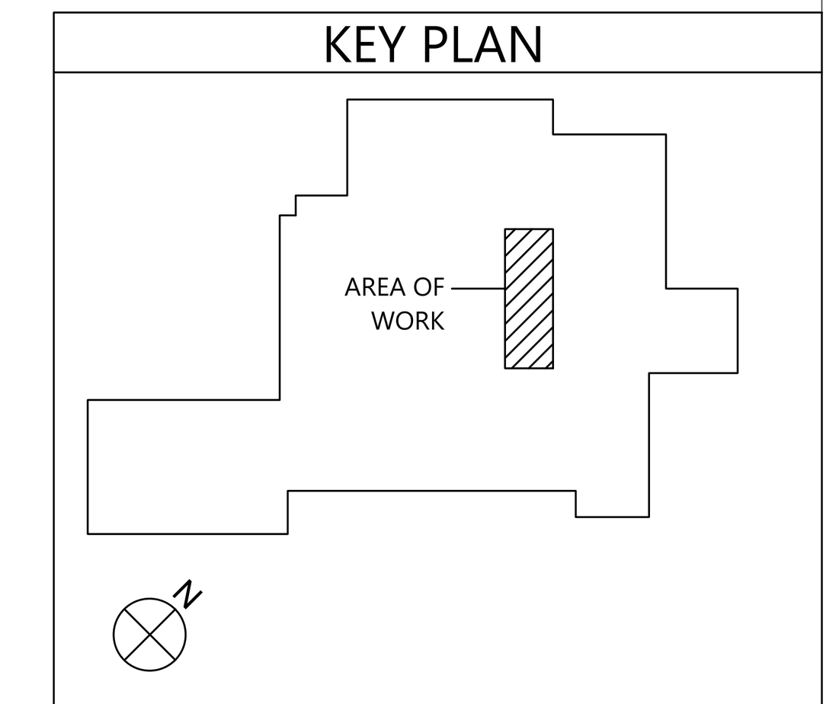


1 ED112 Electrical Demolition Plan - Part 2
Scale: 1/4" = 1'-0"

KEY PLAN



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BEREA ELEMENTARY SCHOOL
2023 CAPITAL PROJECT - PHASE 1

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

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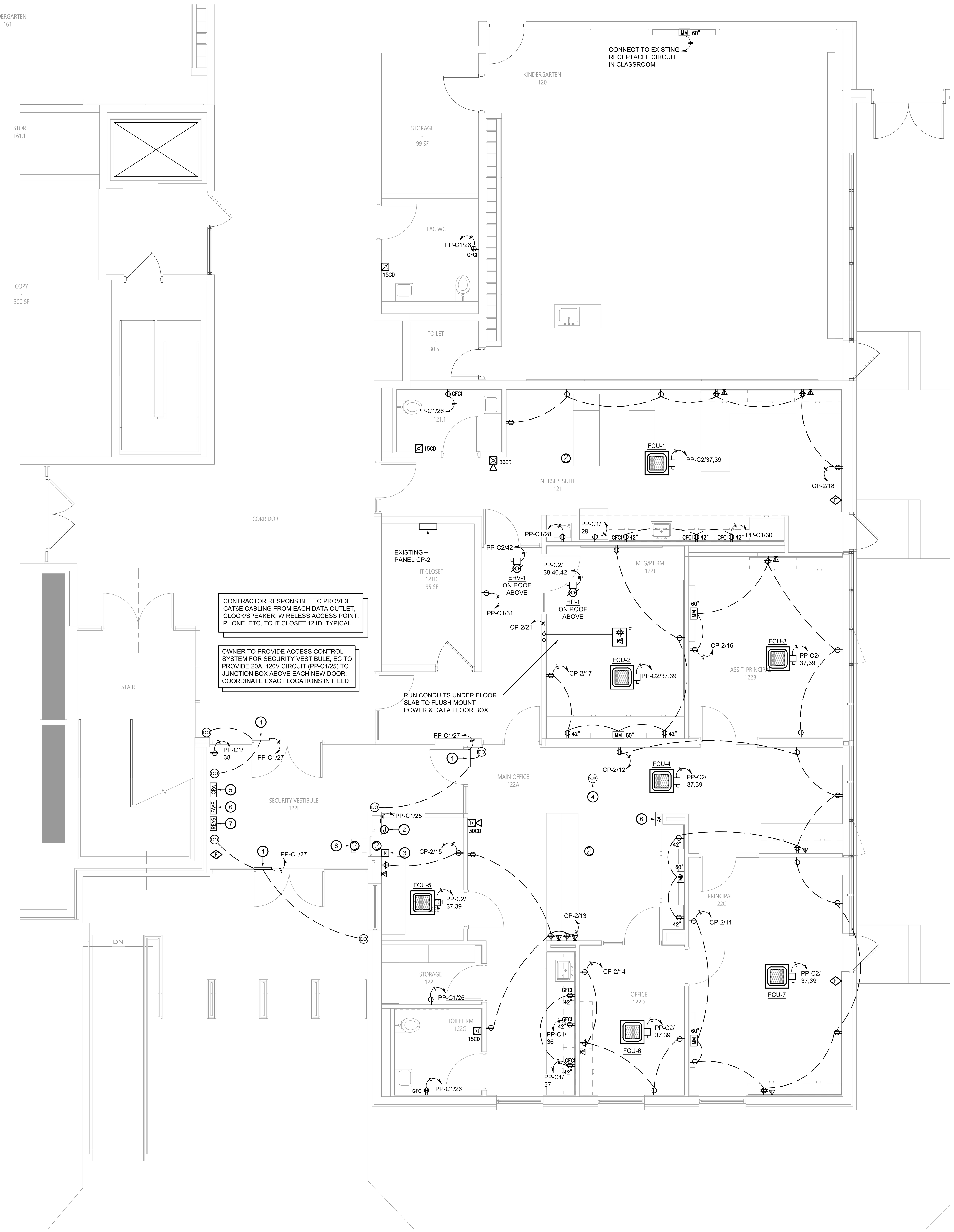
CSArch Proj. #:	187-2302.01
Issued for Bid:	10/18/24

