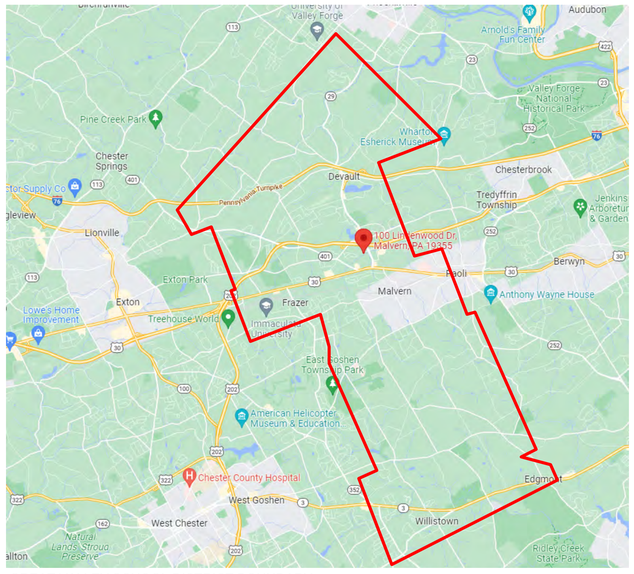
RENOVATIONS TO:

GVSD - DISTRICT ADMINISTRATION OFFICE

100 LINDENWOOD DRIVE
MALVERN, PA 19355



GREAT VALLEY SCHOOL DISTRICT BOUNDARY

DISTRICT ADMINISTRATION OFFICE SITE

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CS.1 COVER SHEET

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FP101 FIRST FLOOR PLAN - FIRE PROTECTION

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
t 215 482 7440
p 215 482 7441
www.sgarc.com

Consultants:
MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023
SGA PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
COVER SHEET

Drawing Number:
CS.1

CONFORMED DRAWINGS

CODE COMPLIANCE:

PA Uniform Construction Code, Act 45 of 1999 (PAUCC)
ICC 2018 PA Adopted Sections
ICC 2018 PA Adopted Accessibility Code Sections (IBC, IEBC, IPC, ISPSC)
2018 International Building Code, Chapter 11 and Appendix "E" (ADA)
ICC ANSI A117.1-2009 (ADA)
2018 International Building Code (IBC)
2018 International Energy Conservation Code (IECC)
2018 International Existing Building Code
2018 International Fire Code (IFC)
2018 International Fuel Gas Code (IFGC)
2018 International Mechanical Code (IMC)
2018 International Plumbing Code (IPC)
2017 International Electrical Code (IEC)
2016 NFPA 13 (Sprinklers)
2016 NFPA 72 (Alarms)

PROJECT DESCRIPTION: THE PROJECT INCLUDES RENOVATION OF AN EXISTING 18,153 SF BUILDING ON 100 LINDENWOOD DRIVE, IN MALVERN, PA. JURISDICTION: EAST WHITELAND TOWNSHIP. WORK INCLUDES INTERIOR DEMOLITION AND INTERIOR FIT-OUT FOR NEW DISTRICT OPERATIONS OFFICES FOR THE GREAT VALLEY SCHOOL DISTRICT.

INTERNATIONAL EXISTING BUILDING CODE, 2018

CHAPTER 5: CLASSIFICATION OF WORK

SECTION 505: ALTERATION LEVEL 3
505.1 SCOPE
LEVEL 3 ALTERATIONS APPLY WHERE THE WORK AREA EXCEEDS 50 PERCENT OF THE BUILDING AREA.

INTERNATIONAL BUILDING CODE, 2018

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION

SECTION 302: CLASSIFICATION
BUSINESS, GROUP B
ACCESSORY ASSEMBLY, GROUP A-3

CHAPTER 6: TYPES OF CONSTRUCTION

TABLE 601: FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

CONSTRUCTION TYPE IIB (ASSUMED)

STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES):	0
BEARING WALLS (INTERIOR, EXTERIOR):	0
NON-BEARING WALLS (INTERIOR, EXTERIOR):	0
FLOOR CONSTRUCTION (INCLUDING BEAMS & JOISTS):	0
ROOF CONSTRUCTION (INCLUDING BEAMS & JOISTS):	0

CHAPTER 8: INTERIOR FINISHES

SECTION 803: WALL AND CEILING FINISHES
SECTION 803.1.1: INTERIOR WALL AND CEILING FINISH MATERIALS
- CLASS A: FLAME SPREAD 0-25; SMOKE-DEVELOPED INDEX 0-450
- CLASS B: FLAME SPREAD 26-75; SMOKE-DEVELOPED INDEX 0-450
- CLASS C: FLAME SPREAD 76-200; SMOKE-DEVELOPED INDEX 0-450

TABLE 803.13: INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY GROUP B / SPRINKLERED

- EXIT ENCLOSURES AND EXIT PASSAGEWAYS	B
- CORRIDORS	C
- ROOMS AND ENCLOSED SPACES	C

SECTION 804: INTERIOR FLOOR FINISH
SECTION 804.4.1: MINIMUM CRITICAL RADIANT FLUX
INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS IN EXIT ENCLOSURES, EXT PASSAGEWAYS AND CORRIDORS SHALL NOT BE LESS THAN CLASS I IN GROUPS I-1, I-2 AND I 3 AND NOT LESS THAN CLASS II IN GROUPS A,B,E,H,I-4,M,R-1,R-2 AND S. IN ALL AREAS, FLOOR COVERING MATERIALS SHALL COMPLY WITH THE DOC FF-1 "PILL TEST" (CPSC 16 CFR, PART 1630).
EXCEPTION: WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2, CLASS II MATERIALS ARE PERMITTED IN ANY AREA WHERE CLASS I MATERIALS ARE REQUIRED AND MATERIALS COMPLYING WITH DOC FF-1 "PILL TEST" (CPSC 16 CFR, PART 1630) ARE PERMITTED IN ANY AREA CLASS II MATERIALS ARE REQUIRED.

SECTION 805: COMBUSTIBLE MATERIALS IN TYPES I AND II CONSTRUCTION
SECTION 805.1: APPLICATION
COMBUSTIBLE MATERIALS INSTALLED ON OR EMBEDDED IN FLOORS OF BUILDINGS OF TYPE I OR II CONSTRUCTIONS SHALL COMPLY WITH SECTIONS 805.1.1 THROUGH 805.1.3.
EXCEPTION: STAGES AND PLATFORMS CONSTRUCTED IN ACCORDANCE WITH SECTIONS 410.3 AND 410.4, RESPECTIVELY.

CHAPTER 9: FIRE PROTECTION SYSTEMS

SECTION 903: AUTOMATIC SPRINKLER SYSTEMS
EXISTING BUILDING FULLY EQUIPPED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM.

SECTION 906: PORTABLE FIRE EXTINGUISHERS
SECTION 906.1: WHERE REQUIRED
1. IN NEW AND EXISTING GROUP A,B,E,F,H,I,M,R-1,R-2,R-4 AND S OOCUPANCIES.

OCCUPANCY	
- MINIMUM RATED EXTINGUISHER	2-A
- MAX FLOOR AREA FOR EXTINGUISHER	11,250 SQUARE FEET
- MAXIMUM TRAVEL DISTANCE	75 FEET

SECTION 907: FIRE ALARM AND DETECTION SYSTEMS
SECTION 907.2.2: GROUP B
A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP B OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:
1. THE COMBINED GROUP B OCCUPANT LOAD OF ALL FLOORS IS 500 OR MORE.
2. THE GROUP B OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE.
3. THE FIRE AREA CONTAINS AN AMBULATORY CARE FACILITY.
EXCEPTION: MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 AND THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATER FLOW.

CHAPTER 10: MEANS OF EGRESS

SECTION 1004: OCCUPANT LOAD
TABLE 1004.1.1: MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

- ACCESSORY STORAGE AREAS	300 GROSS
- ASSEMBLY WITHOUT FIXED SEATS (CONCENTRATED)	7 NET
- ASSEMBLY WITHOUT FIXED SEATS (UNCONCENTRATED)	15 NET

SECTION 1005: EGRESS WIDTH
SECTION 1005.1: MINIMUM REQUIRED EGRESS WIDTH
THE TOTAL WIDTH OF MEANS OF EGRESS IN INCHES SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY 0.3 INCHES PER OCCUPANT FOR STAIRWAYS AND BY 0.2 INCHES PER OCCUPANT FOR OTHER EGRESS COMPONENTS.
SECTION 1005.2: DOOR ENCROACHMENT
DOORS, WHEN FULLY OPENED, AND HANDRAILS SHALL NOT REDUCE THE REQUIRED MEANS OF EGRESS WIDTH BY MORE THAN 7 INCHES.

SECTION 1017: EXIT ACCESS TRAVEL DISTANCE
SECTION 1017.1: GENERAL
TRAVEL DISTANCE WITHIN THE EXIT ACCESS PORTION OF THE MEANS OF EGRESS SYSTEM SHALL BE IN ACCORDANCE WITH THIS SECTION.

TABLE 1016.1: EXIT ACCESS TRAVEL DISTANCE
GROUP B - FULLY SPRINKLERED: 300 FEET

SECTION 1022: NUMBER OF EXITS AND CONTINUITY
SECTION 1022.1: GENERAL
EXITS SHALL COMPLY WITH SECTION 1022 THROUGH 1027 AND APPLICABLE REQUIREMENTS OF SECTIONS 1003 THROUGH 1015. AN EXIT SHALL NOT BE USED FOR ANY PURPOSE THAT INTERFERES WITH ITS FUNCTION AS A MEANS OF EGRESS. ONCE A GIVEN LEVEL OF EXIT PROTECTION IS ACHIEVED, SUCH A LEVEL OF PROTECTION SHALL NOT BE REDUCED UNTIL ARRIVAL AT THE EXIT DISCHARGE. EXITS SHALL BE CONTINUOUS FROM THE POINT OF ENTRY INTO THE EXIT TO THE EXIT DISCHARGE.

SECTION 1028: EXIT DISCHARGE
SECTION 1028.1: GENERAL
EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER A BUILDING. THE COMBINED USE OF EXCEPTIONS 1 AND 2 SHALL NOT EXCEED 50 PERCENT OF THE NUMBER AND MINIMUM WIDTH OR REQUIRED CAPACITY OF THE REQUIRED EXITS.

CHAPTER 11: ACCESSIBILITY

SECTION 1109: OTHER FEATURES AND FACILITIES
SECTION 1109.2.2: WATER CLOSET COMPARTMENT
WHERE WATER CLOSET COMPARTMENTS ARE PROVIDED IN A TOILET ROOM OR BATHING ROOM, AT LEAST ONE WHEELCHAIR-ACCESSIBLE COMPARTMENT SHALL BE PROVIDED. WHERE THE COMBINED TOTAL WATER CLOSET COMPARTMENTS AND URINALS PROVIDED IN A TOILET ROOM OR BATHING ROOM IS SIX OR MORE, AT LEAST ONE AMBULATORY ACCESSIBLE WATER CLOSET COMPARTMENT SHALL BE PROVIDED IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE COMPARTMENT.
SECTION 1109.5.1: MINIMUM NUMBER
NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR PEOPLE WHO USE A WHEELCHAIR AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR STANDING PERSONS. EXCEPTION: A SINGLE DRINKING FOUNTAIN THAT COMPLIES WITH THE REQUIREMENTS FOR PEOPLE WHO USE WHEELCHAIRS AND STANDING PERSONS SHALL BE PERMITTED TO BE SUBSTITUTED FOR TWO SEPARATE DRINKING FOUNTAINS.

CHAPTER 12: INTERIOR ENVIRONMENT

SECTION 1209: ACCESS TO UNOCCUPIED SPACES
SECTION 1209.3: MECHANICAL APPLIANCES
ACCESS TO MECHANICAL APPLIANCES INSTALLED IN UNDER-FLOOR AREAS, IN ATTIC SPACES AND ON ROOFS OR ELEVATED STRUCTURES SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE.

CHAPTER 29: PLUMBING SYSTEMS (REFERENCE PHILADELPHIA PLUMBING CODE, SECTION P-701.0)

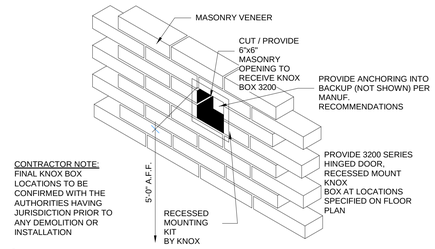
-SEE CHART TO RIGHT OF SHEET A001

SYMBOL KEY

- 1 HOUR FIRE BARRIER
- EGRESS PATHWAY
- INDICATES POINT OF EXIT DISCHARGE
- ### — INDICATES ACTUAL NUMBER OF PERSONS DESIGNATED FOR EGRESS FROM SPACE
- FEC — FIRE EXTINGUISHER CABINET

TRAVEL DISTANCE

MARK	TRAVEL DISTANCE
1A	70' - 9 193/256"
1B	126' - 9 79/256"
1C	117' - 11 19/64"



CONTRACTOR NOTE:
FINAL KNOX BOX LOCATIONS TO BE CONFIRMED WITH THE AUTHORITIES HAVING JURISDICTION PRIOR TO ANY DEMOLITION OR INSTALLATION

2 KNOX BOX DETAILS
A001 SCALE: 1" = 1'-0"

BUILDING CONSTRUCTION DATA (CHAPTER 5 OF IBC 2015)

AREA	GROUP	CONSTRUCTION TYPE	BUILDING AREA	ALLOWABLE AREA	MAXIMUM HEIGHT	ALLOWABLE HEIGHT
FIRE AREA 1	BUSINESS - 'B'	* IIB - ANY NONCOMBUSTIBLE MATERIAL PERMITTED BY CODE	18,153 SF	** 43,500 SF	14'-8"	75 FEET, 3 STORIES

OCCUPANCY 'E'; SM = BUILDINGS TWO OR MORE STORIES ABOVE GRADE PLANE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1

* EXCEPTIONS PERMITTED BY SECTION 603, COMBUSTIBLE MATERIAL IN TYPE I AND II CONSTRUCTION.

** FRONTAGE INCREASE ALLOWED BY CODE, BUT NOT NEEDED FOR CONFORMANCE WITH ALLOWABLE AREA CALCULATION; THEREFORE NOT INCLUDED.

OCCUPANCY CALCULATIONS (CHAPTER 10 OF IBC 2015)

BUSINESS OCCUPANCY

16,238 SF / 150 GROSS = 109 OCCUPANTS

ASSEMBLY A-3 OCCUPANCY

1,915 SF / 7 NET = 273 OCCUPANTS

382 TOTAL OCCUPANTS

INTERNATIONAL PLUMBING CODE (TABLE 2902.1 MINIMUM NUMBER OF PLUMBING FIXTURES)

TOTAL NUMBER OF FIXTURES REQUIRED:

B OCCUPANCY: 109 OCCUPANTS

WATER CLOSETS
1 PER 25 FOR FIRST 50 AND 1 PER 50 FOR REMAINDER EXCEEDING 50 = 4

LAVATORIES
1 PER 40 FOR FIRST 80 AND 1 PER 80 FOR REMAINDER EXCEEDING 80 = 3

DRINKING FOUNTAINS = 1/100 = 2
SERVICE SINKS = 1 REQUIRED

A-3 OCCUPANCY: 273 OCCUPANTS

WATER CLOSETS
MALE: 1/125 137/125 = 2
FEMALE: 1/65 137/65 = 3

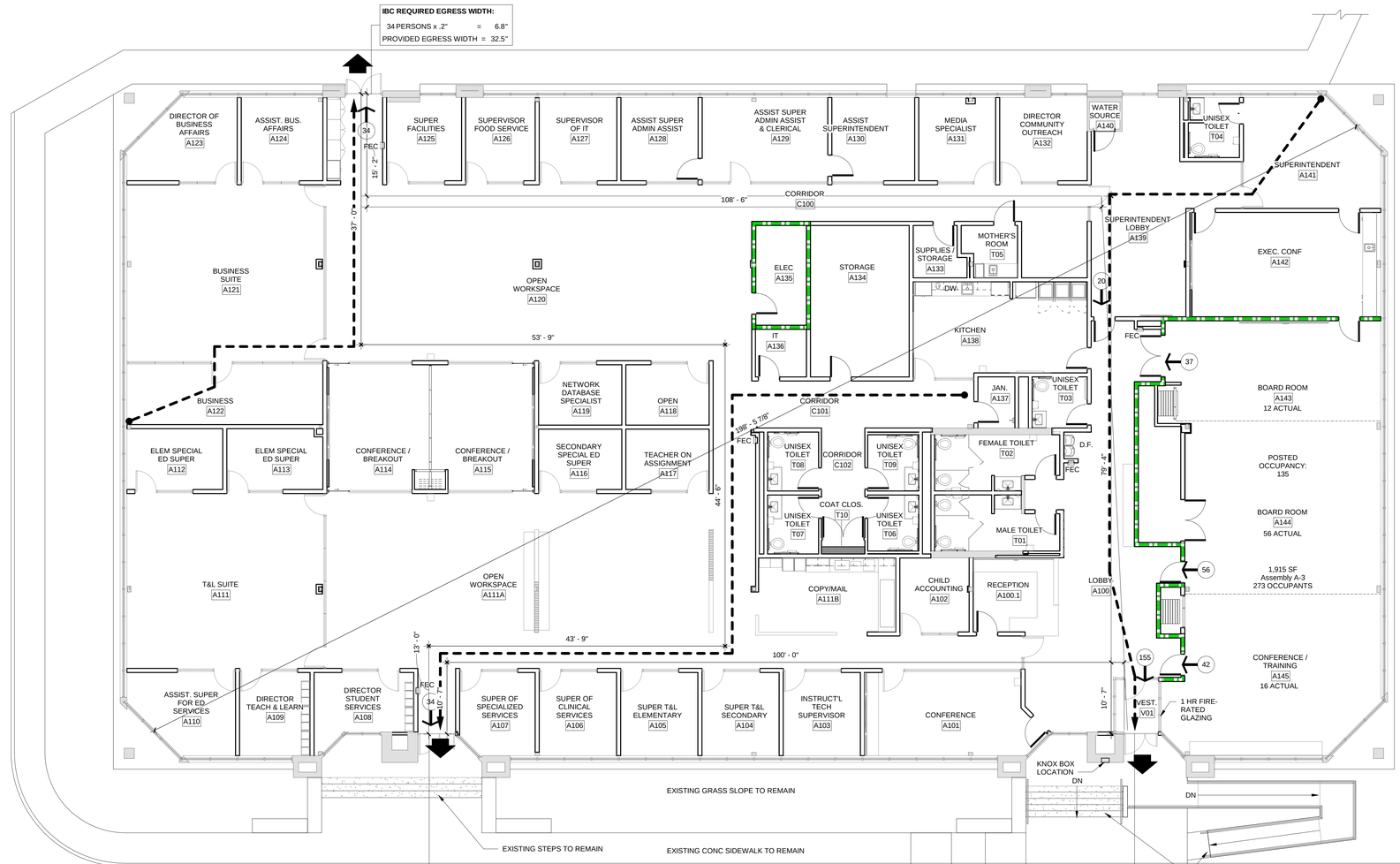
LAVATORIES: 1/200 = 3

DRINKING FOUNTAINS = 1/500 = 1
SERVICE SINKS = 1 REQUIRED

TOTAL NUMBER OF FIXTURES PROVIDED:

WATER CLOSETS
MALE = 2 WATER CLOSETS
FEMALE = 2 WATER CLOSETS
UNISEX = 6 WATER CLOSETS

LAVATORIES = 8 LAVATORIES
DRINKING FOUNTAINS = 2 PLUS BOTTLE FILLER
SERVICE SINKS = 1



1 FIRST FLOOR EGRESS PLAN
A001 SCALE: 1/8" = 1'-0" OCCUPANT LOAD: 122 OCCUPANTS

CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture, LLC
153 E. King Street, Ste 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

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ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023
SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
CODE REVIEW

Drawing Number:
A001

GENERAL NOTES

1. THE CONTRACTOR SHALL INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
2. THE CONTRACTOR SHALL COMPLY AND COORDINATE ALL WORK WITH BUILDING OWNER REGARDING HEAT, WATER, ELECTRICITY, DELIVERIES, ACCESS, ELEVATOR AVAILABILITY, NOISE CONTROL, TRASH AND DEBRIS REMOVAL, HOISTING, AND ANY OTHER UTILITIES OR OWNER'S RULES AND REGULATIONS CONCERNING THE PROJECT SITE.
3. THE CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND THE ACTUAL INSTALLATION OF ITEMS FURNISHED BY OWNER OR BY OTHERS.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND IS RESPONSIBLE FOR ALL PHASES INCLUDING BIDDING, FABRICATION, COORDINATION AND CONSTRUCTION. CONTRACT DRAWINGS ARE NOT INTENDED TO REPRESENT EXACT DIMENSIONS.
5. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
6. THE CONTRACTOR SHALL SUBMIT FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION OR PURCHASE, SHOP DRAWINGS OR SAMPLES FOR ALL MILLWORK, CUSTOM METALWORK, CUSTOM CASEWORK, AND ALL OTHER ITEMS AS REQUESTED BY THE ARCHITECT FOR ALL ABOVE BUILDING STANDARD ITEMS.
7. CHANGES IN DRAWINGS OR ACTUAL WORK MUST BE ISSUED BY THE ARCHITECT.
8. PERFORM ALL WORK AND INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF WORKMANSHIP.
9. THE CONTRACTOR SHALL EXAMINE ALL SURFACES TO DETERMINE THAT THEY ARE SOUND, DRY, CLEAN AND READY TO RECEIVE FINISHES PRIOR TO INSTALLATION. START OF INSTALLATION SHALL IMPLY ACCEPTANCE OF SUBSTRATE AND SHALL NOT BE GROUNDS FOR CLAIMS AGAINST IMPROPER PERFORMANCE OF INSTALLED MATERIALS. ADVISE ARCHITECT OF ANY EXISTING CONSTRUCTION NOT LEVEL, SMOOTH AND PLUMB WITHIN INDUSTRY STANDARDS PRIOR TO START OF CONSTRUCTION.
10. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL NECESSARY COVERINGS, PROTECTIVE ENCLOSURES, TEMPORARY DOORS AND PARTITIONS AND DUST BARRIERS TO PROTECT ALL OCCUPANTS AND EXISTING WORK AND FINISHES TO REMAIN. LOCATION OF SUCH PROTECTION SHALL BE VERIFIED WITH OWNER AND LOCAL CODE OFFICIALS FOR EGRESS CONFORMANCE. PRIOR TO COMMENCING WORK AND IN COORDINATION WITH PROGRESSION OF WORK SCHEDULE. PERFORM WORK IN A MANNER THAT WILL AVOID HAZARDS TO PERSONS IN ADJACENT AREAS AND THAT WONT INTERFERE WITH WORK OR PASSAGE TO ANY OF THESE AREAS. REPAIR AND REPLACE ANY DAMAGES CAUSED BY IMPROPER PROTECTIONS AT NO ADDITIONAL CHARGE TO OWNER.
11. WORK DAMAGED DURING CONSTRUCTION OR NOT CONFORMING TO SPECIFIED STANDARDS, TOLERANCES OR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE REPLACED, BY THE CONTRACTOR, AT NO ADDITIONAL CHARGE TO THE OWNER.
12. THE CONTRACTOR SHALL MAINTAIN ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND LIFE SAFETY SYSTEMS IN WORKING ORDER. CONTRACTOR TO PROVIDE TEMPORARY FIRE EXTINGUISHERS DURING THE COURSE OF CONSTRUCTION AS REQ'D BY THE AUTHORITIES HAVING JURISDICTION .
13. EXIT DOORS, EGRESS DOORS, AND OTHER DOORS REQUIRED FOR MEANS OF EGRESS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
14. CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES, AND RESTRICTIONS RELATED TO THE EXECUTION OF WORK. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
15. ALL WOOD BLOCKING IN FIRE RATED ASSEMBLIES TO BE FIRE RETARDANT.
16. ALL WOOD ON EXTERIOR WALLS AND ROOF TO BE MOISTURE RESISTANT.
17. IN ALL INSTANCES WHERE WORK IS BEING CORRECTED OR REPAIRED, CONTRACTOR IS TO REPAINT ENTIRE WALL TO NEAREST CORNER OR BREAK-LINE WHERE WALL CHANGES DIRECTION.
18. CONTRACTOR TO COORDINATE WITH E.C. THE MOUNTING HEIGHT OF ALL SWITCHES AND OUTLETS AT MILLWORK, COUNTERS, SHELVING, SINKS, ETC.
19. CONTRACTOR IS TO PROVIDE ALL MISC. FRAMING, BLOCKING, ETC. TO HANG SCREENS, BULLETIN BOARDS, RAILS, TOILET ACCESSORIES, WOODWORK, ETC.
20. ALL MASONRY VENEER SHELVES TO TERMINATE A MINIMUM OF 8" BELOW PROPOSED FINISHED GRADE. REFERENCE CIVIL DRAWINGS FOR PROPOSED GRADING.
21. CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AND GYPSUM BOARD CEILINGS SHALL BE SPACED AS FOLLOWS:

PARTITIONS	- 30 FT. MAXIMUM IN EITHER DIRECTION.
INTERIOR CEILINGS	- 30 FT. MAXIMUM IN EITHER DIRECTION.
EXTERIOR CEILINGS	- 30 FT. MAXIMUM IN EITHER DIRECTION.

22. ALL PENETRATIONS THROUGH RATED WALLS ARE TO BE SEALED TO MAINTAIN INTEGRITY OF WALL CONSTRUCTION AND RATING (ASTM E814 SYSTEM BY 3M, HILTI, OR SIM).
23. ALL INSULATION EXPOSED TO CEILING PLENUM IS TO BE FIRE AND DUST PROOF.
24. ALL NEW SUPPLY AIR AND RETURN GRILLES SHALL BE LOCATED IN THE CENTER LINE OF ACOUSTICAL TILES UNLESS OTHERWISE INDICATED ON PLANS.
25. CONTRACTOR SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS WHEN RELOCATING AND/OR INSTALLING ANY EQUIPMENT AND FURNISHINGS.
26. CONTRACTOR SHALL VERIFY EQUIPMENT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
27. ALL PENETRATIONS THROUGH DRYWALL AND MASONRY SURFACES INCLUDING BUT NOT LIMITED TO PIPE, CONDUIT, DUCTWORK, GRILLES, REGISTERS, DEVICE BOXES, HANGER RODS, ETC. SHALL HAVE THEIR COMMON JOINTS WITH DRYWALL AND/OR MASONRY CAULKED TO PROVIDE AN AIR-TIGHT SEAL.
28. CONTRACTOR TO REMOVE ANY STRAY PAINT, DIRT, OR STAINS INCURRED DURING THE CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY EQUIPMENT COVERINGS USED DURING CONSTRUCTION AND HE SHALL ALSO BE RESPONSIBLE FOR REMOVING HIS TRASH OFF OF THE JOB SITE DAILY.
29. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND WELDING IN COMPLIANCE WITH THE PUBLISHED STANDARDS OF NFPA. THE CONTRACTOR SHALL PROVIDE FIRE WATCHES FOR ALL CUTTING, GRINDING, AND WELDING OPERATIONS. THE TRAINING OF THESE FIRE WATCHES AND THE USE OF THE CONTRACTOR'S SUPPLIED FIRE EXTINGUISHERS IS THE RESPONSIBILITY OF THE CONTRACTOR.
30. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DETAILS OF UTILITY WALL PENETRATIONS.
31. ALL FIXTURES LABELED " ♿ " INDICATE HANDICAP ACCESSIBLE FIXTURES.
32. WHERE TWO DISSIMILAR METALS MEET, PAINT FACE OF ONE WITH BITUMINOUS PAINT.
33. ALL EXTERIOR ENTRANCE DOORS AND FRAMES TO RECEIVE PERIMETER WEATHER STRIPPING AS PER SPECIFICATIONS.
34. CONTRACTOR IS TO PROVIDE STUD BRACING AS REQUIRED FOR METAL STUD PARTITIONS ABOVE 10'-0".
35. ALL MASONRY WEEP HOLES MUST BE LOCATED ABOVE GRADE, CONCRETE WALKS, PAVEMENT MULCH, ETC. DO NOT COVER UNDER ANY CIRCUMSTANCES. CONTRACTOR IN CHARGE OF MASONRY WORK IS RESPONSIBLE FOR COORDINATING WITH ALL CIVIL WORK (TYPICAL).
36. ANY AREA OUTSIDE THE LIMITS OF CONSTRUCTION DISTURBED BY OPERATIONS OF THE CONTRACTOR SHALL BE RESTORED AT THE CONTRACTORS EXPENSE.
37. ALL CONCRETE WALKS, ASPHALT, CURBS AND LANDSCAPING DAMAGED DURING CONSTRUCTION ARE TO BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
38. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL WEEP JOINTS AROUND WINDOWS AND EXTRUDED ALUM. STORE FRONTS FREE OF CAULK.
39. 2 X 6 CONTINUOUS WOOD BLOCKING SHALL BE PROVIDED AT DRYWALL PARTITIONS FOR ALL CABINET WORK AT TOP AND BOTTOM OF WALL MOUNTED UNITS AND UNDER COUNTER TOP LEVEL OF BASE CABINET. ALL OPEN-FACE SHELVING UNITS SHALL HAVE CONCEALED ANCHOR BRACKETS.
40. ALL EXTERIOR WINDOWS, DOORS, LOUVERS, VENTS, EXHAUST FANS, PIPE PENETRATIONS, AND ALL OTHER PENETRATIONS THRU EXTERIOR WALLS SHALL BE SEALED AROUND ENTIRE PERIMETER WITH SEALANT. (BOTH ON EXTERIOR AND INTERIOR SIDES), EXCEPT AS NOTED IN NOTE 38.
41. ALL INTERIOR PARTITIONS WHICH RECEIVE CERAMIC TILE SHALL BE FRAMED WITH 20 GA. MIN. STUDS AT 12" O.C. W/ HORIZONTAL COLD ROLLED STIFFENER CHANNELS AT 4'-0" O.C. (MAX.) AND EXTEND FROM FINISHED FLOOR TO STRUCTURE ABOVE. 20 GA. DIAGONAL STUD KICKERS MUST ALSO BE INSTALLED AT EVERY OTHER VERTICAL STUD ABOVE CEILING.
42. FIRE EXTINGUISHER CABINETS TO BE MOUNTED 4'-0" A.F.F. TO TOP MAXIMUM IN ACCORDANCE ACCESSIBILITY REQUIREMENTS. (FIRE EXTINGUISHERS WITH GROSS WEIGHT OVER 40LBS. MUST BE MOUNTED 3'-6" MAX.). CLEARANCE BETWEEN THE BOTTOM OF THE FLOOR AND THE EXTINGUISHER MAY NOT BE LESS THAN 4".)

TYPICAL ABBREVIATIONS:

AP	ACOUSTICAL PANEL
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM, AL	ALUMINUM
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ATTCHMT	ATTACHMENT
BD	BOARD
BLDG	BUILDING
BLK	BLOCK(ING)
BM	BEAM
B.O.S.	BOTTOM OF SLAB
BRG	BEARING
BRK	BRICK
BTM	BOTTOM
BYND	BEYOND
CJ	CONTROL OR CONSTRUCTION JOINT
CLO.	CLOSET
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
COV	COVER
CPT	CARPET
CT/CER	CERAMIC TILE/CERAMIC
C.U.H.	CABINET UNIT HEATER
CW	CURTAINWALL
D (or) DRN	DRAIN
DBL	DOUBLE
DET	DETAIL
D.F.	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DIV. STRIP	DIVIDER STRIP
DN	DOWN
DP	DAMPPROOF(ING)
DR	DOOR
D.S.	DOWN SPOUT
DT	DRAIN TILE
D.W.	DISH WASHER
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EJC	EXPANSION JOINT COVER
EIFS	EXTERIOR INSUL. FINISH SYSTEM
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EXG	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FRESH AIR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
F.F. / FIN. FL.	FINISH FLOOR

FIN	FINISH
FL.	FLOOR
FLSH	FLASHING
FLUOR	FLUORESCENT
F.O.S.	FACE OF STUDS
FR(G)	FRAME(ING)
FRTW	FIRE RATED TREATED WOOD
FT	FEET OR FOOT
FUR	FURRING
FVC	FIRE VALVE CABINET
GA	GAGE OR GAUGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
GL	GLASS
GM	GALVANIZED METAL
GR	GRADE
GWB	GYPSUM WALL BOARD
GYP.BD / GWB	GYPSUM BOARD
H.B.	HOSE BIB
H.C.	HOLLOW CORE
"H"	HANDICAPPED ACCESSIBLE
HDW	HARDWARE
HDWD	HARDWOOD
H.M.	HOLLOW METAL
HOR	HORIZONTAL
HT	HEIGHT
HTR	HEATER
I.D.	INSIDE DIAMETER
INFO	INFORMATION
INSUL	INSULATION OR INSULATED
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JT	JOINT
KO	KNOCKOUT
LAM	LAMINATE
LAV	LAVATORY
LP	LOW POINT
LT	LIGHT
MFGR / MANUF.	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBM	METAL BUILDING MANUFACTURER
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
M.O.	MASONRY OPENING
MOV	MOVABLE
M.T.	MARBLE THRESHOLD
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NO.	NUMBERS
NTS	NOT TO SCALE

O.C.	ON CENTER
OFF	OFFICE
O.H.	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
O.S.B.	ORIENTED STRAND BOARD
OVHD	OVERHEAD
P.LAM.	PLASTIC LAMINATE
PTN	PARTITION
P.C.PL	PORTLAND CEMENT PLASTER
P.H.	PAPER HOLDER
PL	PROPERTY LINE
PLAS	PLASTER
PLUM	PLUMBING
PNL	PANEL
PNT	PAINT
POL	POLISHED
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTS	POINTS
P.T.	PRESSURE TREATED
PWD	PLYWOOD
Q.T.	QUARRY TILE
R	RADIUS
R. VENT	RANGE VENT
REF	REFERENCE
REINF	REINFORCE, REINFORCED
REQ'D.	REQUIRE(D)
RET	RETURN
REV	REVISE, REVISION
RM	ROOM
R.O.	ROUGH OPENING
RSTRM	RESTROOM
SA	SELF-ADHERED
SAN	SANITARY
SAN. ST.	SANITARY STACK
SCR	SCREEN
SEC	SECTION
SCHED	SCHEDULE(D)
SCU	SELF-CONTAINED UNIT
SF	SQUARE FOOT (FEET)
SG	SCHRADERGROUP
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SP	STANDPIPE
SPLSH. BLK.	SPLASH BLOCK
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SOLID SURFACE
SSTL	STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWINGS
STN	STAIN(ED)
STL	STEEL
STG/STOR	STORAGE
STRFRNT	STOREFRONT
STRUCT	STRUCTURAL, STRUCTURE
SUSP	SUSPEND(ED)

T	TEMPERED
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TACKBOARD
TEMP	TEMPORARY
TH	THRESHOLD
THK	THICK(NESS)
THRU	THROUGH
T.O.C.	TOP OF CURB
T.O.M.	TOP OF MASONRY
T.O.	TOP OF
T.O.S.	TOP OF STEEL
TPFS	THROUGH-PENETRATION FIRE SAFING
TRTD	TREATED
TYP	TYPICAL
U.L.	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
V	VENT
VCT	VINYL COMPOSITION TILE
VENT.	VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
V.I.F.	VERIFY IN FIELD
V.W.C.	VINYL WALL COVERING
VOL	VOLUME
W	WIDTH
W/	WITH
WxH	WIDTH x HEIGHT
WB	WHITE BOARD
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WK	WORK
WP	WORK POINT
WPF	WATERPROOF
WSHP	WATER SOURCE HEAT PUMP
WT	WEIGHT
&	AND
@	AT
'	FEET
"	INCHES
#	POUNDS

SYMBOL LEGEND

NEW STUD WALL
NEW MASONRY WALL
EXISTING WALL / CONSTRUCTION
NEW DOOR
EXISTING DOOR
EXISTING WALL / CONSTRUCTION TO BE DEMOLISHED
EXISTING DOOR TO BE DEMOLISHED
NEW WINDOW, STOREFRONT OR CURTAINWALL
COLUMN GRID LINE
ELEMENT ABOVE OR HIDDEN LINE
CENTERLINE
BREAKLINE
DIMENSION (TO CENTER LINE)
DIMENSION (TO FRAMING)

TYPICAL — DETAIL NUMBER — SHEET NUMBER — EXTERIOR ELEVATION TAG
INTERIOR ELEVATION TAG
TYPICAL — DETAIL NUMBER — SHEET NUMBER — DETAIL TAG
WALL SECTION TAG
BUILDING SECTION TAG
DETAIL CALL-OUT TAG
ROOM NAME / ROOM # — ROOM TAG
PARTITION TAG
DOOR TAG
WINDOW TAG

DEMO TAG - OBJECT(S)
DEMO TAG - EXTENTS
HEIGHT — TYPE — FINISH — CEILING TAG
TYPE — WIDTH — HEIGHT — MOUNTING HEIGHT — VISUAL DISPLAY UNIT TAG
TYPE — WIDTH — HEIGHT — DEPTH — CASEWORK TAG
LOCKER TAG
TOILET ACCESSORY TAG
NAME / ELEVATION — ELEVATION MARKER
0'-0" — SPOT ELEVATION
F.E.C. — NEW PARTIALLY RECESSED FIRE EXTINGUISHER CABINET
DENOTES ADA ACCESSIBILITY

BASE — WALL — CASEWORK
TOILET (WALL MOUNTED)
TOILET (FLOOR MOUNTED)
URINAL
SINK / LAVATORY
MOP SINK
ELECTRIC WATER COOLER
ROOF DRAIN
OD — EMERGENCY OVERFLOW ROOF DRAIN
REVISION CLOUD & TAG

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer

Address

Contact

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

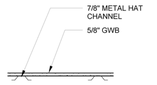
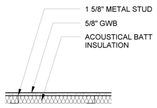
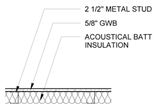
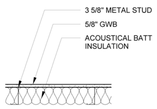
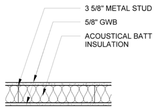
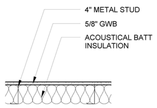
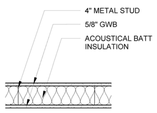
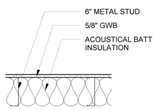
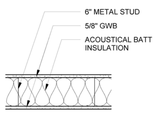
Key Plan:

Drawing Title:
GENERAL NOTES AND ABBREVIATION

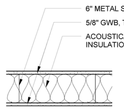
Drawing Number:
A002

CONFORMED DRAWINGS

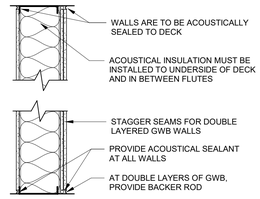
PARTITION SCHEDULE

WALL TYPE	WALL CONSTRUCTION	WALL FRAMING			WALL RATING		
		TYPE	SIZE	SPACING	FIRE RATING	UL#	STC
H7A	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	7/8"	16" O.C.	-	-	-
S1A	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	1 5/8"	16" O.C.	-	-	-
S2A	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	2 1/2"	16" O.C.	-	-	-
S3A	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	3 5/8"	16" O.C.	-	-	34
S3C	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	3 5/8"	16" O.C.	-	-	45
S4A	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	4"	16" O.C.	-	-	34
S4C	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	4"	16" O.C.	-	-	40
S6A	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	6"	16" O.C.	-	-	37
S6C	 WALL ASSEMBLY TO UNDERSIDE OF DECK	METAL	6"	16" O.C.	-	-	40

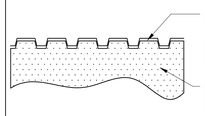
PARTITION SCHEDULE

WALL TYPE	WALL CONSTRUCTION	WALL FRAMING			WALL RATING		
		TYPE	SIZE	SPACING	FIRE RATING	UL#	STC
S6CX	 FIRE RATED WALL ASSEMBLY TO UNDERSIDE OF DECK - PROVIDE TPFS AT ALL VOIDS AND PENETRATIONS	METAL	6"	24" O.C.	1 HR	U419	40

TYPICAL GWB PARTITION DETAIL



TYPICAL FIRE-RATED OR ACOUSTICALLY-RATED GWB PARTITION DETAIL



THIS DETAIL APPLICABLE TO ALL GWB PARTITIONS AND SHAFTWALLS THAT ARE DESIGNED TO IBC TABLE 720.1 AND/OR 'UL' DESIGN STANDARDS PER THE PRECEDING PARTITION TYPES

PARTITION SCHEDULE NOTES:

1. REFERENCE STRUCTURAL DRAWINGS FOR TYPICAL T.O. WALL DETAIL WHEN MASONRY PARTITION IS CONTINUOUS TO UNDERSIDE OF DECK ABOVE.
2. IN THE EVENT OF THE ROOF STRUCTURE INTERRUPTING A PROPOSED PARTITION'S PATH TO THE UNDERSIDE OF THE DECK, CONTRACTOR IS RESPONSIBLE FOR PROVIDING CLOSURE / PARTITION OF EQUAL OR GREATER FIRE, SOUND AND RESILIENCE RATINGS TO UNDERSIDE OF DECK TO MAINTAIN ALL PROPOSED FIRE, SOUND AND SAFETY RATINGS AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT OF SAID CONFLICT, CONTRACTOR TO SUBMIT ALL PROPOSED PARTITION SUBSTITUTION REQUESTS DUE TO CONFLICTS WITH ROOF FRAMING TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
3. ALL WET WALLS TO RECEIVE MOISTURE RESISTANT GYPSUM WALL BOARD, REFERENCE PLANS FOR LOCATIONS.
4. ALL WALLS UTILIZING WALL WASH LIGHT FIXTURES OR LIGHT FIXTURES LOCATED WITHIN 24" OF WALL ARE TO RECEIVE A 'LEVEL 5' FINISH.
5. ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING PER IBC 703.6'
6. EXTERIOR PARTITION TYPES DO NOT SHOW OR DICTATE INTERIOR FINISHES. WALL CONSTRUCTION SHOWN STOPS AT WALL STRUCTURE / BACK-UP.
7. ALL INTERIOR PARTITIONS WHICH RECEIVE CERAMIC TILE FINISH INSTALLED MORE THAN 5' IN HEIGHT SHALL BE FRAMED WITH 20 GA. MIN. STUDS AT 12" O.C. W/ HORIZONTAL COLD ROLLED STIFFENER CHANNELS AT 4'-0" O.C. (MAX.) AND EXTEND FROM FINISHED FLOOR TO STRUCTURE ABOVE. 20 GA. DIAGONAL STUD KICKERS MUST ALSO BE INSTALLED AT EVERY OTHER VERTICAL STUD ABOVE CEILING.
8. ALL INTERIOR CORRIDOR PARTITIONS ARE TO RECEIVE "IMPACT RESISTANT" GYPSUM WALL BOARD UP TO A MINIMUM OF 10' A.F.F. UNLESS OTHERWISE NOTED. REFERENCE SPECIFICATIONS FOR CLASS OF IMPACT RATED DRYWALL.

PARTITION SCHEDULE LEGEND:

1. PREFIX CODES (CORE TYPES)

S	METAL STUD
M	MASONRY
W	WOOD STUD
H	FURRING / HAT CHANNEL
U	SHAFTWALL

2. FINISH CODES

A	(1) LAYER OF FINISH ON ONE SIDE
B	(2) LAYERs OF FINISH ON ONE SIDE
C	(1) LAYER OF FINISH ON BOTH SIDES
D	(2) LAYER OF FINISH ON BOTH SIDES
E	(1) LAYER OF FINISH ON ONE SIDE, (2) LAYERS ON THE OTHER SIDE

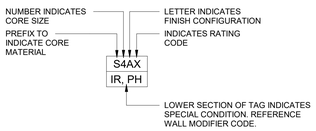
3. RATING CODES

R	BALLISTIC RESISTANT
Q	ACOUSTIC RATED
X	1 HOUR FIRE RATED
Z	2 HOUR FIRE RATED

4. SPECIAL CONDITION CODES

SP	SMOKE PARTITION - SEAL ALL PENETRATIONS AND TOP/BOTTOM OF PARTITION. SEE DETAIL ABOVE.
PH	PARTIAL HEIGHT - FINISH TO TERMINATE 12" ABOVE FINISHED CEILING; FRAMING TO CONTINUE TO DECK ABOVE
MR	MOISTURE RATED GYPSUM WALL BOARD
CB	1/2" CEMENT BACKING PANEL; PROVIDE 1/2" GWB ABOVE WHERE WALL TILE STOPS IN ORDER TO PROVIDE FLUSH FINISH.
PW	PROVIDE 3/4" FIRE RATED TREATED PLYWOOD BEHIND FINISH
IR	IMPACT RESISTANT GYPSUM WALL BOARD TO 10' ABOVE FINISHED FLOOR
NB	BATT INSULATION IS NOT REQUIRED
HW	HALF HEIGHT WALL, REFERENCE DETAILS FOR SPECIFIC WALL HEIGHT
CT	WALL RECEIVES CERAMIC TILE FINISH OVER 5', REFERENCE GENERAL NOTE 41 ON A003.

PARTITION TAG SYMBOL LEGEND:



SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:

Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer

Address

Contact

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

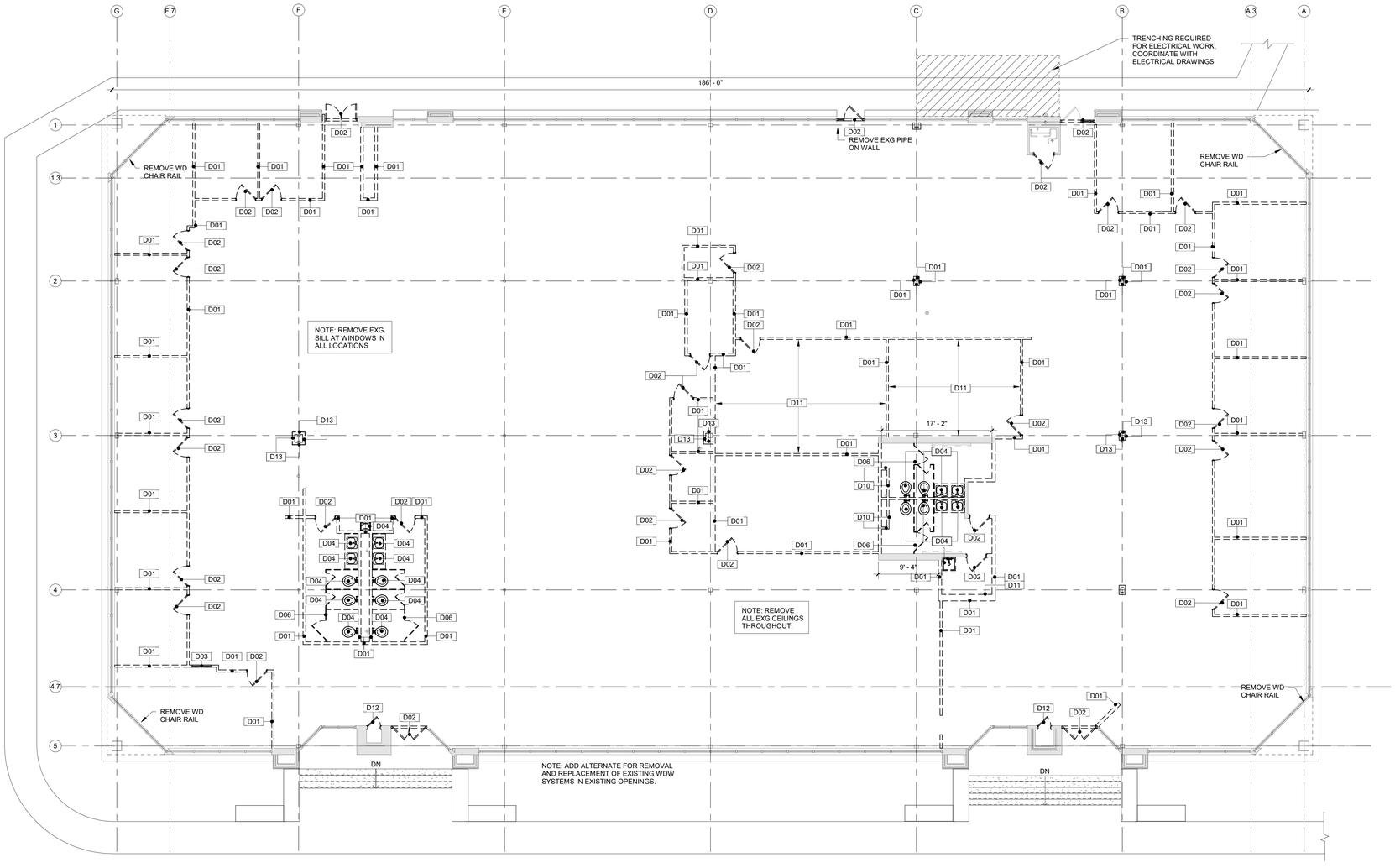
Drawing Title:

INTERIOR PARTITION TYPES

Drawing Number:

A003

CONFORMED DRAWINGS



1 FIRST FLOOR DEMOLITION PLAN

AD101 SCALE: 1/8" = 1'-0"

DEMOLITION KEY	
KEY VALUE	KEYNOTE TEXT
D01	REMOVE EXISTING WALL IN ITS ENTIRETY.
D02	REMOVE EXISTING DOOR SYSTEM IN ITS ENTIRETY.
D03	REMOVE EXISTING WINDOW IN ITS ENTIRETY.
D04	REMOVE EXISTING PLUMBING FIXTURE.
D06	REMOVE EXISTING TOILET PARTITION SYSTEM IN ITS ENTIRETY.
D10	REMOVE EXISTING MILLWORK IN ITS ENTIRETY.
D11	REMOVE ELECTRICAL EQUIPMENT IN THIS ROOM.
D12	REMOVE EXISTING CLOSET DOOR AND INFILL AS REQUIRED FOR NEW CONSTRUCTION.
D13	REMOVE COLUMN SURROUND.

DEMOLITION GENERAL NOTES

1. EXISTING BUILDING INFORMATION WAS OBTAINED FROM FLOOR PLAN PROVIDED BY "JLL | Jones Lang LaSalle Brokerage, Inc." AND BUILDING EXTERIOR RENOVATION DRAWINGS BY OTJ ARCHITECTS, AS WELL AS ON SITE SURVEY. EXISTING INFORMATION IS FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. BEFORE STARTING WORK, MAKE A THOROUGH EXAMINATION OF THOSE PORTIONS OF THE STRUCTURE IN WHICH THE WORK IS TO BE PERFORMED. CHECK ALL THE WORK ADJOINING OR AT UNDERLYING LOCATIONS. REPORT TO THE ARCHITECT ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK. DO NOT START THE WORK UNTIL SUCH CONDITIONS HAVE BEEN EXAMINED AND A COURSE OF ACTION MUTUALLY AGREED UPON.
3. CONTRACTOR SHALL PERFORM ALL NECESSARY DEMOLITION AS REQUIRED FOR INSTALLATION OF NEW WORK AS SHOWN ON THE DRAWINGS. ALL DEMOLITION NOT SPECIFICALLY SHOWN BUT NECESSARY TO COMPLETE THE PROJECT AS SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL CALL TO THE ATTENTION OF THE OWNER: ANY DAMAGE, CRACKS OR OTHER IMPERFECTIONS IN THE WORK ADJACENT TO DEMOLITION AREAS.
5. CONTRACTORS SHALL INSPECT AND ASSESS EACH SPACE AND FULFILL THE INTENT OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS. DEVIATIONS REQUIRED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.
6. ANY CUTTING AND REMOVAL INDICATED ON THE DRAWINGS ARE GENERAL INDICATIONS ONLY AND DO NOT NECESSARILY SHOW THE FULL EXTENT OF CUTTING AND REMOVAL WHICH MAY BE REQUIRED BY JOB CONDITIONS.
7. CONSTRUCTION AND EXISTING FINISHES SHALL REMAIN UNLESS NOTED OTHERWISE. DURING DEMOLITION WORK, PROPERLY PROTECT ALL EXISTING WORK SHOWN TO REMAIN. EXERCISE CARE WHEN REMOVING ADJACENT WORK. PROPERLY REPAIR TO THE ORIGINAL CONDITIONS. ANY DAMAGE TO ITEMS SHOWN TO REMAIN, CAUSED BY DEMOLITION PROCEDURES, TO THE SATISFACTION OF, AND AT NO ADDITIONAL COST, TO THE OWNER. PATCH SURFACE FINISHES BEHIND DEMOLITION WORK (I.E. FLOORS. WALLS. CEILINGS, ETC.) TO MATCH SURROUNDING CONDITIONS.
8. BEFORE STARTING DEMOLITION OPERATIONS, PROTECT ALL EXISTING EQUIPMENT NOT DESIGNATED TO BE REMOVED. PERFORM ALL WORK REQUIRED TO PROTECT THE PUBLIC AND UTILITIES.
9. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING BY WETTING DEMOLISHED DEBRIS. EXCESSIVE USE OF WATER WILL NOT BE PERMITTED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY, TEMPORARY BRACING AND / OR SHORING REQUIRED TO MAINTAIN THE INTEGRITY AND STRUCTURAL STABILITY OF THE BUILDING AND ITS INDIVIDUAL ELEMENTS.
11. EXCEPT WHERE NOTED OTHERWISE, REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE. DO NOT BURN OR BURY MATERIALS ON THE SITE. AT THE COMPLETION OF WORK FOR EACH DAY, CLEAN THE ENTIRE AREA INVOLVED AND LEAVE IT IN A NEAT CONDITION, FREE OF DEBRIS AND RUBBISH. KEEP ALL ADJOINING PUBLIC AREAS CLEAN AND FREE OF DEBRIS OR CONSTRUCTION MATERIALS DURING WORKING HOURS. AND MAKE AN EFFORT TO PROVIDE SAFE CONDITIONS FOR THE GENERAL PUBLIC AND WORKMEN.
12. THE OWNER WILL REMOVE ALL EXISTING ITEMS THAT THE OWNER WISHES TO SALVAGE PRIOR TO START OF DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL REMAINING ITEMS.
13. ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, AND PROJECT SPECIFICATIONS MAY PROVIDE ADDITIONAL DEMOLITION REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DRAWINGS AND PROJECT SPECIFICATIONS AND ANY REQUIREMENTS PROVIDED BY THEM.
14. PRIOR TO THE DEMOLITION OF THOSE ITEMS WHICH HAVE UTILITY CONNECTIONS (WATER, GAS, ELECTRICITY, STEAM, ETC.) THE CONTRACTOR SHALL ARRANGE WITH THE OWNER TO LOCATE SHUTOFF VALVES, PANEL BOXES AND OTHER CONTROL ELEMENTS, SO THAT WATER DAMAGE AND OTHER POTENTIALLY INCONVENIENT OR DANGEROUS SITUATIONS ARE AVOIDED.
15. REFERENCE PARTIAL DEMOLITION PLANS FOR SPECIFIC DEMOLITION REQUIREMENTS.
16. REFERENCE DIVISION 01 SPECIFICATION SECTIONS FOR SELECTIVE DEMOLITION, CUTTING, AND PATCHING. TEMPORARY FACILITIES AND CONTROLS, SITE AND BUILDING DEMOLITION, CONSTRUCTION WASTE MANAGEMENT, AND RELATED SECTIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

DEMOLITION DEFINITIONS

WALL PARTITION SYSTEM - ALL WALL CONSTRUCTION FROM FLOOR SLAB, INCLUDING ALL ASSOCIATED STEEL, DOOR AND WINDOW SYSTEMS, BLOCKING, CORNICES, TRIM, BASE, FINISHES, TRACKS AND ALL RELATED ATTACHMENTS AND COMPONENTS. REFERENCE MEP DRAWINGS FOR ADDITIONAL REQUIREMENTS. DOES NOT INCLUDE BUILDING STRUCTURE UNLESS NOTED OTHERWISE (U.N.O.).