Sheet Title
ELECTRICAL DEMOLITION PLAN - PART 2

Sheet No.
BES ED112

CONSTRUCTION DOCUMENTS

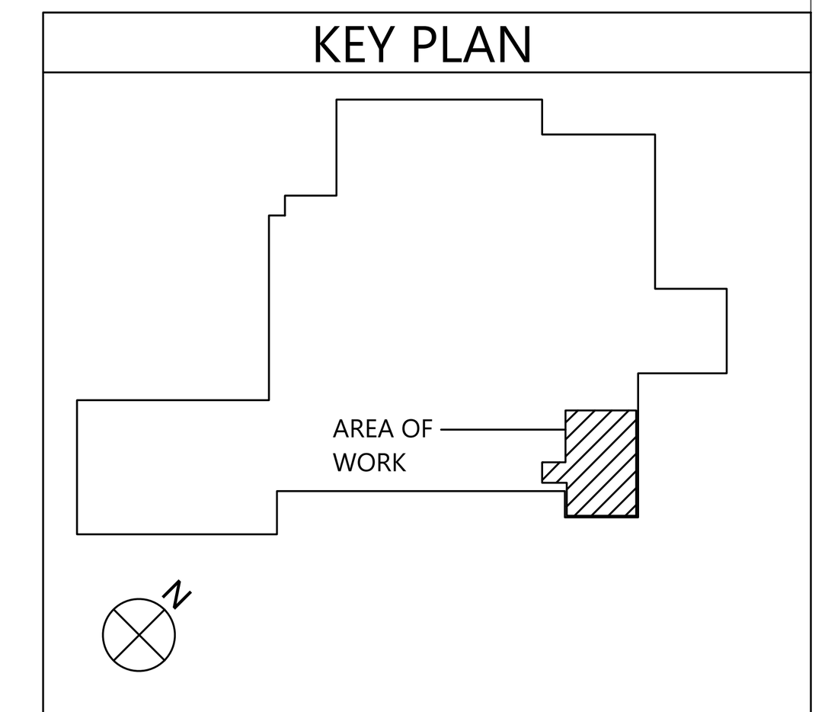


Electrical Plan - Part 1
Scale: 1/4" = 1'-0"