DOOR SYSTEM - ALL CONSTRUCTION RELATED TO A DOOR OPENING, INCLUDING DOOR, FRAME, TRIM, THRESHOLD, STOPS, CLOSURES, TRANSOMS, SIDELIGHTS AND ALL RELATED ATTACHMENTS AND ANCHORS, ECT., TO PROVIDE A CLEAR ROUGH OR MASONRY OPENING. THE DOOR SYSTEM DOES NOT INCLUDE STRUCTURAL LINTELS UNLESS NOTED OTHERWISE.

WINDOW SYSTEMS - ALL CONSTRUCTION RELATED TO A WINDOW OPENING, INCLUDING SASH, FRAME, TRIM, SILL, WEIGHTS, LOCKS, BLINDS, AND ALL RELATED ATTACHMENTS AND COMPONENTS TO PROVIDE A CLEAR ROUGH OR MASONRY OPENING. THE WINDOW SYSTEM DOES NOT INCLUDE STRUCTURAL LINTELS OR EXTERIOR SILLS UNLESS NOTED OTHERWISE.

FLOOR SYSTEM - THE CONCRETE SLAB, SETTING BEDS, SUBFLOOR, FINISH FLOOR MATERIALS AND ANY FINISH ATTACHED ABOVE OR CEILING SYSTEM OR ATTACHMENT SUSPENDED BELOW. THE FLOOR SYSTEM DOES NOT INCLUDE ANY STRUCTURAL STEEL MEMBERS UNLESS NOTED OTHERWISE.

CEILING SYSTEM - ALL SUSPENDED CONSTRUCTION OR CEILING CONSTRUCTION SUPPORTED BY A WALL SYSTEM BEING REMOVED INCLUDING ALL RELATED ATTACHMENTS AND COMPONENTS (INCLUDING BUT NOT LIMITED TO LIGHTS, SPEAKERS, EXIT SIGNS. DIFFUSERS/REGISTERS, ECT.) UP TO THE UNDERSIDE OF THE BUILDING SLAB OR SUPPORTING STRUCTURE. REFERENCE MEP DRAWINGS FOR ADDITIONAL REQUIREMENTS.

CASEWORK SYSTEM - INCLUDING SHELVING, COUNTERS, CABINETRY, SINKS, ECT., AND ALL RELATED HARDWARE AND ATTACHMENTS REMOVED TO THE FINISHED WALL AND FLOOR.

FLOOR FINISH SYSTEM - ALL FLOOR FINISHES, INCLUDING BASE PADDING, FILLER STRIPS, THRESHOLDS, TRANSITION STRIPS, AND SPOT LEVELING UNDERLAYMENT, (U.O.N.) TO TOP OF SUBFLOOR CONSTRUCTION. REMOVE MASTICS ONLY AS REQUIRED TO PREP FLOOR FOR NEW FINISH, U.O.N.

STAIR SYSTEM - ALL CONSTRUCTION RELATED TO A STAIR SYSTEM INCLUDING TREADS, RISERS, STRINGERS, SUPPORT FRAMING, FINISHES, BLOCKING, HANDRAILS, GUARD RAILS, BRACKETS, NOSINGS, PANS, AND CONCRETE.

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
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1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer

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ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

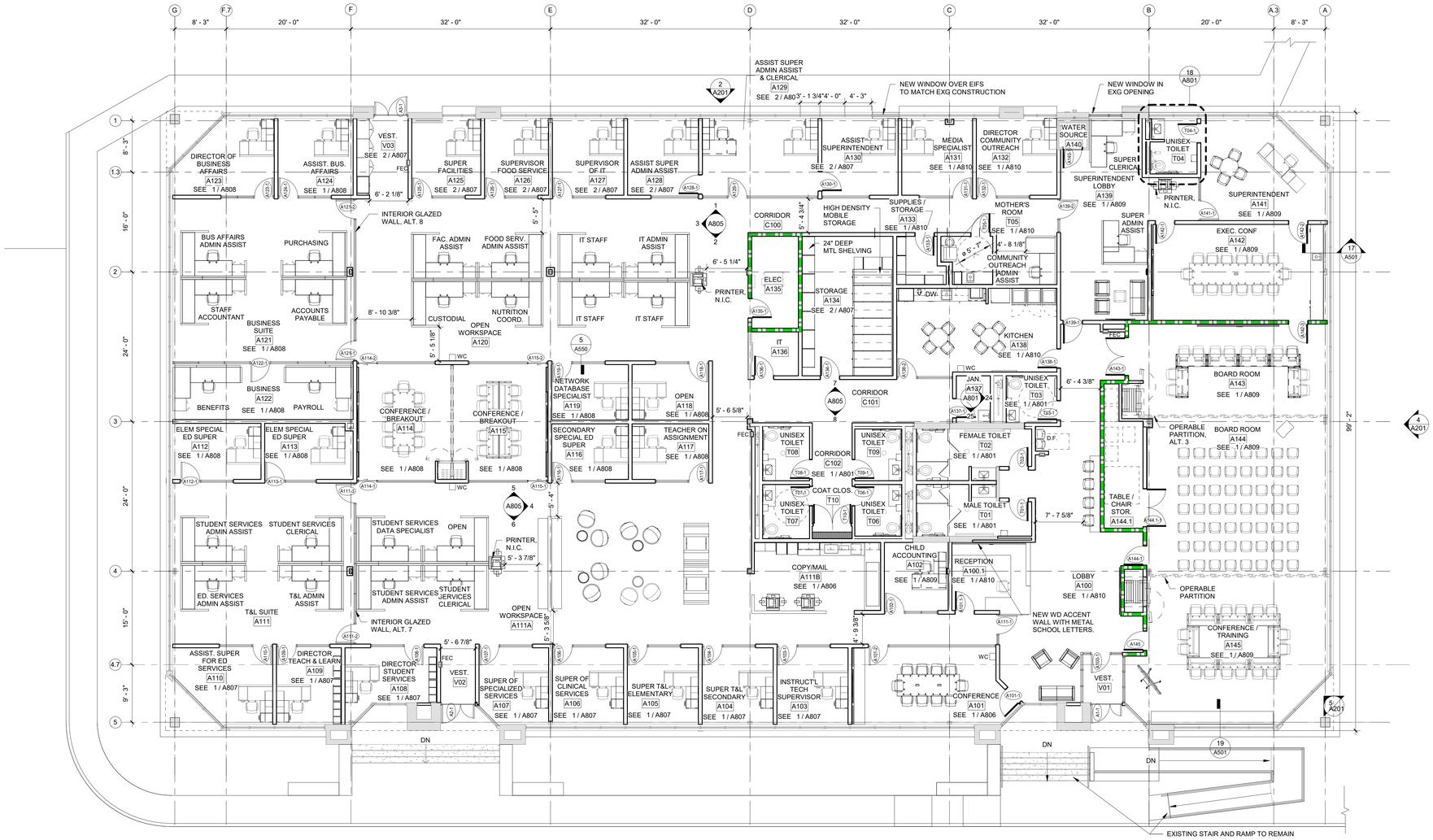
Drawing Title:
FIRST FLOOR DEMOLITION PLAN

Drawing Number:
AD101

True Project

0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS



1 FIRST FLOOR PLAN

A101 SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR SHALL INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK, OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OFTHE WORK.
2. THE CONTRACTOR SHALL COMPLY AND COORDINATE ALL WORK WITH THEIR SUBCONTRACTORS OR OTHER PRIME CONTRACTORS.
3. THE CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND THE ACTUAL INSTALLATION OF ITEMS FURNISHED BY OWNER OR BY OTHERS.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND IS RESPONSIBLE FOR ALL PHASES INCLUDING BIDDING, FABRICATION, COORDINATION AND CONSTRUCTION. CONTRACT DRAWINGS ARE NOT INTENDED TO REPRESENT EXACT DIMENSIONS.
5. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
6. THE CONTRACTOR SHALL SUBMIT FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION OR PURCHASE, SHOP DRAWINGS OR SAMPLES FOR ALL MILLWORK, CUSTOM METALWORK, CUSTOM CASEWORK, AND ALL OTHER ITEMS AS REQUESTED BY THE ARCHITECT FOR ALL ABOVE BUILDING STANDARD ITEMS.
7. CHANGES IN DRAWINGS OR ACTUAL WORK SHALL BE ISSUED BY THE ARCHITECT.
8. PERFORM ALL WORK AND INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF WORKMANSHIP.
9. THE CONTRACTOR SHALL EXAMINE ALL SURFACES TO DETERMINE THAT THEY ARE SOUND, DRY, CLEAN AND READY TO RECEIVE FINISHES PRIOR TO INSTALLATION. START OF INSTALLATION SHALL IMPLY ACCEPTANCE OF SUBSTRATE AND SHALL NOT BE GROUNDS FOR CLAIMS AGAINST IMPROPER PERFORMANCE OF INSTALLED MATERIALS. ADVISE ARCHITECT OF ANY EXISTING CONSTRUCTION NOT LEVEL, SMOOTH AND PLUMB WITHIN INDUSTRY STANDARDS PRIOR TO START OF CONSTRUCTION.
10. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL NECESSARY COVERINGS, PROTECTIVE ENCLOSURES, TEMPORARY DOORS AND PARTITIONS AND DUST BARRIERS TO PROTECT ALL OCCUPANTS AND EXISTING WORK AND FINISHES TO REMAIN. LOCATION OF SUCH PROTECTION SHALL BE VERIFIED WITH OWNER AND LOCAL CODE OFFICIALS FOR EGRESS CONFORMANCE. PRIOR TO COMMENCING WORK AND IN COORDINATION WITH PROGRESSION OF WORK SCHEDULE. PERFORM WORK IN A MANNER THAT WILL AVOID HAZARDS TO PERSONS IN ADJACENT AREAS AND THAT WON'T INTERFERE WITH WORK OR PASSAGE TO ANY OF THESE AREAS. REPAIR AND REPLACE ANY DAMAGES CAUSED BY IMPROPER PROTECTIONS AT NO ADDITIONAL CHARGE TO OWNER.
11. WORK DAMAGED DURING CONSTRUCTION OR NOT CONFORMING TO SPECIFIED STANDARDS, TOLERANCES OR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE REPLACED, BY THE CONTRACTOR, AT NO ADDITIONAL CHARGE TO THE OWNER.
12. THE CONTRACTOR SHALL MAINTAIN ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND LIFE SAFETY SYSTEMS IN WORKING ORDER. CONTRACTOR TO PROVIDE TEMPORARY FIRE EXTINGUISHERS DURING THE COURSE OF CONSTRUCTION AS REQ'D BY THE AUTHORITIES HAVING JURISDICTION .
13. EXIT DOORS, EGRESS DOORS, AND OTHER DOORS REQUIRED FOR MEANS OF EGRESS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
14. CONTRACTOR SHALL FULLY AQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES, AND RESTRICTIONS RELATED TO THE EXECUTION OF WORK. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
15. ALL PLYWOOD SHEATHING TO BE FIRE RETARDANT. ALL WOOD BLOCKING IN FIRE RATED ASSEMBLIES TO BE FIRE RETARDANT.
16. ALL WOOD ON EXTERIOR WALLS AND ROOF TO BE MOISTURE RESISTANT.
17. IN ALL INSTANCES WHERE WORK IS BEING CORRECTED OR REPAIRED, CONTRACTOR IS TO REPAINT ENTIRE WALL TO NEAREST CORNER OR BREAKLINE WHERE WALL CHANGES DIRECTION.
18. CONTRACTOR TO COORDINATE WITH E.C. THE MOUNTING HEIGHT OF ALL SWITCHES AND OUTLETS AT MILLWORK, COUNTERS, SHELVING, SINKS, ETC.
19. CONTRACTOR IS TO PROVIDE ALL MISC. FRAMING, BLOCKING, ETC. TO HANG SCREENS, BULLETIN BOARDS, RAILS, TOILET ACCESSORIES, WOODWORK, ETC.
20. CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AND GYPSUM BOARD CEILINGS SHALL BE SPACED AS FOLLOWS:

PARTITIONS	- 30 FT. MAXIMUM IN EITHER DIRECTION.
INTERIOR CEILINGS	- 30 FT. MAXIMUM IN EITHER DIRECTION.
EXTERIOR CEILINGS	- 30 FT. MAXIMUM IN EITHER DIRECTION.

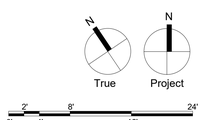
21. ALL PENETRATIONS THROUGH RATED WALLS ARE TO BE SEALED TO MAINTAIN INTEGRITY OF WALL CONSTRUCTION AND RATING (ASTM E814 SYSTEM BY 3M, HILTI, OR SIM).
22. ALL INSULATION EXPOSED TO CEILING PLENUM IS TO BE FIRE AND DUST PROOF.
23. ALL NEW SUPPLY AIR AND RETURN GRILLES SHALL BE LOCATED IN THE CENTER LINE OF ACOUSTICAL TILES UNLESS OTHERWISE INDICATED ON PLANS.
24. CONTRACTOR SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS WHEN RELOCATING AND/OR INSTALLING ANY EQUIPMENT AND FURNISHINGS.
25. CONTRACTOR SHALL VERIFY EQUIPMENT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
26. ALL PENETRATIONS THROUGH DRYWALL AND MASONRY SURFACES INCLUDING BUT NOT LIMITED TO PIPE, CONDUIT, DUCTWORK, GRILLES, REGISTERS, DEVICE BOXES, HANGER RODS, ETC. SHALL HAVE THEIR COMMON JOINTS WITH DRYWALL AND/OR MASONRY CAULKED TO PROVIDE AN AIR-TIGHT SEAL.
27. CONTRACTOR TO REMOVE ANY STRAY PAINT, DIRT, OR STAINS INCURRED DURING THE CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY EQUIPMENT COVERINGS USED DURING CONSTRUCTION AND HE SHALL ALSO BE RESPONSIBLE FOR REMOVING HIS TRASH OFF OF THE JOB SITE DAILY.
28. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND WELDING IN COMPLIANCE WITH THE PUBLISHED STANDARDS OF NFPA. THE CONTRACTOR SHALL PROVIDE FIRE WATCHES FOR ALL CUTTING, GRINDING, AND WELDING OPERATIONS. THE TRAINING OF THESE FIRE WATCHES AND THE USE OF THE CONTRACTOR'S SUPPLIED FIRE EXTINGUISHERS IS THE RESPONSIBILITY OF THE CONTRACTOR.
29. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DETAILS OF UTILITY WALL PENETRATIONS.
30. ALL FIXTURES LABELED " ♿ " INDICATE HANDICAP FIXTURES.
31. WHERE TWO DISSIMILAR METALS MEET, PAINT FACE OF ONE WITH BITUMINOUS PAINT.
32. ALL EXTERIOR ENTRANCE DOORS AND FRAMES TO RECEIVE PERIMETER WEATHER STRIPPING AS PER SPECIFICATIONS.
33. CONTRACTOR IS TO PROVIDE STUD BRACING AS REQUIRED FOR METAL STUD PARTITIONS ABOVE 10'-0".
34. ANY AREA OUTSIDE THE LIMITS OF CONSTRUCTION DISTURBED BY OPERATIONS OF THE CONTRACTOR SHALL BE RESTORED AT THE CONTRACTORS EXPENSE.
35. ALL CONCRETE WALKS, ASPHALT, CURBS AND LANDSCAPING DAMAGED DURING CONSTRUCTION ARE TO BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
36. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL WEEP JOINTS AROUND WINDOWS AND EXTRUDED ALUM. STORE FRONTS FREE OF CAULK.
37. 2 X 6 CONTINUOUS NON-COMUSTIBLE OR FIRE-RETARDENT WOOD BLOCKING (OR METAL BLOCKING) SHALL BE PROVIDED AT DRYWALL PARTITIONS FOR ALL CABINET WORK AT TOP AND BOTTOM OF WALL MOUNTED UNITS AND UNDER COUNTER TOP LEVEL OF BASE CABINET. ALL OPEN FACE SHELVING UNITS SHALL HAVE CONCEALED ANCHOR BRACKETS.
38. ALL EXTERIOR WINDOWS, DOORS, LOUVERS, VENTS, EXHAUST FANS, PIPE PENETRATIONS, AND ALL OTHER PENETRATIONS THRU EXTERIOR WALLS SHALL BE SEALED AROUND ENTIRE PERIMETER WITH SEALANT. (BOTH ON EXTERIOR AND INTERIOR SIDES)
39. ALL INTERIOR PARTITIONS WHICH RECEIVE CERAMIC TILE SHALL BE 20 GA. MIN. AT 16" O.C. W/ HORIZONTAL COLD ROLLED STIFFENER CHANNELS AT 4'-0" O.C. (MAX.) AND EXTEND FROM FINISHED FLOOR TO STRUCTURE ABOVE. 20 GA. DIAGONAL STUD KICKERS MUST ALSO BE INSTALLED AT EVERY OTHER VERTICAL STUD ABOVE CEILING FOR WALLS WITH CERAMIC TILING EXTENDING ABOVE 6'-0".
40. FIRE EXTINGUISHER CABINETS TO BE MOUNTED 4'-0" A.F.F. TO TOP MAXIMUM AS PER ACCESSIBILITY REQUIREMENTS. (FIRE EXTINGUISHERS WITH GROSS WEIGHT OVER 40LBS. MUST BE MOUNTED 3'-6" MAX.). CLEARANCE BETWEEN THE BOTTOM OF THE FLOOR AND THE EXTINGUISHER MAY NOT BE LESS THAN 4".)
41. REPAIR AND/OR REPLACE EXISTING ITEMS NOT SCHEDULED OR NOTED TO BE DEMOLISHED, AND NOT SPECIFIED TO BE REMOVED, BUT WHICH BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS AND MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.

ACCEPTED ALTERNATES

1. WINDOW REPLACEMENT - NOT ACCEPTED
2. EMERGENCY GENERATOR.
   PROVIDE NEW EMERGENCY GENERATOR TO FULLY BACK-UP BUILDING SYSTEMS.
3. ADDITIONAL OPERABLE PARTITION IN BOARD ROOM.
   SEE PLAN FOR LOCATION.
4. WOOD ACCENT TRIM - NOT ACCEPTED
   A. IN CONFERENCE/BREAKOUT ROOMS. SEE PLAN.
   B. IN EXECUTIVE CONFERENCE ROOM. SEE PLAN.
5. WOOD SCREEN WALLS. - NOT ACCEPTED
6. CELLULOSE SPRAY-APPLIED INSULATION AT UNDERSIDE OF ROOF DECK.
   SEE SPECIFICATION SECTION 072129 SPRAYED INSULATION.
7. INTERIOR GLAZED WALL AT TEACHING & LEARNING SUITE.
   SEE PLAN FOR LOCATION.
8. INTERIOR GLAZED WALL AT BUSINESS SUITE.
   SEE PLAN FOR LOCATION.
9. PUBLIC ANNOUNCEMENT SYSTEM. - NOT ACCEPTED
10. WIRELESS LIGHTING CONTROLS - NOT ACCEPTED.

GENERAL PLAN NOTES

1. ALL DIMENSIONS ARE TO OUTSIDE FACE OF FOUNDATIONS, COLUMN LINE, OR FACE OF FRAMING UNLESS NOTED OTHERWISE. CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
2. SEE ENLARGED PLANS FOR TYPICAL INTERIOR ELEVATIONS.



CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture, LLC
153 E. King Street, Ste 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
FIRST FLOOR PLAN

Drawing Number:
A101

GENERAL PLAN NOTES

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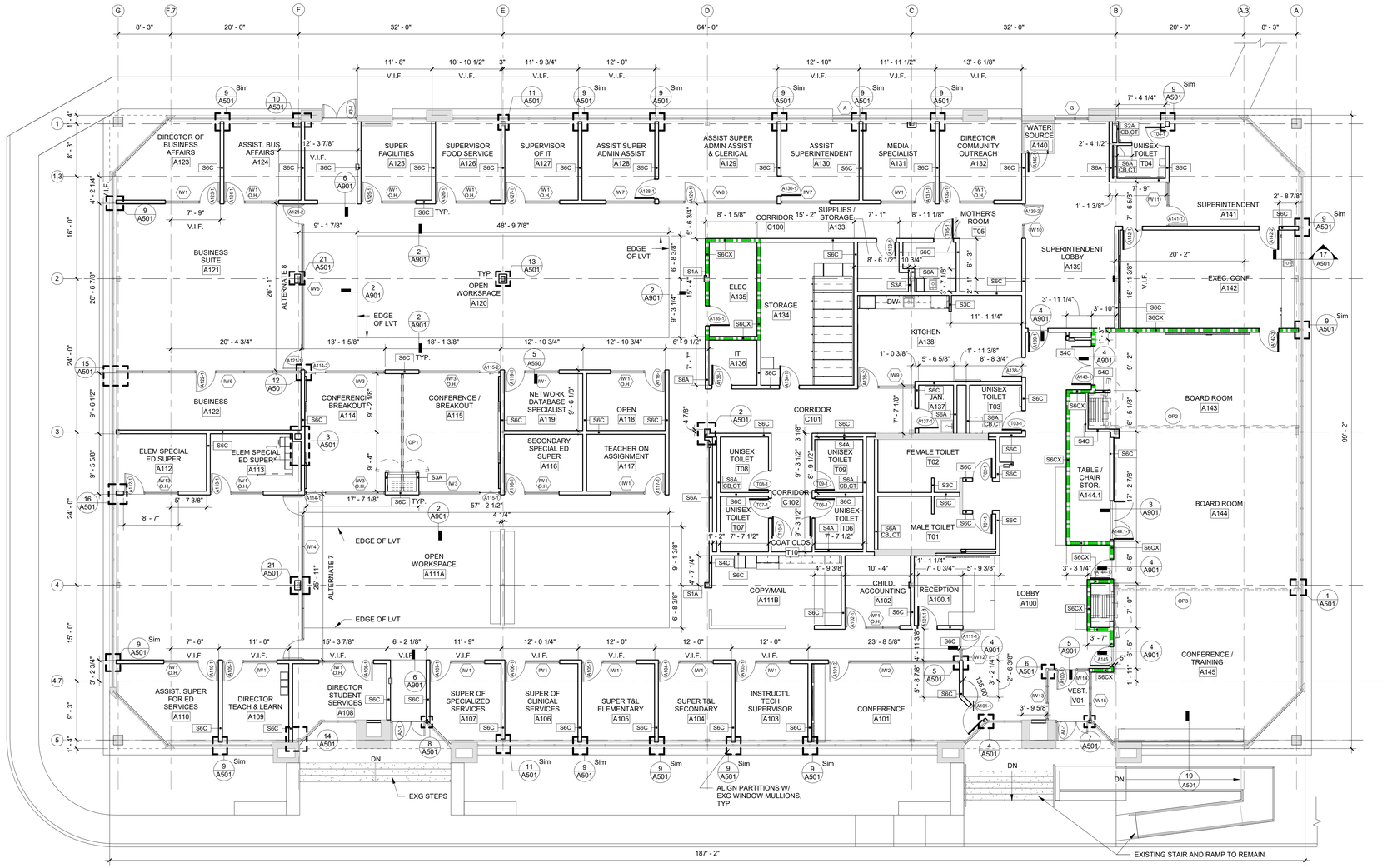

1 FIRST FLOOR DIMENSION PLAN

A110 SCALE: 1/8" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
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1005 West Lehigh Street
Bethlehem, PA 18018
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True Project

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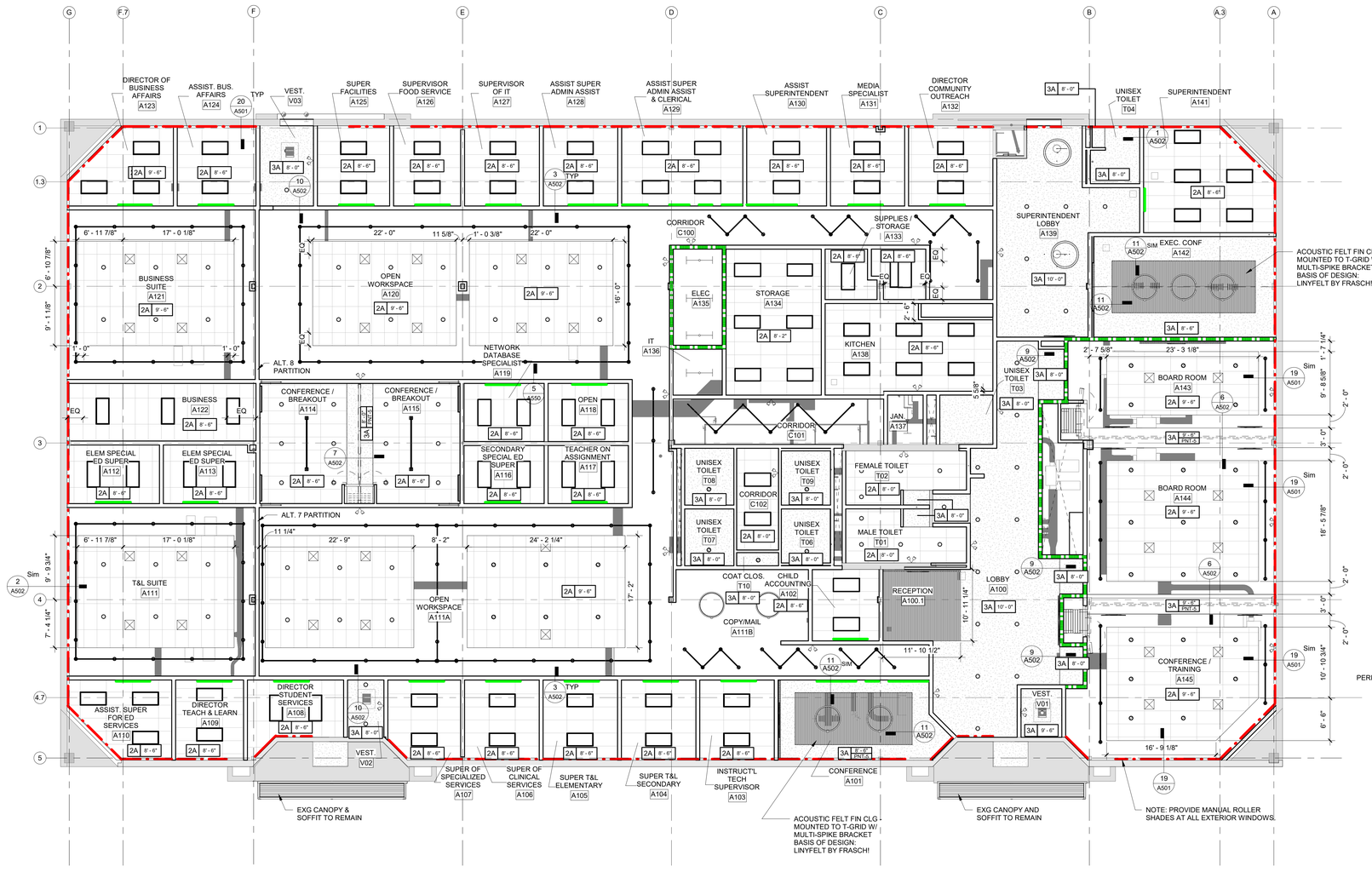

1 FIRST REFLECTED CEILING PLAN

A121 SCALE: 1/8" = 1'-0"

2 ACOUSTIC FELT CLG

A121 SCALE: 1 1/2" = 1'-0"

CEILING NOTES

1. ALL CEILING TILE TO BE CENTERED IN ROOMS, UNLESS OTHERWISE NOTED.
2. CEILING HEIGHTS REFERENCE ROOMS FINISHED FLOOR ELEVATION.
3. CONTRACTOR TO PROVIDE CEILING EXPANSION JOINTS PER SPECIFICATION REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS AT ALL BUILDING EXPANSION JOINT LOCATIONS.
4. REFERENCE MECHANICAL DRAWINGS FOR CEILING MOUNTED DUCTS, PIPES, ETC.
5. REFERENCE ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE TYPES AND LOCATIONS.
6. "EXPOSED, PTD" INCLUDES STRUCTURE, DUCTWORK, PIPING, CONDUIT, HANGERS AND ACCESSORIES.

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF MASONRY, ROUGH FRAME OR CENTER LINE OF COLUMN - TYPICAL, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL VERIFY **ALL** DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

RCP LEGEND

6A 10' - 0" PT-1	INDICATES CEILING TYPE (SEE LEGEND), HEIGHT ABOVE FINISHED FLOOR & FINISH
	EXPOSED TO STRUCTURE ABOVE, PAINTED
	ROLLER SHADE - MANUAL (FABRIC 1)
	ROLLER SHADE - MANUAL (FABRIC 2)

CEILING LEGEND

2A	2x4 ACOUSTICAL CEILING TILE SYSTEM
3A	GWB CEILING FINISH

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
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f: 215 482 7441
www.sgarc.com

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Bethlehem, PA 18018
610.694.8020

Structural Engineer
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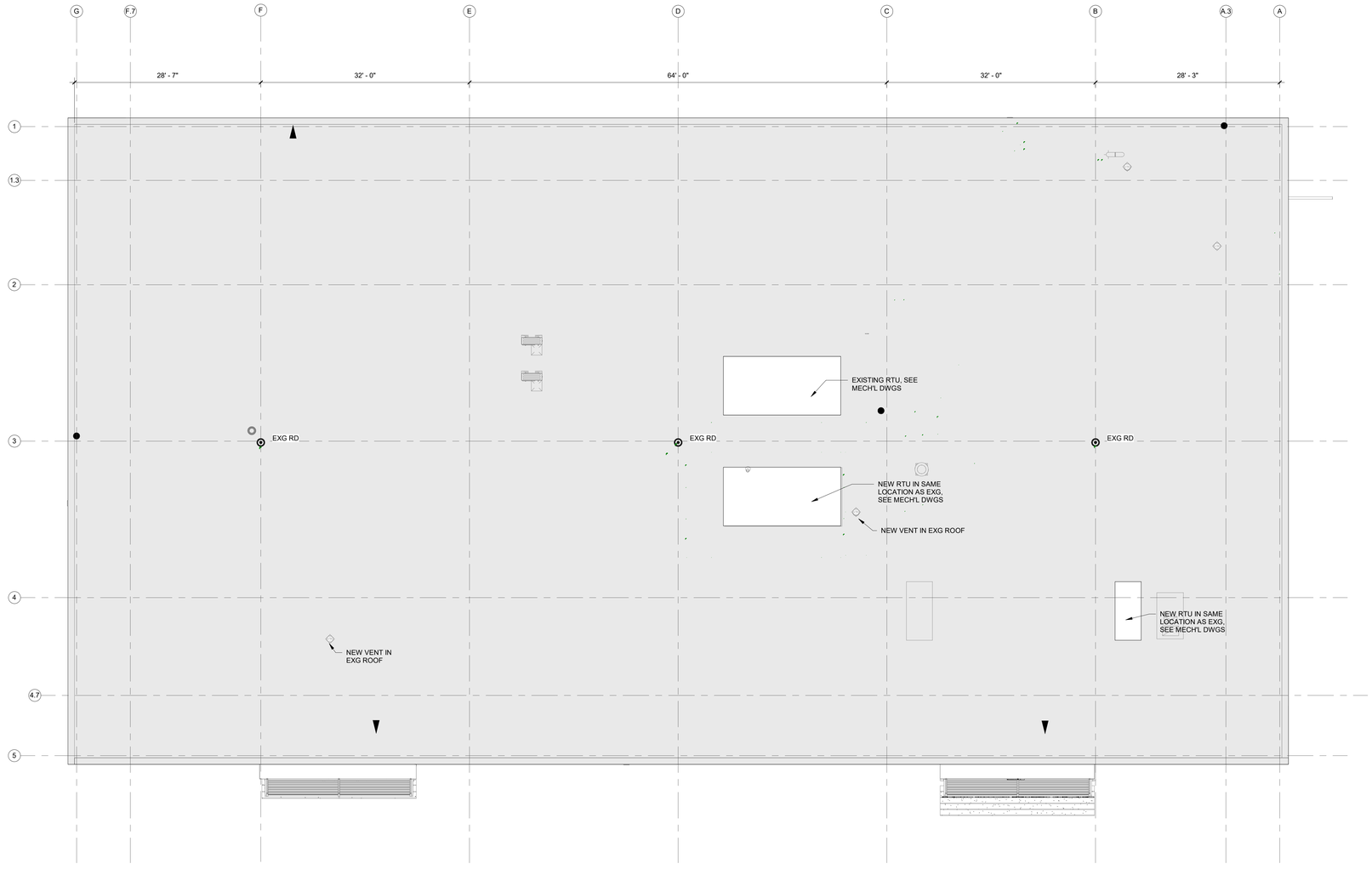
Key Plan:

Drawing Title:
FIRST FLOOR REFLECTED CEILING PLAN

Drawing Number:
A121

CONFORMED DRAWINGS



1 ROOF PLAN
A141 SCALE: 1/8" = 1'-0"

EXISTING ROOF STRUCTURE

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

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SG PROJECT NUMBER: 22-025

Key Plan:

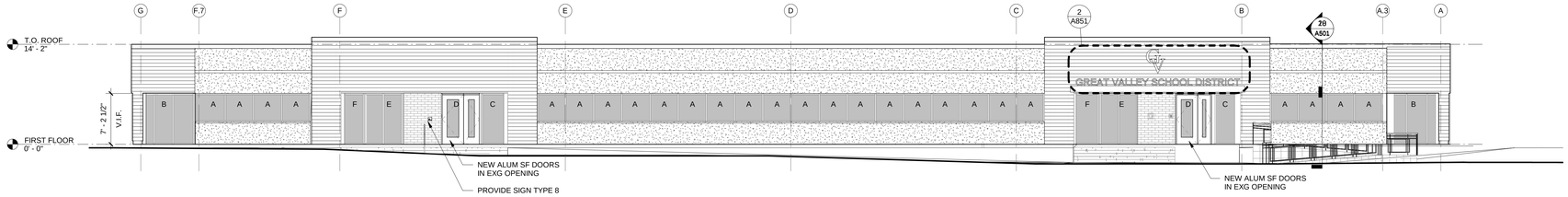
Drawing Title:
ROOF PLAN

Drawing Number:
A141

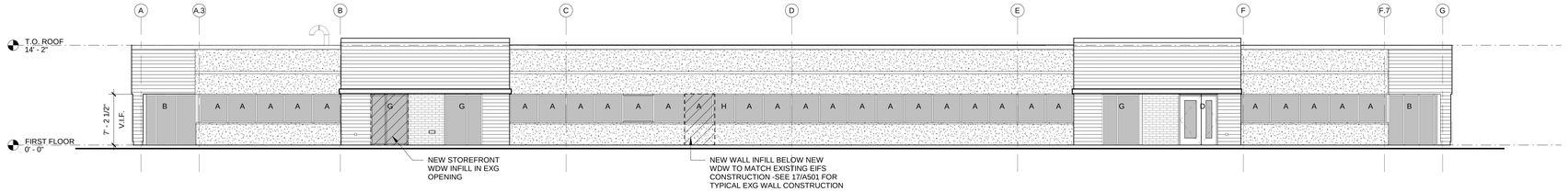
True Project

0' 4' 16' 48'

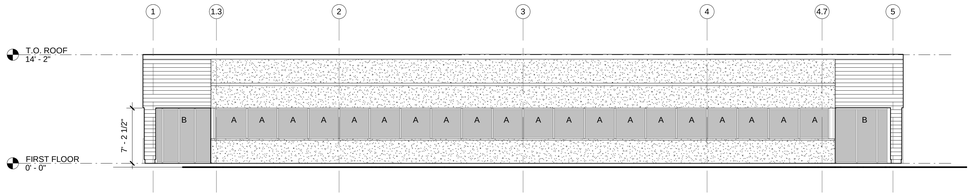
CONFORMED DRAWINGS



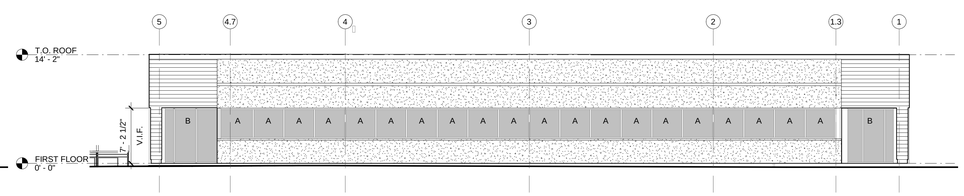
1 SOUTH ELEVATION
A201 SCALE: 1/8" = 1'-0"



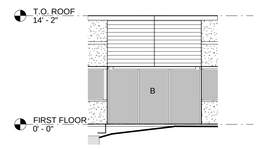
2 NORTH ELEVATION
A201 SCALE: 1/8" = 1'-0"



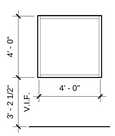
3 WEST ELEVATION
A201 SCALE: 1/8" = 1'-0"



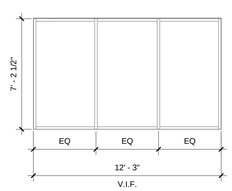
4 EAST ELEVATION
A201 SCALE: 1/8" = 1'-0"



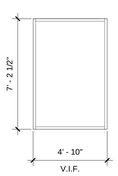
5 TYPICAL CORNER ELEVATION
A201 SCALE: 1/8" = 1'-0"



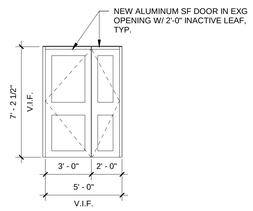
6 A - TYPICAL WINDOW ELEVATION
A201 SCALE: 1/4" = 1'-0"



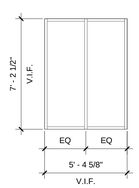
7 B - WINDOW ELEVATION
A201 SCALE: 1/4" = 1'-0"



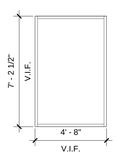
8 C - WINDOW ELEVATION
A201 SCALE: 1/4" = 1'-0"



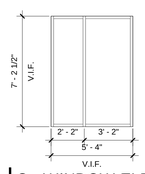
9 D - WINDOW ELEVATION
A201 SCALE: 1/4" = 1'-0"



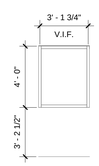
10 E - WINDOW ELEVATION
A201 SCALE: 1/4" = 1'-0"



11 F - WINDOW ELEVATION
A201 SCALE: 1/4" = 1'-0"



12 G - WINDOW ELEVATION
A201 SCALE: 1/4" = 1'-0"



13 H - WINDOW ELEVATION
A201 SCALE: 1/4" = 1'-0"

NOTE: ALL WINDOW REPLACEMENT TO BE CARRIED AS AN ALTERNATE PRICE UNLESS NOTED OTHERWISE.

ELEVATION KEY

CLEAR GLAZING

EXTERIOR GLAZING KEY

NOTE: REFERENCE SPECIFICATIONS FOR FULL GLAZING TINT/ ASSEMBLY / PERFORMANCE REQUIREMENTS. GLAZING IDENTIFICATION NOTED IN THE DRAWINGS ARE NOT INTENDED TO REPLACE OR SUPERCEDE ANY ADDITIONAL PERFORMANCE REQUIREMENTS INDICATED IN THE SPECIFICATION FOR EACH OF THE GLAZING TYPES NOTED IN THE LEGEND BELOW.

GEX	EXISTING GLAZING SYSTEM
GX	1" INSULATED TINT GLAZING - HIGH VLT
GX	1" INSULATED TINT GLAZING - HIGH VLT + 1 HR F.R. GLAZING UNIT

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture, LLC
153 E. King Street, Ste 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

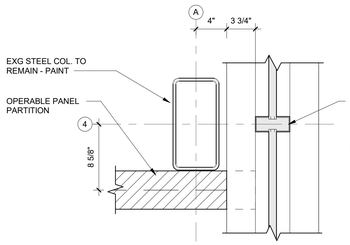
Key Plan:

Drawing Title:
BUILDING ELEVATIONS & FRAME ELEVATIONS

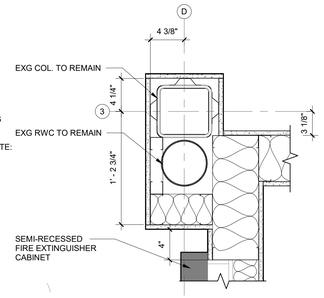
Drawing Number:
A201

0' 4' 8' 16' 32' 48'

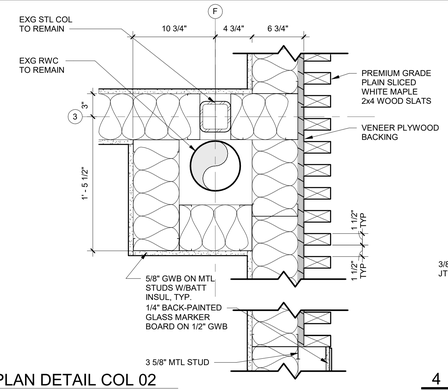
CONFORMED DRAWINGS



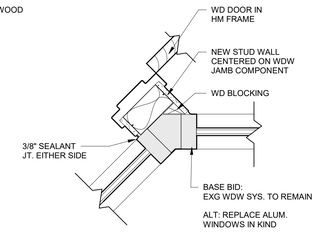
1 PLAN DETAIL BOARDROOM 01
A501 SCALE: 1 1/2" = 1'-0"



2 PLAN DETAIL COL 01
A501 SCALE: 1 1/2" = 1'-0"



3 PLAN DETAIL COL 02
A501 SCALE: 1 1/2" = 1'-0"



4 PLAN DETAIL CONFERENCE
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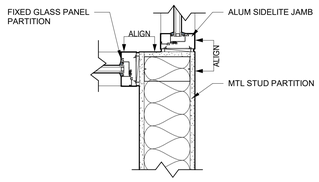

5 PLAN DETAIL CONFERENCE 02
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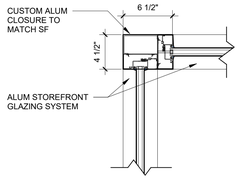

6 PLAN DETAIL ENTRY 01
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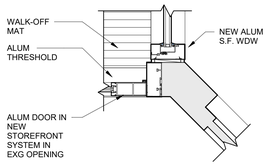

7 PLAN DETAIL ENTRY 02
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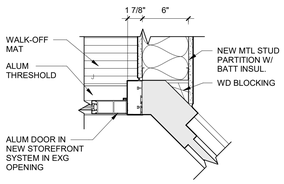
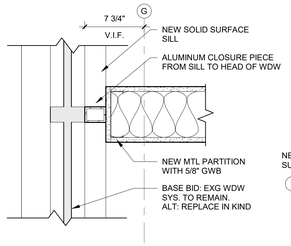
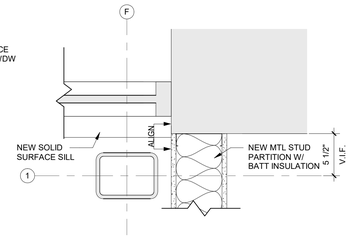


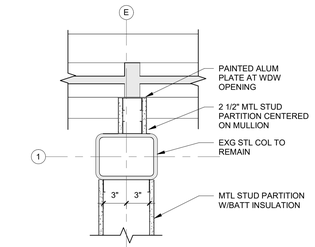
8 PLAN DETAIL VEST 02
A501 SCALE: 1 1/2" = 1'-0"



9 PLAN DETAIL EXT WDW 02
A501 SCALE: 1 1/2" = 1'-0"



10 PLAN DETAIL EXT WDW 03
A501 SCALE: 1 1/2" = 1'-0"



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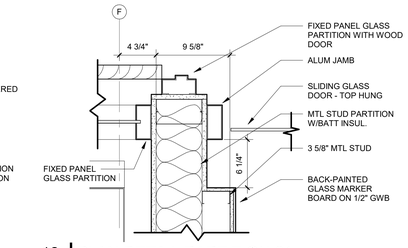

12 PLAN DETAIL PARTITION 01
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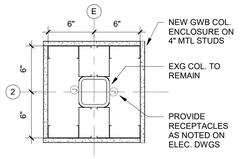

13 PLAN DETAIL COL 03
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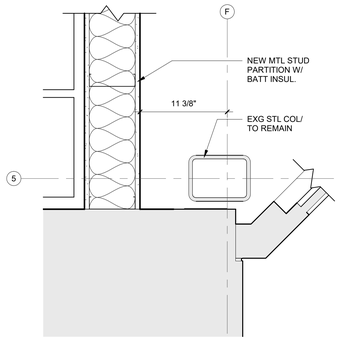
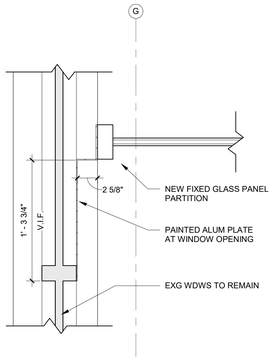
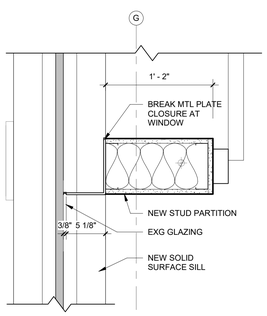


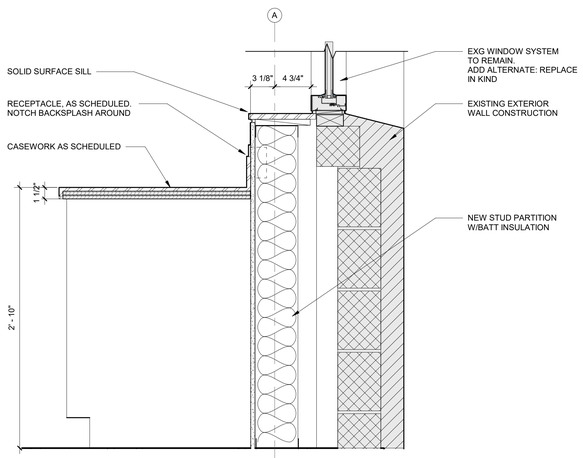
14 PLAN DETAIL VEST 01
A501 SCALE: 1 1/2" = 1'-0"



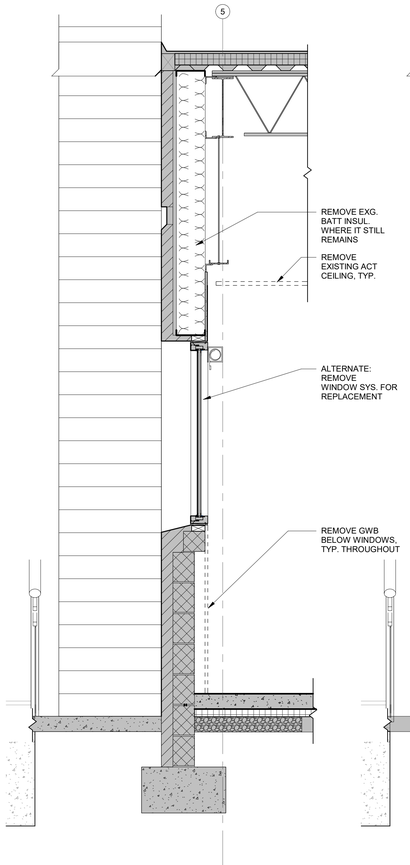
15 PLAN DETAIL EXT WDW 01
A501 SCALE: 1 1/2" = 1'-0"



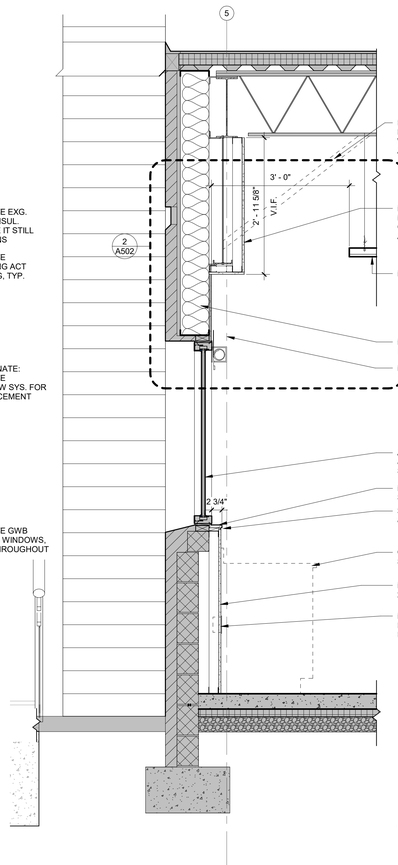
16 PLAN DETAIL A112
A501 SCALE: 1 1/2" = 1'-0"



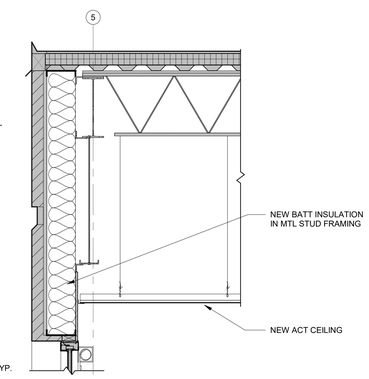
17 CASEWORK SECTION DETAIL @ WDW
A501 SCALE: 1 1/2" = 1'-0"



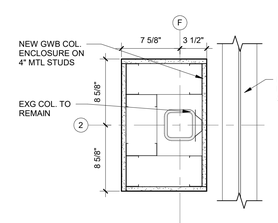
18 DEMO WALL SECTION
A501 SCALE: 3/4" = 1'-0"



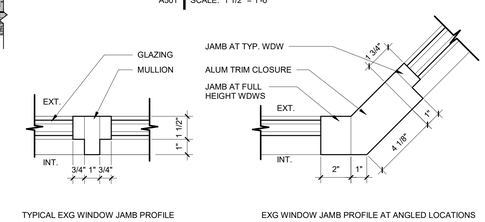
19 TYP WALL SECTION
A501 SCALE: 3/4" = 1'-0"



20 TYP WALL SECTION @ ACT
A501 SCALE: 3/4" = 1'-0"



21 PLAN DETAIL COL 04
A501 SCALE: 1 1/2" = 1'-0"



22 TYP JAMB PROFILES AT EXG WDW SYSTEMS
A501 SCALE: 3" = 1'-0"

0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture, LLC
153 E. King Street, Ste 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

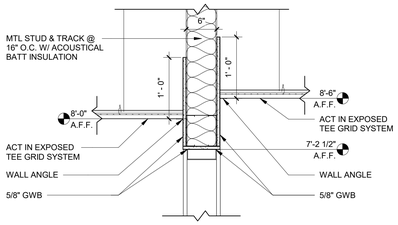
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

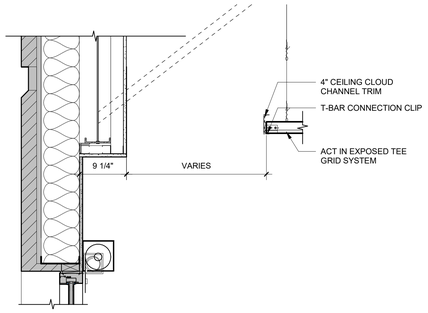
Key Plan:

Drawing Title:
PLAN & SECTION DETAILS

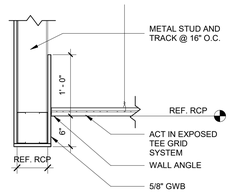
Drawing Number:
A501



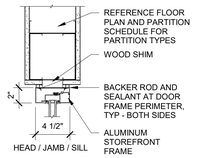
1 ACT TO GWB TO ACT @ DOOR
A502 SCALE: 1" = 1'-0"



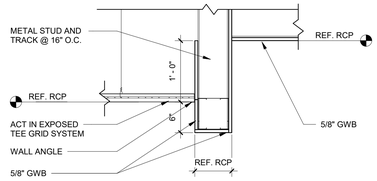
2 CLOUD DETAIL AT PERIMETER WALL
A502 SCALE: 1" = 1'-0"



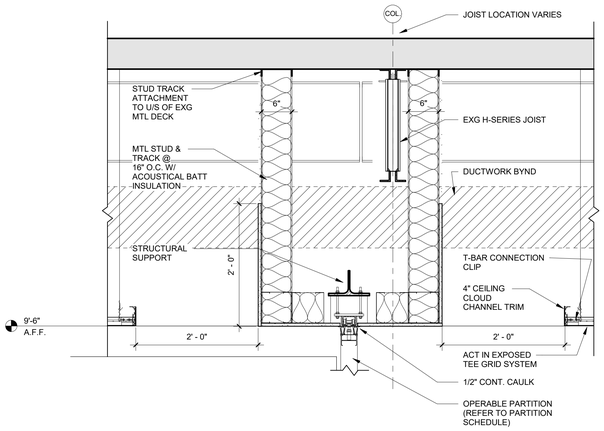
3 GWB BULKHEAD @ ACT CEILING TO WALL
A502 SCALE: 1" = 1'-0"



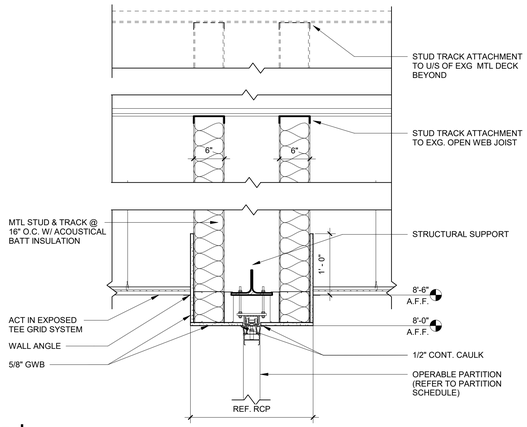
4 SF FRAME - GYPSUM WALL
A502 SCALE: 1 1/2" = 1'-0"



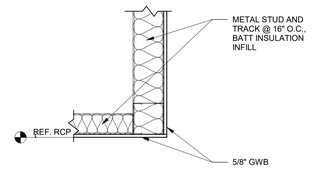
5 ACT TO GWB WALL (TYP)
A502 SCALE: 1" = 1'-0"



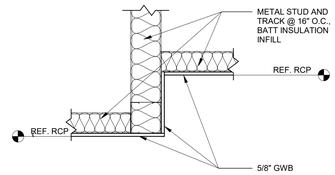
6 GWB BULKHEAD @ OPERABLE PART. - BOARD ROOM
A502 SCALE: 1" = 1'-0"



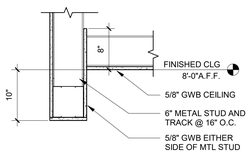
7 GWB BULKHEAD @ OPERABLE PART. - BREAKOUT/CONF.
A502 SCALE: 1" = 1'-0"



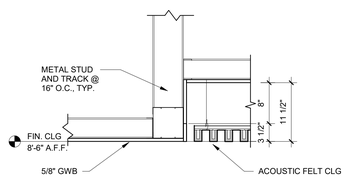
8 GWB TO GWB WALL
A502 SCALE: 1" = 1'-0"



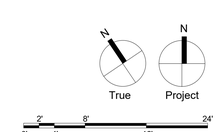
9 GWB TO GWB TRANSITION (TYP)
A502 SCALE: 1" = 1'-0"



10 GWB TO GWB WALL (TYP)
A502 SCALE: 1" = 1'-0"



11 ACOUSTIC FELT CEILING DETAIL
A502 SCALE: 1" = 1'-0"



CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture, LLC
153 E. King Street, Ste 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

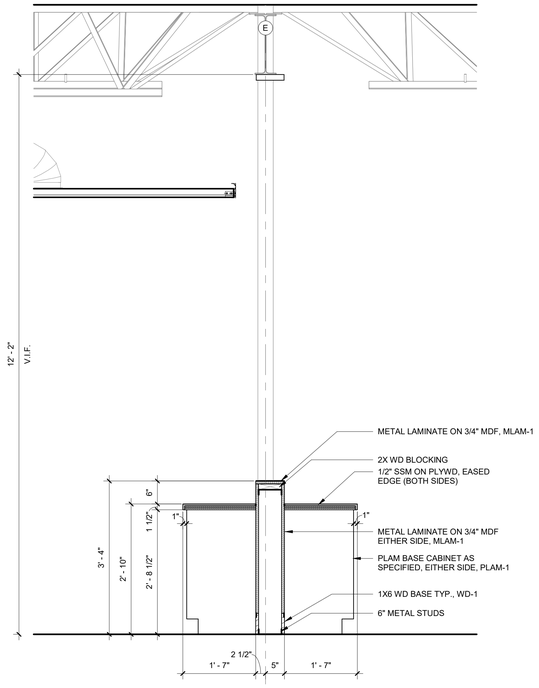
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

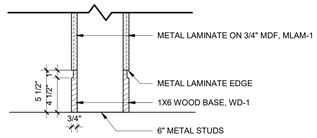
Key Plan:

Drawing Title:
CEILING DETAILS

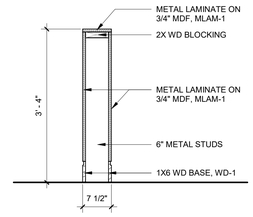
Drawing Number:
A502



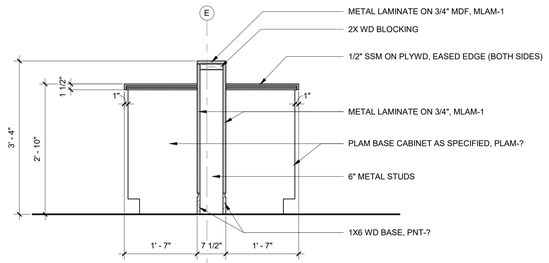
1 | CASEWORK DETAIL IN OPEN WORKSPACE
A550 SCALE: 3/4" = 1'-0"



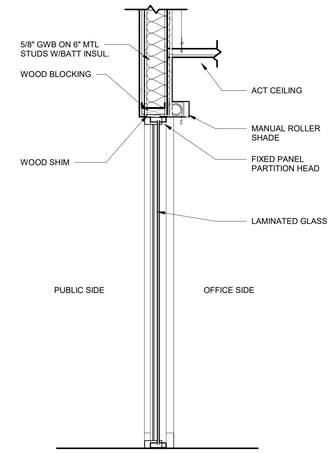
3 | BASE DETAIL
A550 SCALE: 1 1/2" = 1'-0"



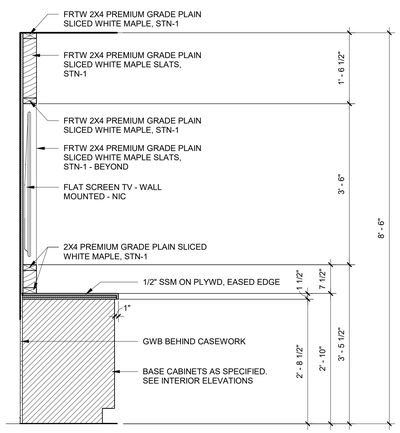
4 | METAL LAMINATE WALL DETAIL
A550 SCALE: 3/4" = 1'-0"



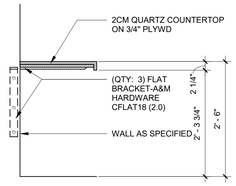
2 | METAL LAMINATE WALL DETAIL W/CASEWORK
A550 SCALE: 3/4" = 1'-0"



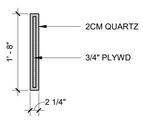
5 | TYP. FIXED PANEL PARTITION WALL SECTION
A550 SCALE: 3/4" = 1'-0"



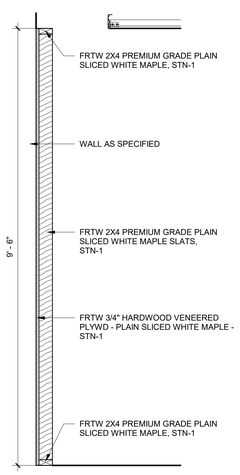
8 | WOOD ACCENT WALL - CONFERENCE
A550 SCALE: 3/4" = 1'-0"



9 | LOBBY COUNTERTOP DETAIL
A550 SCALE: 3/4" = 1'-0"



10 | LOBBY COUNTERTOP - PLAN DETAIL
A550 SCALE: 3/4" = 1'-0"



12 | WOOD ACCENT WALL - BOARD ROOM
A550 SCALE: 3/4" = 1'-0"

NOTE: WOOD SCREEN PARTITIONS TO MEET IBC SECTIONS A803 &A806

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
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Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

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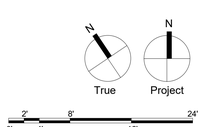
INTERIOR DETAILS

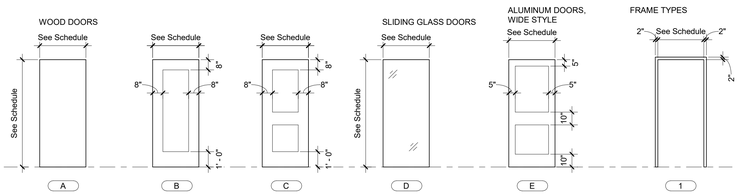
Drawing Number:
A550



CONFORMED DRAWINGS

DOOR AND FRAME SCHEDULE

	DOOR						FRAME						
NO.	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	DEPTH	GLAZING TYPE	FIRE RATING	COMMENTS
A1-1	B	2' - 11 3/4"	7' - 0 1/2"	0' - 2"	Aluminum	Anodized	1	Aluminum	Anodized		T	-	
A2-1	B	3' - 0"	7' - 0 1/2"	0' - 2"	Aluminum	Anodized	1	Aluminum	Anodized		T	-	
A3-1	B	3' - 0"	7' - 0 1/2"	0' - 2"	Aluminum	Anodized		Aluminum	Anodized		T	-	
A100-1	B	3' - 0"	7' - 0 1/2"	0' - 2"	Aluminum	Anodized	1	Aluminum	Anodized		T	-	
A101-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
A101-2	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A101.1-1	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	-	TRANSLUCENT GLAZING
A102-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A103-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A104-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A105-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A106-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A107-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A108-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A109-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A110-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A111-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A111-2	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain		Aluminum	Anodized		T	-	
A111-3	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain		Aluminum	Anodized		T	-	
A112-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A113-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A114-1	C	3' - 0"	7' - 0 1/2"	0' - 0 3/8"	Glass		FRAMELESS						SLIDING DOOR
A114-2	C	3' - 0"	7' - 0 1/2"	0' - 0 3/8"	Glass		FRAMELESS						SLIDING DOOR
A115-1	C	3' - 0"	7' - 0 1/2"	0' - 0 3/8"	Glass		FRAMELESS						SLIDING DOOR
A115-2	C	3' - 0"	7' - 0 1/2"	0' - 0 3/8"	Glass		FRAMELESS						SLIDING DOOR
A116-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A117-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A118-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A119-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A121-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	
A121-2	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	
A122-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A123-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A124-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A125-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A126-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A127-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A128-1	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	-	TRANSLUCENT GLAZING
A129-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A130-1	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	-	TRANSLUCENT GLAZING
A131-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A132-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A133-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
A134-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
A135-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	45	
A136-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
A137-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
A138-1	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	-	TRANSLUCENT GLAZING
A138-2	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		-	-	
A139-1	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	-	
A139-2	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	
A140-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 5 1/2"	-	-	
A141-1	B	3' - 0"	7' - 0 1/2"	0' - 1 3/4"	Wood	Stain	1	Aluminum	Anodized		T	-	TRANSLUCENT GLAZING
A142-1	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	-	
A142-2	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
A142-3	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	45	
A143-1	B	6' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	45	
A144-1	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	45	
A144.1-1	A	6' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
A145	B	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint	0' - 8 1/4"	-	45	
T01-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
T02-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
T03-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
T04-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
T05-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 8 1/4"	-	-	
T06-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 6 3/4"	-	-	
T07-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 6 3/4"	-	-	
T08-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 6 3/4"	-	-	
T09-1	A	3' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 6 3/4"	-	-	
T10-1	A	6' - 0"	7' - 0"	0' - 1 3/4"	Wood	Stain	1	Hollow Metal	Paint - Gossamer Veil	0' - 6 3/4"	-	-	

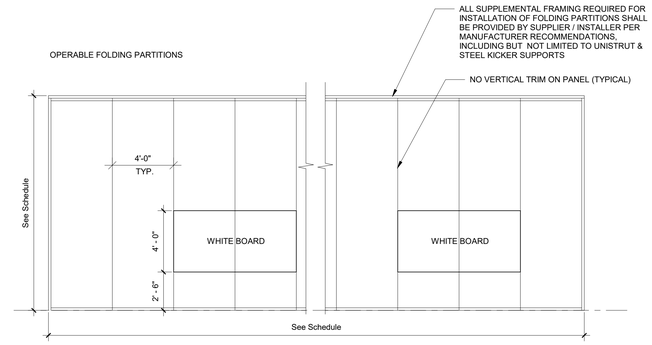


DOOR AND FRAME TYPES

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

OPERABLE PARTITION SCHEDULE

NO.	LENGTH	CEILING HEIGHT	POCKET DOOR	COMMENTS
OP1	18' - 4"	8' - 0"	Yes	
OP2	32' - 10"	9' - 6"	Yes	ALTERNATE 3; Provide Partition [with (2) Marker Boards, each side]
OP3	32' - 10"	9' - 6"	Yes	Provide (2) Marker Boards, each side



2 OPERABLE PARTITION - TYPICAL ELEVATION

A601 SCALE: 1/4" = 1'-0"

DOOR NOTES

1. ALL CLOSERS TO HAVE CLOSING SPECS SET 90º - 12º, 5 SECONDS MIN.
2. ALL DOOR LOCKS, LATCHES, PANIC HARDWARE AND PULLS TO BET SET 34"-48" AFF.
3. ALL DOOR OPERATING DEVICES (OTHER THAN PANIC HARDWARE) TO BE LEVER OPERATED.
4. ALL THRESHOLDS TO BE 1/2" MAX. HEIGHT, BEVELED TO 1:2 SLOPE.
5. ALL GLASS IN DOORS AND WITHIN 24" OF A DOOR TO BE SAFETY TEMPERED GLASS (T).
6. *SEE DOOR TYPES* DIMENSION NOTED IS FROM FINISHES FLOOR TO BOTTOM OF GLAZING.

GLAZING KEY

T TEMPERED GLAZING

NOTE: REFERENCE SPECIFICATIONS FOR FULL GLAZING TINT/ ASSEMBLY / PERFORMANCE REQUIREMENTS. GLAZING IDENTIFICATION NOTED IN THE DRAWINGS ARE NOT INTENDED TO REPLACE OR SUPERCEDE ANY ADDITIONAL PERFORMANCE REQUIREMENTS INDICATED IN THE SPECIFICATION FOR EACH OF THE GLAZING TYPES NOTED IN THE LEGEND BELOW.

GEX EXISTING GLAZING SYSTEM
GX 1" INSULATED TINT GLAZING - HIGH VLT
GX 1" INSULATED TINT GLAZING - HIGH VLT + 1 HR F.R. GLAZING UNIT

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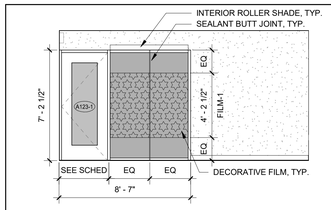
Key Plan:

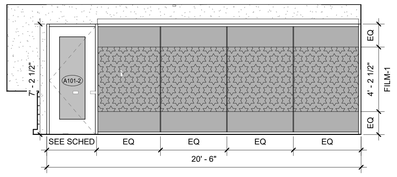
Drawing Title:
DOOR SCHEDULE

Drawing Number:
A601

CONFORMED DRAWINGS



1 IW1, TYP
A602 SCALE: 1/4" = 1'-0"



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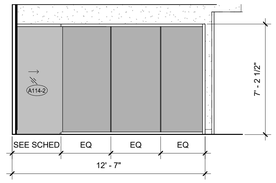

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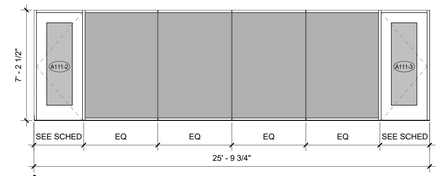

4 IW4 - ALT. 7
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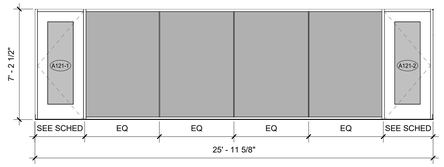

5 IW5 - ALT. 8
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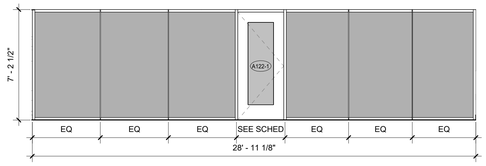

6 IW6
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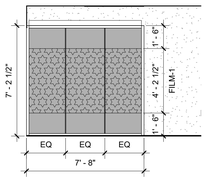

7 IW7
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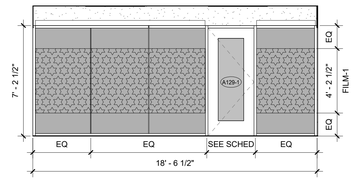

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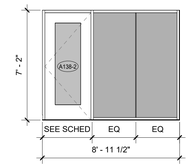

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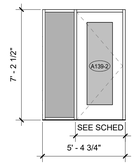
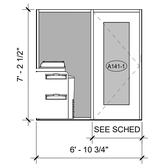


10 IW10
A602 SCALE: 1/4" = 1'-0"



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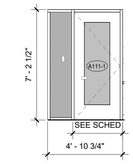
A602 SCALE: 1/4" = 1'-0"



12 IW12
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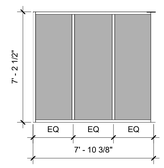
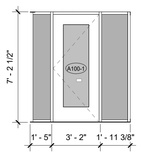
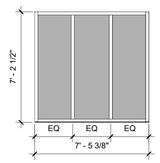


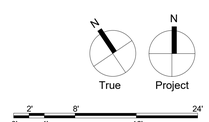
13 IW13 INT. ALUM STOREFRONT SYS.
A602 SCALE: 1/4" = 1'-0"



14 IW4 INT. ALUM STOREFRONT SYS.
A602 SCALE: 1/4" = 1'-0"



15 IW15 1-HR FIRE RATED INT. ALUM STOREFRONT SYS.
A602 SCALE: 1/4" = 1'-0"



CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture, LLC
153 E. King Street, Ste 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

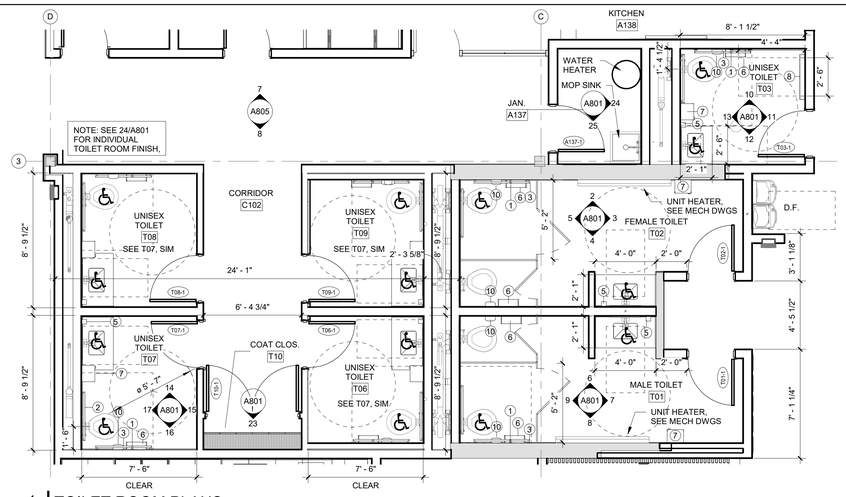
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

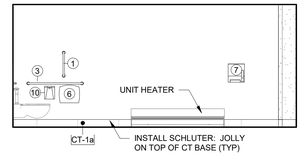
Key Plan:

Drawing Title:
INTERIOR FRAME ELEVATIONS

Drawing Number:
A602



1 TOILET ROOM PLANS
A801 SCALE: 1/4" = 1'-0"



2 WOMEN T02 - N. ELEV
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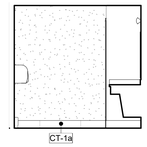

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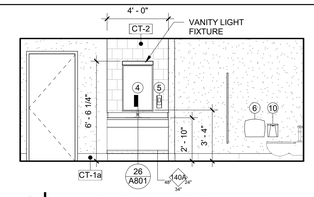

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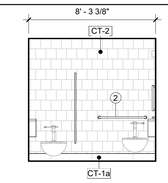

5 WOMEN T02 - W. ELEV
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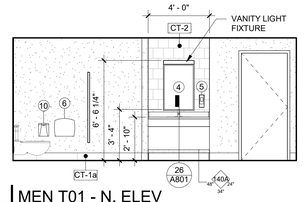

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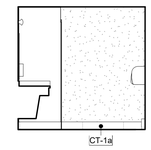

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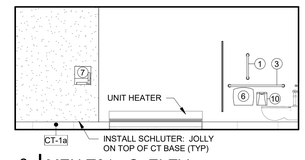

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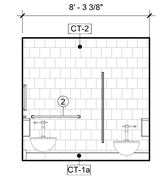

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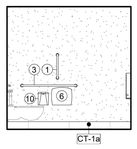

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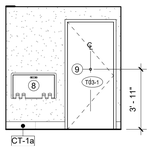

11 T03 - E. ELEV
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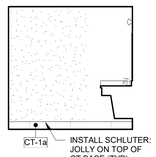

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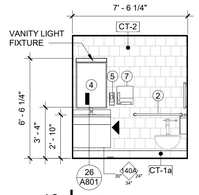

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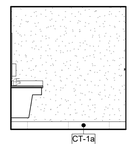

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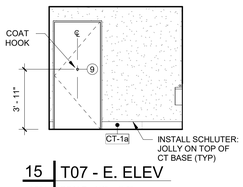

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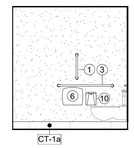

16 T07 - S. ELEV
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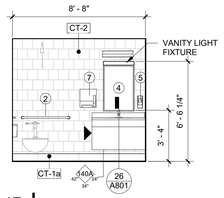

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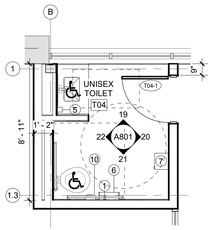

18 TOILET T10
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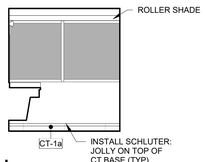

19 T10 - N. ELEV
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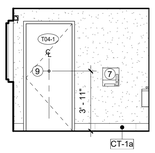

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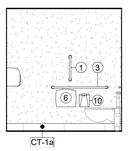

21 T10 - S. ELEV
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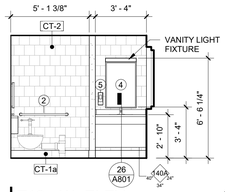

22 T10 - W. ELEV
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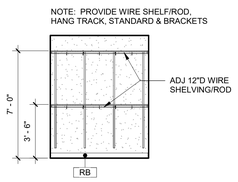
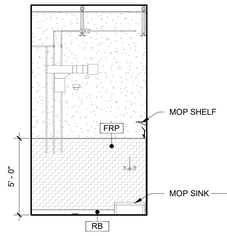
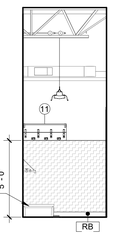


23 COAT CLOSET - S ELEV
A801 SCALE: 1/4" = 1'-0"



24 JANITOR A137 - E ELEV
A801 SCALE: 1/4" = 1'-0"



25 JANITOR A137 - S ELEV
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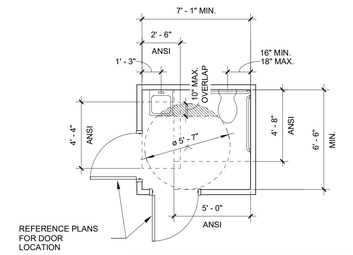
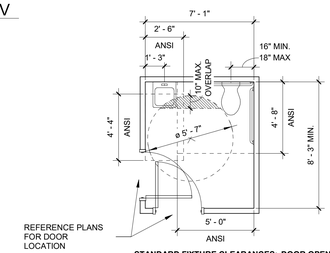
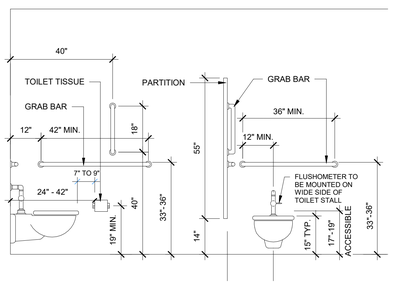


STANDARD FIXTURE CLEARANCES: DOOR OPENS OUT



STANDARD FIXTURE CLEARANCES: DOOR OPENS IN

800 - ADA Clearances
SCALE: 1/4" = 1'-0"



NOTES:

DENOTES HDCP ACCESSIBLE FIXTURE/ ACCESSORY COMPLYING WITH ANSI 117.1

SEE DETAILS THIS SHEET FOR TYPICAL FIXTURE AND ACCESSORY MOUNTING INFORMATION.

ALL DIMENSIONS NOTED ON TOILET ROOM PLANS ARE FROM FINISHED SURFACE.

PROVIDE DOOR PULLS ON BOTH SIDES OF STALL DOORS

DOORS TO ACCESSIBLE STALLS TO BE 32" MIN. CLEAR AND SELF-CLOSING

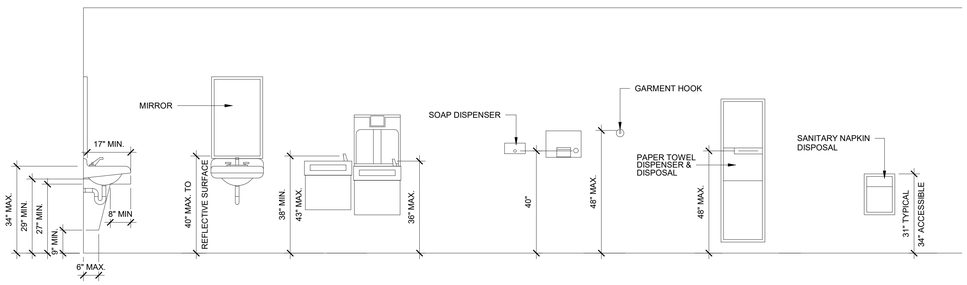
GARMENT HOOK TO BE MOUNTED 48" MAX TO TOP OF HOOK

ALL ACCESSIBLE GRAB BARS TO SUPPORT A LOAD OF 250 LBS MIN.

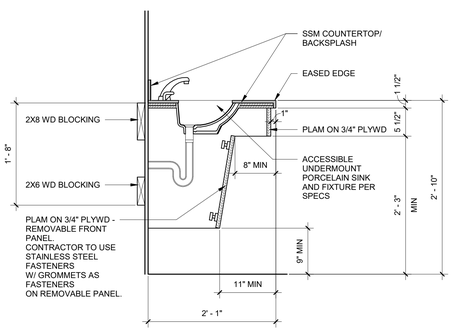
INSTALL HANDICAPPED SYMBOL STICKER TO ALL HANDICAPPED LAVATORIES AND LOCKERS WHEN MORE THAN ONE FIXTURE / LOCKER IS LOCATED WITHIN ROOM.

TOILET ACCESSORY LEGEND

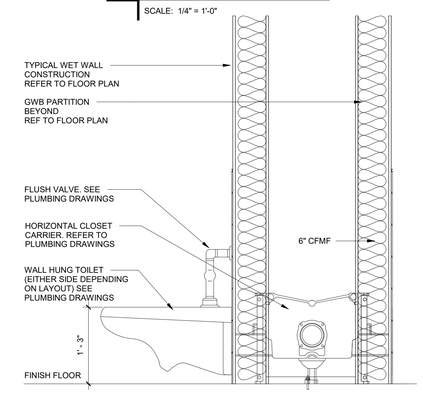
1	18 INCH GRAB BAR KOHLER K-11892-BS
2	36 INCH GRAB BAR KOHLER K-11895-BS
3	42 INCH GRAB BAR KOHLER K-11896-BS
4	SURFACE MOUNTED MIRROR (BOBRICK B-290 2436)
5	SURFACE MOUNTED SOAP DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
6	SURFACE MOUNTED TOILET TISSUE DISPENSER (OWNER FURNISHED / CONTRACTOR INSTALLED)
7	SURFACE MOUNTED PAPER TOWEL DISPENSER (OWNER FURNSHED / CONTRACTOR INSTALLED)
8	BABY CHANGING STATION (KB200)
9	ROBE HOOK KOHLER K-14443-CP
10	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL - BRADLEY 4A10-11
11	SHELF WITH MOP HOLDER (BOBRICK B-239X34)



NOTE: CONTRACTOR SHALL FURNISH AND INSTALL ALL BLOCKING AND SUPPLEMENTAL SUPPORT REQUIRED FOR SECURE AND PROPER INSTALLATION OF TOILET ROOM FIXTURES AND ACCESSORIES.
ALL EXPOSED SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED ANSI A117.1-606.6



26 ADA TOILET ROOM SINK DETAIL
A801 SCALE: 1" = 1'-0"



27 TOILET HANGER CHASE DETAIL
A801 SCALE: 1" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
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Bethlehem, PA 18018
610.694.8020

Structural Engineer
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717.299.8965

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

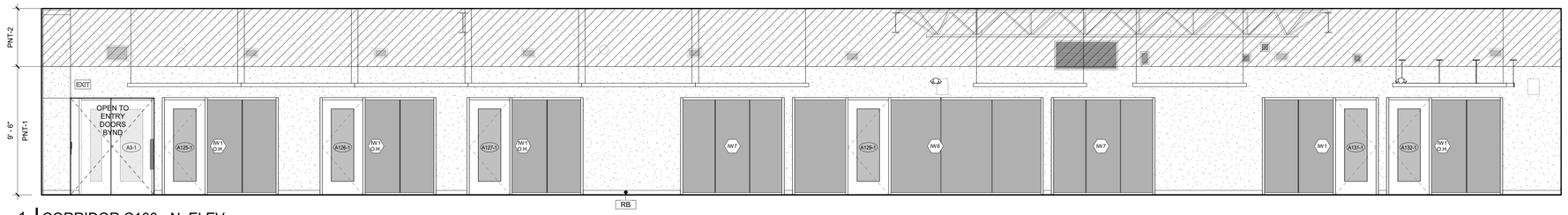
DATE: 03/03/2023
SG PROJECT NUMBER: 22-025

Key Plan:

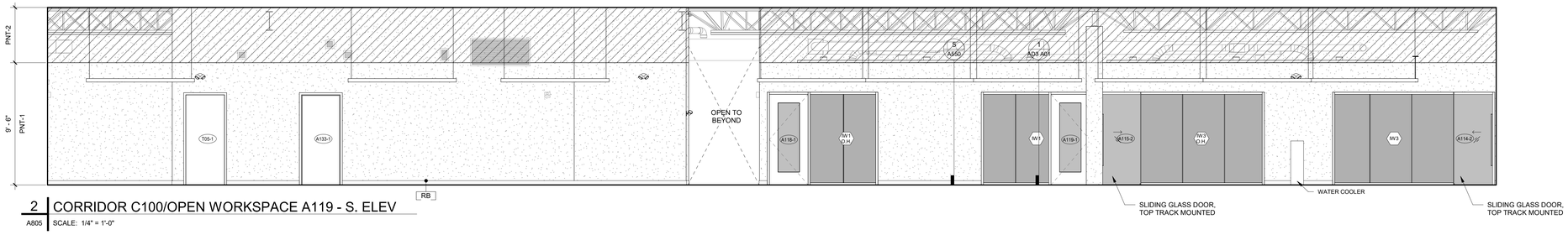
Drawing Title:
ENLARGED TOILET RM PLANS, ELEVATIONS & DETAILS

Drawing Number:
A801

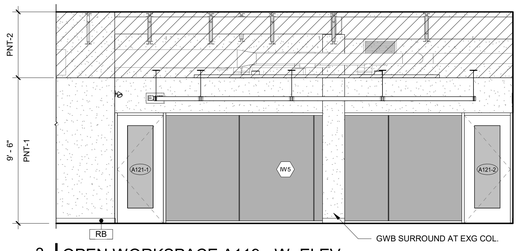
CONFORMED DRAWINGS



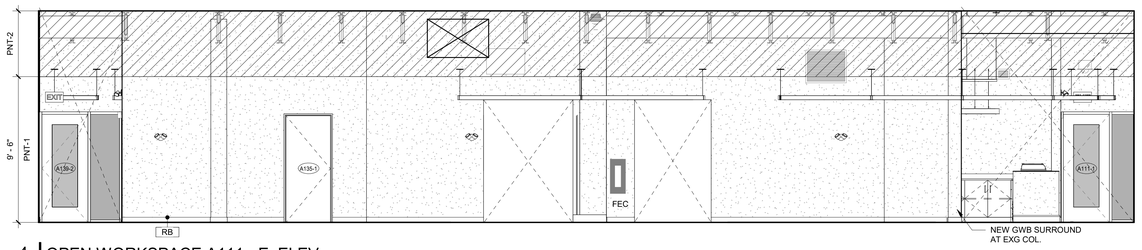
1 CORRIDOR C100 - N. ELEV
A805 SCALE: 1/4" = 1'-0"



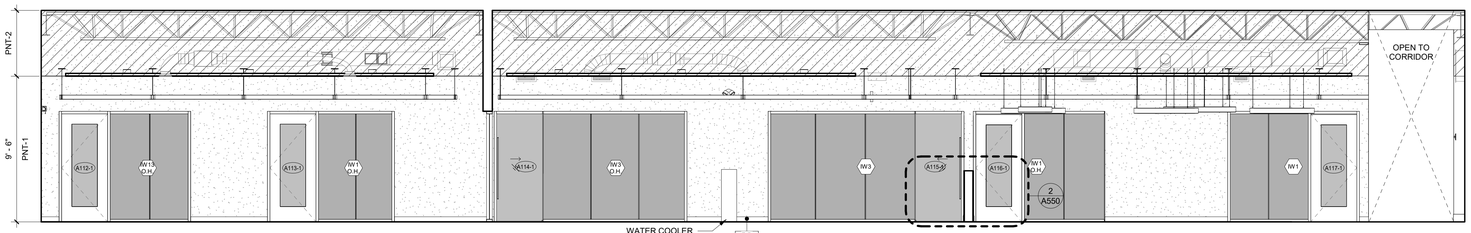
2 CORRIDOR C100/OPEN WORKSPACE A119 - S. ELEV
A805 SCALE: 1/4" = 1'-0"



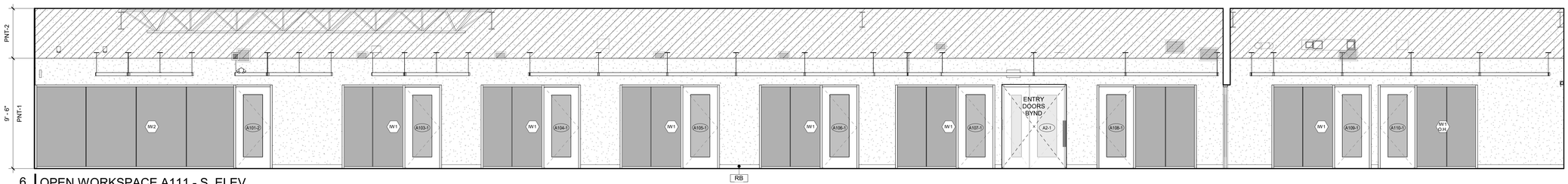
3 OPEN WORKSPACE A119 - W. ELEV
A805 SCALE: 1/4" = 1'-0"



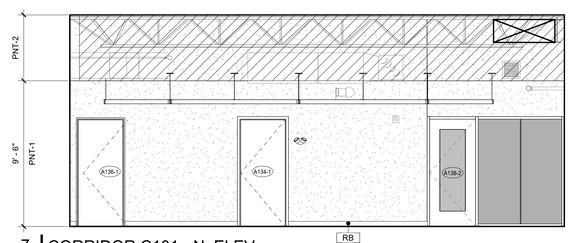
4 OPEN WORKSPACE A111 - E. ELEV
A805 SCALE: 1/4" = 1'-0"



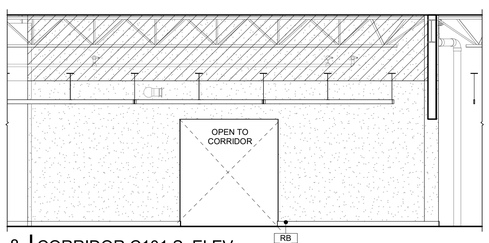
5 OPEN WORKSPACE A111 - N. ELEV
A805 SCALE: 1/4" = 1'-0"



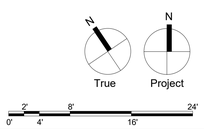
6 OPEN WORKSPACE A111 - S. ELEV
A805 SCALE: 1/4" = 1'-0"



7 CORRIDOR C101 - N. ELEV
A805 SCALE: 1/4" = 1'-0"



8 CORRIDOR C101 S. ELEV
A805 SCALE: 1/4" = 1'-0"



CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
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Consultants:

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Bethlehem, PA 18018
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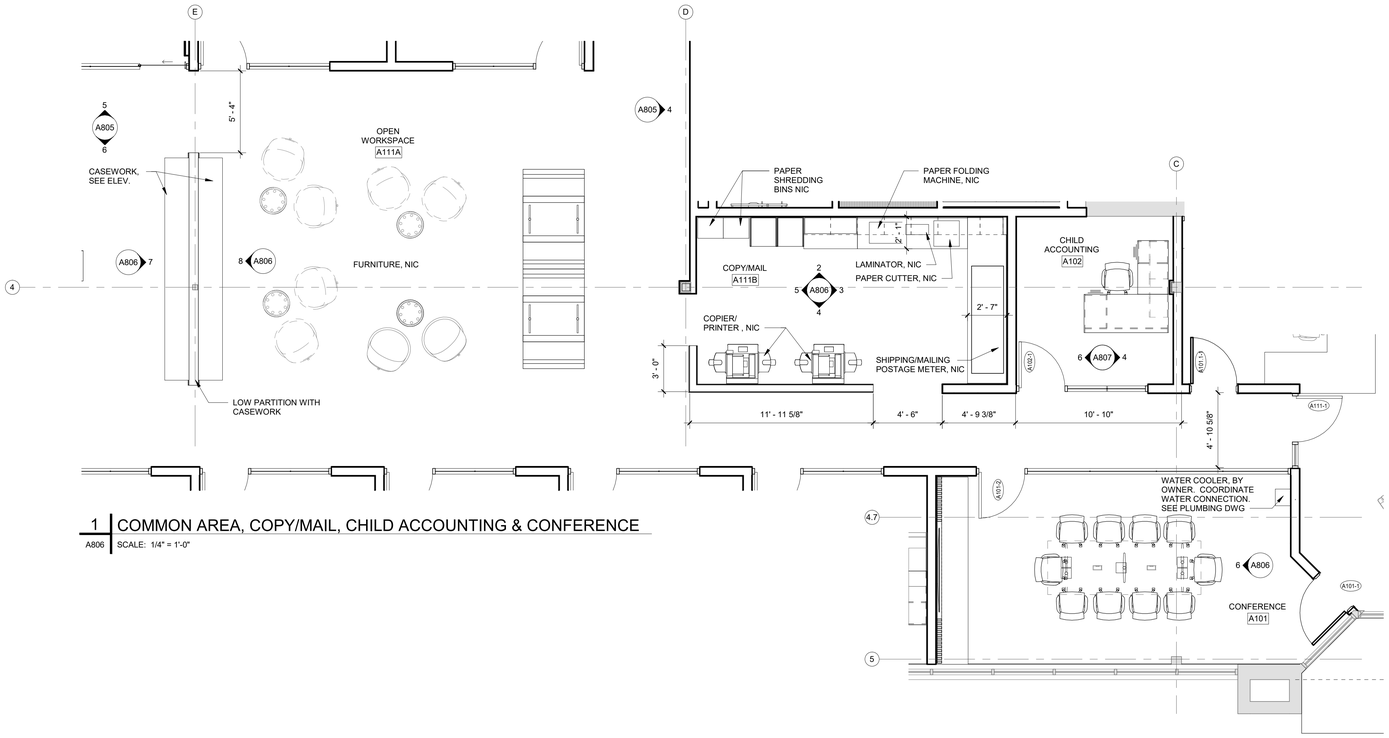
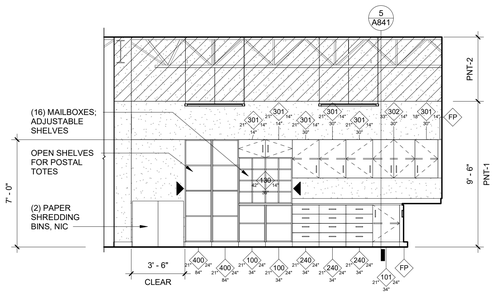
Key Plan:

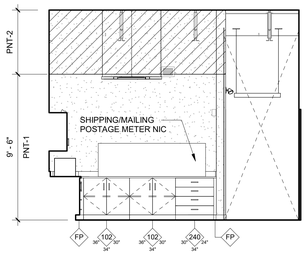
Drawing Title:
CORRIDOR/OPEN WORKSPACE ELEVATIONS
Drawing Number:
A805



1 COMMON AREA, COPY/MAIL, CHILD ACCOUNTING & CONFERENCE
A806 SCALE: 1/4" = 1'-0"



2 COPY/MAIL - N. ELEV
A806 SCALE: 1/4" = 1'-0"



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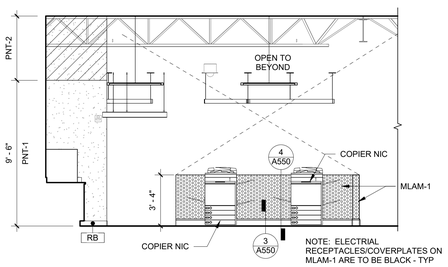
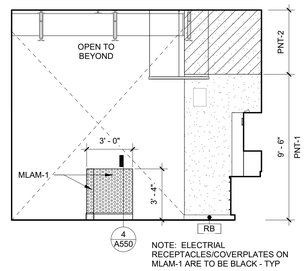
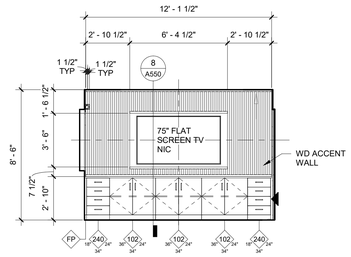
A806 SCALE: 1/4" = 1'-0"



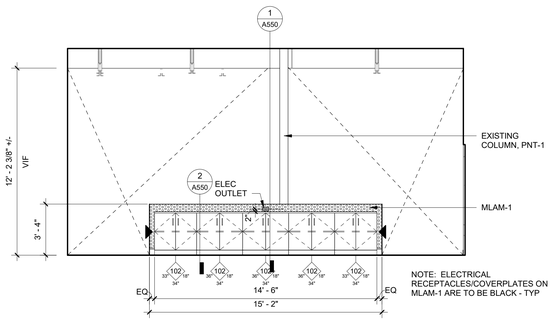
4 COPY/MAIL - S. ELEV
A806 SCALE: 1/4" = 1'-0"



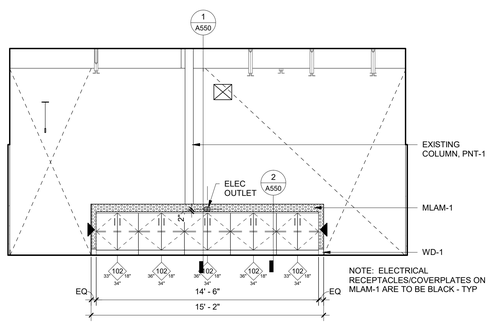
5 COPY/MAIL - W. ELEV
A806 SCALE: 1/4" = 1'-0"



6 CONFERENCE RM - W. ELEV
A806 SCALE: 1/4" = 1'-0"



7 OPEN WORKSPACE - E. ELEV - ALT-5
A806 SCALE: 1/4" = 1'-0"



8 OPEN WORKSPACE - W. ELEV
A806 SCALE: 1/4" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
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MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

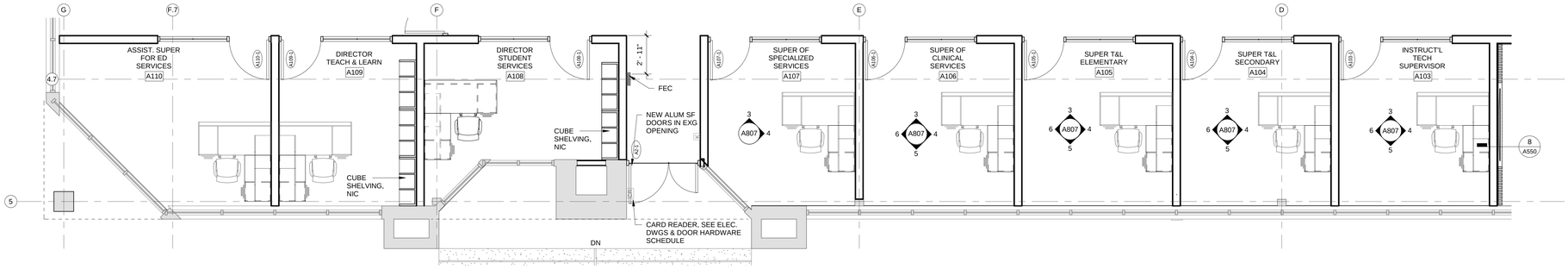
Key Plan:

Drawing Title:
CONFERENCE, RECEPTION, COPY ROOM

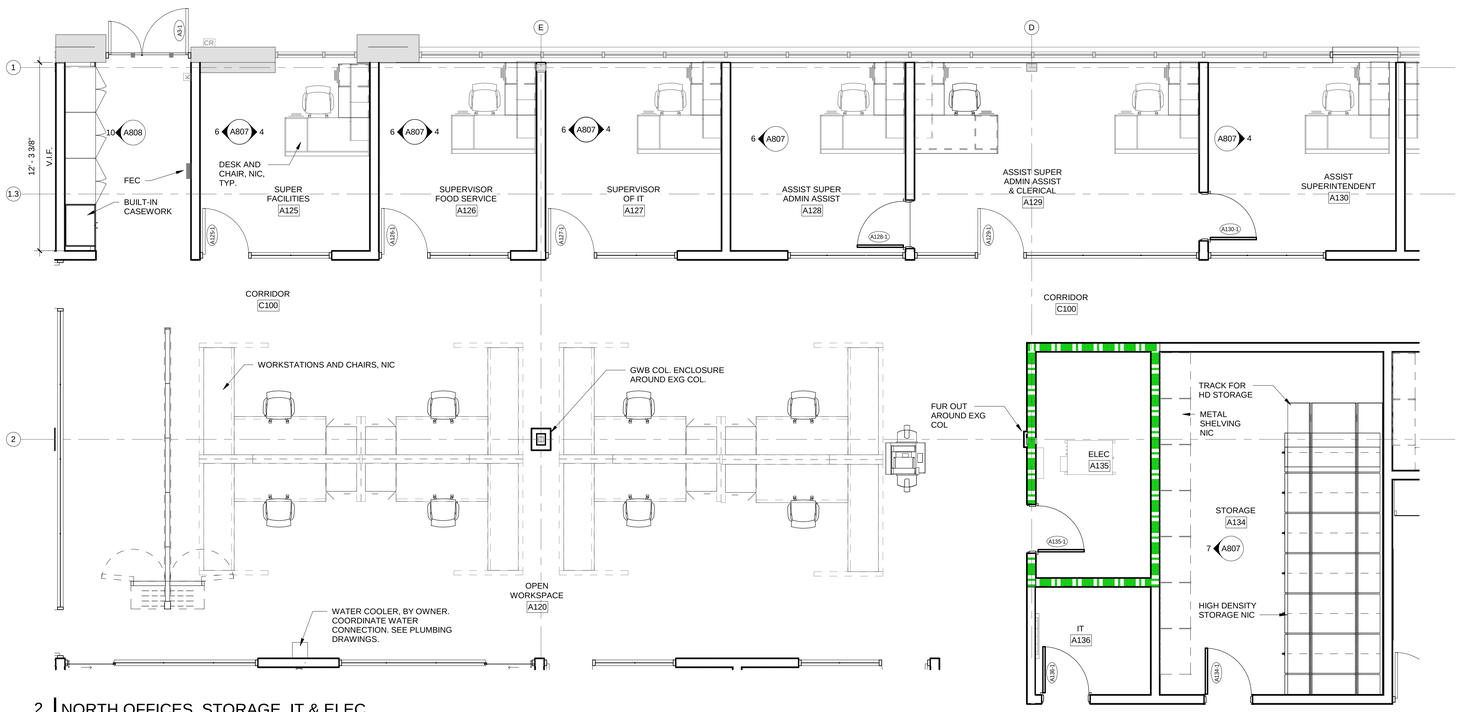
Drawing Number:
A806

True Project

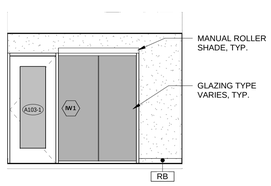
CONFORMED DRAWINGS



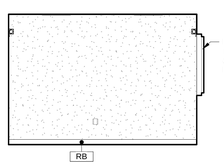
1 SOUTH OFFICES
A807 SCALE: 1/4" = 1'-0"



2 NORTH OFFICES, STORAGE, IT & ELEC
A807 SCALE: 1/4" = 1'-0"



3 TYPICAL OFFICE - ELEV A
A807 SCALE: 1/4" = 1'-0"



4 TYPICAL OFFICE - ELEV B
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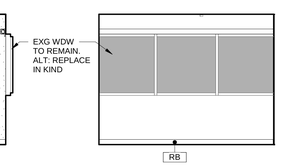
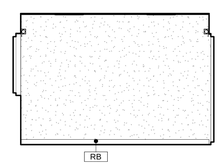


5 TYPICAL OFFICE - ELEV C
A807 SCALE: 1/4" = 1'-0"



6 TYPICAL OFFICE - ELEV D
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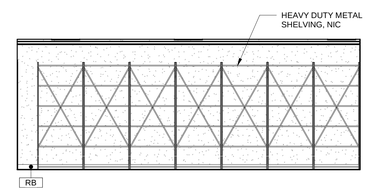

7 STORAGE - W. ELEV
A807 SCALE: 1/4" = 1'-0"

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161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
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1005 West Lehigh Street
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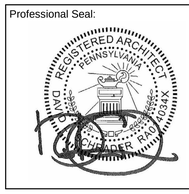
Structural Engineer

Address

Contact

Professional Seal:



Owner:
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Renovations to:
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MALVERN, PA 19355

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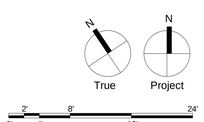
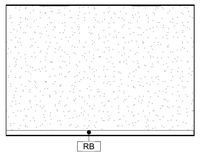
Key Plan:

Drawing Title:
TYPICAL OFFICE ENLARGED PLANS & ELEVATIONS

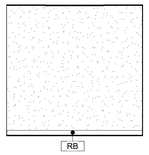
Drawing Number:
A807



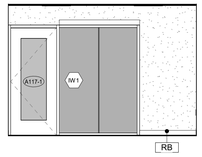
CONFORMED DRAWINGS



2 | INTERNAL OFFICE, TYP A
A808 | SCALE: 1/4" = 1'-0"



3 | INTERNAL OFFICE, TYP B
A808 | SCALE: 1/4" = 1'-0"



4 | INTERNAL OFFICE, TYP C
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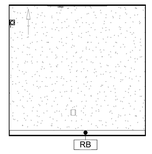

5 | INTERNAL OFFICE, TYP D
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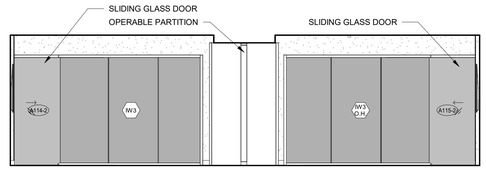
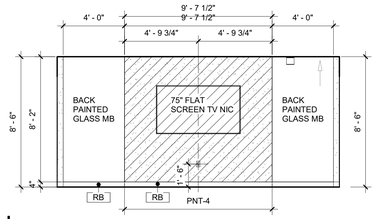
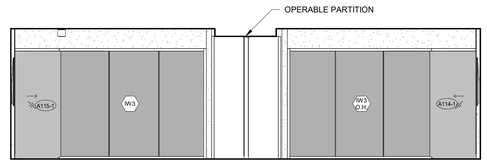


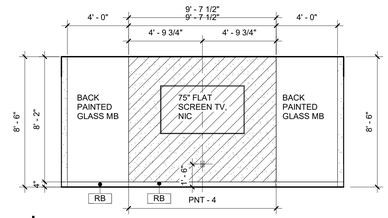
6 | CONFERENCE - N. ELEV
A808 | SCALE: 1/4" = 1'-0"



11 | CONFERENCE - E. ELEV
A808 | SCALE: 1/4" = 1'-0"



8 | CONFERENCE - S. ELEV
A808 | SCALE: 1/4" = 1'-0"



12 | CONFERENCE - W. ELEV
A808 | SCALE: 1/4" = 1'-0"

10 | VESTIBULE - W ELEV
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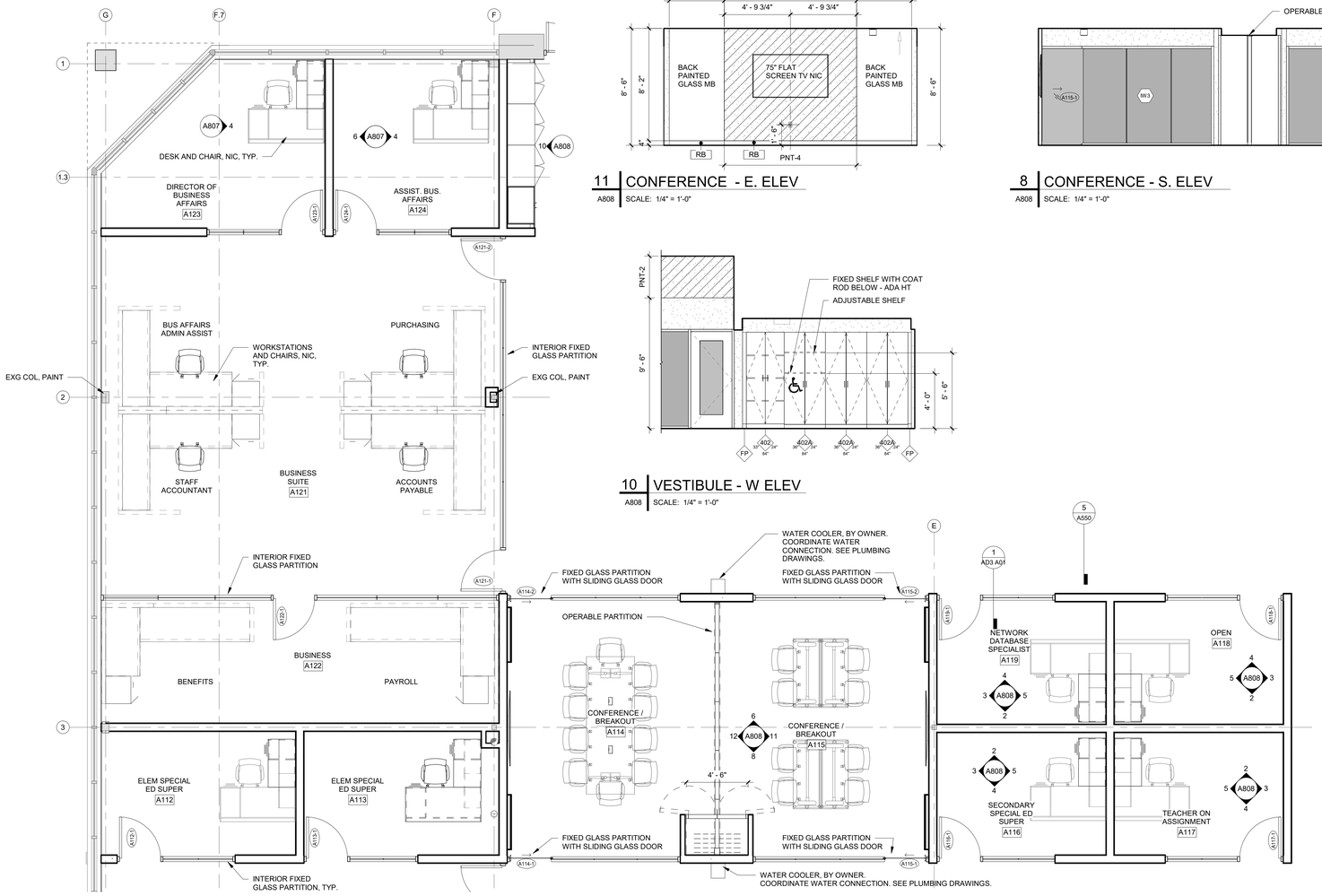
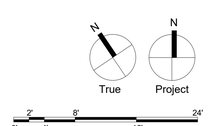