Key Notes:

1. ADA DOOR OPERATORS PROVIDED BY GC; EC TO PROVIDE ALL 120V LINE VOLTAGE POWER TO OPERATOR & CONTROL DEVICES; GC TO PROVIDE ALL LOW VOLTAGE CONTROLS
2. PROVIDE NEW 120V ELECTRICAL CONNECTION FOR FIRE SHUTTER
3. FIRE ALARM RELAY; FIRE SHUTTER TO CLOSE UPON ACTIVATION OF FIRE ALARM
4. REINSTALL EXISTING WIRELESS ACCESS POINT; CONNECT TO EXISTING DATA CABLING
5. EXISTING FIRE ALARM GRAPHIC DISPLAY TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL AFTER COMPLETION OF VESTIBULE
6. EXISTING FIRE ALARM ANNUNCIATOR PANEL TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL IN A NEW LOCATION AFTER COMPLETION OF VESTIBULE, RELOCATE/EXTEND WIRING & CONDUIT AS NEEDED
7. EXISTING RESCUE ASSISTANCE PANEL TO REMAIN; TEMPORARILY REMOVE, PROTECT & STORE DURING CONSTRUCTION; REINSTALL IN A NEW LOCATION AFTER COMPLETION OF VESTIBULE, RELOCATE/EXTEND WIRING & CONDUIT AS NEEDED
8. PROVIDE SMOKE DETECTORS ON BOTH SIDES OF THE AUTOMATIC FIRE SHUTTER AT THE TRANSACTION WINDOW; CONNECT TO THE EXISTING BUILDING FIRE ALARM SYSTEM

KEY PLAN



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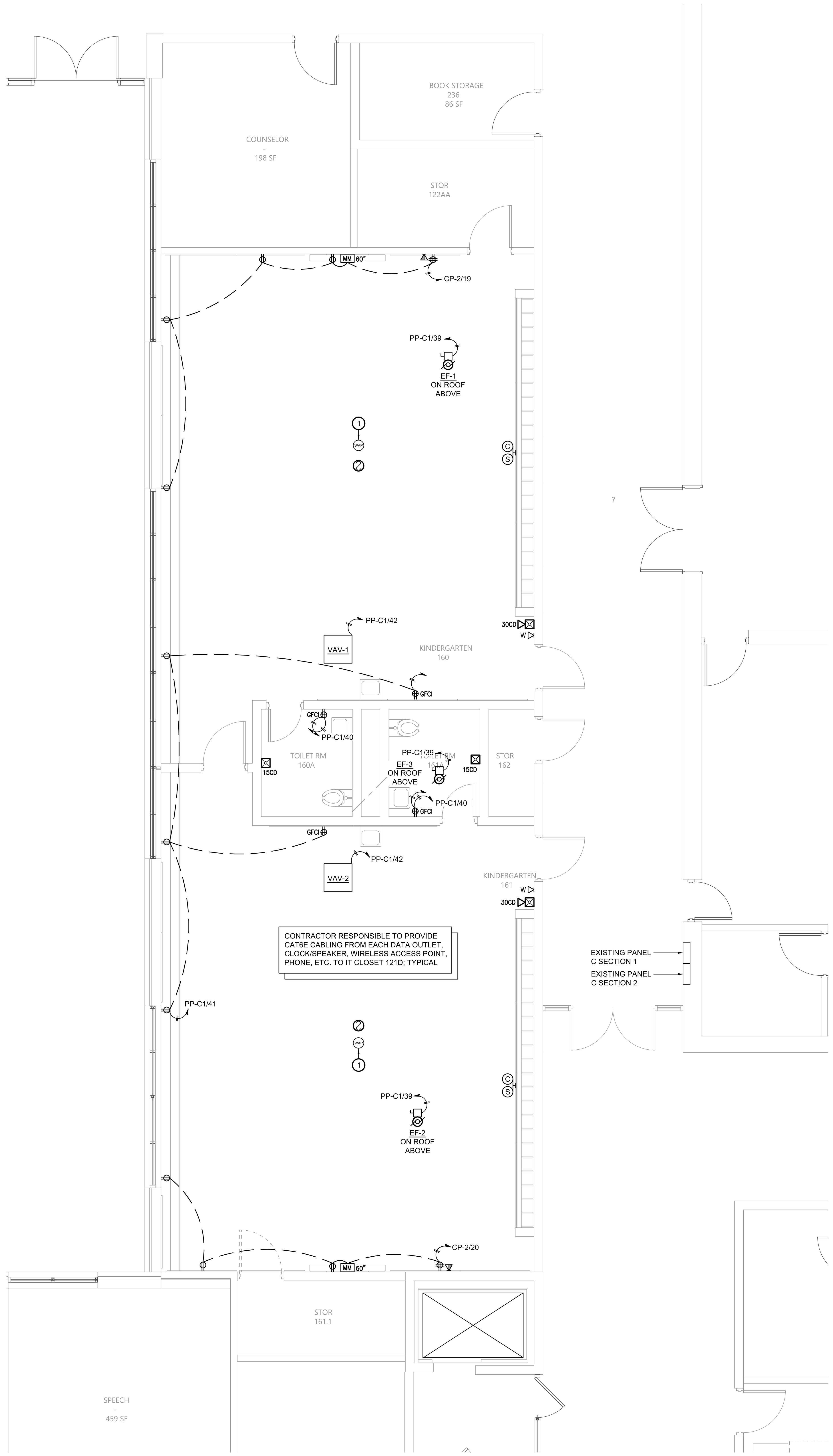
Sheet Title
ELECTRICAL PLAN - PART 1

Sheet No.
BES E111

CONSTRUCTION DOCUMENTS

Key Notes:

1. REINSTALL EXISTING WIRELESS ACCESS POINT; CONNECT TO EXISTING DATA CABLING



1 E112 Electrical Plan - Part 2
Scale: 1/4" = 1'-0"

KEY PLAN
AREA OF WORK

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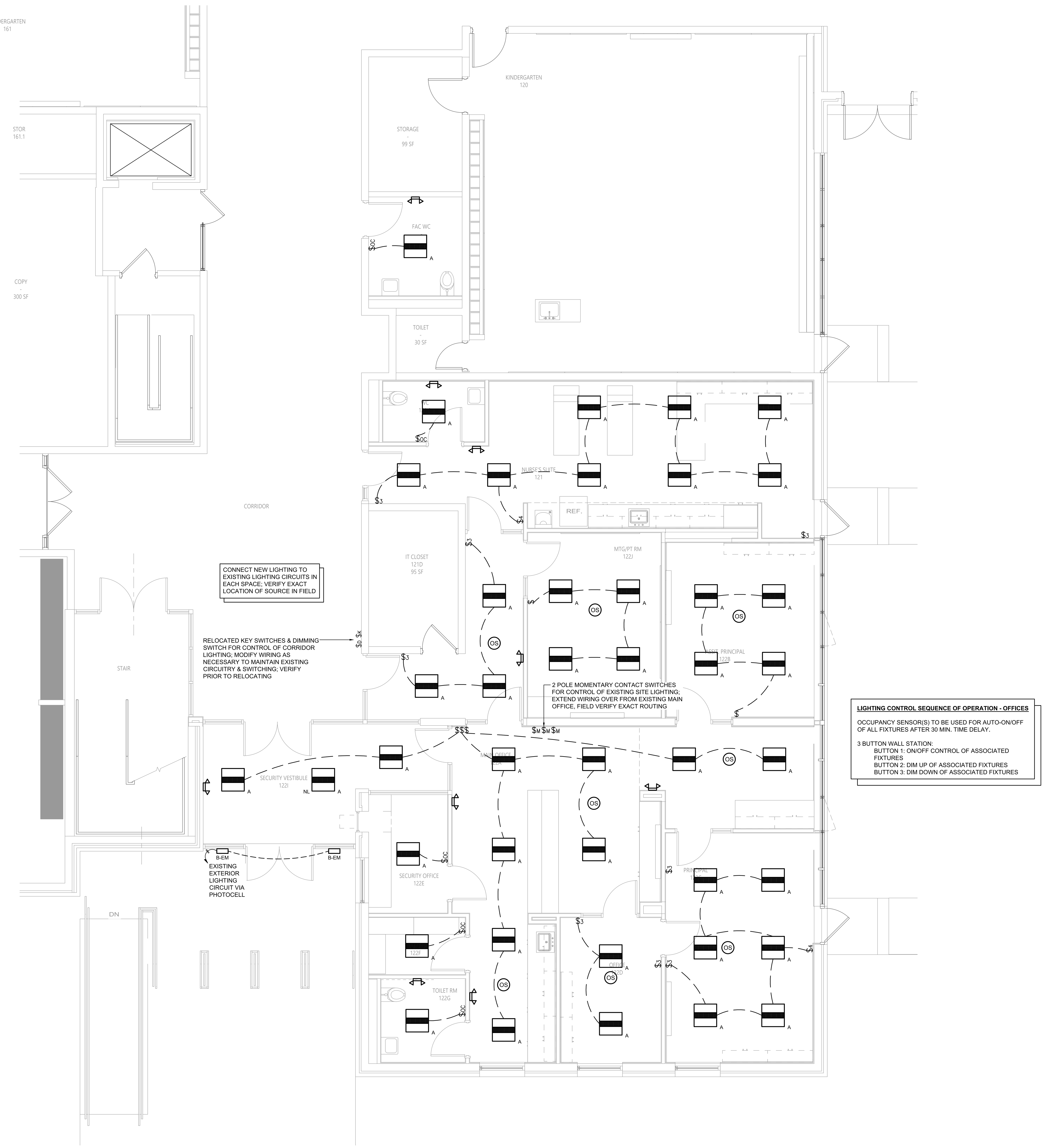
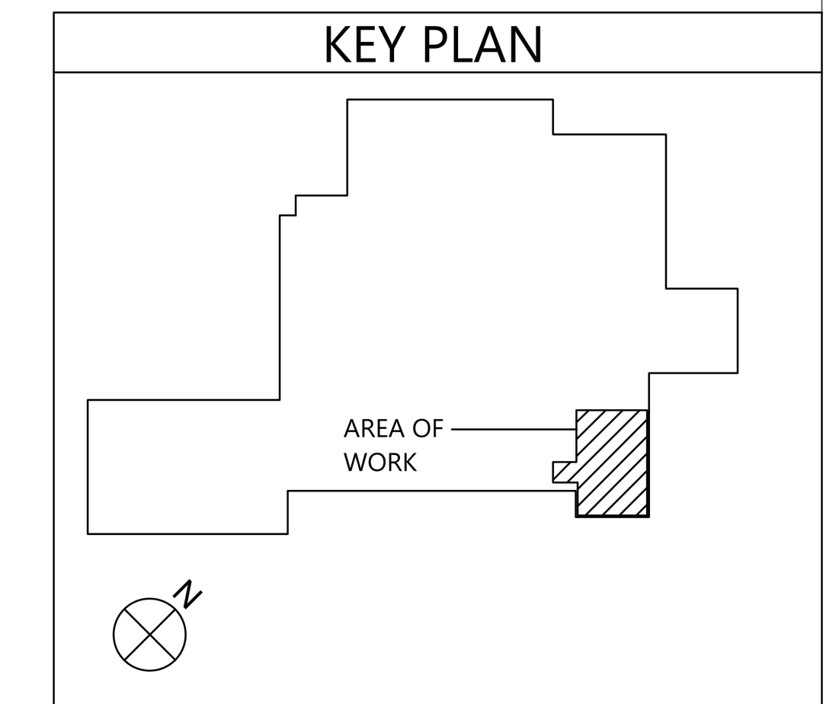
CONSTRUCTION DOCUMENTS



1 E211 Lighting Plan - Part 1
Scale: 1/4" = 1'-0"

KEY PLAN



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Sheet Title
LIGHTING PLAN - PART 1

Sheet No.
BES E211

CONSTRUCTION DOCUMENTS

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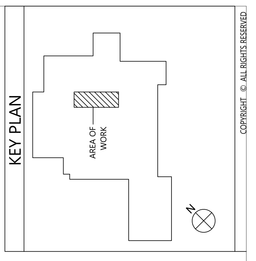
Drawn By: BJK
Checked By: BJK
Proj. #: 44-13-01-06-0-017-014
CSArch Proj. #: 187-230231
Issued for Bid: 10/18/24