1 | BUSINESS SUITE, CONFERENCE/BREAKOUT ROOMS & OFFICES
A808 | SCALE: 1/4" = 1'-0"



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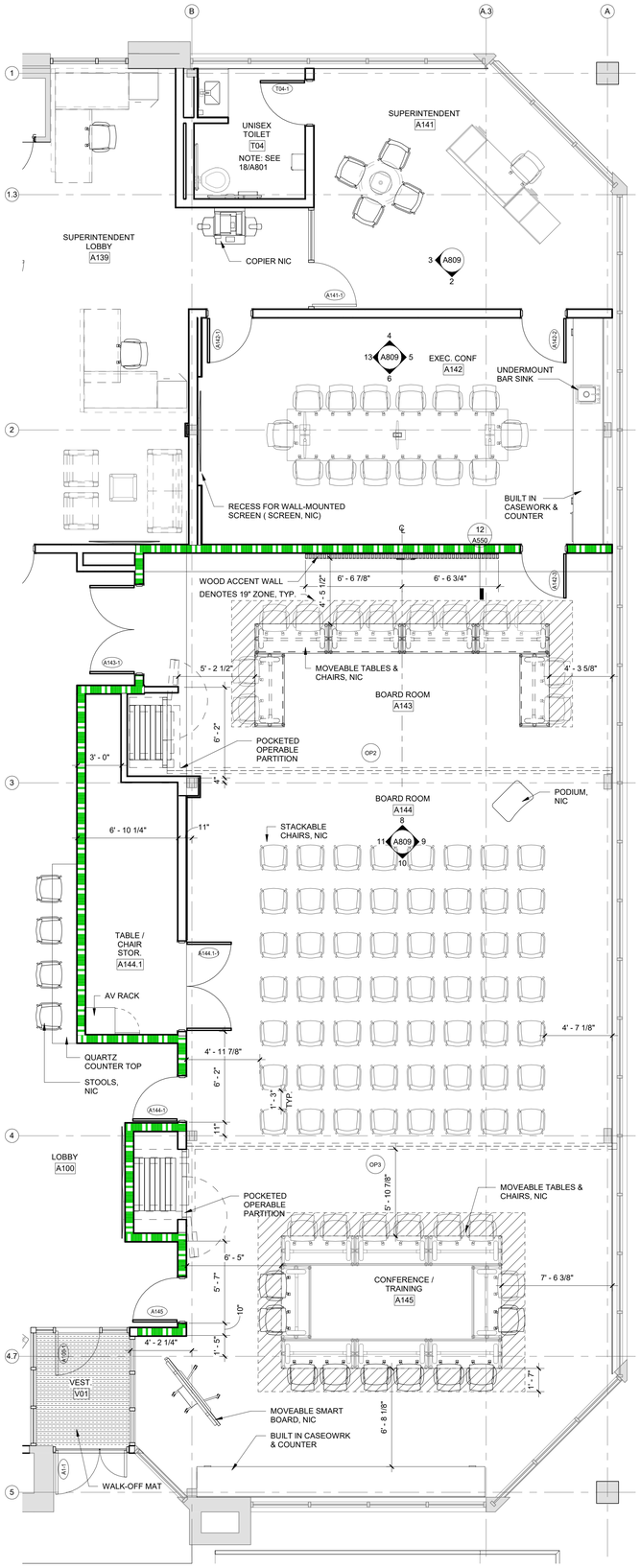
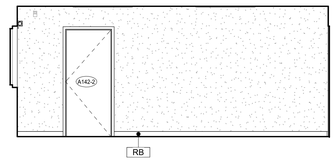
BUSINESS SUITE, CONF & OFFICES PLANS & ELEVS

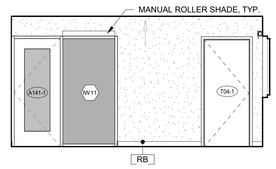
Drawing Number:
A808



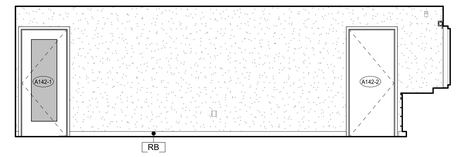
1 SUPERINTENDENT, EXEC. CONF & BD RM
A809 SCALE: 1/4" = 1'-0"



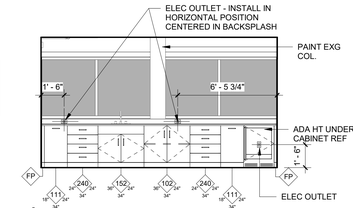
2 SUPERINTENDENT - S. ELEV
A809 SCALE: 1/4" = 1'-0"



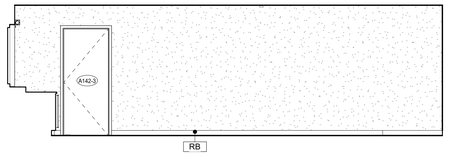
3 SUPERINTENDENT - W. ELEV
A809 SCALE: 1/4" = 1'-0"



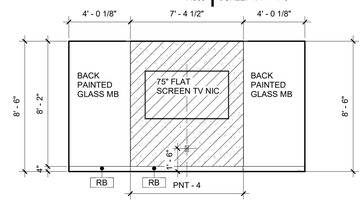
4 EXECUTIVE CONFERENCE - N. ELEV
A809 SCALE: 1/4" = 1'-0"



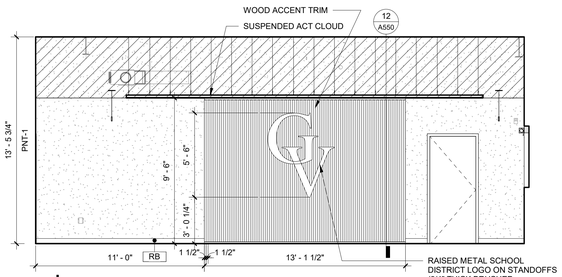
5 EXECUTIVE CONFERENCE - E. ELEV
A809 SCALE: 1/4" = 1'-0"



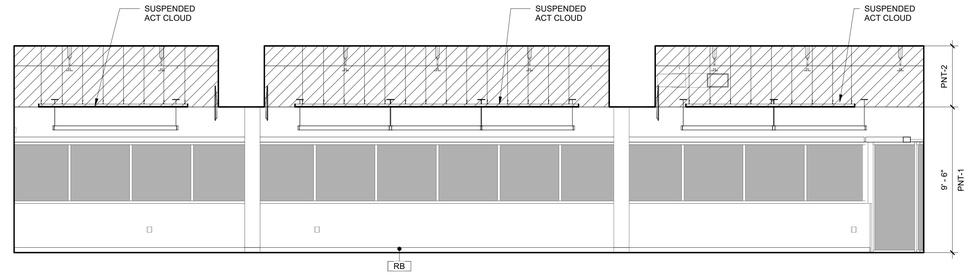
6 EXECUTIVE CONFERENCE - S. ELEV
A809 SCALE: 1/4" = 1'-0"



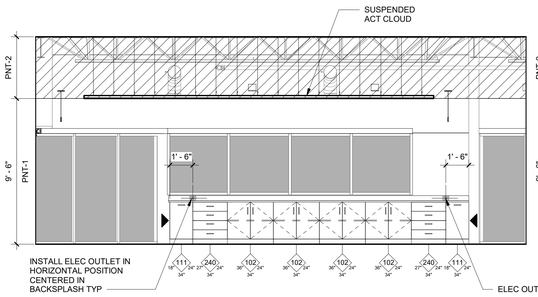
13 EXECUTIVE CONFERENCE - W. ELEV
A809 SCALE: 1/4" = 1'-0"



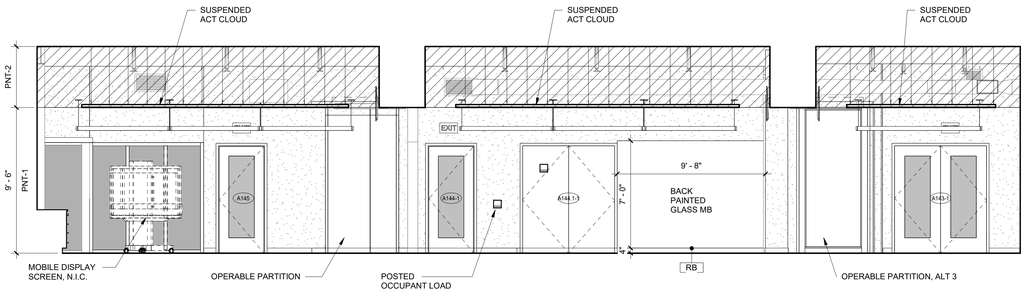
8 BOARD ROOM - N. ELEV
A809 SCALE: 1/4" = 1'-0"



9 IE - BOARD RM/CONF/TRAINING - E. ELEV
A809 SCALE: 1/4" = 1'-0"



10 CONF/TRAINING - S. ELEV
A809 SCALE: 1/4" = 1'-0"



11 BOARD RM/CONF/TRAINING - W. ELEV
A809 SCALE: 1/4" = 1'-0"

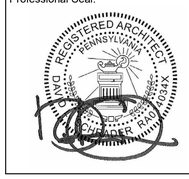
SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture, LLC
153 E. King Street, Ste 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal:



Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

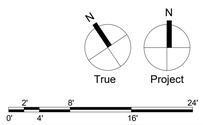
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

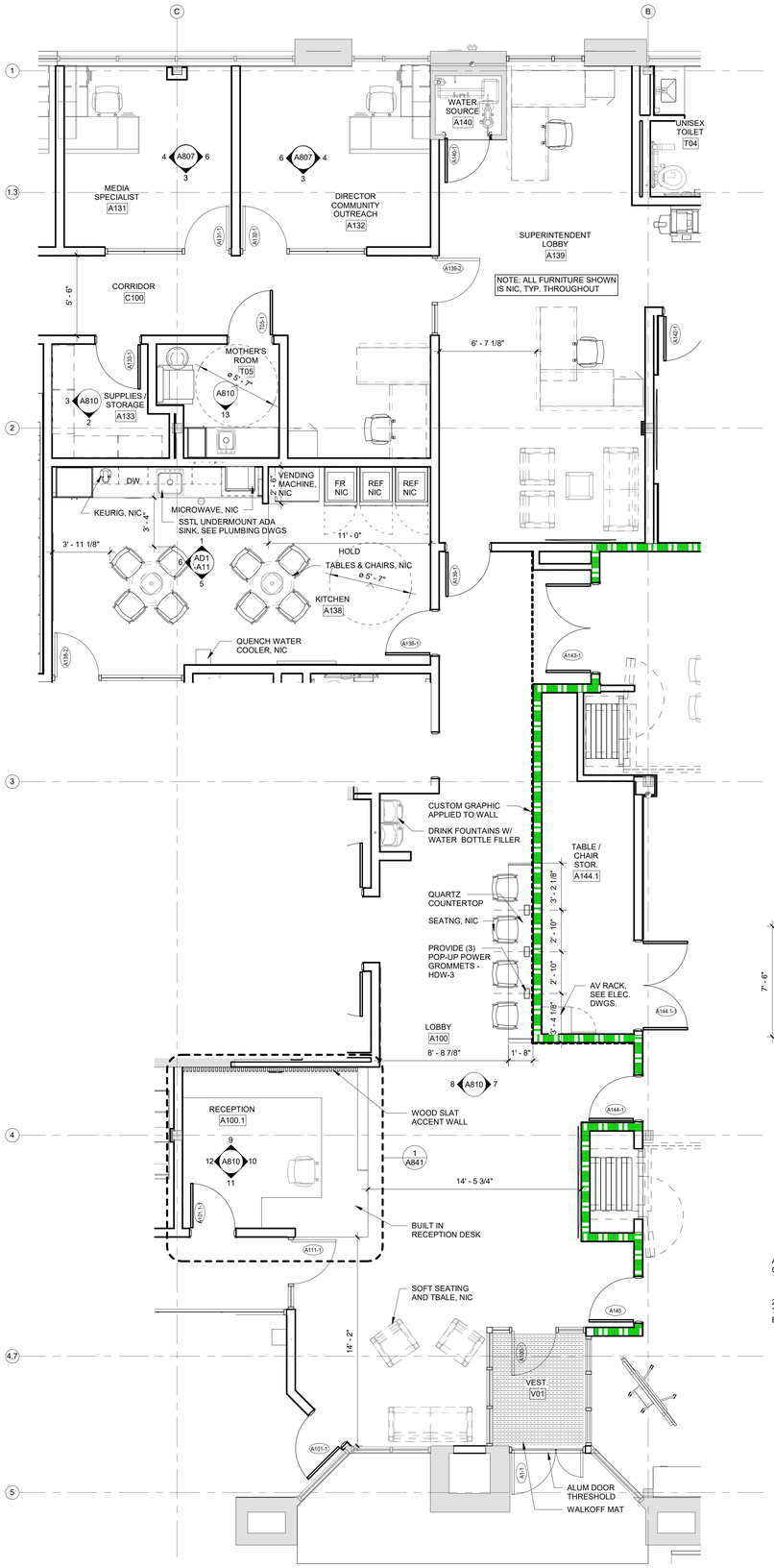
Key Plan:

Drawing Title:
ENLARGED PUBLIC & SUPERINTENDENT AREA PLANS & ELEVATIONS

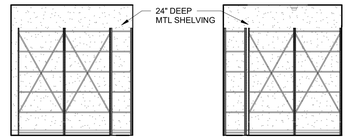
Drawing Number:
A809



CONFORMED DRAWINGS

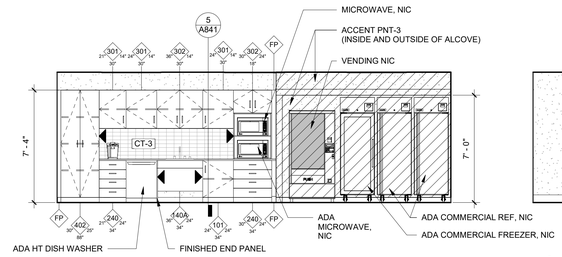


1 RECEPTION, LOBBIES, KITCHEN & OFFICES
A810 SCALE: 1/4" = 1'-0"

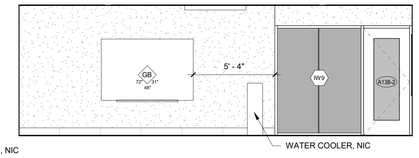


2 STORAGE - S. ELEV
A810 SCALE: 1/4" = 1'-0"

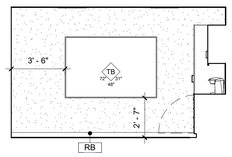
3 STORAGE - W. ELEV
A810 SCALE: 1/4" = 1'-0"



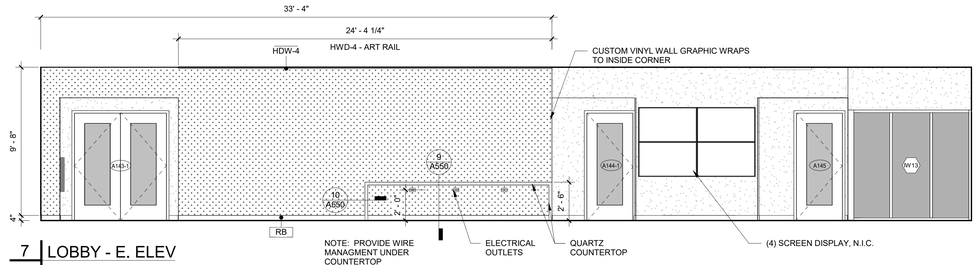
4 KITCHEN - N. ELEV
A810 SCALE: 1/4" = 1'-0"



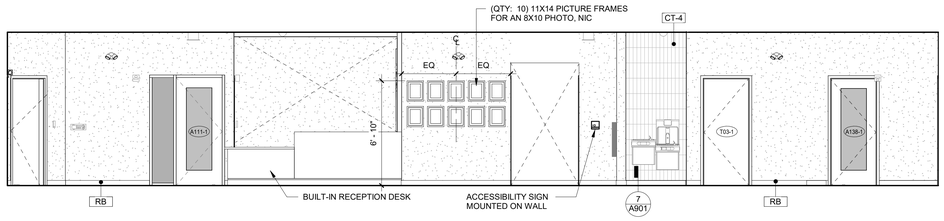
5 KITCHEN - S. ELEV
A810 SCALE: 1/4" = 1'-0"



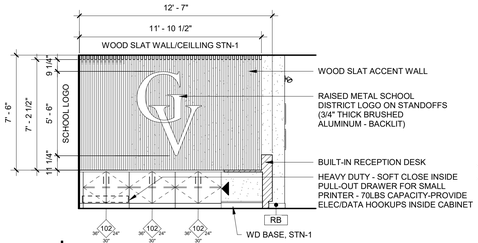
6 KITCHEN - W. ELEV
A810 SCALE: 1/4" = 1'-0"



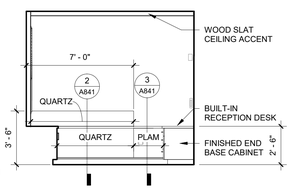
7 LOBBY - E. ELEV
A810 SCALE: 1/4" = 1'-0"



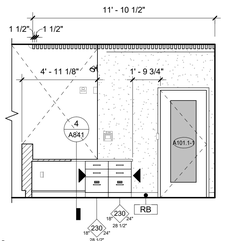
8 LOBBY - W. ELEV
A810 SCALE: 1/4" = 1'-0"



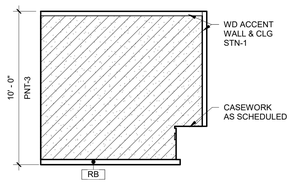
9 RECEPTION - N ELEV
A810 SCALE: 1/4" = 1'-0"



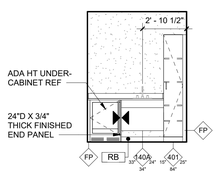
10 RECEPTION - E ELEV
A810 SCALE: 1/4" = 1'-0"



11 RECEPTION - S ELEV
A810 SCALE: 1/4" = 1'-0"



12 RECEPTION - W ELEV
A810 SCALE: 1/4" = 1'-0"



13 MOTHER'S ROOM - S ELEV
A810 SCALE: 1/4" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

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GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
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ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

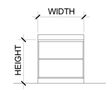
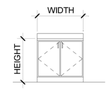
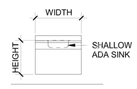
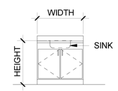
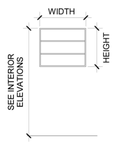
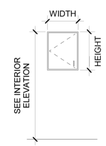
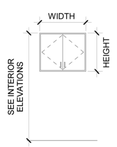
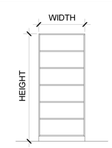
Drawing Title:
ENLARGED AREA PLANS & ELEVATIONS

Drawing Number:
A810

True N Project

CONFORMED DRAWINGS

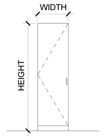
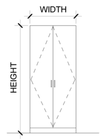
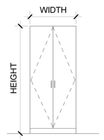
CASEWORK SCHEDULE

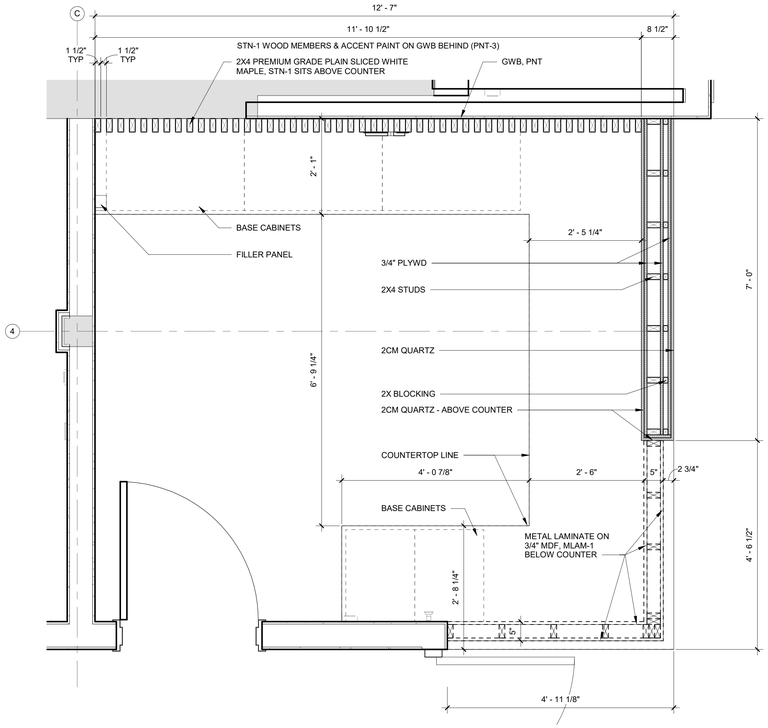
100		PLAM BASE CABINET WITH ADJUSTABLE SHELF NO ADJUSTABLE SHELF FOR 1' - 6" UNITS (2) ADJUSTABLE SHELVES FOR 3' - 0" UNITS (3) ADJUSTABLE SHELVES FOR 5' - 0" UNITS	Model	Height	Width	Depth
			100	2' - 10"	1' - 9"	2' - 0"
101		PLAM BASE CABINET WITH SINGLE DOOR W/ ADJUSTABLE SHELF	Model	Height	Width	Depth
			101	2' - 10"	1' - 9"	2' - 0"
			101	2' - 10"	2' - 0"	2' - 0"
102		PLAM BASE CABINET WITH DOUBLE DOORS W/ ADJUSTABLE SHELF	Model	Height	Width	Depth
			102	2' - 6"	3' - 0"	2' - 0"
			102	2' - 10"	2' - 9"	1' - 6"
			102	2' - 10"	3' - 0"	1' - 6"
			102	2' - 10"	3' - 0"	2' - 0"
			102	2' - 10"	3' - 0"	2' - 6"
111		PLAM BASE CABINET WITH PULL OUT DRAWER	Model	Height	Width	Depth
			111	2' - 10"	1' - 6"	2' - 0"
130		PLAM OPEN CUBBIES	Model	Height	Width	Depth
			130	3' - 0"	3' - 6"	1' - 2"
140A		PLAM ADA SINK BASE	Model	Height	Width	Depth
			140A	2' - 10"	2' - 6"	2' - 0"
			140A	2' - 10"	2' - 9"	2' - 0"
			140A	2' - 10"	3' - 0"	2' - 0"
			140A	2' - 10"	3' - 4"	2' - 0"
			140A	2' - 10"	3' - 6"	2' - 0"
			140A	2' - 10"	4' - 0"	2' - 0"
152		PLAM SINK BASE CABINET W/ DOUBLE DOOR & ADJUSTABLE SHELF	Model	Height	Width	Depth
			152	2' - 10"	3' - 0"	2' - 0"
230		PLAM FILE CABINET WITH TWO UPPER DRAWERS	Model	Height	Width	Depth
			230	2' - 4 1/2"	1' - 6"	2' - 0"
240		PLAM BASE WITH FOUR DRAWERS	Model	Height	Width	Depth
			240	2' - 10"	1' - 6"	2' - 0"
			240	2' - 10"	1' - 9"	2' - 0"
			240	2' - 10"	2' - 0"	2' - 0"
			240	2' - 10"	2' - 3"	2' - 0"
			240	2' - 10"	2' - 6"	2' - 0"
300		PLAM UPPER CABINET WITH ADJUSTABLE SHELVES (REFER TO ELEVATIONS FOR THE NUMBER OF SHELVES TO BE PROVIDED) NOTE: PROVIDE GROMMETS FOR CORDS FOR MICROWAVES	Model	Height	Width	Depth
			300	3' - 0"	2' - 6"	2' - 0"
301		PLAM UPPER CABINET WITH SINGLE DOOR AND ADJUSTABLE SHELVES	Model	Height	Width	Depth
			301	1' - 2"	1' - 9"	1' - 2"
			301	2' - 6"	1' - 6"	1' - 2"
			301	2' - 6"	1' - 9"	1' - 2"
			301	2' - 6"	2' - 0"	1' - 2"
302		PLAM UPPER CABINET WITH DOUBLE DOORS AND ADJUSTABLE SHELVES	Model	Height	Width	Depth
			302	1' - 6"	2' - 6"	2' - 0"
			302	2' - 6"	2' - 9"	1' - 2"
			302	2' - 6"	3' - 0"	1' - 2"
400		PLAM TALL CABINET WITH OPEN ADJUSTABLE SHELVES	Model	Height	Width	Depth
			400	7' - 0"	1' - 9"	2' - 0"

NOTES:

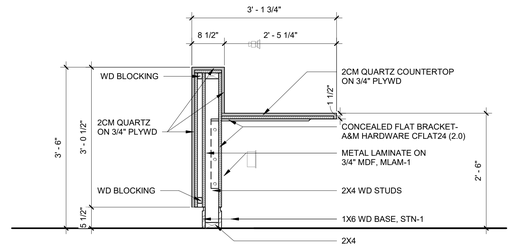
1. CONTRACTOR TO PROVIDE CASEWORK FILLER PANELS TO MATCH CASEWORK FINISH WHERE NECESSARY TO COMPLETE A LINE OF CASEWORK.
2. CONTRACTOR TO REVIEW ALL MECHANICAL, PLUMBING, ELECTRICAL, AND A/V DRAWINGS TO COORDINATE LOCATION OF ALL SERVICES THAT MAY BE ROUTED THROUGH AND AROUND CASEWORK.
3. FOR EXACT ELEVATION OF DOORS AND WINDOWS, REFER TO DOOR AND WINDOW ELEVATION DRAWINGS.
4. ALL BASE CASEWORK WITH HEIGHT @ 2'-10" SHALL HAVE ACTUAL DIMENSIONS TO ENSURE HEIGHT OF SINK DOES NOT EXCEED 34" A.F.F. THIS APPLIES TO ALL BASE CASEWORK WITH AND WITHOUT SINKS IN ORDER TO KEEP HEIGHTS UNIFORM.

CASEWORK SCHEDULE

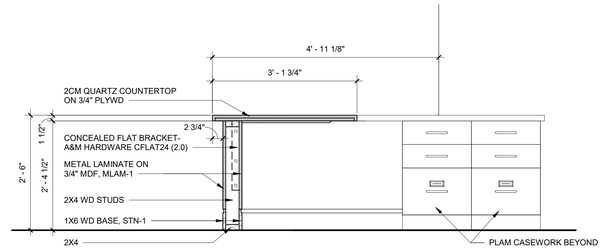
401		PLAM TALL CABINET WITH DOUBLE DOORS AND ADJUSTABLE SHELVES	Model	Height	Width	Depth
			402	7' - 0"	2' - 9"	2' - 0"
			402	7' - 4"	2' - 6"	2' - 1"
402			Model	Height	Width	Depth
			402A	7' - 0"	3' - 0"	2' - 0"
402A		PLAM TALL WARDROBE CABINET WITH DOUBLE DOORS				
FP						



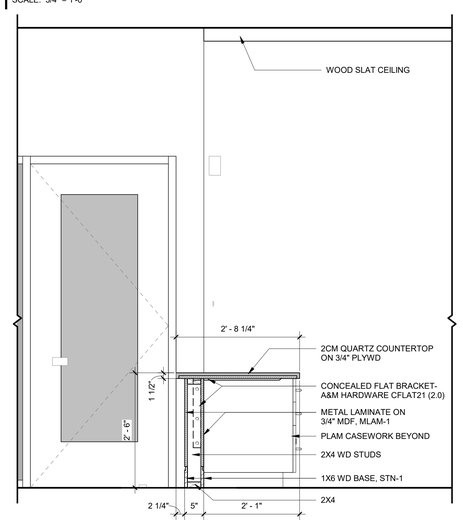
1 RECEPTION DESK PLAN DETAIL
A841 SCALE: 3/4" = 1'-0"



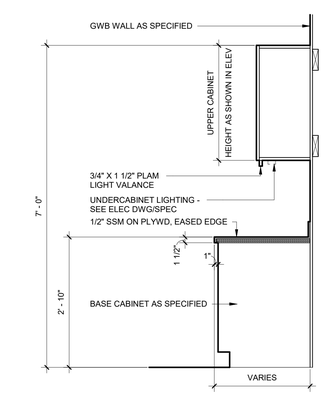
2 RECEPTION DESK DETAIL
A841 SCALE: 3/4" = 1'-0"



3 RECEPTION DESK DETAIL
A841 SCALE: 3/4" = 1'-0"



4 RECEPTION DESK DETAIL
A841 SCALE: 3/4" = 1'-0"



5 TYPICAL CASEWORK DETAIL
A841 SCALE: 3/4" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture, LLC
153 E. King Street, Ste 211-212
Lancaster, PA 17602
717.299.8965

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
CASEWORK LEGEND & DETAILS

Drawing Number:
A841

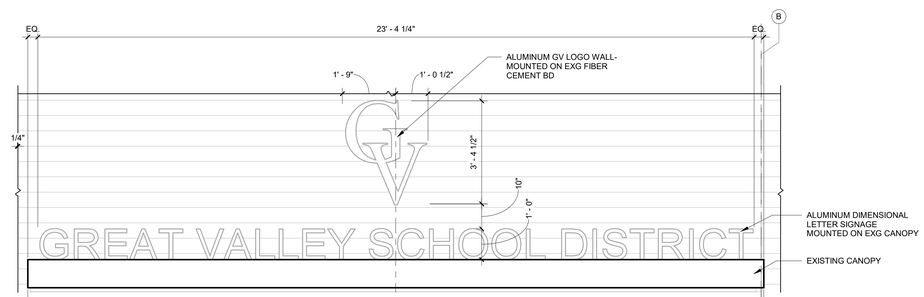
CONFORMED DRAWINGS

SIGNAGE SCHEDULE

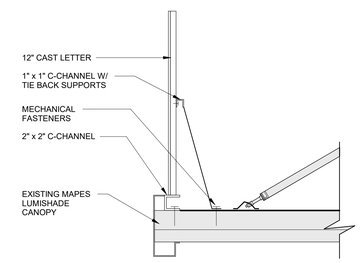
DOOR NO.	From Rm: Number	From Rm: Name	To Rm: Number	To Rm: Name	SIGN TYPE	NUMBER ON SIGN	TEXT ON SIGN	COMMENTS
	A145	CONFERENCE / TRAINING						
A1-1			V01	VEST.	-			
A2-1	V02	VEST.			-			
A3-1			V03	VEST.	-			
A100-1	V01	VEST.	A100	LOBBY	-			
A101-1	A100	LOBBY	A101	CONFERENCE	3			
A101-2	A111A	OPEN WORKSPACE	A101	CONFERENCE	3			
A101.1-1	A111A	OPEN WORKSPACE	A100.1	RECEPTION	3			
A102-1	A102	CHILD ACCOUNTING	A111A	OPEN WORKSPACE	3			
A103-1	A111A	OPEN WORKSPACE	A103	INSTRUCT'L TECH SUPERVISOR	3			
A104-1	A111A	OPEN WORKSPACE	A104	SUPER T&L SECONDARY	3			
A105-1	A111A	OPEN WORKSPACE	A105	SUPER T&L ELEMENTARY	3			
A106-1	A111A	OPEN WORKSPACE	A106	SUPER OF CLINICAL SERVICES	3			
A107-1	A111A	OPEN WORKSPACE	A107	SUPER OF SPECIALIZED SERVICES	3			
A108-1	A108	DIRECTOR STUDENT SERVICES	A111A	OPEN WORKSPACE	3			
A109-1	A111	T&L SUITE	A109	DIRECTOR TEACH & LEARN	3			
A110-1	A110	ASSIST. SUPER FOR ED SERVICES	A111	T&L SUITE	3			
A111-1	A111A	OPEN WORKSPACE	A100	LOBBY	3			
A111-2	A111	T&L SUITE	A111A	OPEN WORKSPACE	3			
A111-3	A111	T&L SUITE	A111A	OPEN WORKSPACE	3			
A112-1	A112	ELEM SPECIAL ED SUPER	A111	T&L SUITE	3			
A113-1	A113	ELEM SPECIAL ED SUPER	A111	T&L SUITE	3			
A114-1	A114	CONFERENCE / BREAKOUT	A111A	OPEN WORKSPACE	3			
A114-2	A120	OPEN WORKSPACE	A114	CONFERENCE / BREAKOUT	3			
A115-1	A111A	OPEN WORKSPACE	A115	CONFERENCE / BREAKOUT	3			
A115-2	A115	CONFERENCE / BREAKOUT	A120	OPEN WORKSPACE	3			
A116-1	A116	SECONDARY SPECIAL ED SUPER	A111A	OPEN WORKSPACE	3			
A117-1	A111A	OPEN WORKSPACE	A117	TEACHER ON ASSIGNMENT	3			
A118-1	A118	OPEN	A120	OPEN WORKSPACE	3			
A119-1	A120	OPEN WORKSPACE	A119	NETWORK DATABASE SPECIALIST	3			
A121-1	A121	BUSINESS SUITE	A120	OPEN WORKSPACE	3			
A121-2	A121	BUSINESS SUITE	C100	CORRIDOR	3			
A122-1	A122	BUSINESS	A121	BUSINESS SUITE	3			
A123-1	A121	BUSINESS SUITE	A123	DIRECTOR OF BUSINESS AFFAIRS	3			
A124-1	A121	BUSINESS SUITE	A124	ASSIST. BUS. AFFAIRS	3			
A125-1	A125	SUPER FACILITIES	C100	CORRIDOR	3			
A126-1	A126	SUPERVISOR FOOD SERVICE	C100	CORRIDOR	3			
A127-1	A127	SUPERVISOR OF IT	C100	CORRIDOR	3			
A128-1	A129	ASSIST SUPER ADMIN ASSIST & CLERICAL	A128	ASSIST SUPER ADMIN ASSIST	3			
A129-1	C100	CORRIDOR	A129	ASSIST SUPER ADMIN ASSIST & CLERICAL	3			
A130-1	A129	ASSIST SUPER ADMIN ASSIST & CLERICAL	A130	ASSIST SUPERINTENDENT	3			
A131-1	C100	CORRIDOR	A131	MEDIA SPECIALIST	3			
A132-1	A132	DIRECTOR COMMUNITY OUTREACH	C100	CORRIDOR	3			
A133-1	C100	CORRIDOR	A133	SUPPLIES / STORAGE	2			
A134-1	C101	CORRIDOR	A134	STORAGE	4			
A135-1	A120	OPEN WORKSPACE	A135	ELEC	4			
A136-1	C101	CORRIDOR	A136	IT	4			
A137-1	C101	CORRIDOR	A137	JAN.	2			
A138-1	A100	LOBBY	A138	KITCHEN	3			
A138-2	C101	CORRIDOR	A138	KITCHEN	3			
A139-1	A139	SUPERINTENDENT LOBBY	A100	LOBBY	3			
A139-2	A139	SUPERINTENDENT LOBBY	C100	CORRIDOR	3			
A140-1	A140	WATER SOURCE	A139	SUPERINTENDENT LOBBY	2			
A141-1	A139	SUPERINTENDENT LOBBY	A141	SUPERINTENDENT	3			
A142-1	A142	EXEC. CONF	A139	SUPERINTENDENT LOBBY	3			
A142-2	A141	SUPERINTENDENT	A142	EXEC. CONF	3			
A142-3	A142	EXEC. CONF	A143	BOARD ROOM	3			
A143-1	A143	BOARD ROOM	A100	LOBBY	3			
A144-1	A144	BOARD ROOM	A100	LOBBY	3			
A144.1-1	A144	BOARD ROOM	A144.1	TABLE / CHAIR STOR.	2			
A145	A145	CONFERENCE / TRAINING	A100	LOBBY	3			
T01-1	A100	LOBBY	T01	MALE TOILET	1B			
T02-1	A100	LOBBY	T02	FEMALE TOILET	1C			
T02-12	C101	CORRIDOR	C102	CORRIDOR	3			
T03-1	A100	LOBBY	T03	UNISEX TOILET	1A			
T04-1	A141	SUPERINTENDENT	T04	UNISEX TOILET	1A			
T04-2	A100	LOBBY	T01	MALE TOILET	1A			
T05-1	T05	MOTHER'S ROOM	C100	CORRIDOR	4			
T06-1	C102	CORRIDOR	T06	UNISEX TOILET	1A			
T07-1	C102	CORRIDOR	T07	UNISEX TOILET	1A			
T08-1	C102	CORRIDOR	T08	UNISEX TOILET	1A			
NOTE: TEXT ON SIGNAGE TO BE CONFIRMED WITH SCHOOL DISTRICT DURING SUBMITTAL REVIEW.								
T10-1	T10	COAT CLOS.	C102	CORRIDOR	2			

SIGNAGE SCHEDULE

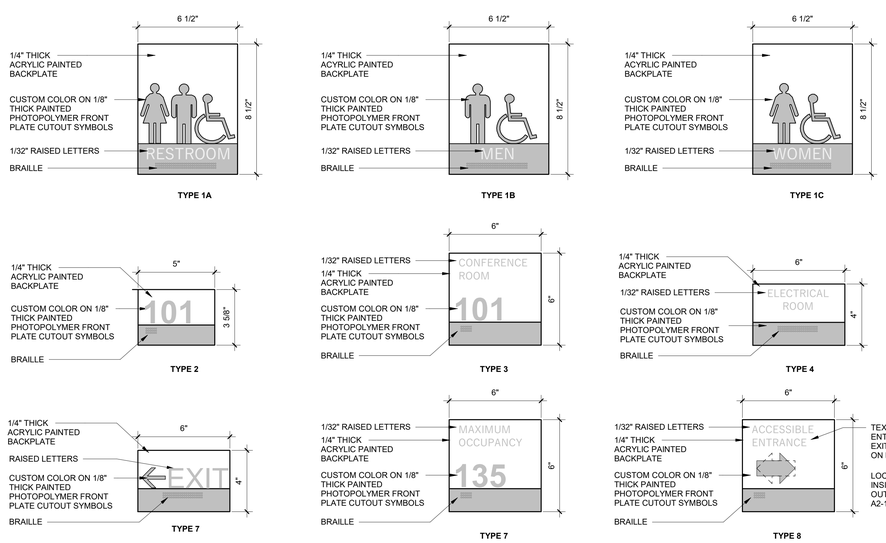
DOOR NO.	From Rm: Number	From Rm: Name	To Rm: Number	To Rm: Name	SIGN TYPE	NUMBER ON SIGN	TEXT ON SIGN	COMMENTS



2 DIMENSIONAL LETTER SIGNAGE LAYOUT
A851 SCALE: 1/2" = 1'-0"

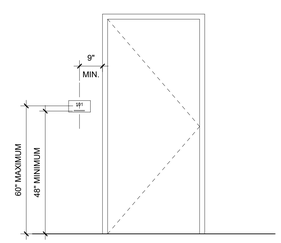


3 SIGNAGE MOUNTING DETAIL
A851 SCALE: 1 1/2" = 1'-0"



1 SIGN TYPES
A851 SCALE: 3" = 1'-0"

NOTES:
1.SIGNAGE WILL BE MOUNTED VIA DOUBLE FACED TAPE AND SILICONE
2.FONT IS TO BE FUTURA
3.PROVIDE BACKPLATE FOR SIGNAGE MOUNTED ON GLASS



4 TYP SIGNAGE DOOR LOCATION
A851 SCALE: 1/2" = 1'-0"

CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
610.694.8020

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153 E. King Street, Ste 211-212
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301 LINDENWOOD DRIVE SUITE 210
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100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023
SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
SIGNAGE SCHEDULE AND DETAILS

Drawing Number:
A851

ROOM FINISH SCHEDULE

ROOM #	Name	FLOOR FINISH	BASE TYPE	WALL FINISH	WINDOW SILL FINISH	CEILING MATERIAL	CEILING FINISH	CASEWORK FINISH COUNTERTOP	CASEWORK FINISH CABINET	COMMENTS
A100	LOBBY	CT-1	RB-1	PNT-1/CT-4/VWC-2	-	GWB	PNT-5	QTZ-1	-	SEE INTERIOR ELEVATIONS
A100.1	RECEPTION	CPT-1	RB/WD-1	PNT-1/PNT-3/WD STN-1	-	GWB/WD	PNT-3/STN-1	QTZ-1	PLAM-1/MLAM-1	SEE INTERIOR ELEVATIONS
A101	CONFERENCE	CPT-3	RB-1	PNT-1/WD	SSM-1	AB-1/GWB	-/PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
A102	CHILD ACCOUNTING	CPT-1	RB-1	PNT-1	-	ACT-2A	-	-	-	HDW-2
A103	INSTRUCT'L TECH SUPERVISOR	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A104	SUPER T&L SECONDARY	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A105	SUPER T&L ELEMENTARY	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A106	SUPER OF CLINICAL SERVICES	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A107	SUPER OF SPECIALIZED SERVICES	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A108	DIRECTOR STUDENT SERVICES	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A109	DIRECTOR TEACH & LEARN	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A110	ASSIST. SUPER FOR ED SERVICES	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A111	T&L SUITE	CPT-1	RB-1	PNT-1/PNT-2	SSM-1	ACT-2A/EXP	-/PNT-2	-	-	SEE INTERIOR ELEVATIONS
A111A	OPEN WORKSPACE	CPT-1/LVT-1	RB-1	PNT-1/PNT-2	-	ACT-2A/EXP	-/PNT-2	-	-	SEE INTERIOR ELEVATIONS & ALTERNATE 5
A111B	COPY/MAIL	CPT-1	RB/WD-1	PNT-1/PNT-2/MLAM-1	-	EXP	PNT-2	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
A112	ELEM SPECIAL ED SUPER	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A113	ELEM SPECIAL ED SUPER	CPT-1	RB-1	PNT-1	-	ACT-2A	-	-	-	HDW-2
A114	CONFERENCE / BREAKOUT	CPT-3	RB-1	PNT-1/PNT-4	-	ACT-2A/GWB	-/PNT-5	-	-	SEE INTERIOR ELEVATIONS & ALTERNATE 4
A115	CONFERENCE / BREAKOUT	CPT-3	RB-1	PNT-1/PNT-4	-	ACT-2A/GWB	-/PNT-5	-	-	SEE INTERIOR ELEVATIONS & ALTERNATE 4
A116	SECONDARY SPECIAL ED SUPER	CPT-1	RB-1	PNT-1	-	ACT-2A	-	-	-	HDW-2
A117	TEACHER ON ASSIGNMENT	CPT-1	RB-1	PNT-1	-	ACT-2A	-	-	-	HDW-2
A118	OPEN	CPT-1	RB-1	PNT-1	-	ACT-2A	-	-	-	HDW-2
A119	NETWORK DATABASE SPECIALIST	CPT-1	RB-1	PNT-1	-	ACT-2A	-	-	-	HDW-2
A120	OPEN WORKSPACE	CPT-1/LVT-1	RB-1	PNT-1/PNT-2	-	ACT-2A/EXP	-/PNT-2	-	-	
A121	BUSINESS SUITE	CPT-1	RB-1	PNT-1/PNT-2	SSM-1	ACT-2A/EXP	-/PNT-2	-	-	SEE INTERIOR ELEVATIONS
A122	BUSINESS	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A123	DIRECTOR OF BUSINESS AFFAIRS	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A124	ASSIST. BUS. AFFAIRS	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A125	SUPER FACILITIES	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A126	SUPERVISOR FOOD SERVICE	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A127	SUPERVISOR OF IT	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A128	ASSIST SUPER ADMIN ASSIST	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A129	ASSIST SUPER ADMIN ASSIST & CLERICAL	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	(QTY:2) HDW-2
A130	ASSIST SUPERINTENDENT	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A131	MEDIA SPECIALIST	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A132	DIRECTOR COMMUNITY OUTREACH	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	HDW-2
A133	SUPPLIES / STORAGE	CONC-1	RB-1	PNT-1	-	ACT-2A	-	-	-	METAL SHELVING
A134	STORAGE	CPT-1	RB-1	PNT-1	-	ACT-2A	-	-	-	METAL SHELVING & HIGH DENSITY STORAGE
A135	ELEC	CONC-1	RB-1	PNT-1	-	EXP	PNT-1	-	-	
A136	IT	CONC-1	RB-1	PNT-1	-	EXP	PNT-1	-	-	
A137	JAN.	CONC-1	RB-1	FRP-1/PNT-1	-	EXP	PNT-1	-	-	SEE INTERIOR ELEVATIONS
A138	KITCHEN	LVT-1	RB-1	PNT-1/PNT-3/CT-3	-	ACT-2A	-	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
A139	SUPERINTENDENT LOBBY	CPT-1	RB-1	PNT-1	SSM-1	GWB	PNT-5	-	-	
A140	WATER SOURCE	CONC-1	RB-1	PNT-1	-	EXP	PNT-1	-	-	
A141	SUPERINTENDENT	CPT-1	RB-1	PNT-1	SSM-1	ACT-2A	-	-	-	
A142	EXEC. CONF	CPT-3	RB-1	PNT-1/PNT-4	SSM-1	AB-1/GWB	-/PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS & ALTERNATE 4
A143	BOARD ROOM	CPT-2	RB-1	PNT-1/PNT-2/WD	SSM-1	ACT-2A/EXP/GWB	-/PNT-2/PNT-5	-	-	SEE INTERIOR ELEVATIONS
A144	BOARD ROOM	CPT-2	RB-1	PNT-1/PNT-2	SSM-1	ACT-2A/EXP/GWB	-/PNT-2/PNT-5	-	-	SEE INTERIOR ELEVATIONS
A144.1	TABLE / CHAIR STOR.	CONC-1	RB-1	PNT-1	-	EXP	PNT-1	-	-	
A145	CONFERENCE / TRAINING	CPT-2	RB-1	PNT-1/PNT-2	SSM-1	ACT-2A/EXP/GWB	-/PNT-2/PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
C100	CORRIDOR	CPT-1	RB-1	PNT-1/PNT-2	-	EXP	PNT-2	-	-	SEE INTERIOR ELEVATIONS
C101	CORRIDOR	CPT-1	RB-1	PNT-1/PNT-2	-	EXP	PNT-2	-	-	
C102	CORRIDOR	CPT-1	RB-1	PNT-1	-	ACT-2A	-	-	-	
T01	MALE TOILET	CT-1	CT-1A	CT-2/VWC-1	-	ACT-2A/GWB	-/PNT-5	SSM-1	PLAM-1	TP-1; SEE INTERIOR ELEVATIONS
T02	FEMALE TOILET	CT-1	CT-1A	CT-2/VWC-1	-	ACT-2A/GWB	-/PNT-5	SSM-1	PLAM-1	TP-1; SEE INTERIOR ELEVATIONS
T03	UNISEX TOILET	CT-1	CT-1A	CT-2/VWC-1	-	GWB	PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
T04	UNISEX TOILET	CT-1	CT-1A	CT-2/VWC-1	SSM-1	GWB	PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
T05	MOTHER'S ROOM	CPT-1	RB-1	PNT-1	-	ACT-2A	-	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
T06	UNISEX TOILET	CT-1	CT-1A	CT-2/VWC-1	-	GWB	PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
T07	UNISEX TOILET	CT-1	CT-1A	CT-2/VWC-1	-	GWB	PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
T07	UNISEX TOILET	CT-1	CT-1A	CT-2/VWC-1	-	GWB	PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
T08	UNISEX TOILET	CT-1	CT-1A	CT-2/VWC-1	-	GWB	PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
T09	UNISEX TOILET	CT-1	CT-1A	CT-2/VWC-1	-	GWB	PNT-5	SSM-1	PLAM-1	SEE INTERIOR ELEVATIONS
T10	COAT CLOS.	CPT-1	RB-1	PNT-1	-	GWB	PNT-5	-	-	SEE INTERIOR ELEVATIONS
V01	VEST.	WOM-1	RB-1	PNT-1	-	GWB	PNT-5	-	-	
V02	VEST.	WOM-1	RB-1	PNT-1	-	GWB	PNT-5	-	-	
V03	VEST.	WOM-1	RB-1	PNT-1	-	GWB	PNT-5	-	PLAM-1	SEE INTERIOR ELEVATIONS

FINISH ABBREVIATIONS

ACT	ACOUSTICAL CEILING PANEL
AWC	ACOUSTICAL WALL COVERING
CAB	CABINETS
CC	CUBLICLE CURTAIN
CG	CORNER GUARDS
CM	CULTURED MARBLE
CPT	CARPET
CT	CERAMIC TILE
EP	EPOXY PAINT
FARF	FLUID APPLIED RESIN FLOOR
HDW	DECORATIVE HARDWARE
IRWC	IMPACT-RESISTANT WALL COVERING
LC	LOCKER COLOR
LF	LAMINATE FLOOR
LIN	LINOLEUM
LVT	LUXURY VINYL TILE
MIR	MIRROR
MSV	MANUFACTURED STONE VENEER
NS	NATURAL STONE
PC	PAINTED CONCRETE
PF	PANEL FABRICE
PLAM	PLASTIC LAMINATE
PNT	PAINT
QT	QUARRY TILE
QTZ	QUARTZ
RB	RUBBER BASE
RF	RUBBER FLOOR
RP	RESIN PANELS
SC	SEALED CONCRETE
SSM	SOLID SURFACE MATERIAL
STN	STAIN
SV	SHEET VINYL
TA	TOILET ACCESSORIES
TP	TOILET PARTITION
TWC	TEXTILE WALL COVERING
VB	VINYL BASE
VCT	VINYL COMPOSITE TILE
VET	VINYL ENHANCED TILE
VWC	VINYL WALL COVERING
WC	WALL COVERING
WF	WOOD FLOOR
WOM	WALK-OF MAT

FINISH SPECIFICATIONS

TAG	BASIS OF DESIGN MATERIAL	MANUFACTURER	PRODUCT	COLOR	SIZE	INSTALLATION METHOD	COMMENTS
FLOOR							
CONC-1	SEALED CONCRETE	SHERWIN WILLIAMS	HEAVY SHIELD	SW 7655 STAMPED CONCRETE			
CPT 1	CARPET TILE	INTERFACE	SUITE SERENITY COLLECTION: DIAMOND DREAM	106661 BLISS	25CM X 1M	ASHLAR	
CPT 2	CARPET TILE	INTERFACE	NIGHT LIGHTS COLLECTION: GLISTEN	107232 NICKEL	25CM X 1M	ASHLAR	
CPT-3	CARPET TILE	FLOR (INTERFACE)	TUXEDO POCKET	INDIGO/GOLD			
CT-1	CERAMIC TILE	GARDEN STATE TILE	ARDOSIA - NATURAL FINISH	ELEPHANT GREY	32"X32"	STACK; GROUT SIZE: 2MM	EPOXY GROUT COLOR: MAPEI KERAPOXY CQ - 107 IRON
LVT-1	LUXURY VINYL TILE	INTERFACE	LEVEL SET COLLECTION: NATURAL WOODGRAINS	A00212 CEDAR	25CM X 1M	ASHLAR	
WOM-1	WALK-OFF TILE	MATS INC	SUPER NOP 52	CHARCOAL	19.68" X 19.68" X 1/2"		
WALL							
CT-2	CERAMIC TILE (TLT ROOM)	GARDEN STATE TILE	MATERIC - MATTE FINISH	BIANCO MACRO	8X8	BRICK PATTERN LAYOUT; GROUT SIZE: 3/16"	EPOXY GROUT COLOR: MAPEI KERAPOXY CQ - 93 WARM GRAY
CT-3	CERAMIC TILE (BREAKROOM)	GARDEN STATE TILE	UPTOWN MATTE	CANVAS WHITE	3X6	STACK; GROUT SIZE: 1/8"	EPOXY GROUT COLOR: MAPEI KERAPOXY CQ - 38 AVALANCHE
CT-4	CERAMIC TILE (DRINKING FOUNTAIN ACCENT TILE)	GARDEN STATE TILE	CHROMA	BLU BRICK	3X12	STACK; GROUT SIZE: 1/8"	EPOXY GROUT COLOR: MAPEI KERAPOXY CQ - 93 WARM GRAY
FRP-1	FIBERGLASS REINFORCED PANELS	MARLITE	STANDARD FRP PANELS - PEBBLED FINISH	P199 BRIGHT WHITE			
PNT-1	PAINT	SHERWIN WILLIAMS	TYPICAL WALL PAINT/HOLLOW METAL TRIM	SW 9165 GOSSAMER VEIL			
PNT-2	PAINT	SHERWIN WILLIAMS	WALL/CEILING PAINT	SW 7068 GRIZZLE GRAY			
PNT-3	PAINT	SHERWIN WILLIAMS	ACCENT WALL PAINT	SW 7655 STAMPED CONCRETE			
PNT-4	PAINT	WOLF GORDON	SCUFFMASTER - SOLID METAL - METALLIC ACCENT WALL PAINT	GOH 33072237			
VWC-1	VINYL WALLCOVERING	WOLF GORDON	INKED LINEN - 20 OZ	FOG	54"	REVERSE HANG, RANDOM MATCH	
VWC-2	VINYL WALLCOVERING	MDC STUDIO	DIGITAL SOLUTIONS S1188357 - TYPE II WALLCOVERING	CUSTOM IMAGES/WALL GRAPHICS ON DIGISMOOTH BASE			
CEILING							
AB-1	ACOUSTIC BAFFLE SYSTEM	FRASCH!	LINYFELT	34 PURE GRAY	95" X 22.5" X 2.25"		
ACT-2A	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA 1913 - 15/16" SQUARE LAY-IN	WHITE	24"X48"X3/4"		EDGE PROFILE: SQUARE LAY-IN; GRID: 15/16" PRELUDE BLIZZARD WHITE
PNT-2	PAINT	SHERWIN WILLIAMS	EXPOSED CEILING PAINT	SW 7068 GRIZZLE GRAY			
PNT-3	PAINT	SHERWIN WILLIAMS	CEILING	SW 7655 STAMPED CONCRETE			
PNT-5	PAINT	SHERWIN WILLIAMS	CEILING	HIGH REFLECTIVE WHITE			
BASE							
CT-1a	CERAMIC TILE	GARDEN STATE TILE	ARDOSIA	ELEPHANT GREY	6"X32"	INSTALL SCHLUTER STRIP: JOLLY ON TOP OF BASE - BRUSHED STAINLESS STEEL	
RB-1	RUBBER BASE	TARKETT/JOHNSONITE	COVE BASE	20 CHARCOAL	4"		
WD-1	WOOD BASE TRIM			SHERWIN-WILLIAMS SW 6258 TRICORN BLACK			
CABINETRY							
HDW-1	HARDWARE (CASEWORK DRAWER PULLS)	MOCKETT	ROD DRAWER PULL	STAINLESS STEEL	7 9/16"		
MLAM-1	METAL LAMINATE	CHEMETAL		606 BLACKENED ALUMINUM			
PLAM-1	PLASTIC LAMINATE	WILSONART		HARVEST MAPLE 7953-38			3MM EDGEBANDING COLOR: DOLKEN 3301 MATCHING HARVEST MAPLE LAMINATE
QTZ-1	QUARTZ (COUNTERTOP)	CAMBRIA	JEWEL COLLECTION	WHITNEY	2CM		
SSM-1	SOLID SURFACE MATERIAL (COUNTERTOP & SILLS)	CORIAN		CARBON CONCRETE	1/2" THICK	EASED EDGES	
EQUIPMENT							
RS-1	ROLLER SHADE (MANUAL)	MECHO SHADE	E SCREEN - 3% OPENNESS (EXTERIOR WINDOWS)	CHARCOAL/GREY 30.01			
RS-2	ROLLER SHADE (MANUAL)	MECHO SHADE	E SCREEN - 1% OPENNESS (INTERIOR WINDOWS)	CHARCOAL/GREY 30.01			
MISC.							
	DECORATIVE LIGHT FIXTURE	OCL ARCHITECTURAL LIGHTING		GLP GOLDTASTIC METALLIC POWDER COAT PAINT & SDG SHADOW GRAY			
DR-1	WOOD DOORS	GRAHAM - MASONITE ARCHITECTURAL	PLAIN SLICED WHITE MAPLE - SS1 (STAIN GROUP)	#300			
FILM-1	DECORATIVE WINDOW FILM	3M	CUSTOM LOGO DESIGN - TBD				
GB-1	BACK PAINTED GLASS BOARD	GENERAL GLASS (GGI)	MAX GLASSBOARDS - MAGNETIZED - BACK PAINTED GLASS MARKERBOARDS	WHITE	SINGLE SIDED: 1/4" THICK	Z-CLIP SYSTEM	
HDW-2	HARDWARE (TYPICAL OFFICE COAT HOOK)	CRAIGHILL	HITCH WALL HOOK - DOUBLE	STAINLESS STEEL	3.3" X 2" X 3/4"	MOUNT 5'-0" AFF	
HDW-3	HARWARE	MOCKETT	MEDIUM POP-UP POWER GROMMET (2) POWER, (1) DATA, DUAL USB CHARGER	ALUMINUM FINISH	8 5/16" X 4 7/16"		
HDW-4	HARDWARE - ART HANGING SYSTEM	AS HANGING DISPLAY SYSTEMS	CLICK RAIL SYSTEM	ANODIZED SILVER			PROVIDE ALL NECESSARY CABLES/CABLE FITTINGS AND HANGING COMPONENTS FOR (QTY: 20) PIECES OF ARTWORK
STN-1	STAIN			COLOR TO MATCH WILSONART HARVEST MAPLE 7953-38			
TP-1	TOILET PARTITION	BOBRICK	COMPACT LAMINATE DURALINE SERIES - 1080 SERIES	WILSONART HARVEST MAPLE 7953-38 - CUSTOM COLOR			

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

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Snyder Hoffman Associates
1005 West Lehigh Street
Bethlehem, PA 18018
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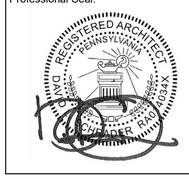


Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

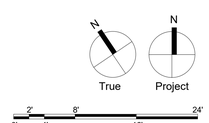
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

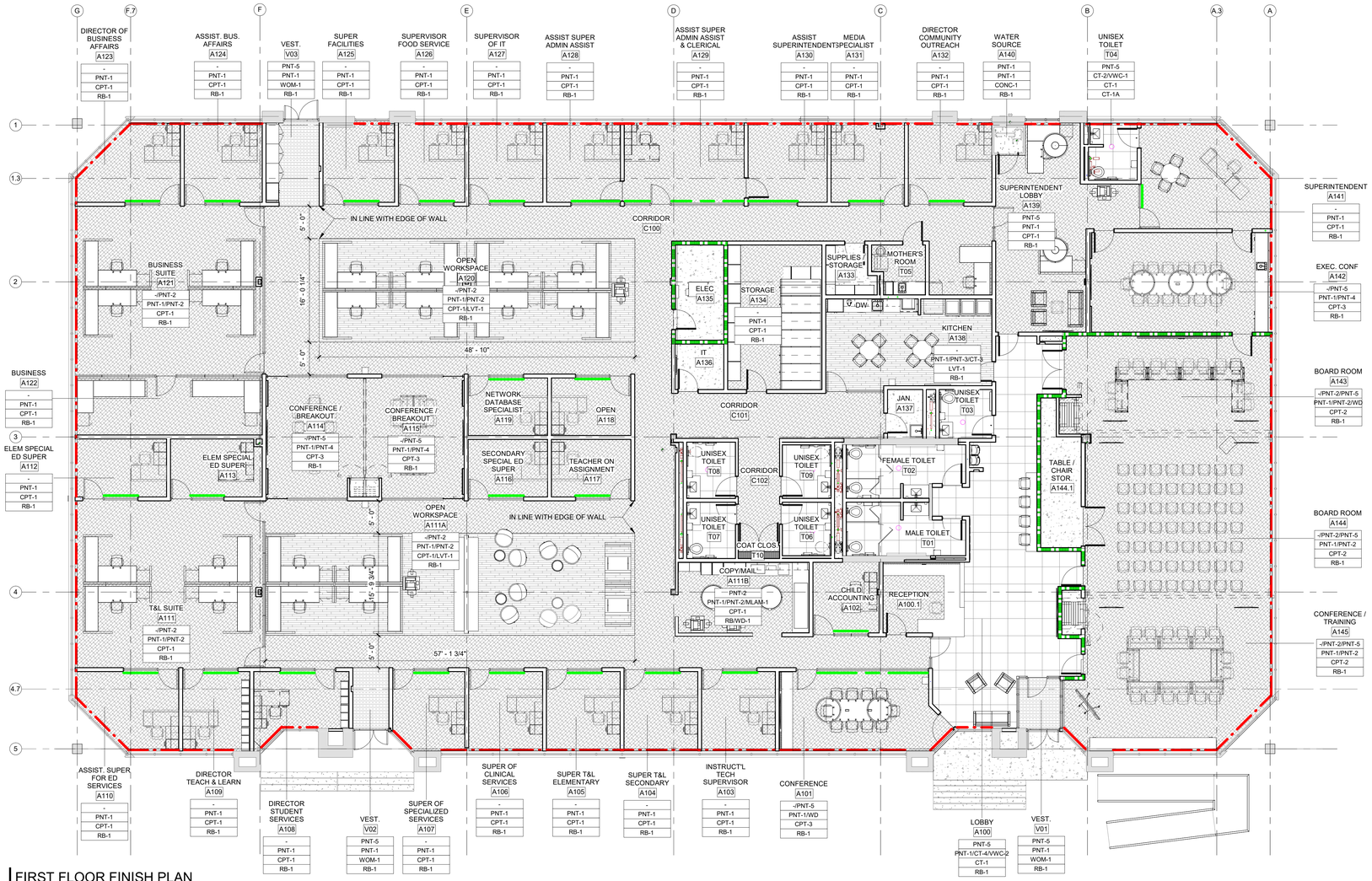
Key Plan:

Drawing Title:
FINISH SCHEDULE

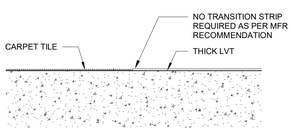
Drawing Number:
A900



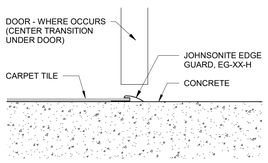
CONFORMED DRAWINGS



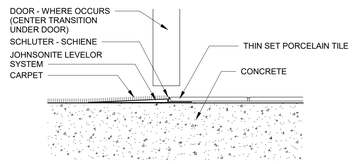
1 FIRST FLOOR FINISH PLAN
A901 SCALE: 1/8" = 1'-0"



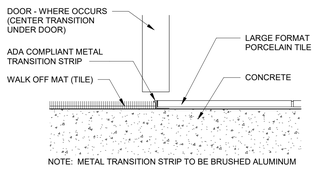
2 CARPET TO LVT
A901 SCALE: 3" = 1'-0"



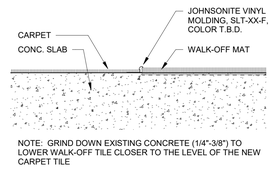
3 CARPET TO CONCRETE
A901 SCALE: 3" = 1'-0"



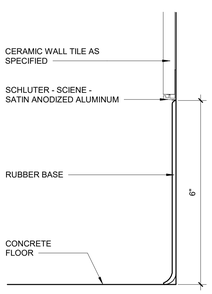
4 CARPET TO PORCELAIN TILE
A901 SCALE: 3" = 1'-0"



5 PORCELAIN TO WOM
A901 SCALE: 3" = 1'-0"



6 CARPET TO WOM
A901 SCALE: 3" = 1'-0"



7 RUBBER BASE/CT DETAIL
A901 SCALE: 6" = 1'-0"

FINISH EXTENTS NOTES

1. WALL DESIGNATION REFERS TO NORTH NOTED ON THE KEY PLAN.
2. IN ALL CASES WHERE EXPOSED CEILINGS ARE TO BE PAINTED ALL DUCTWORK AND OTHER EXPOSED MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT TO BE PAINTED AS WELL.
3. PROVIDE 3/4" AC FIRE RATED PLYWOOD FROM FINISH FLOOR TO 8'-0" A.F.F. BEHIND TELECOM EQUIPMENT. COORDINATE WITH TELECOM REQUIREMENTS. PROVIDE PAINT FINISH TO MATCH ADJACENT CONSTRUCTION PRIOR TO PLACEMENT OF EQUIPMENT.
4. FLOOR FINISHES TO BE CONTINUOUS UNDER ALL CASEWORK, MILLWORK, CABINETRY, PLUMBING AND FLOOR FIXTURES UNLESS OTHERWISE NOTED.
5. PAINT EXTENT DESIGNATION INDICATED ON FINISH SCHEDULE ONLY APPLIES TO WALLS AND CEILINGS. DO NOT PAINT INTERIOR BRICK VENEER, GROUND FACED MASONRY SURFACES, GLAZING, DOOR AND WINDOW FRAMES UNLESS OTHERWISE NOTED.
6. REFER TO PARTITION TYPES AND INTERIOR ELEVATIONS FOR EXTENT OF PAINTING. REFER TO WINDOW AND DOOR SCHEDULES FOR APPLICABLE FINISHES.
7. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, MATERIALS, FINISHES AND HEIGHTS.
8. PROVIDE ADA / ANSI COMPLIANT METAL THRESHOLDS / TRANSITION STRIPS BETWEEN ALL DISSIMILAR FLOORING MATERIALS. SUBMIT SAMPLES TO ARCHITECT FOR REVIEW VIA SHOP DRAWING / SAMPLE SUBMITTAL PROCESS.
9. SEE "A800" SERIES INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON WALL PAINT LOCATIONS.

ROOM FINISH TAG

CLASSROOM — ROOM NAME
B112 — ROOM NUMBER
PNT-01 — CEILING FINISH
PNT-02 — WALL FINISH
CPT-01 — FLOOR FINISH
RB-03 — BASE MATERIAL

FINISH EXTENTS LEGEND

CARPET TILE
CERAMIC TILE
LVT
SEALED CONCRETE
WALK OFF MAT

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

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Snyder Hoffman Associates
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NO.	DESCRIPTION	DATE

DATE: 03/03/2023
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Key Plan:

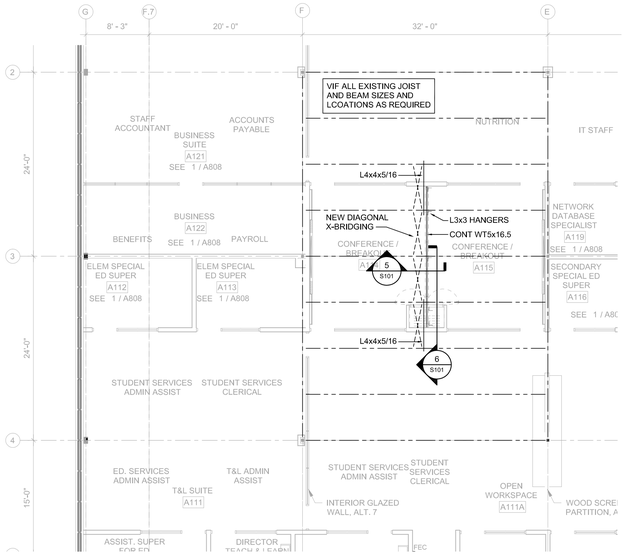
Drawing Title:
FIRST FLOOR FINISH PLAN

Drawing Number:
A901

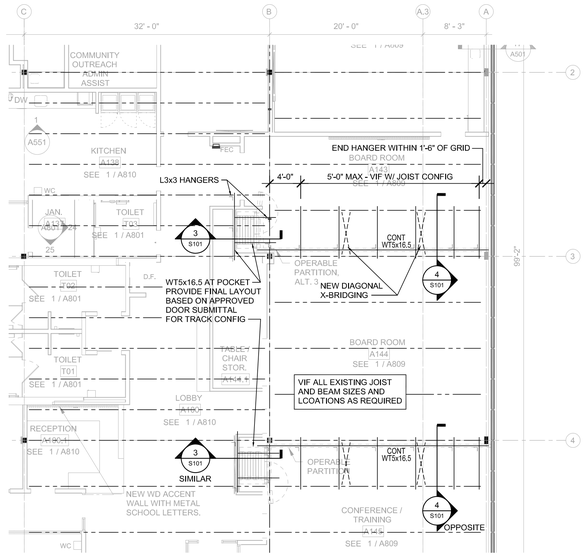
True N Project N

0' 4' 8' 16' 24'

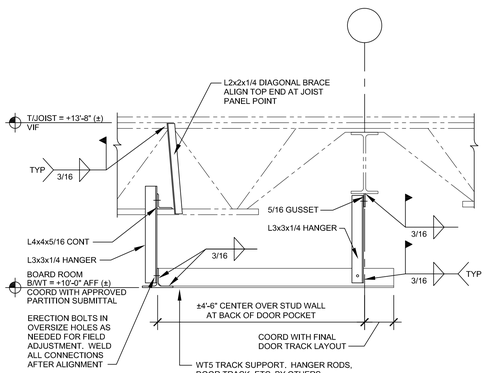
CONFORMED DRAWINGS



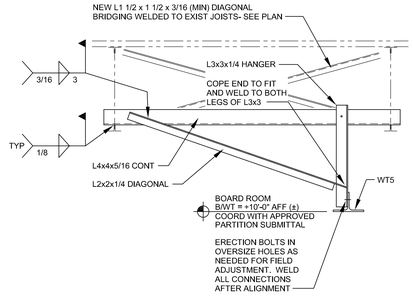
1 PARTIAL ROOF FRAMING PLAN
S101 SCALE: 1/8" = 1'-0"



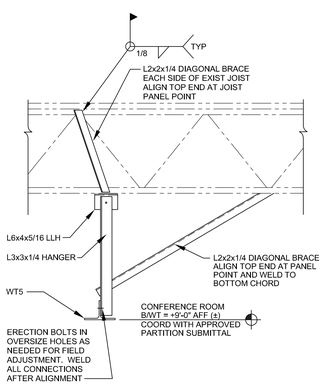
2 PARTIAL ROOF FRAMING PLAN
S101 SCALE: 1/8" = 1'-0"



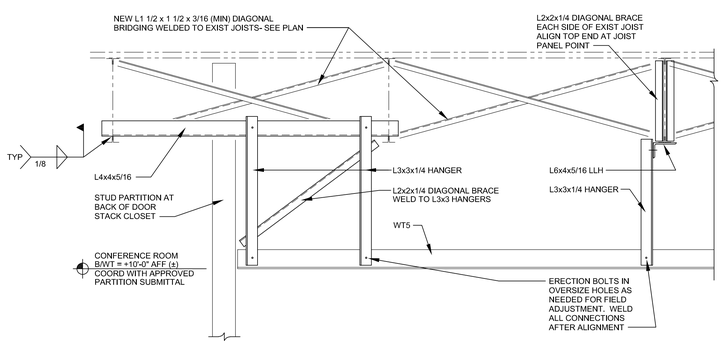
3 FRAMING SECTION
S101 SCALE: 3/4" = 1'-0"



4 FRAMING SECTION
S101 SCALE: 3/4" = 1'-0"



5 FRAMING SECTION
S101 SCALE: 3/4" = 1'-0"



6 FRAMING SECTION
S101 SCALE: 3/4" = 1'-0"

STRUCTURAL DESIGN LOAD DATA

The following design loads are applicable to this facility in accordance with IBC 2018, Chapter 16, and ASCE 7-16:

Building Risk Category	II	
Snow Load		
Ground Snow Load, Pg	30	psf
Importance Factor, Is	1.0	
Exposure Factor, Ce	1.0	
Slope Factor, Cs	1.0	
Thermal Factor, Ct	1.0	
Flat Roof Snow Load	21	psf

GENERAL NOTES

ANY AND ALL QUESTIONS PERTAINING TO THE WORK DESCRIBED IN THESE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITTEN FORM, IN ACCORDANCE WITH THE ESTABLISHED 'REQUEST FOR INFORMATION' (RFI) PROCEDURES.

COORDINATE ALL SPECIFICATION REQUIREMENTS WITH THE INFORMATION SHOWN ON DRAWINGS AND IN THESE STRUCTURAL NOTES.

DO NOT SCALE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT/ENGINEER TO RESOLVE ANY DIMENSIONAL DISCREPANCIES RELATED TO THE DRAWINGS AND/OR EXISTING FIELD CONDITIONS WHERE APPROPRIATE.

DO NOT MODIFY SIZE, SHAPE, LOCATION, OR SPACING OF STRUCTURAL ELEMENTS.

CONTRACTOR IS RESPONSIBLE TO PRECISELY LOCATE ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. ANY DAMAGE INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO DO SO IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.

UNLESS SHOWN OTHERWISE, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL TEMPORARY SUPPORT AND PROTECTION ELEMENTS DURING THE COURSE OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING, REPAIR, AND RESTORATION OF INSTALLED MATERIALS WHERE SUCH MATERIALS ARE DAMAGED OR DEMOLISHED DURING THE COURSE OF CONSTRUCTION. ALL PATCHING, REPAIR, AND RESTORATION SHALL MATCH THE PREVIOUSLY EXISTING CONDITIONS.

ANY ADDITIONAL WORK REQUIRED BY THE ARCHITECT/ENGINEER (DESIGN, SKETCHES, DRAWING DOCUMENTATION, FIELD VISITS, ETC) TO CORRECT OR REVISE CONTRACTOR CONSTRUCTION ERRORS SHALL BE AT THE SOLE EXPENSE OF THE CONTRACTOR.

THE COMBINATION OF DRAWINGS AND WRITTEN SPECIFICATIONS REPRESENTS THE DESCRIPTION OF WORK, AND THE CONTRACTOR IS SOLELY RESPONSIBLE TO ENSURE THAT ALL WORK DESCRIBED IS IN ACCORDANCE WITH BOTH THE CONTRACT DRAWINGS AND SPECIFICATIONS. IN THE CASE OF CONFLICT BETWEEN NOTES, DRAWINGS, AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL GOVERN.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS. IF A STANDARD IS LISTED AS A "REFERENCED STANDARD" WITHIN THE APPLICABLE BUILDING CODE, USE OF NON-REFERENCED EDITIONS IS PROHIBITED. IF A STANDARD IS NOT REFERENCED IN THE BUILDING CODE, USE THE LATEST EDITION OF THE APPLICABLE STANDARD.

A. AISC MANUAL OF STEEL CONSTRUCTION
B. AISC 360, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES
C. RCSC, SPECIFICATION FOR STRUCTURAL STEEL JOINTS USING HIGH STRENGTH BOLTS
D. AISC 303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES

PROVIDE STRUCTURAL STEEL SHAPES USING AISC STANDARDS SECTIONS AND GRADES AS FOLLOWS, UNO

SECTION TYPE	MATERIAL GRADE
W & WT	ASTM A992
L	ASTM A36

WHERE BEAM SPACING IS NOT SHOWN ON DRAWINGS, SPACE BEAMS EQUALLY BETWEEN PRIMARY SUPPORTS (COLUMNS, WALLS, ETC).

FIELD MODIFICATIONS TO ALL STRUCTURAL STEEL COMPONENTS INCLUDING, BUT NOT LIMITED TO MEMBERS, CONNECTIONS, ATTACHMENTS, AND REINFORCEMENT ARE PROHIBITED WITHOUT APPROVAL FROM THE ENGINEER AND FABRICATOR. ANY REPAIRS, REPLACEMENT, REINFORCING OR FURTHER ALTERATIONS DUE TO UNAPPROVED FIELD MODIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT MADE THE MODIFICATIONS.

THE GENERAL CONTRACTOR AND STEEL ERECTOR SHALL NOTIFY THE ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS. FIELD MODIFICATIONS ARE PROHIBITED WITHOUT APPROVAL FROM THE ENGINEER.

PRIOR TO COMMENCING STEEL ERECTION, THE GENERAL CONTRACTOR SHALL CONDUCT A FIELD SURVEY OF AS-BUILT FOUNDATION COMPONENTS TO VERIFY QUANTITY, LOCATION, SIZE, SPACING AND ELEVATION OF ANCHOR RODS AND THAT ALL BEARING PLATES, EMBED PLATES, OR LEVELING PLATES ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.

FIELD WELDED SURFACES SHALL BE PROPERLY PREPARED, INCLUDING CLEANING AND GRINDING SMOOTH, FOR AN AREA EXTENDING (4) INCHES BEYOND THE LIMITS OF WELDING. AFTER WELDING COAT THE EXPOSED AREA WITH THE APPROPRIATE PRIMER/PAINTS AS SPECIFIED. FIELD WELDED SURFACES OF GALVANIZED MEMBERS SHALL BE COATED WITH GALVANIZING REPAIR PAINT PER SPECIFICATIONS.

IBC SPECIAL INSPECTION REQUIREMENTS

CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE, ENTITLED 'STRUCTURAL TESTS AND SPECIAL INSPECTIONS', OUTLINE THE REQUIRED TESTING AND INSPECTION REQUIREMENTS FOR THIS PROJECT.

THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT, APPROVED AGENCY TO OVERSEE AND OBSERVE THE IMPLEMENTATION OF ALL REQUIRED STRUCTURAL TESTING AND SPECIAL INSPECTION PROCEDURES AND ACTIVITIES.

COPIES OF ALL REPORTS DEVELOPED BY THE APPROVED AGENCY SHALL BE PROVIDED TO THE ARCHITECT/ENGINEER AND AUTHORITY HAVING JURISDICTION.

SPECIAL INSPECTION REQUIREMENTS FOR STRUCTURAL STEEL

VISUAL INSPECTION OF ALL INSTALLED FRAMING MEMBERS FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS AND APPROVED SUBMITTALS

VISUAL INSPECTION OF ALL (100%) SINGLE-PASS FIELD FILLET WELDS

VISUAL INSPECTION OF ALL BOLTED CONNECTIONS

SUBMITTAL REQUIREMENTS - STEEL

STRUCTURAL STEEL AND MISCELLANEOUS STEEL FABRICATIONS SHOP DRAWINGS: STEEL FABRICATION AND ERECTION SHOP DRAWINGS SHALL BE SUBMITTED TO REVIEW GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL INCLUDE ALL INFORMATION REQUIRED TO FABRICATE AND ERECT STEEL ELEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL DIMENSIONS AND ELEVATIONS AS PART OF THE SHOP DRAWING REVIEW PROCESS PRIOR TO SUBMITTAL TO THE ENGINEER FOR REVIEW. ANY REPAIRS, REPLACEMENTS OR ALTERATIONS DUE TO FABRICATION OR ERECTION PRIOR TO SHOP DRAWING APPROVAL SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. FIELD ALTERATION TO APPROVED COMPONENTS IS PROHIBITED WITHOUT APPROVAL OF THE ENGINEER AND FABRICATOR.

ALL EXISTING GEOMETRY AND/OR FIELD MEASUREMENTS REQUIRED FOR FABRICATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SUBMITTAL TO THE ENGINEER WILL BE ACCEPTED FOR RECORD PURPOSES ONLY.

N
Project

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
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1005 West Lehigh Street
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DATE: 03/03/2023

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Key Plan:

Drawing Title:
PARTIAL FRAMING PLANS, DETAILS AND STRUCTURAL NOTES

Drawing Number:
S101

CONFORMED DRAWINGS

MECHANICAL GENERAL NOTES

1.	THE DRAWINGS INDICATE THE GENERAL SCOPE OF WORK ASSOCIATED WITH THE INSTALLATION OF HVAC EQUIPMENT AND SYSTEMS BUT ARE NOT NECESSARILY INCLUSIVE OF ACTUAL CONDITIONS. THE FULL EXTENT OF THE WORK SHALL BE DETERMINED IN THE FIELD BASED ON THE ACTUAL CONDITIONS ENCOUNTERED AND AS REQUIRED FOR THE SATISFACTORY EXECUTION OF THE NEW WORK.
2.	THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH THE PROJECT CONSTRUCTION SCHEDULE.
3.	THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND SCHEDULING OF THEIR WORK WITH ALL OTHER TRADES (PLUMBING, ELECTRICAL, GENERAL ETC.). ANY CONFLICTS DUE TO FAILURE OF THIS CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES SHALL BE THEIR RESPONSIBILITY TO RESOLVE.
4.	ALL CUTTING AND PATCHING OF WALLS, FLOORS, ROOFS, AND CEILINGS, AS REQUIRED TO INSTALL DUCTWORK, PIPING, ROOF CURBS ETC. SHALL BE PERFORMED BY THIS CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PATCHING SHALL MATCH EXISTING METHODS, MATERIALS OF CONSTRUCTION, AND ADJACENT FINISHES.
5.	WHERE THE DRAWINGS SPECIFICALLY INDICATE, CUTTING AND PATCHING IS TO BE PERFORMED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND EXACT LOCATIONS OF THE OPENINGS.
6.	THE CONTRACTOR SHALL PROVIDE ALL METHODS AND MATERIALS FOR SUPPORTING ALL EQUIPMENT, PIPING, AND DUCTWORK FURNISHED UNDER THIS CONTRACT. IN AREAS OF BAR JOIST CONSTRUCTION ALL PIPING, DUCTWORK, AND SUSPENDED EQUIPMENT WITH A CONCENTRATED LOAD (I.E. HANGERS) IN EXCESS OF 150 LBS. SHALL BE SUPPORTED FROM THE TOP CHORD OF THE BAR JOISTS. DO NOT HANG ANY PIPING OR DUCTWORK FROM THE ROOF DECK.
7.	VERIFY THE FINAL MOUNTING HEIGHTS AND LOCATIONS OF LOUVERS, BRICK VENTS, CABINET HEATERS, SIDEWALL GRILLES AND REGISTERS, AND ALL OTHER VISIBLE EQUIPMENT WITH THE ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS.
8.	COORDINATE FINAL CEILING GRILLE AND DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, FIRE PROTECTION PLANS, AND ELECTRICAL/TECHNOLOGY PLANS.
9.	SEAL ALL DUCT AND PIPING PENETRATIONS OF FIRE AND SMOKE RATED PARTITIONS AND FLOORS WITH FIRE STOPPING MATERIALS AS SPECIFIED IN THE DIVISION 1 SPECIFICATIONS. WHERE FIRESTOPPING MATERIALS ARE NOT SPECIFIED IN DIVISION 1, ALL FIRESTOPPING MATERIALS SHALL BE U.L. LISTED FOR USE AND AS MANUFACTURED BY 3M OR EQUAL.
10.	PROVIDE ACOUSTICAL SEALS AROUND ALL DUCTWORK AND PIPING PENETRATIONS OF INTERIOR ACOUSTICALLY RATED PARTITIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ACOUSTICAL PARTITIONS.
11.	ALL ADJUSTABLE THERMOSTATS, SENSORS AND SWITCHES INTENDED FOR NORMAL USE BY THE BUILDING'S OCCUPANTS SHALL BE MOUNTED 48" A.F.F. TO THE TOP OF THE DEVICE IN ACCORDANCE WITH ADA REQUIREMENTS.
12.	DO NOT UTILIZE AIR HANDLING EQUIPMENT AND DUCTED AIR SYSTEMS FURNISHED UNDER THIS CONTRACT AS A MEANS OF TEMPORARY HEAT DURING CONSTRUCTION. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO PLACING EQUIPMENT IN SUSTAINED OPERATION.
13.	BOTTOM OF DUCT AND BOTTOM OF PIPE ELEVATIONS ARE FOR REFERENCE ONLY, FINAL ELEVATIONS ARE SUBJECT TO ACTUAL FIELD CONDITIONS. FIELD VERIFY ALL CLEARANCES AND DIMENSIONS PRIOR TO FABRICATING AND INSTALLING DUCTWORK AND PIPING. COORDINATE DUCT AND PIPING INSTALLATIONS WITH ALL OTHER TRADES TO AVOID INTERFERENCE WITH LIGHT FIXTURES, SPRINKLERS, SPEAKERS, ETC.
14.	ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. FIELD VERIFY ACTUAL CLEARANCES AND CONDITIONS PRIOR TO FABRICATING DUCTWORK. DO NOT ORDER FIRE DAMPERS UNTIL VERIFYING ACTUAL CONDITIONS AND DIMENSIONS.
15.	SUBMIT SHEET METAL SHOP DRAWINGS TO SCALE 3/8" = 1'-0", DETAILING DUCTWORK, HVAC EQUIPMENT AND DIFFUSERS. SHOP DRAWINGS SHALL BE DIMENSIONED, SHALL INDICATE DUCT ELEVATIONS, AND SHALL DEPICT CEILING GRID, STRUCTURAL STEEL, LIGHT FIXTURES, SPRINKLER HEADS, AND PLUMBING AND HVAC PIPING MAINS.
16.	THE CONTRACTOR SHALL FURNISH ALL ACCESS DOORS IN WALLS AND PLASTER CEILINGS AS REQUIRED TO ACCESS VOLUME DAMPERS, FIRE DAMPERS, AND OTHER SERVICEABLE DEVICES. ACCESS DOORS SHALL BE UL LISTED WHEN INSTALLED IN RATED CONSTRUCTION. FIELD VERIFY ACCESS DOOR LOCATIONS AND SIZES WITH ARCHITECT.
17.	PROVIDE LOCATION/IDENTIFICATION MARKERS ON CEILING T-BAR GRIDS (OR ON CEILING ACCESS DOORS AS APPLICABLE) JUST BELOW CONCEALED SHUT-OFF VALVES, CONTROL VALVES, AND HVAC EQUIPMENT.
18.	ALL ROUND DUCTWORK SHALL BE ROUND SPIRAL DUCT EXCEPT WHERE NOTED AS FLEXIBLE. ROUND FLEXIBLE DUCTWORK IS LIMITED TO LOCATIONS ONLY AS SHOWN ON THE DRAWINGS. MAXIMUM LENGTH SHALL NOT EXCEED 6'-0".
19.	THE CONTRACTOR SHALL COORDINATE THE RIGGING, MOVING AND HOISTING OF EQUIPMENT FURNISHED UNDER THIS CONTRACT WITH EXISTING ARCHITECTURAL CONSTRAINTS.
20.	DUCT SMOKE DETECTORS SHALL BE FURNISHED BY E.C., INSTALLED BY H.C. WIRING TO SHUT DOWN UNIT/ CLOSE DAMPER SHALL BE BY H.C. AND WIRING TO FIRE ALARM PANEL SHALL BE BY E.C.
21.	ALL CONDENSATE AND CLEAN, CLEAR WATER FROM MECHANICAL EQUIPMENT MUST BE PIPED TO A DRAIN CONNECTED TO THE STORM SYSTEM AND NOT SANITARY.
22.	ALL REFRIGERANT PIPE SIZES SHALL BE VERIFIED BY THE CONDENSING UNIT MANUFACTURER.

MECHANICAL SYMBOLS & ABBREVIATIONS

G.C.	GENERAL CONTRACTOR	C.D.	CONDENSATE DRAIN
H.C. / M.C.	MECHANICAL CONTRACTOR	F.D.	FLOOR DRAIN
E.C.	ELECTRICAL CONTRACTOR	RS	REFRIGERANT SUCTION
P.C.	PLUMBING CONTRACTOR	RL	REFRIGERANT LIQUID
S/A	SUPPLY AIR	—— HWS ——	HOT WATER SUPPLY
R/A	RETURN AIR	---- HWR ----	HOT WATER RETURN
T/A	TRANSFER AIR	—— CWS ——	CHILLED WATER SUPPLY
E/A	EXHAUST AIR	---- CWR ----	CHILLED WATER RETURN
O/A	OUTSIDE AIR	—— CS ——	CONDENSER WATER SUPPLY
A.F.F.	ABOVE FINISHED FLOOR	----- CR -----	CONDENSER WATER RETURN
AL	ACOUSTCAL LINING	—— FOS ——	FUEL OIL SUPPLY
O.E.D.	OPEN END DUCT	---- FOR ----	FUEL OIL RETURN
NC	NORMALLY CLOSED	—— LPS ——	LOW PRESSURE STEAM SUPPLY
NO	NORMALLY OPEN	---- LPR ----	LOW PRESSURE STEAM RETURN
DISC	DISCONNECT SWITCH		GATE/BUTTERFLY VALVE
	REMOVE EXISTING		BALL VALVE
	CONNECT TO EXISTING		BALANCING VALVE
	SUPPLY AIR DIFFUSER/DROP/RISE		3-WAY ATC VALVE
	RETURN AIR GRILLE/DROP/RISE		2-WAY ATC VALVE
	EXHAUST AIR GRILLE/DROP/RISE		AUTOMATIC FILL VALVE
SD	DUCT MOUNTED SMOKE DETECTOR		RELIEF VALVE
T	TEMPERATURE/HUMIDITY SENSOR		CHECK VALVE
C	CARBON DIOXIDE SENSOR		TRIPLE DUTY VALVE
S	SWITCH		STRAINER
P	PRESSURE SENSOR		PIPE ANCHOR
	VOLUME DAMPER		PIPE GUIDE
ATC	AUTOMATIC TEMPERATURE CONTROL DAMPER	FC	FLEXIBLE CONNECTION
BDD	BACKDRAFT DAMPER		THERMOMETER
SD	SMOKE DAMPER		PRESSURE GAUGE
AP	ACCESS PANEL		OS&Y VALVE
FD	FIRE DAMPER		PRESSURE REDUCING VALVE
DP	DIFFERENTIAL PRESSURE SENSOR		UNION

NOTE: NOT ALL SYMBOLS & ABBREVIATIONS SHOWN ARE USED ON THIS PROJECT.

DESIGN CODE COMPLIANCE

PA - UCC	PENNSYLVANIA UNIFORM CONSTRUCTION CODE; 2018
IBC	ICC - INTERNATIONAL BUILDING CODE; 2018
IMC	ICC - INTERNATIONAL MECHANICAL CODE; 2018
IEEC	ICC - INTERNATIONAL ENERGY CONSERVATION CODE; 2018
IFGC	ICC - INTERNATIONAL FUEL GAS CODE; 2018
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NEC	NATIONAL ELECTRIC CODE; 2017

MECHANICAL EQUIPMENT TAGS

AAC #	AMBIENT AIR CLEANER # = MARK	FCU #	FAN COIL UNIT # = MARK
ACC #	AIR-COOLED CHILLER # = MARK	FOP #	FUEL OIL TRANSFER PUMP # = MARK
AHU #	AIR HANDLING UNIT # = MARK	FPV #	FAN POWERED VAV BOX # = MARK
B #	BOILER # = MARK	GF #	GAS FURNACE # = MARK
BCU #	BLOWER COIL UNIT # = MARK	GRV #	GRAVITY RELIEF VENT # = MARK
C #	CONVECTOR # = MARK	GUH #	GAS-FIRED UNIT HEATER # = MARK
CH #	CABINET HEATER # = MARK	H #	HUMIDIFIER # = MARK
CHL #	WATER-COOLED CHILLER # = MARK	HEX #	HEAT EXCHANGER # = MARK
CP #	CONDENSATE PUMP # = MARK	HP #	HEAT PUMP # = MARK
CRAC #	COMPUTER ROOM AC UNIT # = MARK	HRU #	HEAT RECOVERY UNIT # = MARK
CT #	COOLING TOWER # = MARK	HWC #	HOT WATER COIL # = MARK
CU #	CONDENSING UNIT # = MARK	L #	LOUVER # = MARK
CWC #	CHILLED WATER COIL # = MARK	MAU #	MAKE-UP AIR UNIT # = MARK
DC #	DUST COLLECTOR # = MARK	OAI #	OUTSIDE AIR INTAKE # = MARK
DHU #	DEHUMIDIFICATION UNIT # = MARK	P #	PUMP # = MARK
DS #	DUCT SILENCER # = MARK	PTAC #	PACKAGED TERMINAL AC UNIT # = MARK
DSS #	DUCTLESS SPLIT SYSTEM # = MARK	R #	RADIATION # = MARK
ECH #	ELECTRIC CABINET HEATER # = MARK	RF #	RETURN FAN # = MARK
EDC #	ELECTRIC DUCT COIL # = MARK	RTU #	ROOFTOP AIR HANDLING UNIT # = MARK
EF #	EXHAUST FAN # = MARK	SF #	SUPPLY FAN # = MARK
ER #	ELECTRIC RADIATION # = MARK	SV #	SMOKE VENT # = MARK
ERU #	ENERGY RECOVERY UNIT # = MARK	UH #	UNIT HEATER # = MARK
EUH #	ELECTRIC UNIT HEATER # = MARK	UV #	UNIT VENTILATOR # = MARK
EWH #	ELECTRIC WALL HEATER # = MARK	VAV #	VAV BOX # = MARK
EXP #	EXPANSION TANK # = MARK	# V CFM	GRILLE / DIFFUSER TAG V = VOLUME

NOTE: NOT ALL TAGS SHOWN ARE USED ON THIS PROJECT.

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

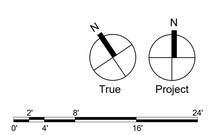
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

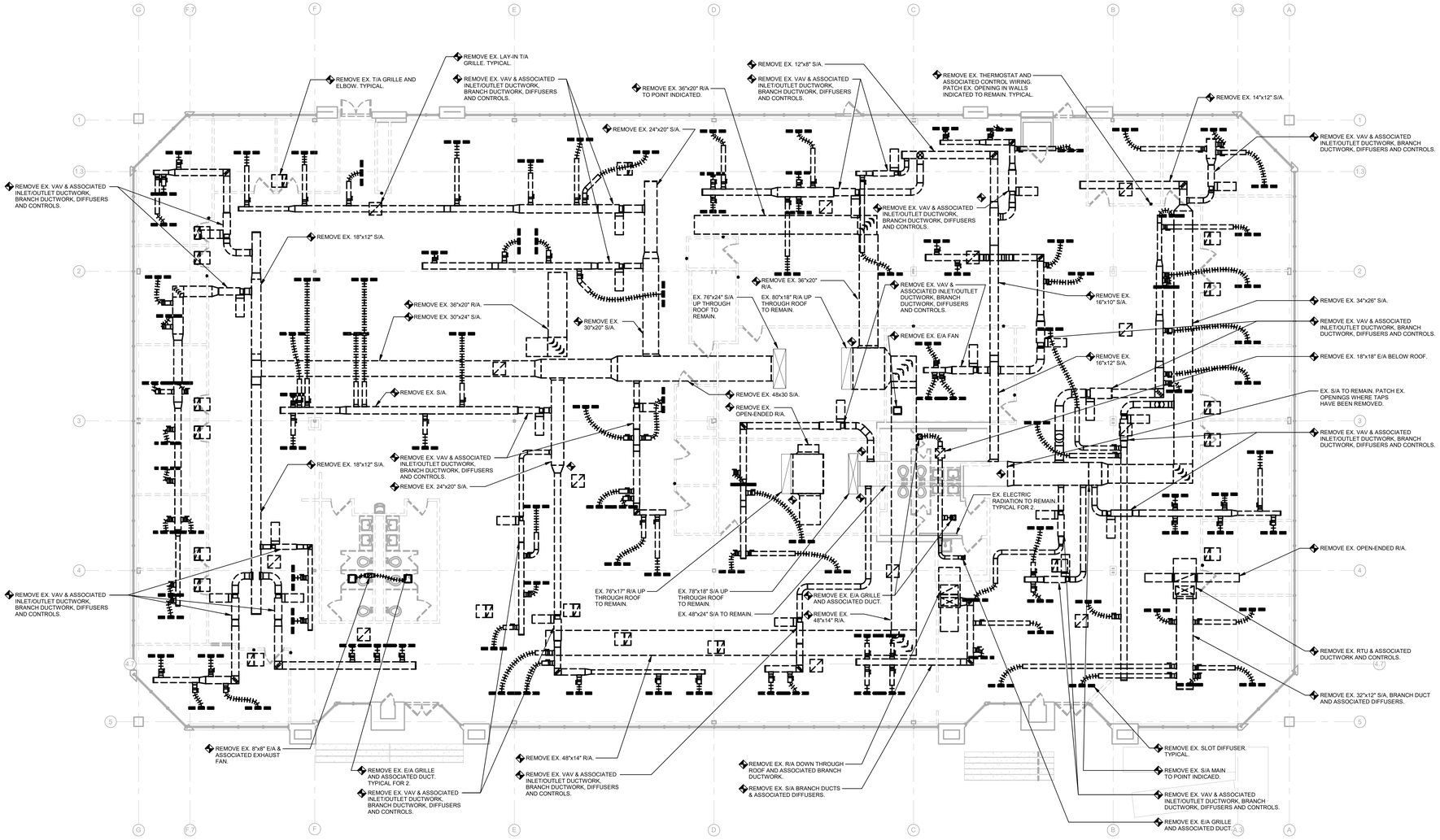
Key Plan:

Drawing Title:
COVERSHEET - MECHANICAL

Drawing Number:
M001



CONFORMED DRAWINGS



1 FIRST FLOOR DEMOLITION PLAN - MECHANICAL

MD100 SCALE: 1/8" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:

Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer

SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
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100 LINDENWOOD DRIVE MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

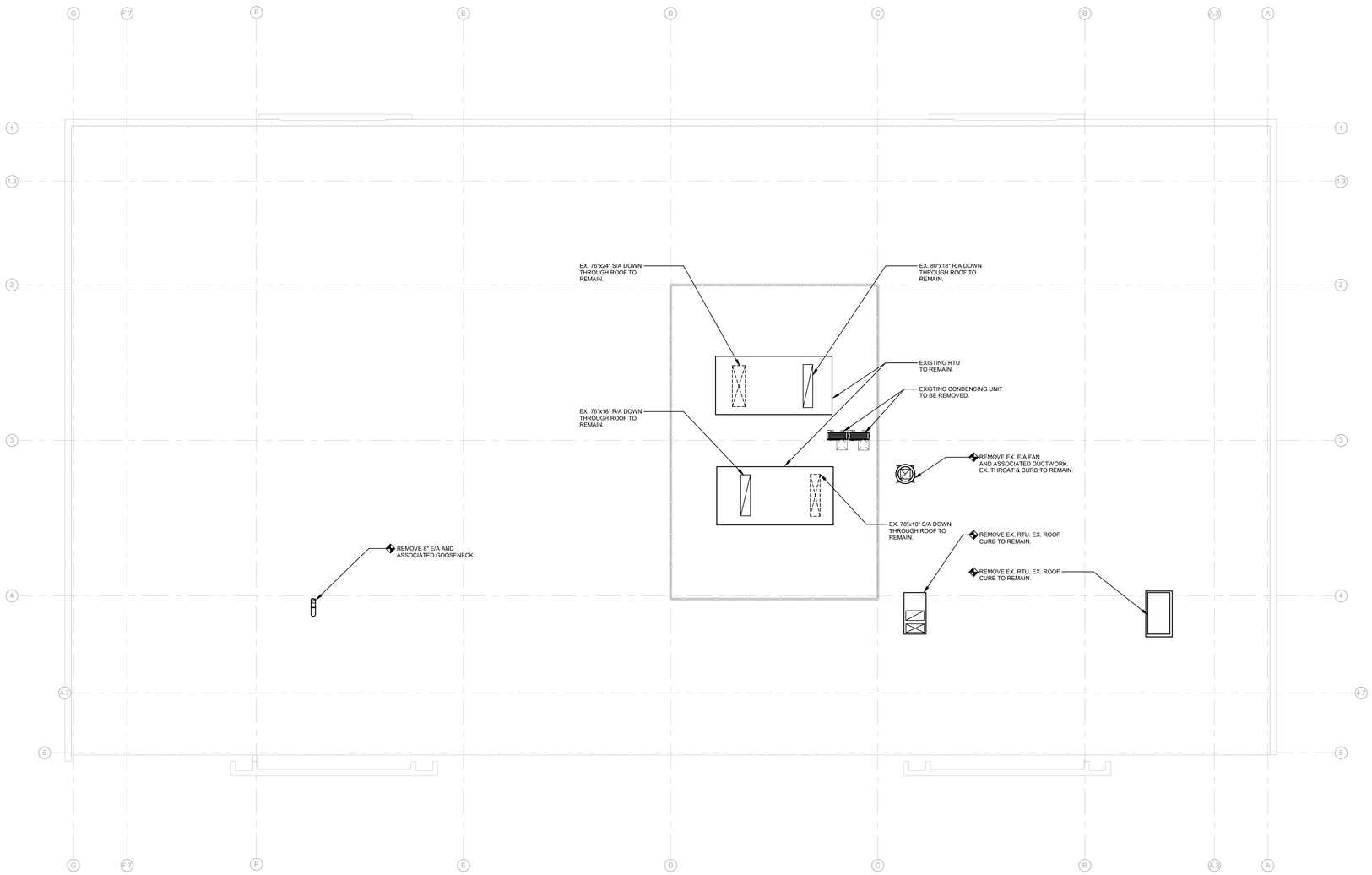
Drawing Title:
FIRST FLOOR DEMOLITION PLAN - MECHANICAL

Drawing Number:
MD100

N True N Project

0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS



1 ROOF PLAN DEMOLITION - MECHANICAL
MD101 SCALE: 1/8" = 1'-0"

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161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

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Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
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SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
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Key Plan:

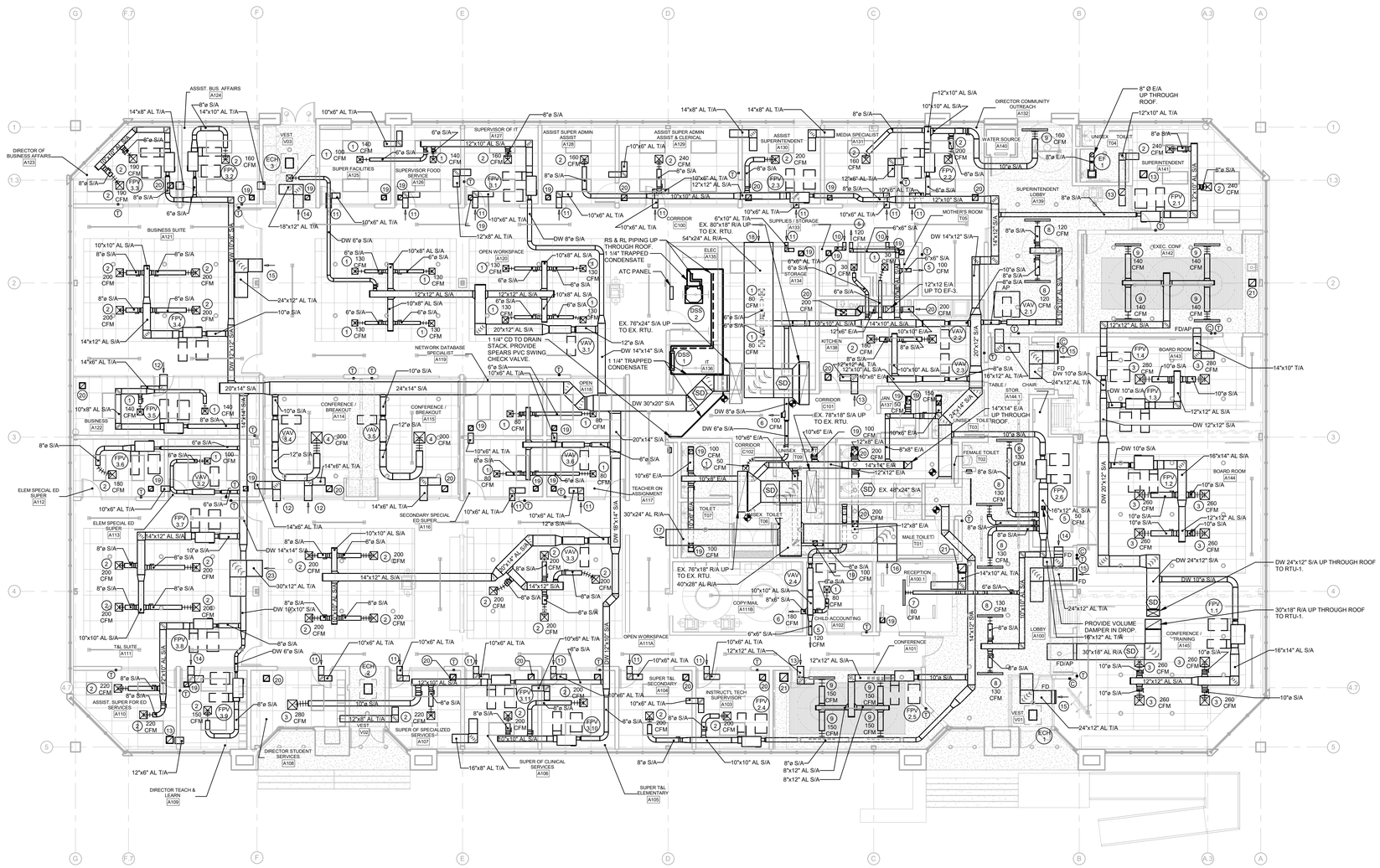
Drawing Title:
ROOF DEMOLITION PLAN - MECHANICAL

Drawing Number:
MD101

True Project

0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS



1 | FIRST FLOOR PLAN - MECHANICAL
M100 | SCALE: 1/8" = 1'-0"

EF # = EXHAUST FAN # = MARK	KF # = KITCHEN EXHAUST FAN # = MARK	FAN SCHEDULE											
TAG	AREA(S) SERVED	MFR	MODEL	CFM	ESP*	RPM	DRIVE	SONES	MOTOR HP/W	V/P/Hz	CONTROL	DAMPER	WEIGHT LBS	NOTES
EF-3	A138 KITCHEN	GREENHECK	G-90-D	400	.45	1550	DIRECT	7.5	60	115/1/60	ATC	BDD	43	1

NOTES:

1. PROVIDE DISCONNECT SWITCH.

True Project

0' 4' 8' 16' 24'

CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

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MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

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161 Leverington Ave, Suite 105
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ISSUED FOR:

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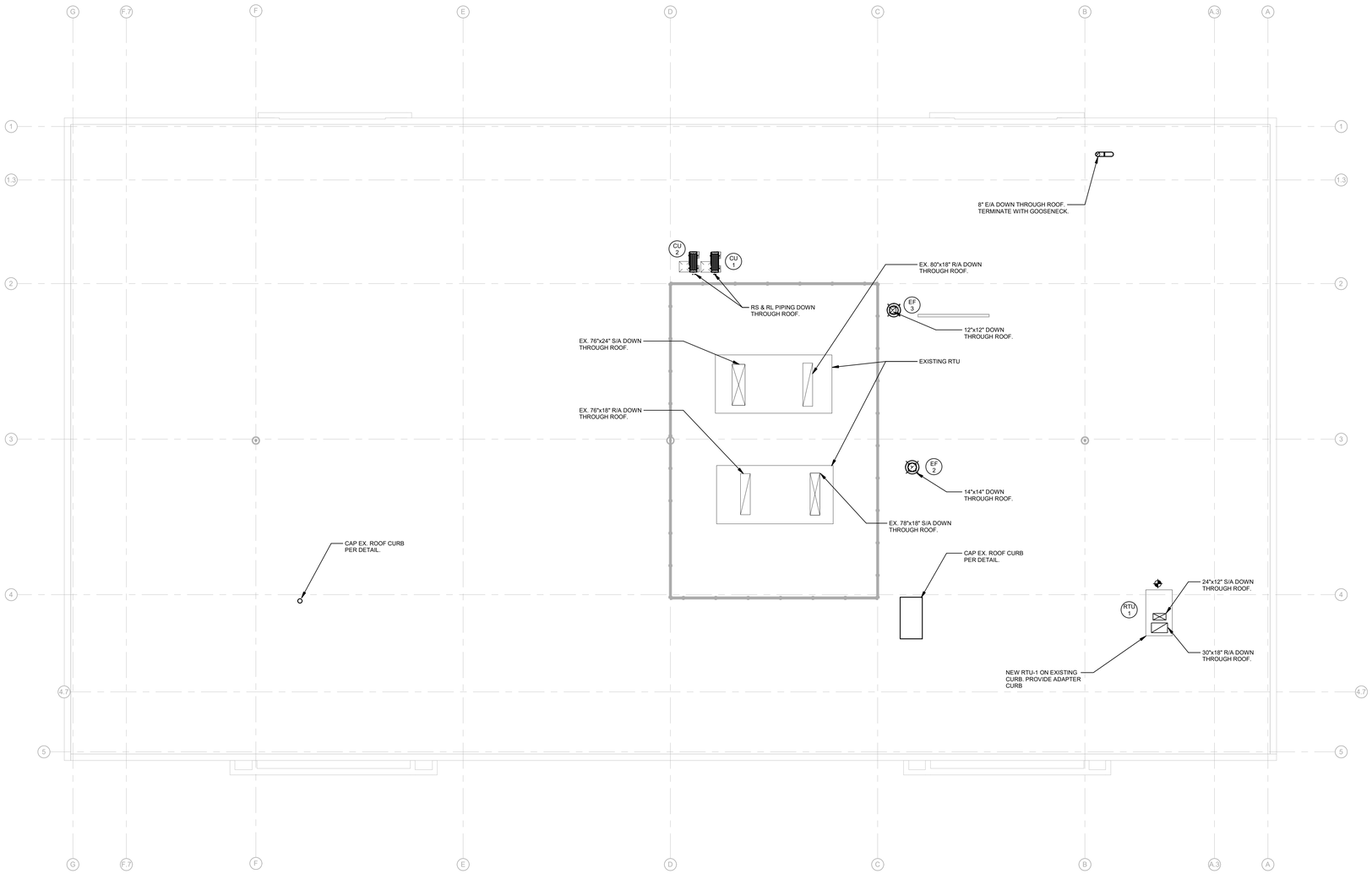
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
FIRST FLOOR PLAN - MECHANICAL

Drawing Number:
M100



1 ROOF PLAN - MECHANICAL
M101 SCALE: 1/8" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

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1005 W. Lehigh St
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Key Plan:

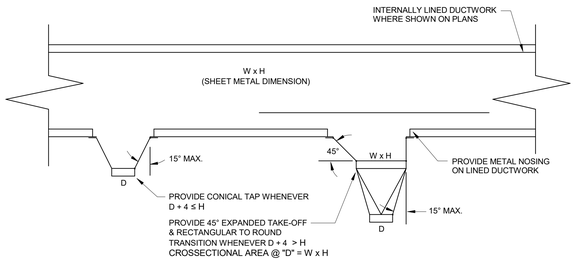
Drawing Title:
ROOF PLAN - MECHANICAL

Drawing Number:
M101

True Project

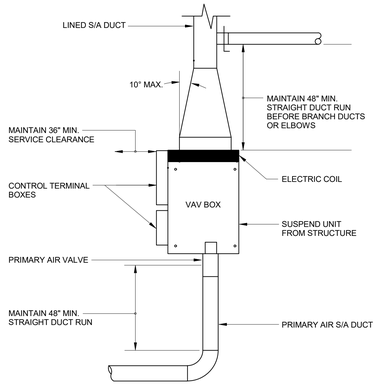
0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS



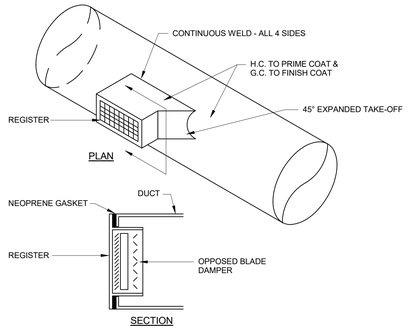
HIGH VELOCITY BRANCH DUCT TAKE-OFFS

NO SCALE



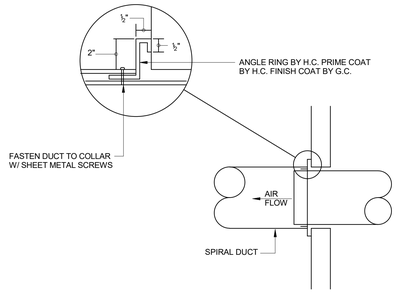
VAV BOX WITH ELECTRIC COIL DETAIL

NO SCALE



SPIRAL DUCT REGISTER DETAIL

NO SCALE



SPIRAL DUCT WALL PENETRATION DETAIL

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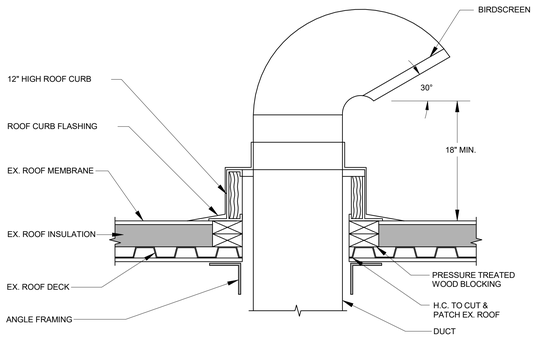
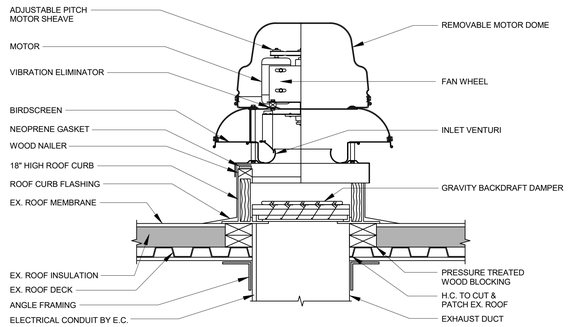


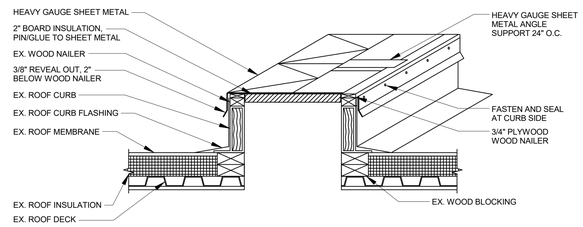
GOOSENECK DETAIL, EX. METAL DECK

NO SCALE



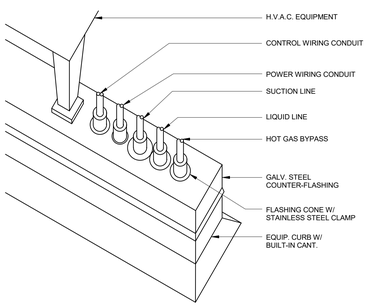
ROOF EXHAUST FAN DETAIL, EX. METAL DECK

NO SCALE



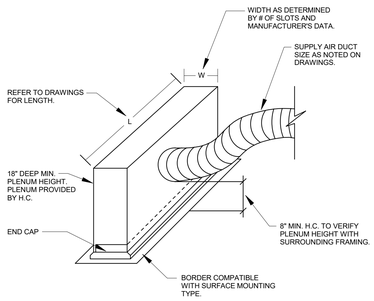
ROOF CURB CAP DETAIL

NO SCALE



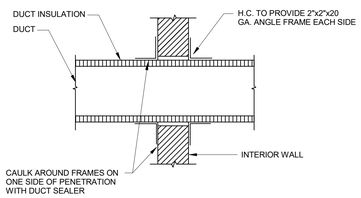
NOTE: SUPPORT ALL PIPING FROM BELOW

EQUIPMENT ROOF CURB DETAIL WITH PIPE PORTAL



LINEAR SLOT DIFFUSER DETAIL

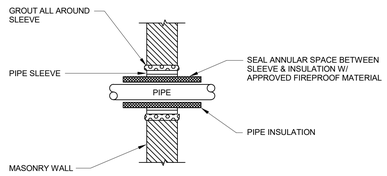
NO SCALE



NOTE:
1. WHERE THE DUCT PENETRATES A CORRIDOR WALL, THE CAULKING SHALL BE APPLIED ON THE CORRIDOR SIDE.