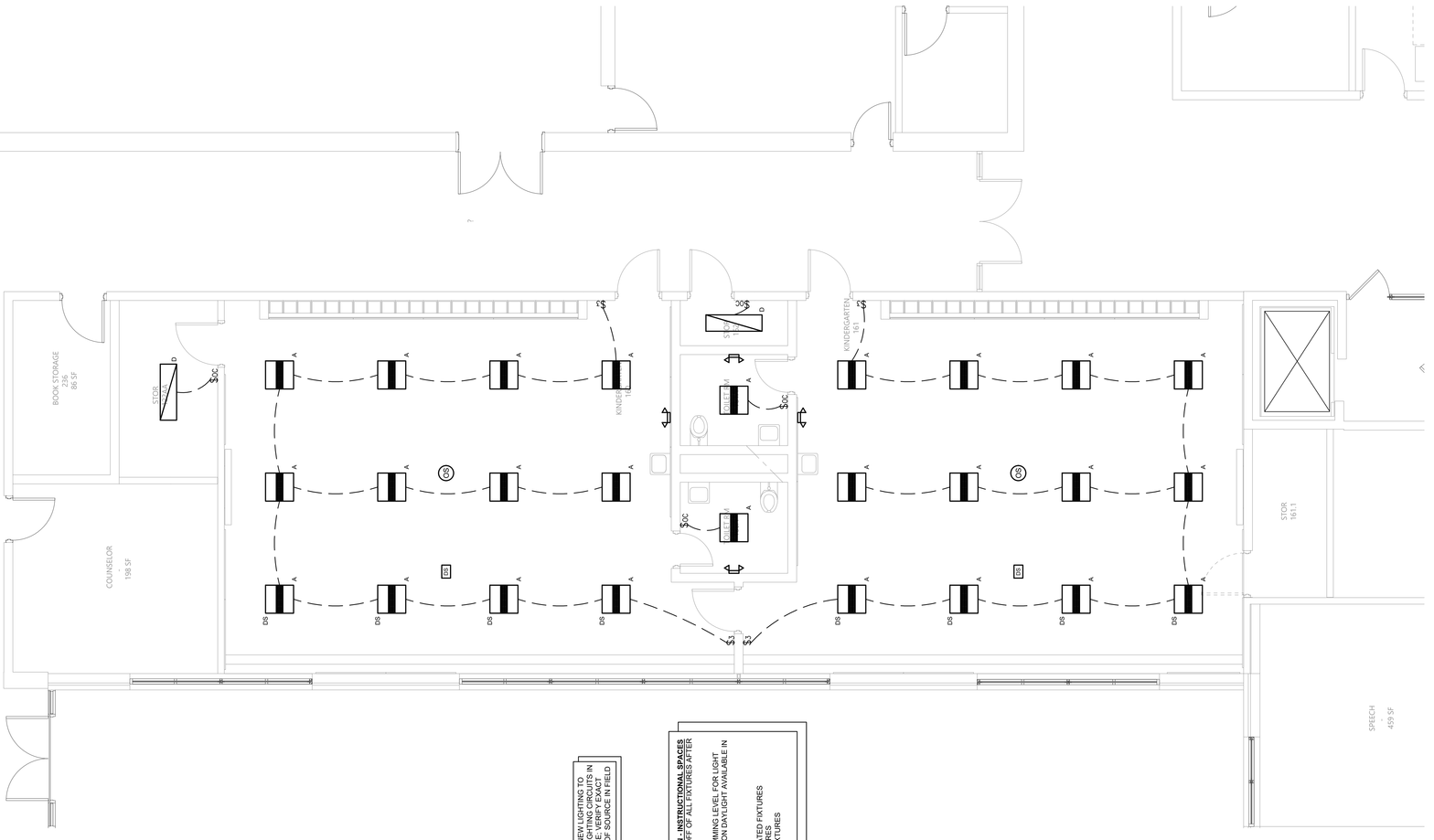
Sheet Title
LIGHTING PLAN - PART 2

Sheet No.
BES E212

CONSTRUCTION DOCUMENTS

KEY PLAN





1 Lighting Plan - Part 2
E212 Scale: 1/4" = 1'-0"