WALL PENETRATION DETAIL, DUCT

NO SCALE



NOTE:
1. PROVIDE ESCUTCHEONS AT WALL PENETRATIONS IN EXPOSED AREAS.

PIPE SLEEVE DETAIL

NO SCALE

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
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ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

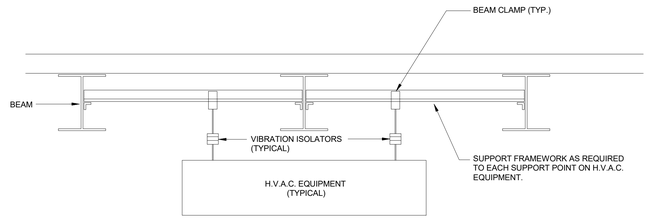
Key Plan:

Drawing Title:
DETAILS - MECHANICAL

Drawing Number:
M500

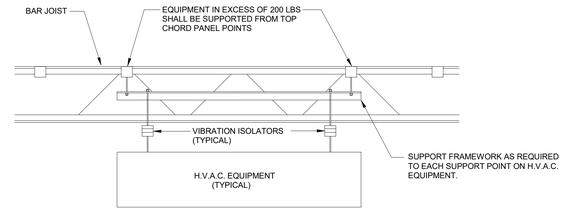
N True
N Project
0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS



RESTRAINT DETAIL - SUSPENDED EQUIPMENT, STEEL BEAM CONSTRUCTION

NO SCALE



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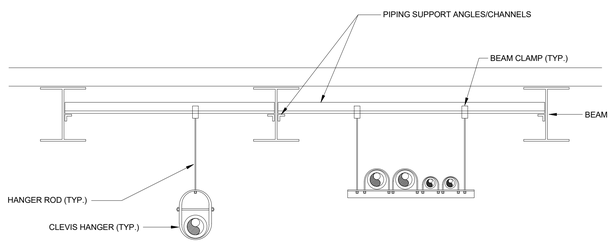
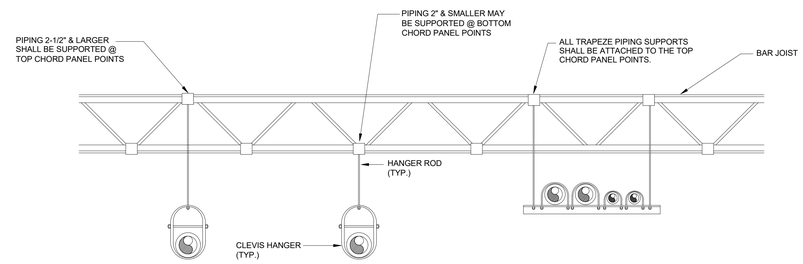
NO SCALE



RESTRAINT DETAIL - PIPING, STEEL BEAM CONSTRUCTION

NO SCALE



RESTRAINT DETAIL - PIPING, BAR JOIST CONSTRUCTION

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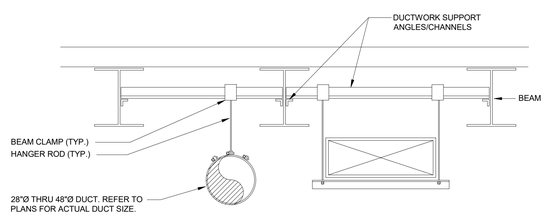
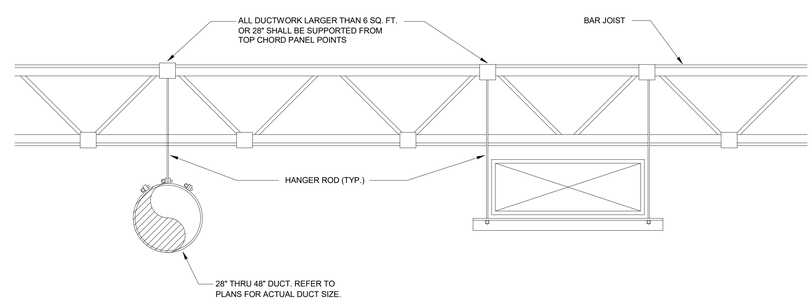


RESTRAINT DETAIL - DUCTWORK, STEEL BEAM CONSTRUCTION

NO SCALE



RESTRAINT DETAIL - DUCTWORK, BAR JOIST CONSTRUCTION

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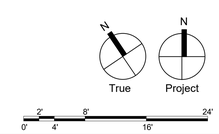


CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
DETAILS - MECHANICHAL

Drawing Number:
M501

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

ROOFTOP AIR HANDLING UNIT SCHEDULE

RTU # — RTU = ROOFTOP UNIT, # = MARK

TAG No.	AREA SERVED	MFR.	MODEL No.	SUPPLY FAN						COOLING COIL (DX)							HEATING COIL (ELECTRIC)					ELECTRICAL			FILTERS	OPERATING WEIGHT LBS.	NOTES
				CFM	ESP"	TSP"	BHP	HP	O/A CFM	EAT DB°F	EAT WB°F	LAT DB°F	LAT WB°F	SENSIBLE MBH	TOTAL MBH	ROWS	EAT DB°F	LAT DB°F	KW	STAGES	APD"	MCA	MOP	V/P/Hz			
RTU-1	CONFERENCE ROOMS	TRANE	H3D0A1	3,200	1.6	1.9	2.1	4.7	800	80.0	65.6	53.7	53.2	89.7	118.2	1	53.8	106.9	54	1	-	74	90	460/60/3	MERV-13	1162	1,2

NOTES:

1. UNIT SHALL CONSIST OF: MIXING BOX WITH FILTER, DX COOLING, ELECTRICAL RESISTANCE HEATING, AND SUPPLY FAN WITH VFD.
2. PROVIDE SINGLE POINT POWER WITH UNIT MOUNTED DISCONNECT SWITCH.

SERIES FAN POWERED VAV BOX SCHEDULE

FPV # — FPV = FAN POWERED VAV BOX, # = MARK

TAG No.	AREA SERVED	MFR.	MODEL No.	SYSTEM	SUPPLY FAN			PRIMARY CFM		INLET DIA."	INLET APD"	HEATING COIL (ELECTRIC)				ELECTRICAL			DISCHARGE NC LEVEL	RADIATED NC LEVEL	NOTES
					CFM	ESP"	HP	MININUM	MAXIMUM			EAT DB°F	LAT DB°F	KW	STAGES	MCA	MOP	V/P/Hz			
FPV-1.1	A145 CONFERENCE TRAINING	JCI	TCS	RTU-1	1040	0.25	1/2	315	1040	10	0.75	65.5	92.7	9.0	1	45.0	45	277/1/60	21	36	1 - 3
FPV-1.2	A144 BOARD ROOM	JCI	TCS	RTU-1	1040	0.25	1	375	1040	10	0.75	64.6	91.8	9.0	1	47.4	50	277/1/60	18	32	1 - 3
FPV-1.3	A143 BOARD ROOM	JCI	TCS	RTU-1	560	0.25	1/3	170	560	8	0.75	65.5	90.7	4.5	1	23.3	25	277/1/60	15	27	1 - 3
FPV-1.4	A142 EXEC. CONF	JCI	TCS	RTU-1	560	0.25	1/3	170	560	8	0.75	65.5	90.7	4.5	1	23.3	25	277/1/60	15	27	1 - 3
FPV-2.1	A141 SUPERINTENDENT	JCI	TCS	RTU-2	480	0.25	1/3	165	480	8	0.75	64.8	91.1	4.0	1	21.1	25	277/1/60	15	26	1 - 3
FPV 2.2	A132, A 131, A139	JCI	TCS	RTU-2	520	0.25	1/3	165	520	8	0.75	65.2	95.5	5.0	1	25.6	30	277/1/60	15	27	1 - 3
FPV-2.3	A128, A129, A130	JCI	TCS	RTU-2	600	0.25	1/3	180	600	8	0.75	65.5	94.4	5.5	1	27.8	30	277/1/60	15	28	1 - 3
FPV-2.4	A103 INS. TECH, A104 SUPER T&L SECONDARY	JCI	TCS	RTU-2	400	0.25	1/3	165	400	6	0.75	63.8	91.4	3.5	1	18.8	20	277/1/60	15	25	1 - 3
FPV-2.5	A101 CONFERENCE	JCI	TCS	RTU-2	600	0.25	1/3	180	600	8	0.75	65.5	91.7	5.0	1	25.6	30	277/1/60	15	28	1 - 3
FPV-2.6	A100 LOBBY, A100.1 RECEPTION, A144.1 STOR.	JCI	TCS	RTU-2	770	0.25	1/3	235	770	10	0.75	65.4	92.0	6.5	1	32.3	35	277/1/60	17	32	1 - 3
FPV-3.1	A125, A126, A127	JCI	TCS	RTU-3	440	0.25	1/3	165	440	8	0.75	64.4	96.6	4.5	1	23.3	25	277/1/60	15	26	1 - 3
FPV-3.2	A124 ASSIST. BUS. AFFAIRS	JCI	TCS	RTU-3	350	0.25	1/3	165	350	6	0.75	62.9	98.9	4.0	1	21.1	25	277/1/60	15	25	1 - 3
FPV-3.3	A123 DIRECTOR OF BUSINESS AFFAIRS	JCI	TCS	RTU-3	380	0.25	1/3	165	380	6	0.75	63.5	96.6	4.0	1	21.1	25	277/1/60	15	25	1 - 3
FPV-3.4	A121 BUSINESS SUITE	JCI	TCS	RTU-3	800	0.25	1/3	240	800	10	0.75	65.5	91.1	6.5	1	32.3	35	277/1/60	19	33	1 - 3
FPV-3.5	A122 BUSINESS SUITE	JCI	TCS	RTU-3	400	0.25	1/3	165	400	6	0.75	63.8	91.4	3.5	1	18.8	20	277/1/60	15	25	1 - 3
FPV-3.6	A112 ELEM SPECIAL ED	JCI	TCS	RTU-3	380	0.25	1/3	165	380	6	0.75	63.5	96.6	4.0	1	21.1	25	277/1/60	15	25	1 - 3
FPV-3.7	A111 T&L SUITE	JCI	TCS	RTU-3	800	0.25	1/3	240	800	10	0.75	65.5	91.1	6.5	1	36.1	35	277/1/60	19	33	1 - 3
FPV-3.8	A110 ASSIST SUPER FOR ED SERVICES	JCI	TCS	RTU-3	440	0.25	1/3	165	440	8	0.75	64.4	93.0	4.0	1	21.2	25	277/1/60	15	26	1 - 3
FPV-3.9	A109 DIRECTOR TEACH	JCI	TCS	RTU-3	380	0.25	1/3	165	380	6	0.75	63.5	96.6	4.0	1	21.1	25	277/1/60	15	25	1 - 3
FPV-3.10	A105 SUPER ELEM., A106 SUPER CLINICAL SERV.	JCI	TCS	RTU-3	400	0.25	1/3	165	400	6	0.75	63.8	91.4	3.5	1	18.8	20	277/1/60	15	25	1 - 3
FPV-3.11	A107 SUPER OF SPEC. SERV., A108 DIR. ST. SER.	JCI	TCS	RTU-3	500	0.25	1/3	165	500	8	0.75	65.1	90.2	4.0	1	21.1	25	277/1/60	15	26	1 - 3

NOTES:
1. TRANSITION DUCTWORK AS REQUIRED TO MATCH INLET AND OUTLET DIMENSIONS FOR EACH VAV.
2. INSTALL ALL UNITS FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND CLEARANCES.
3. PROVIDE DISCONNECT SWITCH & STEP-DOWN TRANSFORMER FOR CONTROL CIRCUIT.

SHUT-OFF VAV BOX SCHEDULE

VAV # — VAV = VAV BOX, # = MARK

TAG No.	AREA SERVED	MFR.	MODEL No.	SYSTEM	CFM			INLET DIA."	INLET APD"	HEATING COIL (ELECTRIC)					ELECTRICAL			DISCHARGE NC LEVEL	RADIATED NC LEVEL	NOTES
					MIN.	HTG.	MAX.			EAT DB°F	LAT DB°F	KW	STAGES	APD"	MCA	MOP	V/P/Hz			
VAV-2.1	A139 SUPERINTENDENT LOBBY	JCI	TSS	RTU-2	125	125	240	5	0.75	55.0	93.1	1.5	1	0.02	6.77	15	277/1/60	22	<15	1 - 3
VAV-2.2	C100, A133, A134, C101, T04,T08	JCI	TSS	RTU-2	240	240	610	8	0.75	55.0	94.3	3.0	1	0.05	13.54	15	277/1/60	22	19	1 - 3
VAV-2.3	A138 KITCHEN	JCI	TSS	RTU-2	130	130	360	6	0.75	55.0	91.3	1.5	1	0.11	6.77	15	277/1/60	20	<15	1 - 3
VAV-2.4	A102 CHILD ACCOUNTING, A111.1 COPY/MAIL	JCI	TSS	RTU-2	125	125	260	5	0.75	55.0	93.1	1.5	1	0.02	6.77	15	277/1/60	24	<15	1 - 3
VAV-3.1	A120 OPEN WORKSPACE, C100 CORRIDOR	JCI	TSS	RTU-3	315	315	1040	10	0.75	55.0	95.0	4.0	1	0.03	18.05	20	277/1/60	22	20	1 - 3
VAV-3.2	A113 ELEM SPECIAL ED	JCI	TSS	RTU-3	125	125	124	5	0.75	55.0	93.1	1.5	1	0.01	6.77	15	277/1/60	<15	<15	1 - 3
VAV-3.3	A111 OPEN WORKSPACE	JCI	TSS	RTU-3	525	525	1600	12	0.75	55.0	94.1	6.0	1	0.05	27.08	30	277/1/60	22	23	1 - 3
VAV-3.4	A114 CONFERENCE/BREAKOUT	JCI	TSS	RTU-3	125	125	300	6	0.75	55.0	93.1	1.5	1	0.08	6.77	15	277/1/60	18	<15	1 - 3
VAV-3.5	A115 CONFERENCE/BREAKOUT	JCI	TSS	RTU-3	125	125	300	6	0.75	55.0	93.1	1.5	1	0.08	6.77	15	277/1/60	18	<15	1 - 3
VAV-3.6	A116, A117, A118, A119	JCI	TSS	RTU-3	175	175	320	6	0.75	55.0	100.0	2.5	1	0.09	11.28	15	277/1/60	19	<15	1 - 3

NOTES:
1. TRANSITION DUCTWORK AS REQUIRED TO MATCH INLET AND OUTLET DIMENSIONS FOR EACH VAV.
2. INSTALL ALL UNITS FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND CLEARANCES.
3. PROVIDE DISCONNECT SWITCH & STEP-DOWN TRANSFORMER FOR CONTROL CIRCUIT.

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

DSS # — DSS = DUCTLESS SPLIT SYSTEM, # = MARK
CU # — CU = CONDENSING UNIT, # = MARK

TAG No.	AREA SERVED	MFR.	INDOOR UNIT										OUTDOOR UNIT											NOTES
			MODEL No.	CFM	ESP"	COOLING SEN. MBH	COOLING TOT. MBH	HEATING MBH	MCA	MOP	V/P/Hz	WEIGHT LBS.	TAG No.	MODEL No.	AMBIENT °F	SEER	HSPF	COOLING MBH	HEATING MBH	MCA	MOP	V/P/Hz	WEIGHT LBS.	
DSS-1	A136 IT	MITSUBISHI	PKA-A12LA	350	N/A	10.6	12.0	10.6	N/A	N/A	N/A	28	CU-1	PUZ-A12NKA7	95.0 / 5.0	21.0	13.3	12.0	10.6	11.0	28	208/1/60	93	1,2,3,4,5,6,7
DSS-2	A135 ELEC	MITSUBISHI	PLA-A24EA7	640	N/A	20.6	24.0	13.0	N/A	N/A	N/A	56	CU-2	PUZ-A24NHA7	95.0 / 5.0	24.2	11.2	24.0	13.0	19.0	26	208/1/60	153	1,2,3,4,5,6,7

NOTES:

1. INSTALL ALL AC & CU UNITS FOLLOWING MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION, CLEARANCES AND SERVICEABILITY.
2. REFRIGERANT PIPING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR SIZING AND MAXIMUM PIPING LENGTH. PROVIDE PROPER REFRIGERANT CHARGE AS RECOMMENDED BY MANUFACTURER IF EQUIVALENT LENGTH EXCEEDES RATINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFRIGERANT PIPING ACCESSORIES AND APPURTENANCES AS REQUIRED TO COMPLETE THE SYSTEM.
4. PROVIDE INTEGRAL DISCONNECT SWITCH FOR DSS AND CU.
5. PROVIDE LOW AMBIENT CONTROL.
6. POWER CONNECTIONS SHALL BE MADE AT CONDENSING UNIT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERCONNECTING POWER AND CONTROL WIRING BETWEEN INDOOR AND OUTDOOR COMPONENTS.
7. PROVIDE WALL MOUNTED THERMOSTAT. PROVIDE SEPARATE SPACE TEMPERATURE SENSOR (BY BAS MANUFACTURER) FOR BAS INTEGRATION.
8. CONDENSATE PIPING SHALL BE COPPER TUBE ASTM B88 TYPE L WITH SOLDER JOINTS OR PVC ASTM D1785 SCH 40 WITH SOLVENT WELDS. PVC CONDENSATE PIPING SHALL NOT REQUIRE INSULATION.

FAN SCHEDULE

EF # — EF = EXHAUST FAN, # = MARK
KF # — KF = KITCHEN EXHAUST FAN, # = MARK

TAG	AREA(S) SERVED	MFR	MODEL	CFM	ESP"	RPM	DRIVE	SONES	MOTOR HP/W	V/P/Hz	CONTROL	DAMPER	WEIGHT LBS	NOTES
EF-1	T10 TOILET	GREENHECK	SP-A190	150	0.35	1,400	DIRECT	1.5	46	115/1/60	ATC	BDD	17	1
EF-2	A137, T03, T02, T01, T05, T06, T07,T08	GREENHECK	G-100-A	1,000	0.5	1725	DIRECT	10.5	216	208/1/60	ATC	BDD	50	1
EF-3	A138 KITCHEN	GREENHECK	G-90-D	400	.45	1550	DIRECT	7.5	60	115/1/60	ATC	BDD	43	1

NOTES:

1. PROVIDE DISCONNECT SWITCH.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

— TAG, V — VOLUME, CFM

TAG	MFR	MODEL	SIZE	PATTERN	TYPE	MOUNT	FINISH	MAX N.C.	NOTES
1	TITUS	TDV	6x6	6" DIA. NECK 4-WAY	S/A	SURFACE	BWE	25	-
2	TITUS	TDV	9x9	8" DIA. NECK 4-WAY	S/A	SURFACE	BWE	25	-
3	TITUS	TDV	12x12	10" DIA.NECK 4-WAY	S/A	SURFACE	BWE	25	-
4	TITUS	TDV	15x15	12" DIA.NECK 4-WAY	S/A	SURFACE	BWE	25	-
5	TITUS	300 RL	6X6	3/4" SPACING 2X DEFLECTION	S/A	SURFACE	BWE	25	-
6	TITUS	300 RL	8x6	3/4" SPACING 2X DEFLECTION	S/A	SURFACE	BWE	25	-
7	TITUS	ML 38	48x4	3/4" SPACING, 2-SLOT, 6" DIA. NECK	S/A	SURFACE	BWE	25	-
8	TITUS	ML 38	48x4	3/4" SPACING, 2-SLOT, 8" DIA. NECK	S/A	SURFACE	BWE	25	-
9	TITUS	ML 38	48x4	3/4" SPACING, 2-SLOT, 10" DIA. NECK	S/A	SURFACE	BWE	25	-
10	TITUS	350 RL	6x6	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
11	TITUS	350 RL	10x6	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
12	TITUS	350 RL	14x6	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
13	TITUS	350 RL	12x12	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
14	TITUS	350 RL	18x12	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
15	TITUS	350 RL	24x12	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
16	TITUS	350 RL	36x16	3/4" SPACING 35° DELFECTION	R/A,T/A	SURFACE	BWE	25	-
17	TITUS	350 RL	30x24	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
18	TITUS	350 RL	54x24	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
19	TITUS	350 RL	8x8	3/4" SPACING 35° DEFLECTION	R/A,T/A,EA	SURFACE	BWE	25	-
20	TITUS	350 RL	10x10	3/4" SPACING 35° DEFLECTION	R/A,T/A,E/A	SURFACE	BWE	25	-
21	TITUS	350 RL	14x14	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
22	TITUS	350 RL	22x22	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-
23	TITUS	350 RL	30x12	3/4" SPACING 35° DEFLECTION	R/A,T/A	SURFACE	BWE	25	-

NOTES:

ELECTRIC CABINET HEATER SCHEDULE

ECH # — ECH = ELECTRIC CABINET HEATER, # = MARK

TAG No.	AREA SERVED	MFR.	MODEL No.	FAN			HEATING COIL (ELECTRIC)				ELECTRICAL		MOUNTING	NOTES
				SPEED	CFM	HP	EAT DB°F	LAT DB°F	KW	STAGES	AMPS	V/P/Hz		
ECH-1	V01 VEST.	BERKO	CUH 935	1,550	250	1/8	55.0	85.0	2	2	8	277/1/60	CEILING	1,2,3
ECH-2	V02 VEST.	BERKO	CUH 395	1,550	250	1/8	55.0	85.0	2	2	8	277/1/60	CEILING	1,2,3
ECH-3	V03 VEST.	BERKO	CUH395	1,550	250	1/8	55.0	85.0	2	2	8	277/1/60	CIELING	1,2,3

NOTES:

1. PROVIDE INTEGRAL DISCONNECT SWITCH & SINGLE POINT POWER CONNECTION.
2. PROVIDE 2-STAGE BUILT-IN THERMOSTAT.PROVIDE FRONT INLET/DISCHARGE AIR CONFIGURATIONS AND ARCHITECTURAL EXTRUDED ALUMINUM GRILLE.
3. PROVIDE RECESS TRIM KIT AND ARCHITECTURAL EXTRUDED ALUMINUM GRILLES.

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023
SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
SCHEDULES - MECHANICAL

Drawing Number:
M600

N True
N Project
0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

ELECTRICAL LEGEND

NOTE: NOT ALL DEVICES SHOWN ON THE LEGEND ARE USED ON THIS PROJECT

?	LED LIGHT FIXTURE (UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCHING GROUP)
?	LIGHT FIXTURE WITH EMERGENCY LAMP SOCKET
?	INCANDESCENT, LED, FLUORESCENT OR H.I.D. LIGHT FIXTURE
?	NORMAL-EMERGENCY LIGHT FIXTURE
?	EMERGENCY ONLY LIGHT FIXTURE
	WALL SCONCE
	EXIT SIGN
	EMERGENCY BATTERY UNIT
	REMOTE HEAD
	DOUBLE REMOTE HEAD
?	POLE-MOUNTED SITE LIGHT FIXTURE
S	SINGLE POLE SWITCH (LOWER CASE LETTER DENOTES GROUP TO BE SWITCHED)
S_D	DIMMER SWITCH
S_{LV}	LOW VOLTAGE SWITCH
S_T	CAPACITIVE TOUCH SCREEN LIGHTING CONTROL PANEL
S_3	3-WAY SWITCH
S_4	4-WAY SWITCH
S_F	FAN SWITCH
S_K	KEY SWITCH
S_M	MOMENTARY-CONTACT SWITCH
S_{OR}	OVERRIDE SWITCH
S_P	SWITCH WITH PILOT LIGHT
OS	OCCUPANCY SENSOR (CEILING-MOUNTED)
DS	DAYLIGHT SENSOR (CEILING-MOUNTED)
OS	OCCUPANCY SENSOR (WALL-MOUNTED)
OS	DUAL-TECH OCCUPANCY SENSOR (CORNER-MOUNTED)
OS	CORRIDOR OCCUPANCY SENSOR
US	ULTRASONIC 360° OCCUPANCY SENSOR (CEILING-MOUNTED)
BR / GTD	UL1008 EMERGENCY LIGHTING RELAY
CP	OCCUPANCY SENSOR CONTROL/ POWER PACK
DM	DIGITAL LIGHTING ROOM CONTROLLER
$\Box_{CT}$	DUPLEX CONVENIENCE OUTLET (CT DENOTES COUNTERTOP HEIGHT)
$\Box_{DC}$	DUPLEX OUTLET SUSPENDED FROM DROP CORD
	DUPLEX ISOLATED GROUND OUTLET
	DOUBLE DUPLEX (QUADRUPLEX) OUTLET
	QUADRUPLEX ISOLATED GROUND OUTLET
	SPECIAL PURPOSE OUTLET
$\Box_R$	RANGE OUTLET, 50AMP 3 WIRE
	TELEPHONE OUTLET (POTS LINE)
	TELEPHONE OUTLET (PROVIDE (1) DATA DROP)
$_W$	WALL-MOUNTED TELEPHONE OUTLET (PROVIDE (1) DATA DROP)
#	COMPUTER OUTLET (NUMBER DENOTES NUMBER OF JACKS. WHERE NO NUMBER IS SHOWN, PROVIDE TWO JACKS MINIMUM.)
	WIRELESS ACCESS POINT. PROVIDE TWO DATA DROPS IN CEILING OR ON WALL FOR EACH LOCATION INDICATED. FIELD COORDINATE TERMINATION/ PLATE TYPE WITH OWNER PROVIDED DEVICE REQUIREMENTS.
	A/V INPUT/OUTPUT JACK
F	FIBER CONNECTION
	FLATSCREEN INPUT/OUTPUT JACK
	TELEVISION CABLE OUTLET
	BLANK PLATE
SB	SMARTBOARD
PP	PROJECTOR PLATE
	FLOOR OUTLET - DUPLEX RECEPTACLE, TELEPHONE AND COMPUTER JACK
	MOTOR
	DISCONNECT SWITCH (FUSED OR NON-FUSED AS INDICATED ON DRAWING)
	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER/DISCONNECT
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	MOTOR STARTER
	FRACTIONAL MOTOR STARTER
$_{PP}$	POWER POLE
J	JUNCTION BOX
	PUSHBUTTON
	START/STOP STATION
	OVERHEAD DOOR OPERATOR (UP, DOWN AND STOP)
	WIRING CONCEALED ABOVE CEILING OR IN WALL. CROSS LINES INDICATE NUMBER OF #12 A.W.G. WIRES IN A 3/4" CONDUIT. GROUND WIRES ARE NOT SHOWN. NO CROSS LINES INDICATE (2)#12 A.W.G., (1)#12 A.W.G. GROUND IN A 3/4" CONDUIT.
	WIRING CONCEALED BELOW GRADE OR FLOOR
	CIRCUIT HOME RUN WITH CIRCUIT NUMBER INDICATED
	NORMAL-EMERGENCY OR EMERGENCY ONLY BRANCH CIRCUIT WIRING
	PLUGMOLD
T	TRANSFORMER

F	FIRE ALARM PULL STATION
F #	FIRE ALARM AUDIOVISUAL HORN ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
VO F #	FIRE ALARM VISUAL-ONLY ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
F	FIRE ALARM BELL
P #	CEILING-MOUNTED AUDIOVISUAL FIRE ALARM DEVICE. # INDICATES CANDELA RATING. WHERE NO NUMBER IS INDICATED, PROVIDE DEVICE WITH 15 CANDELA RATING.
A	CEILING-MOUNTED AUDIO ONLY FIRE ALARM DEVICE.
	SMOKE DETECTOR
H	HEAT DETECTOR
D	DUCT SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR
FS	SPRINKLER SYSTEM FLOW SWITCH (BY OTHERS)
TS	SPRINKLER SYSTEM TAMPER SWITCH (BY OTHERS)
PS	SPRINKLER SYSTEM PRESSURE SWITCH (BY OTHERS)
RAC	RESCUE ASSISTANCE REMOTE CALL STATION
RAM	RESCUE ASSISTANCE MASTER STATION/ANNUNCIATOR PANEL
SP	SPRINKLER SYSTEM ELECTRIC MOTOR GONG
D	DOORBELL
D	DOOR HOLDER - FIRE ALARM SYSTEM
IAM	INDIVIDUAL ADDRESSABLE MODULE - FIRE ALARM SYSTEM
ZAM	ZONE ADDRESSABLE MODULE - FIRE ALARM SYSTEM
CZAM	CONTROL RELAY ZONE ADDRESSABLE MODULE - F/A SYSTEM
REX	REQUEST-TO-EXIT DETECTOR
C S	CLOCK, SPEAKER UNIT
C	WALL MOUNTED CLOCK
2 C	DOUBLE FACE CLOCK
CR	CORD REEL WITH 20A 120V OUTLET
E E	EXISTING DEVICES TO REMAIN
M	MICROPHONE JACK - SOUND SYSTEM
S	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, CEILING-MOUNTED)
S	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, CEILING-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (SURFACE, WALL-MOUNTED)
	PUBLIC ADDRESS/INTERCOM SPEAKER (FLUSH, WALL-MOUNTED)
V	PUBLIC ADDRESS/ INTERCOM VOLUME CONTROL
I	INTERCOM DOOR STATION
IM	INTERCOM MASTER STATION
	MOTION DETECTOR - SECURITY SYSTEM
	CEILING MOUNTED, 360° MOTION DETECTOR
	DOOR MAGNET CONTACT - SECURITY SYSTEM
	SECURITY CAMERA
	ALARM HORN - SECURITY SYSTEM
ES	ELECTRIC DOOR STRIKE
CR	CARD READER
K	KEY PAD
	RESET KEYSWITCH STATION
	PUSH PLATE
	EMERGENCY OFF PUSH-BUTTON
	EMERGENCY KILLSWITCH
	GAS SOLENOID VALVE
	NURSE CALL DOME LIGHT, 'C' INDICATES CEILING MOUNTED
A	NURSE CALL AUXILIARY STATION
B	NURSE CALL CODE BLUE STATION
C	CALL CANCEL BUTTON
DS	DUTY STATION
E	EMERGENCY CALL STATION
N A	NURSE CALL PATIENT STATION W/ CODE BLUE AND STAFF ASSISTANCE
N PB	NURSE CALL SINGLE PATIENT WALL-MOUNTED PUSH BUTTON STATION
N PS	NURSE CALL PATIENT STATION W/ STAFF ASSITANCE AND PILLOW SPEAKER
N S	NURSE CALL PATIENT STATION W/ STAFF ASSITANCE
N SA	NURSE CALL STAFF STATION W/ CODE BLUE
NC DC	NURSE CALL DECENTRALIZED MINI-MASTER TOUCH STATION
NC HE	NURSE CALL CONTROL STATION HEAD END
NC M	NURSE CALL MASTER STATION
NC TM	NURSE CALL FULL SIZED MASTER STATION
P	NURSE CALL PULL CORD STATION
P S	SLAVE SHOWER BATH STATION WITH PULL CORD
S	NURSE CALL STAFF STATION
SA	NURSE CALL STAFF ASSISTANCE STATION

ELECTRICAL ABBREVIATIONS

A/a	AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AFI	ARC FAULT INTERRUPTER RECEPTACLE
ARCH.	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
A/V	AUDIOVISUAL
AWG.	AMERICAN WIRE GAUGE
BEPs	BUILDING ENTRANCE PROTECTORS
BKR.	BREAKER
CKT.	CIRCUIT
CLG.	CEILING
COND.	CONDUIT
CT	COUNTERTOP
DISC.	DISCONNECT
DN	DOWN
DWG.	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EM.	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER (PROVIDE GROUND FAULT PROTECTION)
EXIST./EX./E	EXISTING
F.A.	FIRE ALARM
G.C.	GENERAL CONTRACTOR
GEN.	GENERATOR
GFI	GROUND FAULT INTERRUPTER RECEPTACLE
GND.	GROUND
H.C.	HEATING CONTRACTOR
HD	HAND DRYER
HWH	HOT WATER HEATER
IDF	INTERMEDIATE DISTRIBUTION FRAME
MAX.	MAXIMUM
M.C.	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MIN.	MINIMUM
MTD.	MOUNTED
N/E	NORMAL EMERGENCY
P	POLE
P.C.	PLUMBING CONTRACTOR
PNL.	PANEL
POTS	PLAIN OLD TELEPHONE SERVICE
PTZ	PAN, TILT, ZOOM
S.F.	SQUARE FEET
SW.	SWITCH
TR	TAMPER RESISTANT
TYP.	TYPICAL
U/E	UNDERGROUND ELECTRIC
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
W/	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

EQUIPMENT TAG LEGEND

NOTE: NOT ALL TAGS SHOWN ON THE LEGEND ARE USED ON THIS PROJECT

ACC X	AIR-COOLED CHILLER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
ACU X	AIR-COOLED CONDENSOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
AHU X	AIR HANDLING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
ATC X	AUTOMATIC TEMPERATURE CONTROL DAMPER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
B X	BOILER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
BP X	BOOSTER FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
CH X	CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
CHP X	CONSOLE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
CP X	CONDENSATE PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
CT X	COOLING TOWER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
CU X	CONDENSING UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
CV X	CONSTANT VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
DHU X	DEHUMIDIFICATION UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
DSS X	DUCTLESS SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
ECH X	ELECTRIC CABINET HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
EDC X	ELECTRIC DUCT COIL - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
EF X	EXHAUST FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
ER X	ELECTRIC RADIATION - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
FH X	FUME HOOD - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
FPV X	FAN-POWERED VAV BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
FTP X	FUEL TRANSFER PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
GF X	GAS FURNACE - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
GUH X	GAS-FIRED UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
H X	HUMIDIFIER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
HP X	HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
HRU X	HEAT RECOVERY UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
IFR X	INFRARED HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
MAU X	MAKEUP AIR UNIT - SUPPLIED AND INSTALLED BY H.C.,
P X	PUMP - SUPPLIED AND INSTALLED BY OTHERS, FINAL CONNECTION BY E.C.
PTAC X	PACKAGED THRU-WALL A/C UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
RF X	RETURN AIR FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
RTU X	ROOFTOP UNIT - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
SF X	SUPPLY FAN - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
SS X	SPLIT SYSTEM - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
UH X	UNIT HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
UV X	UNIT VENTILATOR - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
VAV X	VARIABLE AIR VOLUME BOX - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
WH X	WALL HEATER - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.
WHP X	WATER SOURCE HEAT PUMP - SUPPLIED AND INSTALLED BY H.C., FINAL CONNECTION BY E.C.

ELECTRICAL GENERAL NOTES

1.	UNLESS OTHERWISE INDICATED, WIRE SIZES SHALL BE AS FOLLOWS: 20A #12, 30A #10, 40A #8, 50A #6, 70A #4, 100A #1.
2.	LIGHTING LAYOUT IS DIAGRAMMATICAL. E.C. SHALL COORDINATE LIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER TRADES AND ADJUST AS REQUIRED.
3.	ALL ROOF AND EXTERIOR-MOUNTED, GROUND-FAULT RECEPTACLES SHALL HAVE LOCKABLE "IN-USE" WEATHERPROOF COVERS. IN ADDITION TO THE WEATHERPROOF GFI RECEPTACLES SHOWN ON THE DRAWINGS, THE E.C. SHALL PROVIDE AND INSTALL (2) ADDITIONAL WEATHERPROOF GFI RECEPTACLES TO BE MOUNTED AS DIRECTED IN THE FIELD BY THE OWNER. EACH OF THE RECEPTACLES SHALL HAVE 50' OF BRANCH CIRCUIT WIRING TO CONNECT TO THE NEAREST AVAILABLE RECEPTACLE CIRCUIT. E.C. SHALL ASSUME COMPLETE CONSTRUCTION DURING THE INSTALLATION OF THESE RECEPTACLES.
4.	E.C. SHALL REFER TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE THE ELECTRICAL DEVICE LOCATIONS. WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGHING IN.
5.	THE E.C. SHALL COORDINATE THE INSTALLATION OF THE DOOR HARDWARE WITH THE G.C. TO INSURE THAT THE DOORS OPERATE PROPERLY. THE E.C. SHALL INCLUDE THE MAGNETIC LOCKS, MAGNETIC DOOR HOLDERS, SECURITY CONTACTS, FIRE DOOR OPERATORS, ETC. PROVIDE ANY NECESSARY INTERFACE DEVICES SUCH AS TRANSFORMERS OR RELAYS AND POWER FEED WIRING AS REQUIRED TO SUIT THE INSTALLATION OR SYSTEM. PROVIDE POWER BRANCH CIRCUIT WIRING FOR ALL ELECTRIC DOOR STRIKES AS REQUIRED.
6.	IN ADDITION TO THE QUANTITIES SHOWN ON THE DRAWING, THE E.C. SHALL PROVIDE AND INSTALL THE FOLLOWING ELECTRICAL EQUIPMENT WHERE DIRECTED IN THE FIELD: (2) OCCUPANCY SENSORS OF EACH TYPE USED ON THE PROJECT AND POWER PACKS FOR SENSORS, (5) DUPLEX RECEPTACLES, (5) DATA OUTLETS, (2) EXIT SIGNS, (2) SMOKE DETECTORS, (2) DUCT DETECTORS EACH WITH REMOTE TEST STATION, (1) MANUAL PULL STATIONS, (2) AUDIO/VISUAL DEVICES, AND (2) VISUAL ONLY DEVICES. INCLUDE THE COST OF INSTALLATION WITH UP TO 100' OF SYSTEM WIRING PER DEVICE AND ASSUME INSTALLATION WILL BE AFTER FINISHES ARE COMPLETE AND CEILINGS HAVE BEEN INSTALLED. CONNECT EACH DEVICE TO ITS RESPECTIVE SYSTEM AND INCLUDE THE COST TO REPROGRAM THE OPERATING SYSTEM TO ADD ANY OF THE ABOVE MENTIONED DEVICES. THE E.C. SHALL TURN OVER TO THE OWNER ANY DEVICES THAT ARE NOT UTILIZED ON THE PROJECT AS SPARE PARTS.
7.	THE E.C. SHALL PROVIDE A 4" HIGH CONCRETE PAD UNDER ALL FLOOR-MOUNTED ELECTRICAL EQUIPMENT PROVIDED UNDER THE ELECTRICAL CONTRACT. THIS SHALL INCLUDE SWITCHBOARDS, EMERGENCY GENERATOR, AND OTHER ELECTRICAL FLOOR-MOUNTED EQUIPMENT. THE EQUIPMENT MOUNTED ON THE PADS SHALL CONFORM TO THE SEISMIC REQUIREMENTS.
8.	THE E.C. SHALL NOT INSTALL ANY CONDUITS WITHIN ANY OF THE ELEVATED FLOOR SLABS. ANY CONDUITS INSTALLED BELOW THE SLAB ON GRADE SHALL BE INSTALLED IN THE STONE BASE AND NOT WITHIN THE CONCRETE.
9.	GFI RECEPTACLES SHOWN ON DRAWINGS ARE NOT ALL-INCLUSIVE. E.C. SHALL PROVIDE GFI RECEPTACLES IN KITCHEN, SERVING AREAS, AND WHERE LOCATED WITHIN 6FT OF SINK BASINS AS REQUIRED PER THE NEC. E.C. SHALL ALSO PROVIDE ALL ARC-FAULT, TAMPER RESISTANT, WEATHER-RESISTANT, AND GFI RECEPTACLES WHERE REQUIRED BY THE NEC FOR EACH RECEPTACLE LOCATION SHOWN ON THE DRAWINGS AND AS REQUIRED FOR BUILDING TYPE AND OCCUPANCY GROUP
10.	THE E.C. SHALL VERIFY ROUGH-IN LOCATION FOR ELECTRIC WATER COOLER (EWC) RECEPTACLE WITH P.C. BEFORE DOING ANY WORK. PROVIDE OUTLET, CORD AND PLUG FOR REMOTE CHILLER MOUNTED ABOVE CEILING. PROVIDE GFI-TYPE RECEPTACLES FOR ALL EWCs.
11.	THE E.C. SHALL INCLUDE IN THE ELECTRICAL BID FOR THE POST-CONSTRUCTION ADJUSTMENT OF THE OCCUPANCY SENSORS AS DIRECTED BY THE ARCHITECT OR OWNER. THIS SHALL INCLUDE ADJUSTMENT OF THE TIME AND SENSITIVITY OF THE DEVICES. ALSO INCLUDE THE COST TO RELOCATE (5) SENSORS UP TO 25' IN ORDER TO ELIMINATE FALSE TRIPPING OF THE SENSORS.
12.	DEVICE MOUNTING HEIGHTS AS FOLLOWS: RECEPTACLES — 18" ABOVE FINISHED FLOOR TO CENTER OF BOX CT RECEPTACLES — 3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPLASH SWITCHES — 48" ABOVE FINISHED FLOOR TO TOP OF BOX FIRE ALARM PULL STATIONS — THE OPERABLE PART (PULL HANDLE) OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" A.F.F. PANELS — 54" TO CENTERLINE FIRE ALARM A/V UNITS — UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED AUDIOVISUAL OR VISUAL-ONLY DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" A.F.F. WALL MOUNTED TELEPHONES — 48" ABOVE FINISHED FLOOR TO TOP OF BOX

OCCUPANCY SENSOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	COVERAGE AREA SQ. FT.	SENSOR TYPE	ADDITIONAL REMARKS
OS	WATTSTOPPER	WS-301	900	INFRARED	WALL MOUNTING
OS	WATTSTOPPER	DT-200	2000	DUAL TECHNOLOGY	WALL OR CEILING MOUNTING
OS	WATTSTOPPER	DT-300	1000	DUAL TECHNOLOGY	360° CEILING MOUNTING
OS	WATTSTOPPER	WT-2255	90 LINEAL FEET	ULTRASONIC	CEILING MOUNTED CORRIDOR SENSOR
US	WATTSTOPPER	UT-355-2	1000	ULTRASONIC	CEILING MOUNTED

NOTES: DISABLE SMART SET TECHNOLOGY IN ALL SPACES.

CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OCCUPANCY SENSORS WITH MANUFACTURER PRIOR TO ROUGH-IN

LOW-VOLTAGE SYSTEMS RESPONSIBILITY MATRIX

DEVICE	FURNISHED BY	INSTALLED BY	CABLING BY	CONDUIT/BACKBOX BY
WAP	OWNER	OWNER	E.C.	E.C.
SPEAKERS	E.C.	E.C.	E.C.	E.C.
CAMERAS	OWNER	E.C.	E.C.	E.C.
DISPLAYS	OWNER	E.C.	E.C.	E.C.
PROJECTORS	OWNER	E.C.	E.C.	E.C.

NOTE: ANY ITEM NOT SPECIFICALLY LISTED BUT SHOWN IN THE CONTRACT DOCUMENTS ARE TO BE FURNISHED AND INSTALLED BY THE E.C.

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

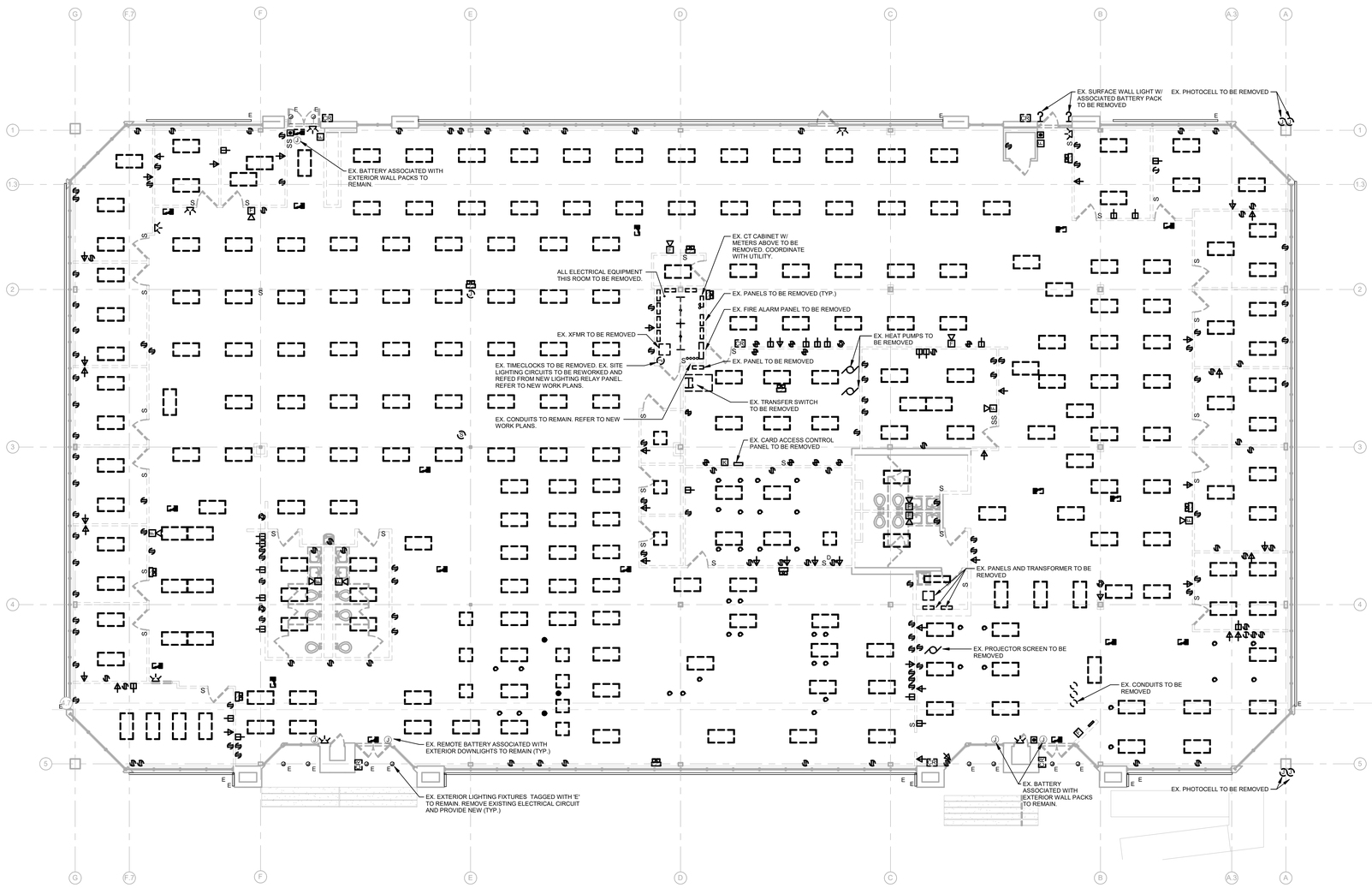
Key Plan:

Drawing Title:
COVERSHEET - ELECTRICAL

Drawing Number:
E001

CONFORMED DRAWINGS

DEMOLITION NOTES	
1.	UNLESS OTHERWISE INDICATED OR NOTED, ALL ELECTRICAL ITEMS SHOWN ARE TO BE REMOVED. THIS REMOVAL INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS: LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE OUTLETS AND JACKS, AND ALL OTHER ELECTRICAL ITEMS SHOWN ON THIS DRAWING. THIS INCLUDES ANY ASSOCIATED BRANCH CIRCUIT OR LOW VOLTAGE WIRING BACK TO ITS SOURCE. THE E.C. IS ALSO RESPONSIBLE FOR THE REMOVAL OF MOUNTING DEVICES, HANGERS, ETC. ASSOCIATED WITH THIS EQUIPMENT.
2.	AN ATTEMPT HAS BEEN MADE TO SHOW ALL THE LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE JACKS, AND ALL OTHER ELECTRICAL ITEMS ON THE DEMOLITION DRAWINGS. HOWEVER, THE E.C. SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY AND ALL OF THESE COMPONENTS THAT EXIST IN THE FIELD AND ARE IN THE WAY OF THE NEW CONSTRUCTION.
3.	NO WIRING SHALL BE ABANDONED IN PLACE, IT SHALL BE REMOVED. ALL CONDUIT SHALL BE REMOVED EXCEPT WHERE IT IS BURIED IN MASONRY WALLS AND IN OR BELOW FLOOR SLABS. IN THESE CASES CUT THE ENDS OF THE CONDUIT FLUSH WITH THE WALL OR FLOOR AND FILL WITH PATCHING MATERIALS TO MATCH ADJACENT SURFACES.
4.	THE E.C. SHALL BE RESPONSIBLE FOR RECONNECTING ANY EXISTING DEVICE WHICH IS TO REMAIN ENERGIZED AND HAS BEEN DISCONNECTED DUE TO THE DEMOLITION. PROVIDE ALL WIRING AND DEVICES NECESSARY TO RECONNECT.



1 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
ED101 SCALE: 1/8" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

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GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023
SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
Drawing Number:
ED101

True Project

CONFORMED DRAWINGS

DEMOLITION NOTES	
1.	UNLESS OTHERWISE INDICATED OR NOTED, ALL ELECTRICAL ITEMS SHOWN ARE TO BE REMOVED. THIS REMOVAL INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS: LIGHTING FIXTURES, RECEPTACLES, JUNCTION BOXES, VARIOUS LOW-VOLTAGE OUTLETS AND JACKS, AND ALL OTHER ELECTRICAL ITEMS SHOWN ON THIS DRAWING. THIS INCLUDES ANY ASSOCIATED BRANCH CIRCUIT OR LOW VOLTAGE WIRING BACK TO ITS SOURCE. THE E.C. IS ALSO RESPONSIBLE FOR THE REMOVAL OF MOUNTING DEVICES, HANGERS, ETC. ASSOCIATED WITH THIS EQUIPMENT.
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3.	NO WIRING SHALL BE ABANDONED IN PLACE, IT SHALL BE REMOVED. ALL CONDUIT SHALL BE REMOVED EXCEPT WHERE IT IS BURIED IN MASONRY WALLS AND IN OR BELOW FLOOR SLABS. IN THESE CASES CUT THE ENDS OF THE CONDUIT FLUSH WITH THE WALL OR FLOOR AND FILL WITH PATCHING MATERIALS TO MATCH ADJACENT SURFACES.
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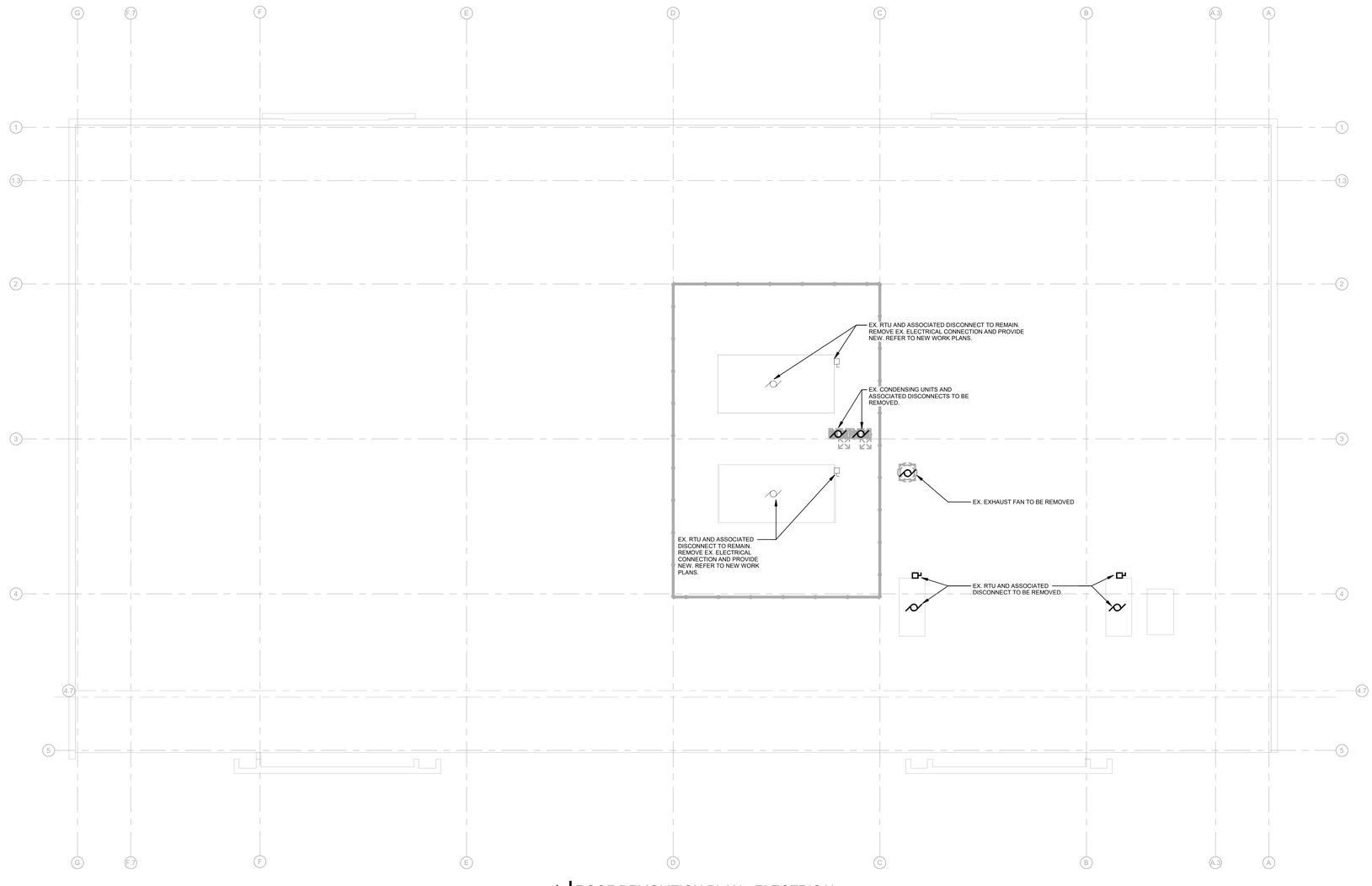


1 ROOF DEMOLITION PLAN - ELECTRICAL
ED102 SCALE: 1/8" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
ROOF DEMOLITION PLAN - ELECTRICAL

Drawing Number:
ED102

True Project

0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS

GENERAL LIGHTING NOTES:

1. REFER TO E001 FOR LEGEND AND GENERAL NOTES.
2. CIRCUIT ALL EXIT SIGNS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT.
3. NOT ALL WIRING SHOWN. CONTRACTOR SHALL PROVIDE ALL REQUIRED LOW-VOLTAGE WIRING, CONTROL WIRING, AND APPURTENANCES FOR A FULLY FUNCTIONING SYSTEM.
4. PROVIDE SURGE PROTECTION FOR ALL EXTERIOR DATA DROPS. PERLE CAT#OT-LAN-6 OR EQUAL.
5. PROVIDE (2) #8 IN 3/4" CONDUIT FOR ALL REMOTE HEADS.
6. ALL NEW PA SPEAKERS SHALL BE GRANDSTREAM CAT#GSC3505. PROVIDE SPEAKER, DATA CABLING, BACKBOXES AND CONDUIT. INCLUDE RECOMMENDED MOUNTING HARDWARE FROM MANUFACTURER. SPEAKER PROGRAMMING SHALL BE BY DISTRICT PHONE VENDOR. PA SPEAKERS SHALL BE INCLUDED AS PART OF ALTERNATE BID.

CODED LIGHTING NOTES:

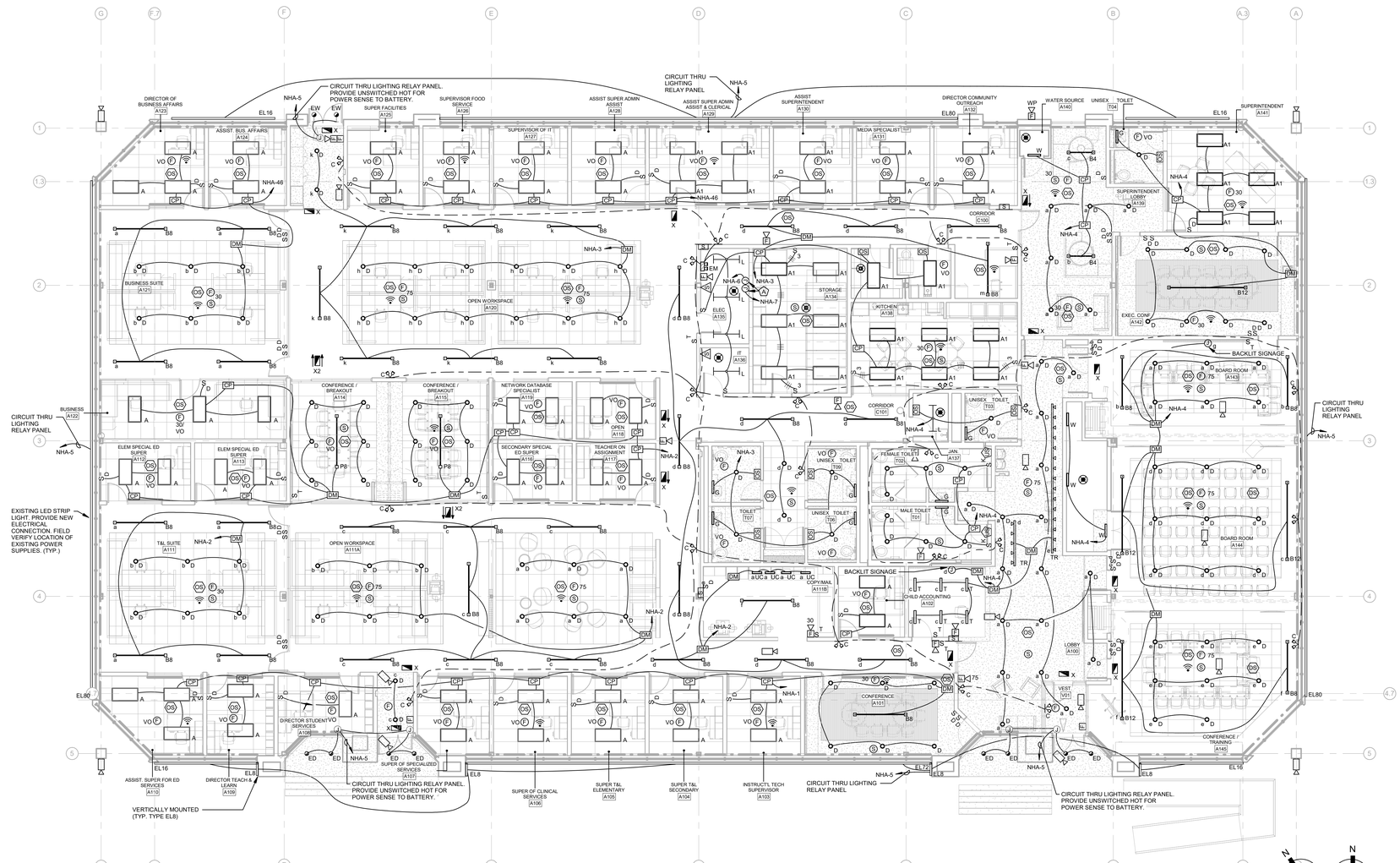
(A) INTERCEPT AND EXTEND EXISTING SITE LIGHTING CIRCUITS. CIRCUIT THRU NEW LIGHTING RELAY PANEL. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF CIRCUITS AND EXTEND AS REQUIRED.

Lighting Fixture Schedule

Type	Apparent Load	Manufacturer	Catalog Number	Mounting	Total Depth	No. of Lamps	Lamp Type	Voltage	Additional Remarks
A	53 VA	ELITE	24-FPL1-LED-3000/4000/5000-DIM10-MVOL T-35K-85	RECESSED	2"	LED	4800LU LED 3500K	UNV	2'x4' FLAT PANEL WITH 0-10V DIMMING. FIELD SELECT LUMENS AS NOTED.
A1	53 VA	ELITE	24-FPL1-LED-3000/4000/5000-DIM10-MVOL T-35K-85	RECESSED	2"	LED	3800LU LED 3500K	UNV	2'x4' FLAT PANEL WITH 0-10V DIMMING. FIELD SELECT LUMENS AS NOTED.
B4	34 VA	ELITE	OLS-DI-LED-2-S-4'-D500L-U500L-8W-1C-DI M10-277-35K-85-(NOTE 1)	SUSPENDED	N/A	LED	4000LU LED 3500K	UNV	LED DIRECT/INDIRECT LINEAR WITH BATWING UP AND 0-10V DIMMING.
B8	68 VA	ELITE	OLS-DI-LED-2-S-8'-D500L-U500L-8W-1C-DI M10-277-35K-85-(NOTE 1)	SUSPENDED	N/A	LED	8000LU LED 3500K	UNV	LED DIRECT/INDIRECT LINEAR WITH BATWING UP AND 0-10V DIMMING.
B12	102 VA	ELITE	OLS-DI-LED-2-CR-12'-D500L-U500L-8W-1C -DIM10-277-35K-85-(NOTE 1)	SUSPENDED	N/A	LED	12000LU LED 3500K	UNV	LED DIRECT/INDIRECT LINEAR WITH BATWING UP AND 0-10V DIMMING.
C	6 VA	EVENLITE	TSLED-2-MV-W	WALL	N/A	(2)	12VDC LED	12VDC	LED DOUBLE REMOTE HEAD
D	21 VA	LIGHTOLIER	L6R-20-A-Z10U-VB-L6R-20-935-VB-L6RA-2 0-935-W-VB-L6R-DD	RECESSED	5-3/8"	LED	2000LU LED 3500K	UNV	6" LED DOWNLIGHT WITH 0-10V DIMMING.
ED	11 VA	ZANEEN	L12R0002-3000K-32POLAR	RECESSED	3-1/16"	LED	850LU LED 3000K	277	EXISTING EXTERIOR DOWNLIGHT. INFORMATION INDICATED IS FROM EXISTING DRAWINGS, CONTRACTOR SHALL FIELD VERIFY.
EL8	24 VA	ACOLYTE	NLS-3.0B-E	SURFACE	N/A	LED	LED	277	EXISTING LED STRIP LIGHT. INFORMATION LISTED IS FROM EXISTING DRAWINGS, CONTRACTOR SHALL FIELD VERIFY.
EL16	48 VA	ACOLYTE	NLS-3.0B-E	SURFACE	N/A	LED	LED	277	EXISTING LED STRIP LIGHT. INFORMATION LISTED IS FROM EXISTING DRAWINGS, CONTRACTOR SHALL FIELD VERIFY.
EL72	216 VA	ACOLYTE	NLS-3.0B-E	SURFACE	N/A	LED	LED	277	EXISTING LED STRIP LIGHT. INFORMATION LISTED IS FROM EXISTING DRAWINGS, CONTRACTOR SHALL FIELD VERIFY.
EL80	240 VA	ACOLYTE	NLS-3.0B-E	SURFACE	N/A	LED	LED	277	EXISTING LED STRIP LIGHT. INFORMATION LISTED IS FROM EXISTING DRAWINGS, CONTRACTOR SHALL FIELD VERIFY.
EM	100 VA	EVENLITE	P4E100-W129	WALL	N/A	(2) 12VDC	12VDC	UNV	EMERGENCY BATTERY PACK WITH (2) HEADS.
EW	9 VA	ZANEEN	L10W0074	WALL	N/A	LED	518LU LED 3000K	277	EXISTING EXTERIOR WALL MOUNT LIGHT. INFORMATION INDICATED IS FROM EXISTING DRAWINGS, CONTRACTOR SHALL FIELD VERIFY.
G	14 VA	VISA	CB1972-L35K(H)-MVOLT-(NOTE 1)-(NOTE 1)-DCC	WALL	N/A	LED	950LU LED 3000K	UNV	LED VANITY LIGHT WITH REMOTE POWER SUPPLY. MOUNT POWER SUPPLY ABOVE NEAREST ACCESSIBLE CEILING.
L	30 VA	ELITE	4-OEC-LED-4000L-DIM10-MVOLT-35K-85-O CGSS	SUSPENDED	N/A	LED	4000LU LED 3500K	UNV	4FT LED STRIP LIGHT. PROVIDE CHAIN HANGERS.
P8	58 VA	FLUXWERX	VU1-(NOTE 1)-B-C-35-(NOTE 1)-08-G-E1-M-03	SUSPENDED	N/A	LED	5700LU LED 3500K	UNV	LED ARCHITECTURAL SUSPENDED FIXTURE WITH 0-10V DIMMING.
T	11 VA	FLUXWERX	LN1-P-1-S-03-(NOTE 1)-(NOTE 1)-W1-8-35-E-E1-M	RECESSED	N/A	LED	1425LU LED 3500K	UNV	1/2" LINEAR LED FIXTURE WITH 1% 0-10V DIMMING. MOUNT BOTTOM OF FIXTURE FLUSH WITH SUSPENDED CEILING.
TR	150 VA	TARGETTI	OZ-11A-RAL-L1-FL-35-1T7032-1T7039-1T7 043-1T7041-PS051DD	RECESSED	2.3"	QTY PER DWGS	152LU LED 3500K	UNV	LED 48V TRACK LIGHTING WITH ADJUSTABLE HEADS AND 0-10V DIMMING. MOUNT POWER SUPPLY ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE LENGTH AND QUANTITY OF HEADS AS SHOWN ON FLOOR PLANS
UC	7 VA	VODE	707-Z1-SL-18IN-18'-C-O-RP10-AE-2-0-Z-LO-35-A2-0-AL-	SURFACE	N/A	LED	627LU LED 3500K	UNV	LED UNDERCABINET LIGHT W/ REMOTE DRIVER AND 1% DIMMING.
W	22 VA	MERCURY	LC14-2-2700-35K-HTA-1%-UNI-D3	CORNER	N/A	LED	2700LU LED 3500K	UNV	LED CORNER MOUNT FIXTURE WITH INTEGRAL OCCUPANCY SENSOR
X	3 VA	EVENLITE	TLX-EM-RU-W	UNIVERSAL	N/A	LED	LED	UNV	SINGLE FACE LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP. PROVIDE CHEVRONS AS INDICATED.
X2	3 VA	EVENLITE	TLX-EM-RU-W	UNIVERSAL	N/A	LED	LED	UNV	DOUBLE FACE LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP. PROVIDE CHEVRONS AS INDICATED.

NOTES:

1. FINISHES AS SELECTED BY ARCHITECT AT TIME OF SHOP DRAWINGS. ASSUME PREMIUM FINISH.
2. LISTED APPROVED EQUALS SHALL MEET ALL REQUIREMENTS OF BASIS OF DESIGN FIXTURE. ARCHITECT/ENGINEER RESERVE RIGHT TO NOT ACCEPT ANY PRODUCT NOT MEETING BASIS OF DESIGN.



1 FIRST FLOOR PLAN - LIGHTING
E101 SCALE: 1/8" = 1'-0"

CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

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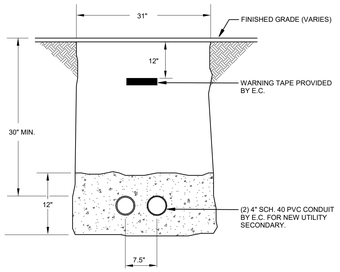
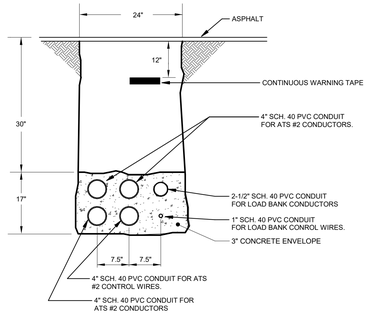


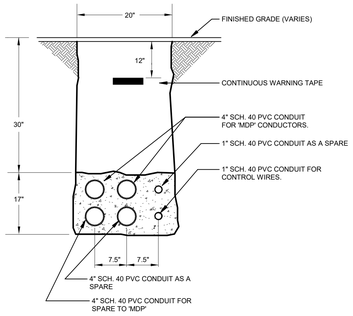
NOTE: TRENCHING, CONCRETE & BACKFILLING BY E.C.

B | SECTION B
E201 | SCALE: NTS



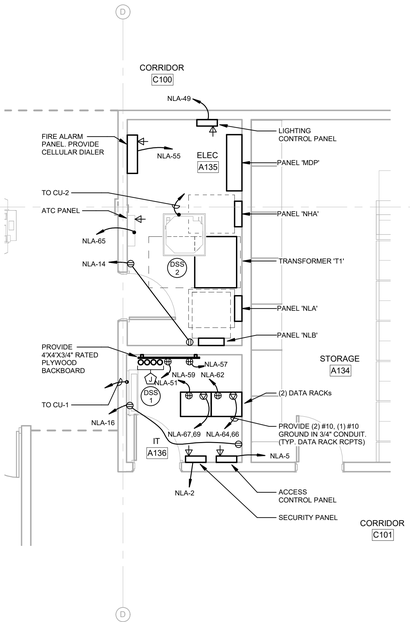
NOTE: UNLESS OTHERWISE NOTED, ALL WORK, INCLUDING TRENCHING, CONCRETE & BACKFILLING, IS BY E.C.

A | SECTION A
E201 | SCALE: NTS

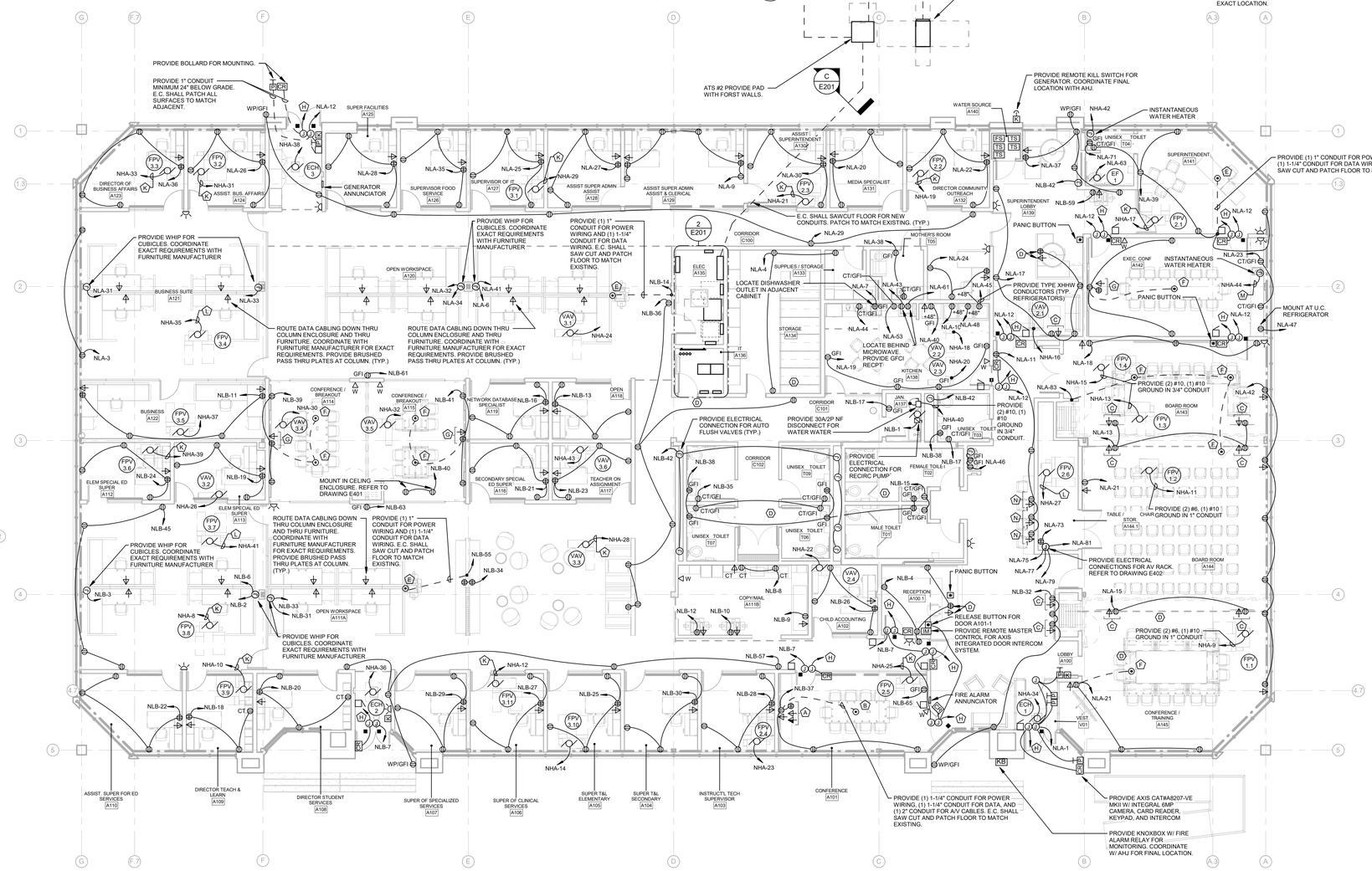


NOTE: UNLESS OTHERWISE NOTED, ALL WORK, INCLUDING TRENCHING, CONCRETE & BACKFILLING, IS BY E.C.

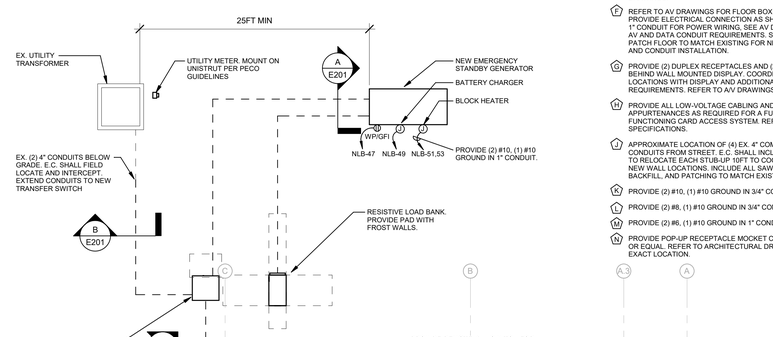
C | SECTION C
E201 | SCALE: NTS



2 | ENLARGED ELECTRICAL ROOM - POWER
E201 | SCALE: 1/4" = 1'-0"



1 | FIRST FLOOR PLAN - POWER
E201 | SCALE: 1/8" = 1'-0"



GENERAL POWER NOTES:

1. REFER TO E001 FOR LEGEND AND GENERAL NOTES.
2. CONTRACTOR SHALL PROVIDE A PA ONE-CALL PRIOR TO CONDUCTING ANY SITE WORK.
3. CONTRACTOR SHALL UTILIZE FIELD LOCATING SERVICES TO IDENTIFY ALL EXISTING UTILITIES, STORM LINES, SANITARY LINES, ETC. LOCATED IN THE IMMEDIATE AREA OF WORK. WHERE CONFLICTS OCCUR, CONTRACTOR SHALL RELOCATE NEW FACILITIES AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM WITHOUT DISRUPTING EXISTING FACILITIES.
4. WHERE NEW UNDERGROUND DUCT BANKS ARE PROVIDED, CONTRACTOR SHALL RESTORE AREA TO MATCH EXISTING. PROVIDE NEW GRASS SEED AND RIVER ROCK ALONG PERIMETER OF BUILDING TO MATCH EXISTING.
5. E.C. SHALL REFER TO ARCH INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE ELECTRICAL DEVICE LOCATIONS. WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGHING IN.
6. APPROXIMATE DUCT DETECTOR LOCATIONS SHOWN. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.

CODED POWER NOTES:

(A) PROVIDE (2) DUPLEX RECEPTACLES, (2) DATA OUTLETS, (1) USB 'A' OUTPUT, AND (1) HDMI OUTPUT BEHIND WALL MOUNTED DISPLAY. USB AND HDMI SHALL BE FED THRU BRUSHED WALL PLATE. PROVIDE 3FT OF LOOPED USB AND HDMI CABLE FOR FINAL CONNECTION TO DISPLAY. PROVIDE KRAMER CAT# CP-HM/HM/ETH HDMI CABLE AND KRAMER CAT# CPA-UAM/UAF USB CABLE.

(B) PROVIDE WIREMOLD EVOLUTION EFB6S FLOOR BOX WITH FLUSH COVER. PROVIDE (2) DUPLEX RECEPTACLES, (2) DATA OUTLETS, AND A/V INPUTS. COORDINATE COVER WITH FLOOR TYPE. FINISH AS SELECTED BY ARCHITECT AT TIME OF SHOP DRAWINGS.

(C) PROVIDE DUPLEX RECEPTACLE AND (2) DATA DROPS BEHIND WALL MOUNTED DISPLAY. COORDINATE MOUNTING ELEVATION WITH ARCHITECTURAL DRAWINGS.

(D) MOUNT IN CASEWORK. COORDINATE CUTTING WITH G.C.

(E) PROVIDE WIREMOLD EVOLUTION EFB6S FLOOR BOX WITH FLUSH COVER. PROVIDE (2) DUPLEX RECEPTACLES AND (2) DATA OUTLETS. COORDINATE COVER WITH FLOOR TYPE. FINISH AS SELECTED BY ARCHITECT AT TIME OF SHOP DRAWINGS.

(F) REFER TO AV DRAWINGS FOR FLOOR BOX DETAILS. PROVIDE ELECTRICAL CONNECTION AS SHOWN. PROVIDE 1" CONDUIT FOR POWER WIRING. SEE AV DRAWINGS FOR AV AND DATA CONDUIT REQUIREMENTS. SAWCUT AND PATCH FLOOR TO MATCH EXISTING FOR NEW FLOOR BOX AND CONDUIT INSTALLATION.

(G) PROVIDE (2) DUPLEX RECEPTACLES AND (2) DATA DROPS BEHIND WALL MOUNTED DISPLAY. COORDINATE OUTLET LOCATIONS WITH DISPLAY AND ADDITIONAL A/V REQUIREMENTS. REFER TO A/V DRAWINGS AND DETAILS.

(H) PROVIDE ALL LOW-VOLTAGE CABLING AND APPURTENANCES AS REQUIRED FOR A FULLY FUNCTIONING CARD ACCESS SYSTEM. REFER TO SPECIFICATIONS.

(J) APPROXIMATE LOCATION OF (4) EX. 4" COMMUNICATIONS CONDUITS FROM STREET. E.C. SHALL INCLUDE IN THEIR BID TO RELOCATE EACH STUB-UP 10FT TO COORDINATE W/ NEW WALL LOCATIONS. INCLUDE ALL SAW CUTTING, BACKFILL, AND PATCHING TO MATCH EXISTING SLAB.

(K) PROVIDE (2) #10, (1) #10 GROUND IN 3/4" CONDUIT.

(L) PROVIDE (2) #8, (1) #10 GROUND IN 3/4" CONDUIT.

(M) PROVIDE (2) #6, (1) #10 GROUND IN 1" CONDUIT.

(N) PROVIDE POP-UP RECEPTACLE MOCKET CAT#PCS36B/U1-94 OR EQUAL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

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Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

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SchraderGroup Architecture
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NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
FIRST FLOOR PLAN - POWER

Drawing Number:
E201

N True | N Project

0' 4' 8' 16' 24'

CONFORMED DRAWINGS

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161 Leverington Ave, Suite 105
Philadelphia, PA 19127
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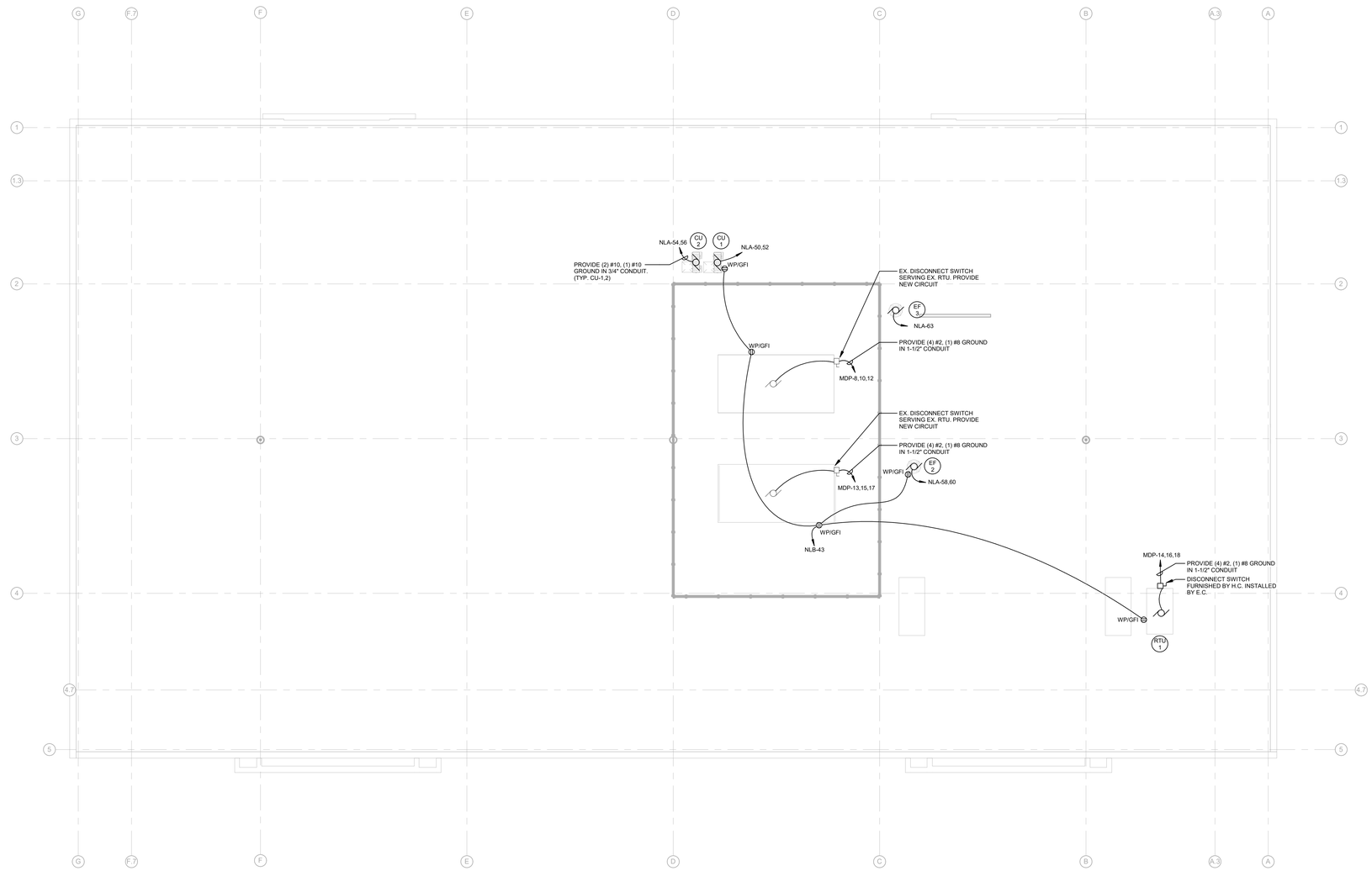
5. E.C. SHALL REFER TO ARCH INTERIOR AND EXTERIOR ELEVATIONS TO COORDINATE ELECTRICAL DEVICE LOCATIONS. WHERE CONFLICTS OCCUR, CONTACT THE ARCHITECT FOR A MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGHING IN.
6. APPROXIMATE DUCT DETECTOR LOCATIONS SHOWN. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.



1 ROOF PLAN - POWER
E202 SCALE: 1/8" = 1'-0"

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
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True N Project N

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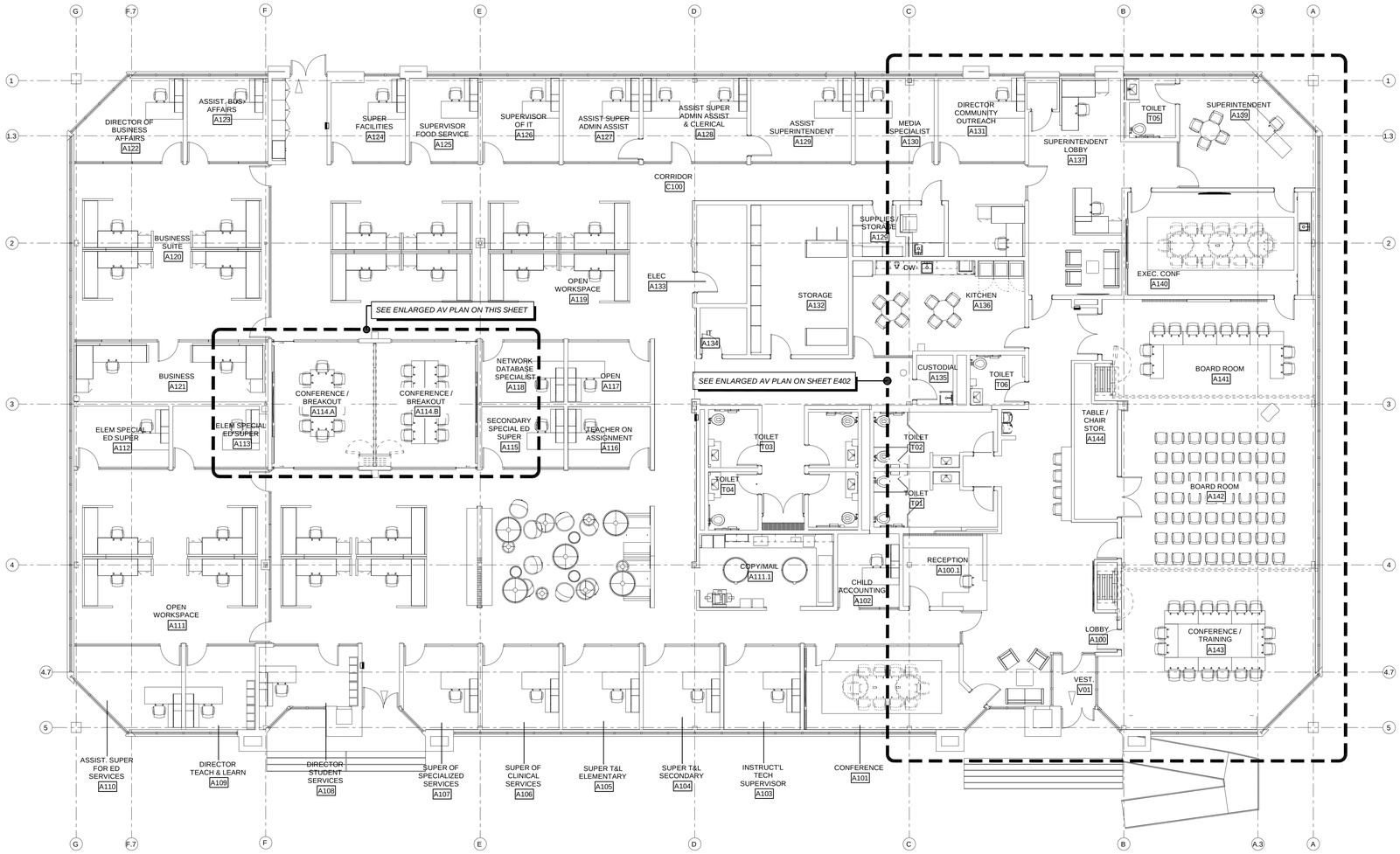
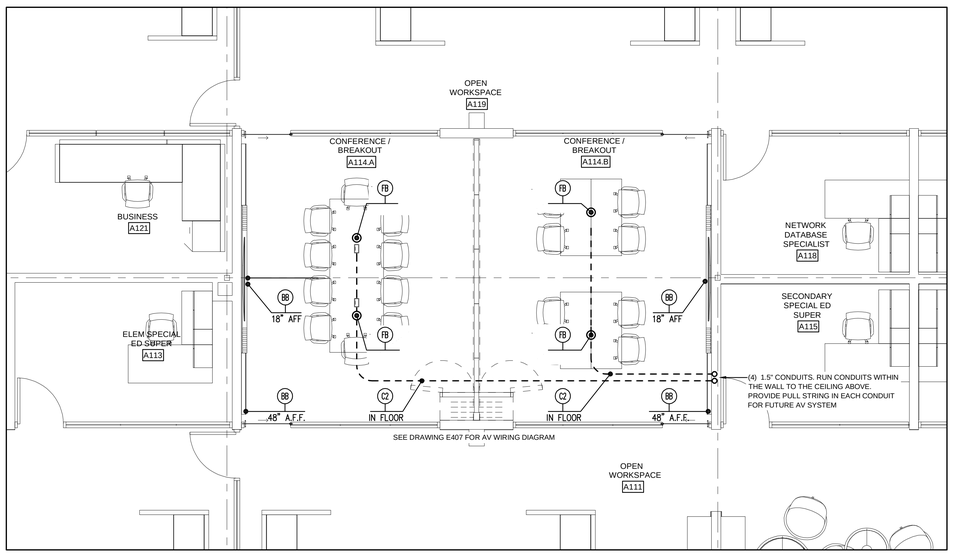
CONFORMED DRAWINGS



1 FIRST FLOOR PLAN - AV SYSTEMS

E401 SCALE: 1/8" = 1'-0"



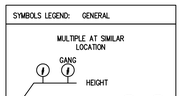
2 CONFERENCE ROOM A114.A & B - ENLARGED AV PLAN - DEVICE LAYOUT

E401 SCALE: 1/4" = 1'-0"

CONDUIT SCHEDULE *AV CONNECTIONS*	FLOOR PLAN SYMBOL (CC)
	– *SEE AV WIRING DIAGRAM FOR CONNECTIONS* – *SEE ELECTRICAL PLANS FOR POWER CONDUIT SIZE*
C1	(1) 1.5" CONDUITS. SEE ELECTRICAL PLANS FOR POWER CONDUIT SIZE
C2	(2) 1.5" CONDUITS. SEE ELECTRICAL PLANS FOR POWER CONDUIT SIZE
PROVIDE CONDUIT UNDER FLOOR OR IN WALLS AS SHOWN ON THE FLOOR PLANS. ALL CUTTING AND PATCHING SHALL BE DONE BY THE E.C. FINISH TO MATCH ADJACENT AREAS.	

MOUNTING HEIGHTS:	
RECEPTACLES	18" ABOVE FINISHED FLOOR TO CENTER OF BOX (UNLESS NOTED OTHERWISE)
SWITCHES	48" ABOVE FINISHED FLOOR TO CENTER OF BOX
REMOTE ANTENNA	AS HIGH AS POSSIBLE ON THE WALL OR ABOVE DROP CEILING – NOTED ON PLANS
CT RECEPTACLES	3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPLASH

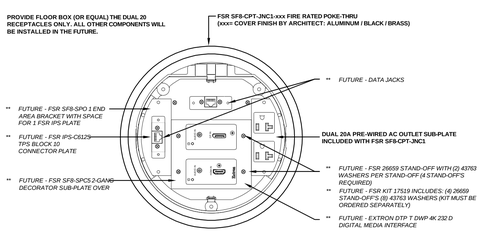
SYMBOLS LEGEND: GENERAL



SYMBOL TYPES:	
FB	FLOOR BOX
PROVIDE FLOOR BOX: LEGRAND #786564096252 TWO COMPARTMENT FLOOR BOX OR EQUAL	
BB	BACK BOX
PROVIDE BACK BOX AND CONDUITS IN THE WALL AT HEIGHTS INDICATED FOR EACH BACK BOX	

A/V GENERAL NOTES:

1. A/V DRAWINGS ARE DIAGRAMMATIC. THEY ARE INTENDED TO SHOW APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT. DIMENSIONS GIVEN ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. THE CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED , FITS IN THE ROOM OR SPACE SHOWN AND HAS ALL CLEARANCES REQUIRED BY THE NEC. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD CONDITIONS.
2. THE A/V DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT OBVIOUSLY NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES, BUT NOT LIMITED TO ALL WIRING, SUPPLEMENTAL EQUIPMENT AND PROGRAMMING OF THE SYSTEM FOR A FULLY FUNCTIONAL SYSTEM.
3. IF APPLICABLE, INSTALL EMPTY CONDUIT AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL STRING, JUNCTION BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.
4. SEE ELECTRICAL POWER DRAWINGS FOR POWER CIRCUIT DESIGNATIONS FOR RECEPTACLES & JUNCTION BOXES IF NOT SHOWN ON THE AV DRAWINGS.
5. SPEAKERS LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL INSTALL EACH SPEAKER CLOSE TO THE LOCATION SHOWN, BUT SHALL COORDINATE THE LOCATIONS TO AVOID LIGHTING FIXTURES OR OTHER TRADES EQUIPMENT.
6. ALL AUDIO AND VIDEO CABLES SHALL BE PLENUM RATED CABLE

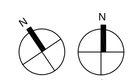


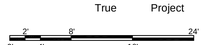
FLOOR BOX IN DETAIL

FSR SF8-CPT-JNC1 FIRE RATED POKE-THRU

2 AV FLOOR BOX DETAIL

E401 SCALE: None





CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

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Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

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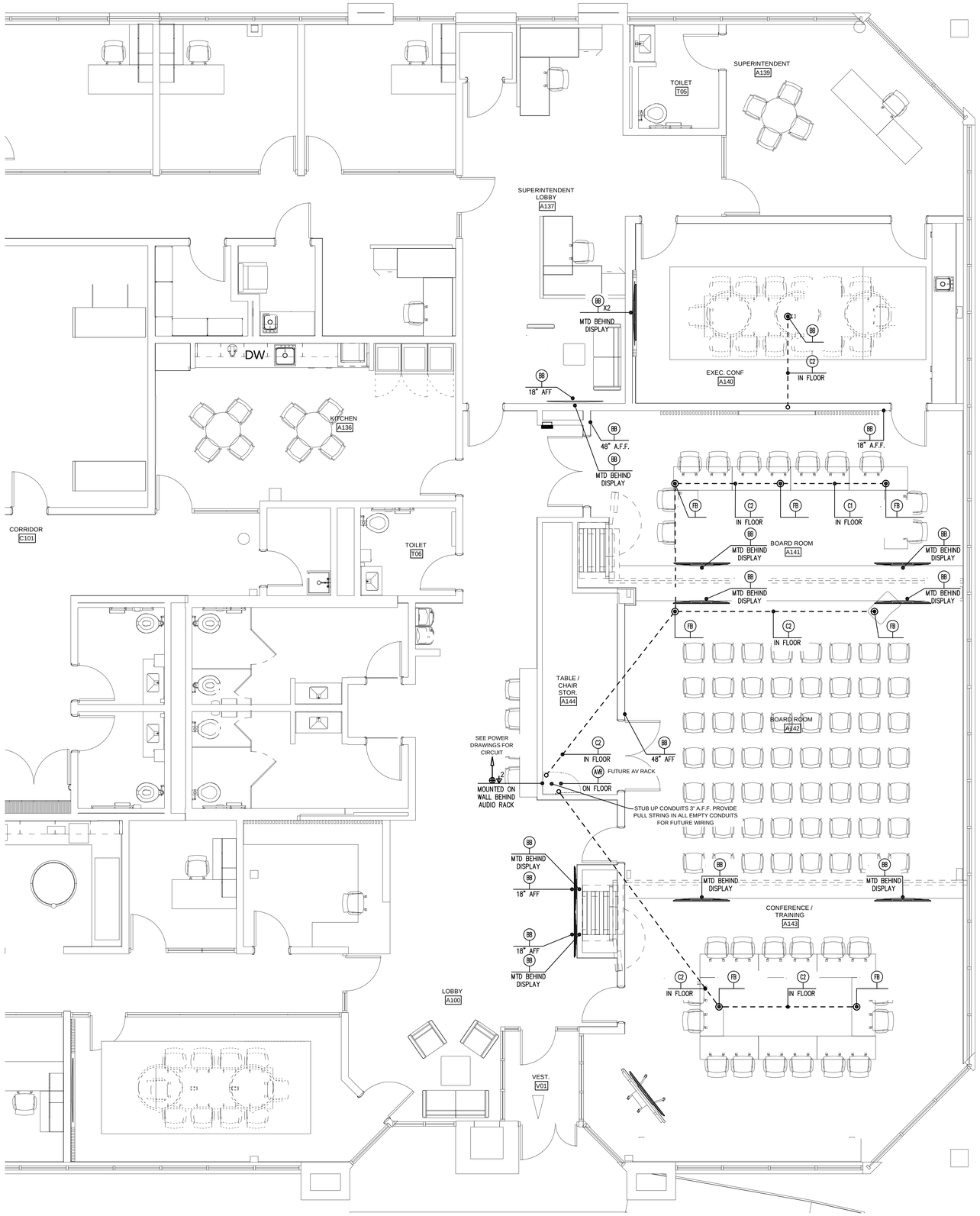
Key Plan:

Drawing Title:
FIRST FLOOR PLAN - AV SYSTEMS

Drawing Number:
E401



1 ENLARGED FIRST FLOOR PLAN - AV SYSTEM - DEVICE LAYOUT

E402 SCALE: 1/4" = 1'-0"

CONDUIT SCHEDULE
AV CONNECTIONS

CC
FLOOR PLAN SYMBOL

	– *SEE AV WIRING DIAGRAM FOR CONNECTIONS* – *SEE ELECTRICAL PLANS FOR POWER CONDUIT SIZE*
C1	(1) 1.5" CONDUITS. SEE ELECTRICAL PLANS FOR POWER CONDUIT SIZE
C2	(2) 1.5" CONDUITS. SEE ELECTRICAL PLANS FOR POWER CONDUIT SIZE

PROVIDE CONDUIT UNDER FLOOR OR IN WALLS AS SHOWN ON THE FLOOR PLANS. ALL CUTTING AND PATCHING SHALL BE DONE BY THE E.C. FINISH TO MATCH ADJACENT AREAS.

SYMBOLS LEGEND: GENERAL

MULTIPLE AT SIMILAR LOCATION

GANG

HEIGHT

FB BB

SYMBOL TYPES:

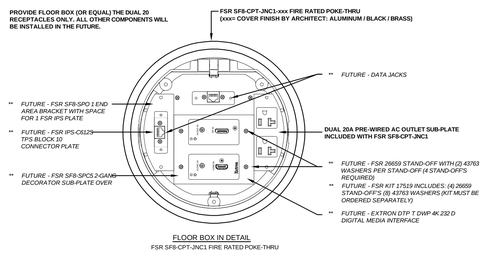
FB	FLOOR BOX
PROVIDE FLOOR BOX: LEGRAND #786564096252 TWO COMPARTMENT FLOOR BOX OR EQUAL	
BB	BACK BOX
PROVIDE BACK BOX AND CONDUITS IN THE WALL AT HEIGHTS INDICATED FOR EACH BACK BOX	

MOUNTING HEIGHTS:

RECEPTACLES	18" ABOVE FINISHED FLOOR TO CENTER OF BOX (UNLESS NOTED OTHERWISE)
SWITCHES	48" ABOVE FINISHED FLOOR TO CENTER OF BOX
REMOTE ANTENNA	AS HIGH AS POSSIBLE ON THE WALL OR ABOVE DROP CEILING – NOTED ON PLANS
CT RECEPTACLES	3" ABOVE COUNTERTOP OR 1" ABOVE BACKSPLASH

A/V GENERAL NOTES:

1. A/V DRAWINGS ARE DIAGRAMMATIC. THEY ARE INTENDED TO SHOW APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT. DIMENSIONS GIVEN ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. THE CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED, FITS IN THE ROOM OR SPACE SHOWN AND HAS ALL CLEARANCES REQUIRED BY THE NEC. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD CONDITIONS.
2. THE A/V DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT OBVIOUSLY NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES, BUT NOT LIMITED TO ALL WIRING, SUPPLEMENTAL EQUIPMENT AND PROGRAMMING OF THE SYSTEM FOR A FULLY FUNCTIONAL SYSTEM.
3. IF APPLICABLE, INSTALL EMPTY CONDUIT AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL STRING, JUNCTION BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.
4. SEE ELECTRICAL POWER DRAWINGS FOR POWER CIRCUIT DESIGNATIONS FOR RECEPTACLES & JUNCTION BOXES IF NOT SHOWN ON THE AV DRAWINGS.
5. SPEAKERS LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL INSTALL EACH SPEAKER CLOSE TO THE LOCATION SHOWN, BUT SHALL COORDINATE THE LOCATIONS TO AVOID LIGHTING FIXTURES OR OTHER TRADES EQUIPMENT.
6. ALL AUDIO AND VIDEO CABLES SHALL BE PLENUM RATED CABLE



FLOOR BOX IN DETAIL
FSR SFB-CPT-JNC1 FIRE RATED POKE-THRU

2 AV FLOOR BOX DETAIL

E402 SCALE: None

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

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1005 W. Lehigh St
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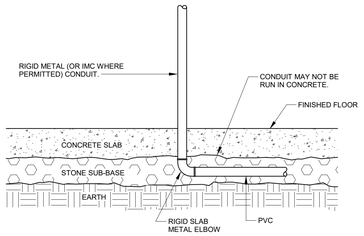
FIRST FLOOR PLAN - ENLARGED PLANS - AV SYSTEM

Drawing Number:
E402

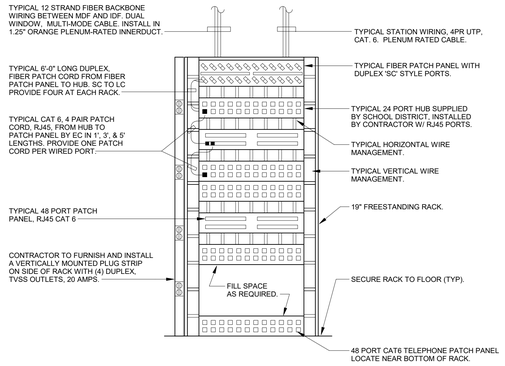
N True Project

0' 4' 8' 16' 24'

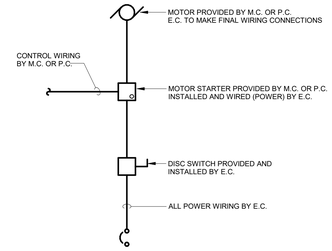
CONFORMED DRAWINGS



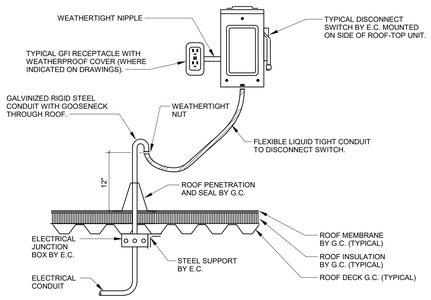
9 CONDUIT PENETRATION DETAIL
E501 SCALE: NO SCALE



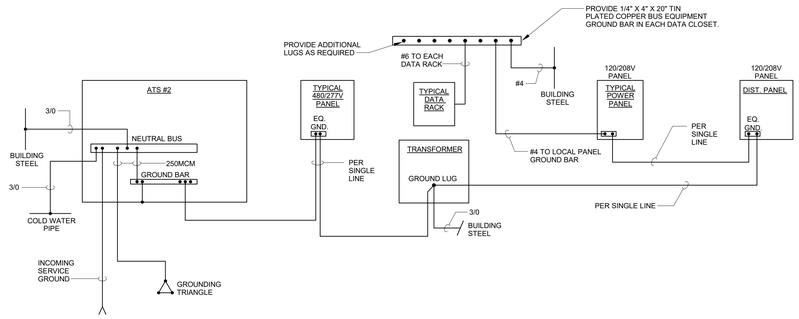
8 TYPICAL WIRING CLOSET ELEVATION
E501 SCALE: NO SCALE



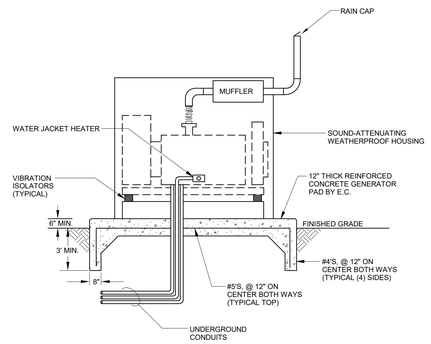
7 TYPICAL MOTOR WIRING DIAGRAM
E501 SCALE: NO SCALE



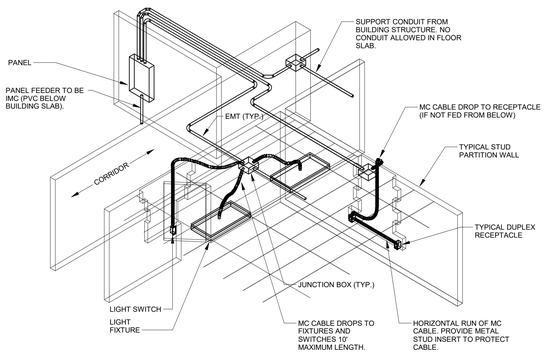
6 ROOF PENETRATION DETAIL
E501 SCALE: NO SCALE



5 GROUNDING SYSTEM RISER DIAGRAM
E501 SCALE: NO SCALE

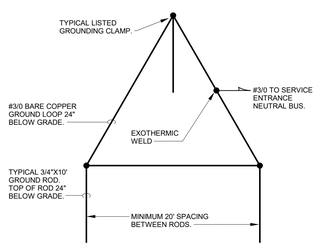


4 EXTERIOR GENERATOR INSTALLATION DETAIL
E501 SCALE: NO SCALE

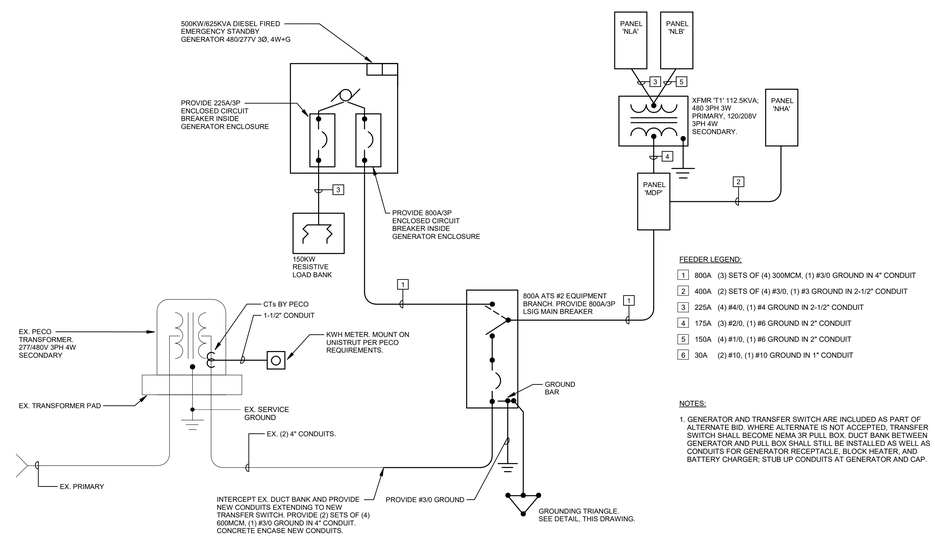


NOTE: PROVIDE CONDUIT IN CONCRETE AND MASONRY WALLS. SEE SPECIFICATIONS FOR SPECIFIC CONDUIT TYPES AND PERMITTED LOCATIONS.

3 TYPICAL BUILDING WIRING METHOD
E501 SCALE: NO SCALE



2 GROUNDING TRIANGLE DIAGRAM
E501 SCALE: NO SCALE



FEEDER LEGEND:

1	800A	(3) SETS OF (4) 300MCM, (1) #3/0 GROUND IN 4" CONDUIT
2	400A	(2) SETS OF (4) #3/0, (1) #3 GROUND IN 2-1/2" CONDUIT
3	225A	(4) #4/0, (1) #4 GROUND IN 2-1/2" CONDUIT
4	175A	(3) #2/0, (1) #6 GROUND IN 2" CONDUIT
5	150A	(4) #1/0, (1) #6 GROUND IN 2" CONDUIT
6	30A	(2) #10, (1) #10 GROUND IN 1" CONDUIT

NOTES:

1. GENERATOR AND TRANSFER SWITCH ARE INCLUDED AS PART OF ALTERNATE BID. WHERE ALTERNATE IS NOT ACCEPTED, TRANSFER SWITCH SHALL BECOME NEMA 3R PULL BOX. DUCT BANK BETWEEN GENERATOR AND PULL BOX SHALL STILL BE INSTALLED AS WELL AS CONDUITS FOR GENERATOR RECEPTACLE, BLOCK HEATER, AND BATTERY CHARGER; STUB UP CONDUITS AT GENERATOR AND CAP.

1 SINGLE LINE DIAGRAM - ELECTRICAL
E501 SCALE: NO SCALE

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
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Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
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100 LINDENWOOD DRIVE MALVERN, PA 19355

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DETAILS AND DIAGRAMS - ELECTRICAL

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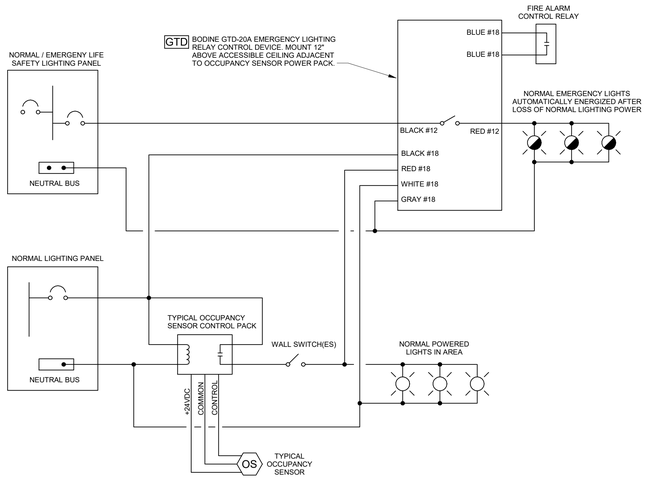
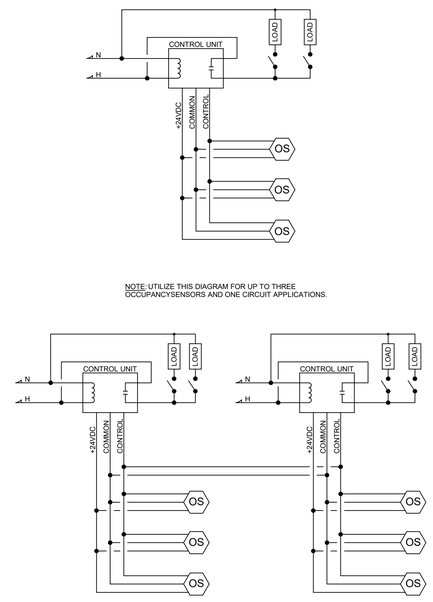
E501

CONFORMED DRAWINGS



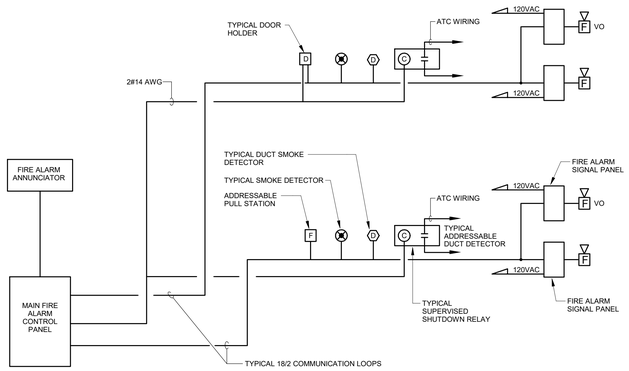
4 TYPICAL BODINE GTD WIRING DIAGRAM

E502 SCALE: NO SCALE



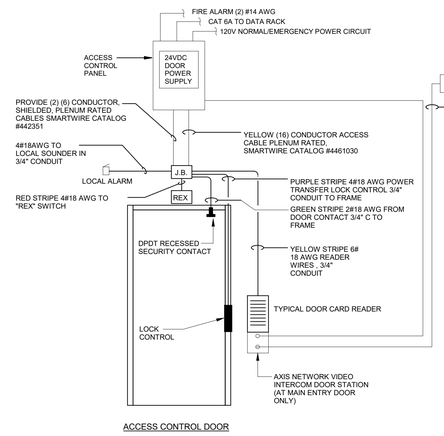
3 TYPICAL OCCUPANCY SENSOR WIRING DIAGRAM

E502 SCALE: NO SCALE



2 FIRE ALARM RISER DIAGRAM

E502 SCALE: NO SCALE



RESPONSIBILITY MATRIX FOR DOOR CONTROL SYSTEMS

ITEM	FURNISHED BY	INSTALLED BY	WIRED BY
CARD READER: READER POWER SUPPLY & READER CONTROLLER	E.C.	E.C.	E.C.
ADA ELECTRIC DOOR CLOSERS & ACTUATERS	G.C.	G.C.	E.C.
DOOR POWER SUPPLIES	G.C.	E.C.	E.C.
ELECTRIC EXIT DEVICES (E.L.R.s), ELECTRIC POWER TRANSFER	G.C.	G.C.	E.C.
DOOR POSITION & SECURITY SWITCHES	E.C.	E.C.	E.C.
REQUEST TO EXIT (REX) SWITCHES	E.C.	E.C.	E.C.
MAGNETIC LOCKS & POWER SUPPLIES	E.C.	E.C.	E.C.
JUNCTION BOXES, CONDUIT	E.C.	E.C.	———
MERCURY BOARDS SAFETY CANS	DISTRICT	E.C.	DISTRICT
FINAL CONNECTIONS AND PROGRAMMING	DISTRICT		

NOTE: EXISTING DISTRICT DOOR ACCESS SYSTEM IS AVIGILON. DISTRICTS VENDOR IS TRIANGLE COMMUNICATIONS. CONTRACTOR MUST PROVIDE SYSTEM COMPONENTS FROM AN AUTHORIZED AVIGILON DEALER.

1 ACCESS CONTROL SYSTEM RISER DIAGRAM

E502 SCALE: NO SCALE

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:

Snyder Hoffman Associates
1005 W. Lehigh St
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DETAILS AND DIAGRAMS - ELECTRICAL

Drawing Number:
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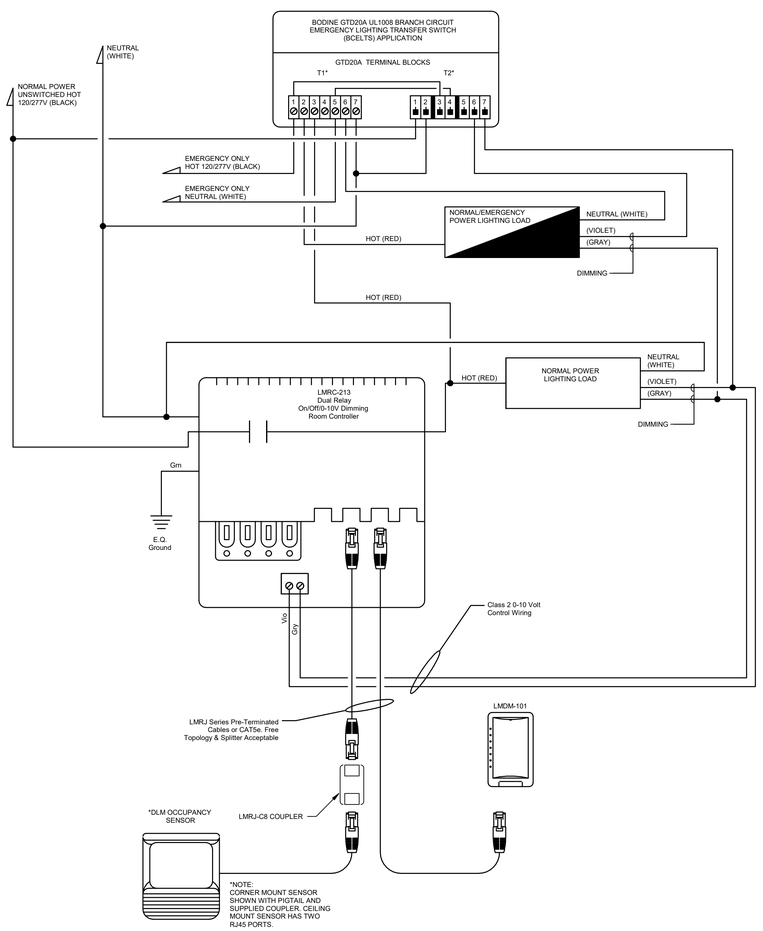
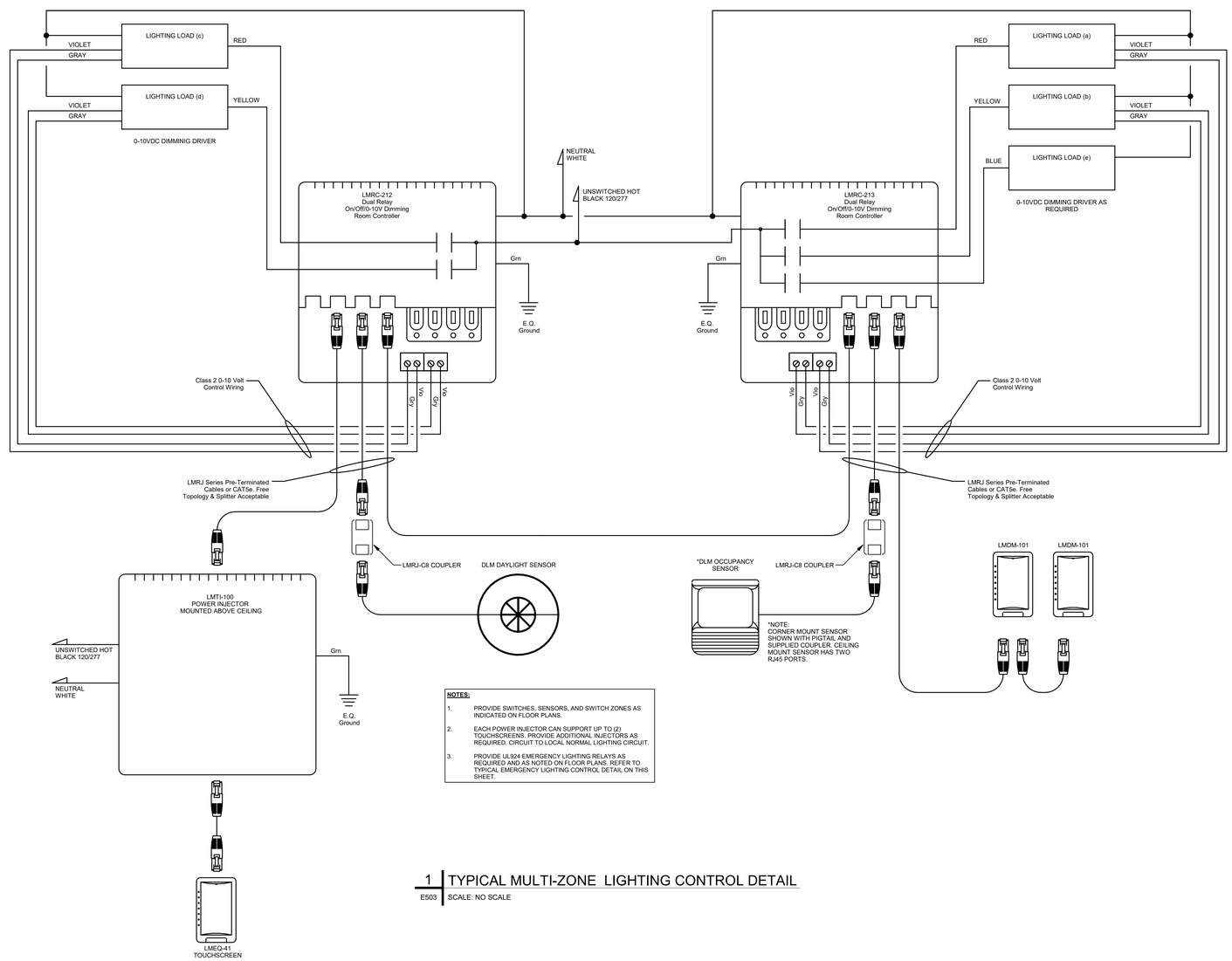
CONFORMED DRAWINGS



2 TYPICAL DIGITAL EMERGENCY LIGHTING CONTROL DETAIL

E503 SCALE: NO SCALE



NOTES:

1. PROVIDE SWITCHES, SENSORS, AND SWITCH ZONES AS INDICATED ON FLOOR PLANS.
2. EACH POWER INJECTOR CAN SUPPORT UP TO (2) TOUCHSCREENS. PROVIDE ADDITIONAL INJECTORS AS REQUIRED. CIRCUIT TO LOCAL NORMAL LIGHTING CIRCUIT.
3. PROVIDE UL924 EMERGENCY LIGHTING RELAYS AS REQUIRED AND AS NOTED ON FLOOR PLANS. REFER TO TYPICAL EMERGENCY LIGHTING CONTROL DETAIL ON THIS SHEET.

1 TYPICAL MULTI-ZONE LIGHTING CONTROL DETAIL

E503 SCALE: NO SCALE

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161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:

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1005 W. Lehigh St
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DETAILS AND DIAGRAMS - ELECTRICAL

Drawing Number:
E503

CONFORMED DRAWINGS

Branch Panel: MDP

Location: ELEC A135 **Volts:** 480/277 Wye **A.I.C. Rating:** 42000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 800 A
Enclosure: 1 **MCB Rating:** 800 A

CKT	Poles	Trip	Circuit Description	Phase A (VA)	Phase B (VA)	Phase C (VA)	Circuit Description	Trip	Poles	CKT
1	3	400 A	NHA	74222 /...			T1	175 A	3	2
3	--	--	--		81097 /...		--	--	--	4
5	--	--	--			74338 /...	--	--	--	6
7	--	--	Space	0 / 21000			EX. RTU	90 A	3	8
9	--	--	Space		0 / 21000		--	--	--	10
11	--	--	Space			0 / 21000	--	--	--	12
13	3	90 A	Ex. RTU	21000 /...			RTU-1	90 A	3	14
15	--	--	--		21000 /...		--	--	--	16
17	--	--	--			21000 /...	--	--	--	18
19	3	225 A	Spare	0 / 0			Spare	100 A	3	20
21	--	--	--		0 / 0		--	--	--	22
23	--	--	--			0 / 0	--	--	--	24
25	3	100 A	Spare	0 / 0			SPD	30 A	3	26
27	--	--	--		0 / 0		--	--	--	28
29	--	--	--			0 / 0	--	--	--	30
				179433 VA	182058 VA	177093 VA				
				649 A	659 A	639 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	376970 VA	100.00%	376970 VA		
Lighting	15264 VA	100.00%	15264 VA	**Total Conn. Load:**	536583 VA
Motor	322 VA	100.00%	322 VA	**Total Est. Demand:**	492938 VA
Other	34138 VA	100.00%	34138 VA	**Total Conn. Current:**	645 A
Power	360 VA	100.00%	360 VA	**Total Est. Demand...**	593 A
Receptacle	97290 VA	55.14%	53645 VA		
Cooling Unit	6240 VA	100.00%	6240 VA		
Heating Unit	6000 VA	100.00%	6000 VA		

Notes:
Provide Bolt-on Breakers, Full Rated Copper Buses, Equipment Ground Bars and Isolated Ground Bar (where Required)
Provide Leviton Cat # 5227-CM3 Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 30A/3p Breaker/Feed or Provide Integrated Equivelant SPD by Equipment Manufacturer

Branch Panel: NHA

Location: ELEC A135 **Volts:** 480/277 Wye **A.I.C. Rating:** 42000
Supply From: MDP **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 400 A
Enclosure: Type 1 **MCB Rating:**

CKT	Poles	Trip	Circuit Description	A	B	C	Circuit Description	Trip	Poles	CKT
1	1	20 A	Lighting	1042 / 3013			Lighting	20 A	1	2
3	1	20 A	Lighting		2148 / 3135		Lighting	20 A	1	4
5	1	20 A	Lighting - Exterior			1330 / 1500	Site Lighting	20 A	1	6
7	1	20 A	Site Lighting	1500 / 6869			FPV-3.8	25 A	1	8
9	1	45 A	FPV-1.1		12465 /...		FPV-3.9	25 A	1	10
11	1	50 A	FPV-1.2			13129 /...	FPV-3.11	25 A	1	12
13	1	25 A	FPV-1.3	6454 / 5207			FPV-3.10	20 A	1	14
15	1	25 A	FPV-1.4		6454 / 1875		VAV-2.1	15 A	1	16
17	1	25 A	FPV-2.1			6648 / 3750	VAV-2.2	15 A	1	18
19	1	30 A	FPV-2.2	8116 / 1875			VAV-2.3	15 A	1	20
21	1	30 A	FPV-2.3		7700 / 1875		VAV-2.4	15 A	1	22
23	1	20 A	FPV-2.4			5207 / 4999	VAV-3.1	20 A	1	24
25	1	30 A	FPV-2.5	8116 / 1875			VAV-3.2	15 A	1	26
27	1	35 A	FPV-2.6		9224 / 7501		VAV-3.3	30 A	1	28
29	1	25 A	FPV-3.1			6454 / 1875	VAV-3.4	15 A	1	30
31	1	25 A	FPV-3.2	6869 / 1875			VAV-3.5	15 A	1	32
33	1	25 A	FPV-3.3		6869 / 2000		ECH-1	20 A	1	34
35	1	35 A	FPV-3.4			8947 / 2000	ECH-2	20 A	1	36
37	1	20 A	FPV-3.5	5207 / 2000			ECH-3	20 A	1	38
39	1	25 A	FPV-3.6		6869 / 4500		Hot Water Heater - A137	25 A	1	40
41	1	35 A	FPV-3.7			8947 / 3320	Inst. Water Heater - T10	20 A	1	42
43	1	15 A	VAV-3.6	3124 /...			Inst. Water Heater - A142	50 A	1	44
45	1	20 A	Spare		0 / 1617		Lighting	20 A	1	46
47	1	20 A	Spare			0 / 0	Spare	20 A	1	48
49	1	20 A	Spare	0 / 0			SPD	30 A	3	50
51	1	20 A	Spare		0 / 0		--	--	--	52
53	1	20 A	Spare			0 / 0	--	--	--	54
				74222 VA	81097 VA	74338 VA				
				268 A	293 A	268 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	189476 VA	100.00%	189476 VA		
Lighting	15264 VA	100.00%	15264 VA	**Total Conn. Load:**	229657 VA
Other	18918 VA	100.00%	18918 VA	**Total Est. Demand:**	229657 VA
Heating Unit	6000 VA	100.00%	6000 VA	**Total Conn. Current:**	276 A
				Total Est. Demand...	276 A

Notes:
Provide Bolt-on Breakers, Full Rated Copper Buses, Equipment Ground Bars and Isolated Ground Bar (where Required)
Provide Leviton Cat # 32277-DY3 Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 30A/3p Breaker/Feed or Provide Integrated Equivelant SPD by Equipment Manufacturer

Branch Panel: NLA

Location: ELEC A135 **Volts:** 120/208 Wye **A.I.C. Rating:** 22000
Supply From: T1 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:** 225 A

CKT	Poles	Trip	Circuit Description	A	B	C	Circuit Description	Trip	Poles	CKT
1	1	20 A	Control Doors - V01	400 / 500			Security Panel	20 A	1	2
3	1	20 A	Rcpts - A120		360 / 540		Rcpts - A132, A133	20 A	1	4
5	1	20 A	Access Control Panel			500 / 720	Cubicles - A119	20 A	1	6
7	1	20 A	Dishwasher - A137	1500 / 1260			Rcpts - A141	20 A	1	8
9	1	20 A	Rcpts - A129		1440 / 1500		Rcpt - A137	20 A	1	10
11	1	20 A	Rcpts - A100			900 / 2400	Access Doors	20 A	1	12
13	1	20 A	TV Monitors - A143	720 / 360			Rcpts - A133	20 A	1	14
15	1	20 A	TV Monitors - A143		360 / 360		Rcpts - A134	20 A	1	16
17	1	20 A	Rcpts - A138			1260 / 540	Rcpts - A142	20 A	1	18
19	1	20 A	Rcpts - A137	720 / 900			Rcpts - A130	20 A	1	20
21	1	20 A	Rcpts - A144		1080 / 900		Rcpts - A131	20 A	1	22
23	1	20 A	Rcpts - A141			360 / 720	Rcpts - C100	20 A	1	24
25	1	20 A	Rcpts - A127	900 / 900			Rcpts - A124	20 A	1	26
27	1	20 A	Rcpts - A128		900 / 900		Rcpts - A124	20 A	1	28
29	1	20 A	Rcpts - C100			1080 / 900	Rcpts - A129	20 A	1	30
31	1	20 A	Cubicles - A120	720 / 720			Cubicles - A119	20 A	1	32
33	1	20 A	Cubicles - A120		720 / 720		Cubicles - A119	20 A	1	34
35	1	20 A	Rcpts - A126			900 / 900	Rcpts - A123	20 A	1	36
37	1	20 A	Rcpts - A138	1080 / 360			Rcpts - T08	20 A	1	38
39	1	20 A	Rcpts - A140		1080 / 1500		Vending - A137	20 A	1	40
41	1	20 A	Cubicles - A119			720 / 1080	Rcpts - A142, A143, A144	20 A	1	42
43	1	20 A	Microwave - A138	1500 / 1500			Rcpt - A137	20 A	1	44
45	1	20 A	Refrigerator - A137*		1500 / 600		EWC - A100	20 A	1	46
47	1	20 A	UC Refrigerator - A142			600 / 1500	Refrigerator - A137*	20 A	1	48
49	1	20 A	Lighting Control Panel	500 / 1144			CU-1	25 A	2	50
51	1	20 A	Rcpt - A134		360 / 1144		--	--	--	52
53	1	20 A	Rcpts - A137			1500 / 1976	CU-2	25 A	2	54
55	1	20 A	Fire Alarm Panel	500 / 1976			--	--	--	56
57	1	20 A	Rcpt - A134		360 / 108		EF-2	15 A	2	58
59	1	20 A	Data Rack - A134			1500 / 108	--	--	--	60
61	1	20 A	Microwave - A138	1500 / 1500			Data Rack - A134	20 A	1	62
63	1	15 A	EF-1,3		106 / 953		Data Rack - A134	30 A	2	64
65	1	20 A	ATC Panel - A135			500 / 953	--	--	--	66
67	2	30 A	Data Rack - A134	953 / 0			Spare	20 A	1	68
69	--	--	--		953 / 0		Spare	20 A	1	70
71	1	20 A	Rcpts - Auto Sinks			180 / 0	Spare	20 A	1	72
73	1	20 A	Rcpt - AV Rack - A144	360 / 0			Spare	20 A	1	74
75	1	20 A	AV Rack - A144		1500 / 0		Spare	20 A	1	76
77	1	20 A	AV Rack - A144			1500 / 0	Spare	20 A	1	78
79	1	20 A	AV Rack - A144	1500 / 0			SPD	30 A	3	80
81	1	20 A	AV Rack		1500 / 0		--	--	--	82
83	1	20 A	Floorbox - A143			1080 / 0	--	--	--	84
				23973 VA	21443 VA	24377 VA				
				203 A	179 A	206 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	0 VA	0.00%	0 VA		
Motor	322 VA	100.00%	322 VA	**Total Conn. Load:**	67792 VA
Other	9300 VA	100.00%	9300 VA	**Total Est. Demand:**	46827 VA
Receptacle	51930 VA	59.63%	30965 VA	**Total Conn. Current:**	188 A
Cooling Unit	6240 VA	100.00%	6240 VA	**Total Est. Demand...**	130 A

Notes:
Provide Bolt-on Breakers, Full Rated Copper Buses, Equipment Ground Bars and Isolated Ground Bar (where Required)
Provide Leviton Cat # 32120-DY3 Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 30A/3p Breaker/Feed or Provide Integrated Equivelant SPD by Equipment Manufacturer
*Provide GFI Breaker

Branch Panel: NLB

Location: ELEC A135 **Volts:** 120/208 Wye **A.I.C. Rating:** 22000
Supply From: T1 **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: Type 1 **MCB Rating:** 150 A

CKT	Poles	Trip	Circuit Description	A	B	C	Circuit Description	Trip	Poles	CKT
1	1	20 A	Recirc Pump	120 / 720			Cubicles - A111	20 A	1	2
3	1	20 A	Cubicles - A111		720 / 1080		Rcpts - A100.1	20 A	1	4
5	1	20 A	Spare			0 / 720	Cubicles - A111	20 A	1	6
7	1	20 A	Access Doors	2000 / 360			Rcpts - A111.1	20 A	1	8
9	1	20 A	Mail Sorter - A111.1		1500 / 1500		Copier - A111.1	20 A	1	10
11	1	20 A	Rcpts - A121			1080 / 1500	Copier - A111B	20 A	1	12
13	1	20 A	Rcpts - A117	900 / 1500			Floorbox - A120	20 A	1	14
15	1	20 A	Rcpts - T01, T02		360 / 900		Rcpts - A118	20 A	1	16
17	1	20 A	Rcpts - T06. A135			360 / 720	Rcpts- A109	20 A	1	18
19	1	20 A	Rcpts - A113	900 / 900			Rcpts - A108	20 A	1	20
21	1	20 A	Rcpts - A115		900 / 900		Rcpts - A110	20 A	1	22
23	1	20 A	Rcpts - A116			900 / 900	Rcpts - A112	20 A	1	24
25	1	20 A	Rcpts - A105	900 / 900			Rcpts - A102	20 A	1	26
27	1	20 A	Rcpts - A106		900 / 900		Rcpts - A103	20 A	1	28
29	1	20 A	Rcpts - A107			900 / 900	Rcpts - A104	20 A	1	30
31	1	20 A	Cubicles - A111	720 / 900			Rcpts - A100	20 A	1	32
33	1	20 A	Cubicles - A120		720 / 720		Rcpts - A111	20 A	1	34
35	1	20 A	Rcpt - T04, T05, T06, T07			720 / 1260	Rcpts - C101, A111, A119	20 A	1	36
37	1	20 A	Rcpts - A101	1260 / 1260			Rcpts - Auto Sinks	20 A	1	38
39	1	20 A	Rcpts - A114.A		1440 / 360		Rcpts - Clg A115	20 A	1	40
41	1	20 A	Rcpts - A114.B			1440 / 300	Auto Flush Valves	20 A	1	42
43	1	20 A	Receptacle	900 / 0			Spare	20 A	1	44
45	1	20 A	Rcpts - A111		720 / 0		Spare	20 A	1	46
47	1	20 A	Rcpt - Gen			180 / 0	Spare	20 A	1	48
49	1	20 A	Battery Charger	1500 / 0			Spare	20 A	1	50
51	2	30 A	Block Heater		1000 / 0		Spare	20 A	1	52
53	--	--	--			1000 / 0	Spare	20 A	1	54
55	1	20 A	Copier - A111A	1500 / 0			Spare	20 A	1	56
57	1	20 A	Rcpts - A111A		900 / 0		Spare	20 A	1	58
59	1	20 A	Copier - A139			1500 / 0	Spare	20 A	1	60
61	1	20 A	Water Cooler - A120	1500 / 0			SPD	30 A	3	62
63	1	20 A	Water Cooler - A11A		1500 / 0		--	--	--	64
65	1	20 A	Water Cooler - A101			1500 / 0	--	--	--	66
				18740 VA	17020 VA	15880 VA				
				158 A	143 A	132 A				

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Other	5920 VA	100.00%	5920 VA		
Power	360 VA	100.00%	360 VA	**Total Conn. Load:**	51640 VA
Receptacle	45360 VA	61.02%	27680 VA	**Total Est. Demand:**	33960 VA
				Total Conn. Current:	143 A
				Total Est. Demand...	94 A

Notes:
Provide Bolt-on Breakers, Full Rated Copper Buses, Equipment Ground Bars and Isolated Ground Bar (where Required)
Provide Leviton Cat # 32(voltage)-DY3 Surge Protection Device (SPD) with Flush Mounted Enclosure and Dedicated 30A/3p Breaker/Feed or Provide Integrated Equivelant SPD by Equipment Manufacturer
*Provide GFI Breaker

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023
SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
SCHEDULES - ELECTRICAL

Drawing Number:
E601

CONFORMED DRAWINGS

PLUMBING MISCELLANEOUS LEGEND

NOTE: NOT ALL ITEMS USED THIS PROJECT

	FLOW ARROWS
	PIPE CAP
	CLEANOUT ABOVE CEILING
	CLEANOUT TO GRADE
	EXPANSION LOOPS
	PIPE CROSS
	PIPE DROP
	PIPE RISE
	PIPE STACK
	PIPE TEE DROP/RISE
	VALVE IN PIPE DROP
	VENT THRU ROOF - TYPICAL
	VENT THRU ROOF - ACID
WCO	WALL CLEANOUT - TYPICAL

PLUMBING DRAIN LEGEND

NOTE: NOT ALL ITEMS USED THIS PROJECT

	AIR GAP FITTING
	EMERGENCY RAIN WATER OUTLET
	FLOOR CLEANOUT
	FLOOR DRAIN - FUNNEL
	FLOOR DRAIN - INDIRECT
	FLOOR DRAIN - ROUND
	FLOOR DRAIN - SQUARE
	FLOOR SINK - FULL GRATE
	FLOOR SINK - HALF GRATE
	FLOOR SINK - NO GRATE
	FLOOR SINK - ¼ GRATE
	ROOF DRAIN - TYPICAL
	ROOF DRAIN - EMERGENCY

PLUMBING VALVE LEGEND

NOTE: NOT ALL ITEMS USED THIS PROJECT

	ANCHOR - PIPE
	BALL VALVE - TYPICAL
	BUTTERFLY VALVE
	CHECK VALVE
	CIRCUIT SETTER VALVE
	COMPRESSED AIR OUTLET
	GAS COCK
	GAS REGULATOR
	GATE VALVE
	GAUGE VALVE
	GLOBE VALVE
	GUIDE, PIPE
	HOSE BIBB
	MANUAL BALANCING VALVE
	NON FREEZE WALL HYDRANT
	OS&Y VALVE
	PRESSURE REDUCING VALVE
	RECIRCULATING PUMP
	REDUCE PRESSURE BACKFLOW PREVENTER
	SHOCK ABSORBER
	SOLENOID VALVE
	STRAINER
	TEMPERING VALVE
	THERMOMETER
	UNION, PIPE

PLUMBING TAG LEGEND

NOTE: NOT ALL ITEMS USED THIS PROJECT

	ADA SYMBOL
	CONNECT TO EXISTING
	DEMOLITION SYMBOL
NOTE/ NOTE	DRAWING TAG
	INVERT ELEVATION TAG
	LIMIT OF DEMOLITION
#	NOTE TAG - CIRCLE
#	NOTE TAG - DEMOLITION
#	NOTE TAG - HEXAGONAL
#	NOTE TAG - RENOVATION
	NOTE TAG - SQUARE
NOTE	NOTE TAG - TO BE REMOVED
	PLUMBING FIXTURE TAG
	TITLE REVISION TAG

PIPING SYSTEMS LEGEND

NOTE: NOT ALL ITEMS USED THIS PROJECT
(Refer to Project Specifications for Material specifications)

WATER & GAS PIPING	
140º H	Domestic Hot Water (140 Deg.F)
140º R	Domestic Hot Water Return (140 Deg.F)
C / CW	Domestic Cold Water
CA	Compressed Air
G	Gas
H / HW	Domestic Hot Water (110-120 deg.F)
R / HWR	Domestic Hot Water Return (110-120 deg.F)
T	Tempered Water (85-110 deg.F)
DRAIN & VENT PIPING	
ASAN	Acid Sanitary (Below Slab/Grade)
AV	Acid Vent
AW	Acid Waste (Above Slab/Grade)
CD	Condensate Drain
ERW	Emergency Rainwater
FM	Forced Main/Pumped Drain
GW	Grease Waste
GSAN	Grease Sanitary (Below Slab/Grade)
SAN	Sanitary (Below Slab/Grade)
ST	Storm (Below Slab/Grade)
REP	Radon Evacuation Piping
RW	Rain Water (Above Slab/Grade)
V	Vent
W	Waste (Above Slab/Grade)

PLUMBING ABBREVIATION LEGEND

AAC		Above Accessible Ceiling		G	Gas
AFF		Above Finished Floor		G.C.	General Contractor
AFG		Above Finished Grade		G.I.	Grease Interceptor
AB		Above		GSAN	Grease Sanitary
AD		Area Drain		GV	Gas Valve
Arch		Architecturals		GW	Grease Waste
ASAN		Acid Sanitary		H / HW	Hot Water
AV		Acid Vent		H.C.	Heating Contractor
AW		Acid Waste		HB	Hose Bibb
AWC		Automatic Washer Connection		HR	Hose Reel
BF		Below Floor		HWH	Hot Water Heater
BFG		Below Finished Grade		HWR / R	Hot Water Return
BFP		Backflow Preventer		I.E. / Inv.	Invert Elevation
BV		Balancing Valve		IG	Interruptible Gas
C / CW		Cold Water		IWH	Instantaneous Water Heater
C.I.		Cast Iron		JAN	Janitor
C.O.		Clean Out		KD	Kitchen Drain
CA		Compressed Air		KS	Kitchen Sanitary
CD		Condensate Drain		KW	Kitchen Waste
CFH		Cubic Feet per Hour		LAV	Lavatory
CLG.		Ceiling		LPG	Liquid Petroleum Gas/Propane
Conn.		Connection		LT	Laundry Tub
Coord.		Coordinate		MAX	Maximum
CTE		Connect To Existing		MIN	Minimum
CTG		Clean Out To Grade		MR	Mop Receptor
CV		Circuit Vent		MTD	Mounted
CWV		Combination Waste & Vent		MU	Make-up Water
D		Drain		NFWH	Non-Freeze Wall Hydrant
DBF		Down Below Floor		NG	Natural Gas
DF		Drinking Fountain		NT	Neutralizing Tank
DFU		Drainage Fixture Units		OS	Oil Sanitary
DN		Down		P.C.	Plumbing Contractor
DWG		Drawing		PIV	Post Indicating Valve
DWH		Domestic Water Heater		PRV	Pressure Reducing Valve
E.C.		Electrical Contractor		PSI	Pounds per Square Inch
E.T.R.		Existing To Remain		PT	Plaster Trap
Ea.		Each		R	Return Piping (Hot Water)
EEW		Emerg. Eyewash		RCP	Re-circulating Pump
ER / ERC		Emerg. Rainwater Conductor		RD	Roof Drain
ERD		Emerg. Roof Drain		RW	Rain Water
ESEW		Emerg. Shower / Eyewash		RWC	Rainwater Conductor
ES		Emerg. Station		RWS	Rain Water Stack
ETV		Emerg. Tempering Valve		S.F./Sq. Ft.	Square Foot
EWC		Electric Water Cooler		SA	Shock Absorber
Ext.		Exterior		SAN	Sanitary
F.F.		Finished Floor		SAN I.E.	Sanitary Invert Elevation
F.P.C.		Fire Protection Contractor		ST	Storm
FAI		Fresh Air Inlet		T	Tempered Water
FCO		Floor Cleanout		T&P	Temperature and Pressure
FD		Floor Drain		T.B.R.	To Be Removed
FH		Fire Hydrant		TV	Tempering Valve
FHC		Fire Hose Cabinet		TYP.	Typical
Fin. Flr.		Finished Floor		UR	Urinal
Flr.		Floor		V	Vent
FM		Forced Main		V.I.F.	Verify In Field
FP		Fire Protection		V.T.R.	Vent Through Roof
FPZ		Fire Protection Zone		VS	Vent Stack
FS		Floor Sink		W	Waste
FSC		Food Service Contractor		WF	Wash Fountains
FVC		Fire Valve Cabinet		WB	Wash Box (Toilet Rooms)
				WC	Water Closet
				WCO	Wall Cleanout
				WSFU	Water Supply Fixture Units
				WSV	Waste Stack Vent

PLUMBING DEMOLITION - GENERAL NOTES

1.	Existing piping which is removed from service, shall be removed in its entirety, as indicated by plans or required by scope of work. Verify exact location of all branch piping in field. removals shall not be limited to only the piping on the demolition plans. Verify all conditions and notify Architect / Engineer of any piping not shown on removals prior to any demolition. No demolition shown on this plan shall be performed until all required new piping, equipment, and etc. or necessary temporary connections, are installed and operational.
2.	Equipment and piping locations, quantity and conditions are approximate. Field verify all conditions, locations and quantities prior to bid. The demolition drawings are intended to convey the basics of the existing system components. Not all conditions and components have been identified on these drawings.
3.	In general where existing fixtures, equipment, pipe risers and drops etc. occur at / in existing walls to be removed, the existing fixture and related piping shall be removed and related piping capped or plugged at mains. Piping within walls that are to remain, shall be capped or plugged within the existing construction and abandoned. Sanitary piping shall be capped below the floor slab and abandoned unless noted otherwise. Patch any affected construction to match existing adjacent finished surface.
4.	All existing systems shall remain functional for as long as required, until replacement with new or reworked as required (see new work plans and phasing plans). Provide temporary connections to keep systems functioning properly as required. Some additional work may be required to be performed after hours, weekends, or during vacation breaks. All demolition work shall in no way inconvenience or interrupt the normal workday schedule for this facility (coordinate with Architect/Owner). Any demolition work done which affects the operation of this facility shall be replaced with new, repaired to original conditions or replaced by temporary means for however long as required at no cost to the Owner.
5.	Coordinate all demolition and new work. Demolition work shall be coordinated so that no existing systems are demolished out-of-phase or ahead of the new piping system replacement schedule. Provide necessary temporary system connections as required to maintain all existing systems until which time the new systems area installed (during its proper phase) or until new mains can be extended and reconnected to existing. Verify in field. All temporary connections required to maintain existing systems or to replace existing connection terminated out-of-phase shall be installed immediately and at no additional cost to the owner.
6.	Remove/Rework existing work, materials, etc. in the way of any new work, even if not indicated to be removed on the demolition plans.
7.	Protect existing materials, equipment and finishes that are to remain. any damage caused by this contractor shall be repaired/replaced as necessary by this contractor.
8.	Remove all items that are to remain but conflict with the installation of any new work. Re-install the same items (or new if damaged during this task) once new work is completed.
9.	P.C. is responsible for all plumbing demo work. In all areas where patching is required, the plumbing contractor shall patch the sub-surface where the new surface is to be finished by the General Contractor. This sub-surface must be provided so that it does not inhibit the installation of or affect the appearance of the new finish. If a new finish will not be provided by the General Contractor, The Plumbing Contractor is responsible to patch the surrounding finished surface to match existing. Patch existing openings from demolished piping in fire rated floors and walls as required to maintain fire rating. Refer to the specifications for additional information and coordinate all work in field.
10.	Existing materials scheduled to remain may be required to be temporarily removed, to allow installation of new materials, finishes, etc. These materials must be re-installed in their previous locations in equal or better condition.
11.	At all locations where existing below slab drainage piping is indicated to be demolished, the piping shall be permanently capped and abandoned below floor slab. Any existing abandoned mains below floor which are encountered and conflict with new underground utilities shall be cut off with ample space on both sides of new main and both ends of existing sealed permanently as noted above. All pipe caps/plugs of removed floor penetration piping shall be at elevation that allows patching and restoration of existing floor with new finish materials.(Coordinate with General Contractor in field)
12.	Remove existing ceiling tiles and grids as required to obtain access to ceiling space for the installation of new piping above ceiling. Store the existing ceiling tiles and grids in a safe location and re-install the same once his work is completed and inspected. Provide additional temporary hangers/cables required to support remaining ceiling structure, light fixtures, ceiling devices, etc. during this contractor's work. remove all temporary facilities once work is completed.
13.	Upon reactivation of existing systems following temporary shutdowns, P.C. shall verify proper functioning of all connected fixtures and equipment. All system outlets, stops, and equipment shutoffs shall be returned to normal operating positions.

DESIGN CODE REFERENCES

PA - UCC	PENNSYLVANIA UNIFORM CONSTRUCTION CODE
IBC2018	ICC - INTERNATIONAL BUILDING CODE; 2018 CHAPTER 11 AND APPENDIX "E" - ICC/ANSI A117.1; 2009
IMC2018	ICC - INTERNATIONAL MECHANICAL CODE; 2018
IPC2018	ICC - INTERNATIONAL PLUMBING CODE; 2018
IFC2018	ICC - INTERNATIONAL FIRE CODE; 2018 (AS REFERENCED IN INTERNATIONAL BUILDING CODE)
IECC2018	ICC - INTERNATIONAL ENERGY CONSERVATION CODE; 2018

REFERENCED DESIGN STANDARDS

NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA 13	NATIONAL FIRE PROTECTION ASSOCIATION - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS; 2016 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.
NFPA 101	NATIONAL FIRE PROTECTION ASSOCIATION - CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES; 2018 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.

PLUMBING GENERAL NOTES

1.	Provide all labor, material, and equipment required for the completion and operation of all systems specified within the Division 22 specification sections and Plumbing drawings of work in accordance with all applicable codes including but not limited to PA Uniform Construction Code (PA-UCC), International Plumbing Code (IPC), ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities, International Building Code (IBC). Verify the latest adopted code editions and any additional adopted amendments with the Local Authority Having Jurisdiction(AHJ) Prior to beginning work.
2.	Provide a complete domestic water, gas and waste/vent systems to all fixtures and or equipment requiring such. verify all rough-in locations and coordinate piping locations with work under other divisions of the specifications to avoid conflicts.
3.	Provide all plumbing fixtures and appliances complete with all required supplies, stops, valves, faucets, drains, traps, tail pieces, escutcheons, etc. All fixture traps shall be semi-cast style, removable and/or provided with access for cleanout. All stops and shutoff valves shall be quarter turn style and installed in a readily accessible locations.
4.	All plumbing fixtures, equipment, and materials shall be new and shall fit the space available. Verify dimensions at site are adequate prior to order of any materials.
5.	All piping, apparatus, equipment, etc. shall be properly supported, braced vertically and horizontally in accordance with applicable codes and as required to prevent excessive movement during seismic conditions.
6.	Do not scale the plans. See architectural plans for exact location of doors, windows, fixtures, wall dimensions, equipment, devices, etc. Coordinate exact locations of fixtures, equipment, specialties, and piping in field prior to rough-in.
7.	All valves, cleanouts, plumbing specialties, etc., shall be so located and installed to permit access for service without damage to building or finished materials.
8.	In addition to cleanouts indicated on the plumbing drawings, provide cleanouts at base of all waste and rainwater stacks, at all changes in direction of piping in excess of 45 degrees and every 50 feet. Floor cleanouts shall be installed flush with finished floor. All cleanouts shall be so located and installed to permit access for service without damage to building or finished materials, wall cleanouts shall be minimum 18" A.F.F. Wall cleanouts covers shall be stainless steel or where directed by architect provide primer painted steel coverplates to receive final painted finish, same as wall finish. (final paint by G.C.)
9.	All exposed supply and waste piping in rest room areas shall be min. 17 ga. thick or semi-cast chrome plated brass, with matching stops and escutcheons.
10.	Drainage and vent piping systems, and water distribution piping systems shall be tested with air or water in accordance with IPC Section 312. Coordinate and schedule all required testing with local A.H.J. prior to testing.
11.	Sanitize domestic water piping in accordance with IPC requirements, Local Health Department, and American Water Works Association's (AWWA) specifications. Provide Final reports and test results to Owner.
12.	All domestic water piping shall be hung level without pitch unless noted otherwise on plans.
13.	Protect copper piping against contact with dissimilar metals. All hangers, supports, anchors, and clips shall be copper or copper plated. Where copper piping is carried on iron trapeze hangers with other piping, satisfactory and permanent electrolytic isolation material shall prevent contact with other metals.
14.	Protect copper piping against contact with all masonry. Where copper is sleeved through masonry, copper or red brass sleeves shall be used. Where copper must be concealed in or against masonry partitions, contact shall be prevented by coating the copper heavily with asphaltic enamel and #15 asphalt saturated felt between the pipe and the masonry partition.
15.	Install piping in areas not subject to freezing temperatures. Water piping in exterior walls shall be installed on conditioned side of the wall insulation.
16.	Provide shock absorbers, supplies and stops at each fixture as required by IPC and additionally as noted on the plans. Exposed stops shall be chrome plated.
17.	Provide drain valves at all low points of domestic water piping systems for complete drainage and indicate location of same on record drawings.
18.	Provide vacuum breakers and air vents as required by code.
19.	Vent all plumbing fixture drains in accordance with all applicable codes.
20.	Verify all fixture mounting heights with architectural interior elevations, schedules, etc. prior to fixture installation. Verify locations of Accessible fixtures and install in strict accordance with ICC/ANSI A117.1 requirements.
21.	Provide sleeves at all wall/floor penetrations. Coordinate sleeves with GC for installation in wall/floor construction. In exposed areas provide chrome plated escutcheons at pipe pentrations. Seal all fire rated floor and wall penetrations with fire stopping materials as specified in the Div. 7 specifications. Where firestopping materials are not specified in Div. 7, provide firestopping materials U.L. listed for use and as manufactured by 3m "or equal."
22.	Install ball style shutoff valves on the entire domestic water system. Ball valves shall be furnished with blowout proof stem, insulated extension handles, and chrome plated ball.
23.	Insulate all domestic water piping as noted in Div. 22 specifications and in accordance with minimum thickness specified in IECC Section C404 and Table C403.11.3. Insulate all vertical and horizontal above slab rainwater and emergency rainwater piping as noted in Div. 22 specifications.
24.	Seal all fixtures to walls, floor, counters, etc. using a sanitary-type one-part, mildew resistant, silicone sealant. match sealant color to fixture color.
25.	Install all underground sanitary/storm piping at 2% slope unless noted otherwise).
26.	Install all above ground vent piping at 1% slope (unless noted otherwise).
27.	Install all above ceiling cleanouts in locations above accessible ceiling construction. Coordinate exact locations in field. No cleanouts shall be installed within plenum ceilings.
28.	Coordinate all equipment floor drain and floor sink locations with the work of all other trades and with associated equipment in field prior to rough in. Coordinate all general area floor drains with architectural plans and with G.C. in field prior to rough-in to maintain floor slope to drain at low point of floor.
29.	Provide all floor drains with deep seal traps (unless noted otherwise) and trap seal protection.
30.	Verify all "Accessible" toilet locations on Architectural plans. Installation of flushing lever actuator shall comply with ANSI A117.1 and shall be mounted on the accessible (wide) side of toilet areas no more than 44 inches above the finished floor. Coordinate rough-ins of all supplies, flush valves, sensors, etc., to avoid conflict with grab bars or other toilet accessories.
31.	All piping located in return air plenums shall conform to the flame spread and smoke developed limits of ASTM E84 or must be wrapped with U.L. approved plenum rated material.
32.	In finished spaces with exposed structure, provide and install 1" thick "fiberglass insulation with all-service jacket" in lieu of insulation specified. Prep and paint pipe insulation in color selected by Architect.
33.	All fixture trim, including faucets, strainers, escutcheons, stops, waste traps, visible waste piping or visible hangers shall be made of brass and shall be polished chrome plated. Plastic, zinc or white metal will not be acceptable.
34.	Install all exposed horizontal and vertical piping in a neat arrangement in locations which are the most inconspicuous. Vertical drops shall be coordinated and run within chases, walls, soffits with other mechanical / electrical feeds. All such locations are to be reviewed with a Owner representative and Architect prior to installation.
35.	Provide domestic water heater temperature / pressure relief valves with discharge piped full size to the nearest approved floor drain or waste receptor.
36.	All rainwater and waste piping drops to below grade within the building shall start at minimum (-) 1'0" below finished floor elevation with the first elbow connection below bottom of floor slab (unless noted otherwise). Where floor cleanouts are provided minimum starting pipe elevation shall be (-) 1'6" (unless noted otherwise).
37.	Provide thermal expansion control equipment/specialties on all segments of hot water and hot water return piping exceeding 50ft. and at intervals not to exceed 100ft. Thermal expansion control equipment shall include pipe anchors, pipe guides, and expansion loops. Expansion loops shall be provided as specified and verified by manufacturer's calculation to be adequate to accommodate thermal expansion of the applicable piping system.
38.	All piping penetrations through exterior wall shall be sealed weathertight. Piping penetrations through foundation walls shall be sleeved and provided with Link Seal Thunderline annular space seals.
39.	Provide cold water hose bibb connection with all associated supply piping at all MR-1 mop receptor locations. For additional information refer to "Mop Receptor and Accessories Detail" on plumbing details drawings. Coordinate exact location of accessories in field with owner representative prior to rough in of accessories/fixtures.
40.	All piping drops to fixtures, shall be concealed within wall or chase construction, unless noted otherwise.

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
COVERSHEET - PLUMBING

Drawing Number:
P000

CONFORMED DRAWINGS

PLUMBING FIXTURE LIST

**********Note: Refer to Specification Sections 22 1006 and 22 4000 for complete fixture specifications.**********

FIXTURE TAG	FIXTURE DESCRIPTION	FIXTURE SPECIFICATIONS	DRAIN ROUGH IN CONNECTION	WATER ROUGH IN CONNECTION	
				HOT	COLD
EWC-1	Electric Water Cooler with Bottle Filler Bi-Level Surface Mounted	Electric Water Cooler with Bottle Filler, Bi-Level, Surface mounted, - 18ga 304 Stainless Steel body panels - Elevated anti-squirt bubbler with flexible mouth guard - Bottle filler mounted in ABS alcove above lower bowl w/sensor operation and Green Ticker - Cane Touch Skirt (where required for compliance with ANSI A117.1) **Basis of Design: Elkay Model VRCGRNTL8WSK- LKAPREZL - MLP200**	1-1/2"	----	1/2"
FCO-1	Floor Cleanout	Floor Cleanout - Cast iron body with flashing clamp - Twist to Floor adjustable Nickel Bronze top - Cover type coordinated with floor finish **- Basis of Design: J.R. Smith 4000-4100 series**	Refer to Plans	----	----
FD-1	Floor Drain General Purpose	Floor Drain - Cast iron body with flashing clamp - 5" Nickel Bronze strainer - Deep Seal P-Trap w/ProSet Trap Guard seal protection. **Basis of Design: J.R. Smith 2005 (5"NB Strainer)**	Refer to Plans	----	----
HB-1	Hose Bibb	Hose bibb/wall hydrant - Chrome plated, Half turn operation w/Interchangeable Wheel handle/Loose Key operation - Anti-Siphon Vacuum Breaker (ASSE 1011 compliant) **Basis of Design: J.R. Smith 5672**	-----	-----	1/2"
LAV-1/ LAV-2/ LAV-3	Lavatory System (Toilet Rooms)	Basin: - Countertop, Undermount, Vitreous China, ADA/ANSI A117.1 compliant - White **Basis of Design: Kohler Caxton K20000** Faucet: - Chrome Plated Cast Brass, Electronic Sensor Operated, Hardwired power, .5 gpm. **Basis of Design: Kohler K-103C36-SANA** Accessories: - Below deck ASSE-1070 compliant mixing valve - Truebro Lav Guard supply and drain insulating covers. - Chrome plated, Lead Free, Commercial grade, quarter turn Loose Key Angle Stops - Chrome plated copper supplies	1-1/2"	1/2"	1/2"
MR-1	Mop Receptor with Utility Faucet	Base: - 24"x24"x12"H, Neo-Corner Terazzo mop receptor basin **Basis of Design: Acorn TNC-24** Faucet: - Chrome plated, wall mounted utility faucet w/Integral Vacuum Breaker, integral check stops, 3/4 GHT outlet, Wrist blade handles, Wall brace, and pail hook. **Basis of Design: Chicago 897-CROF** Accessories: - Quick connect drain fitting, (3) bracket Mop Hanger, 30" hose and hose bracket - Stainless Steel wall guards - Refer to detail for additional information.	3"	1/2"	1/2"

NOTES:
1. P.C. shall coordinate all "Accessible" fixture locations with Architectural plans prior to rough in.
2. Refer to Architectural drawings for all fixture mounting heights.
3. At all "Accessible" water closet compartments, installation of flush controls shall comply with ANSI 117.1. Flush controls shall be mounted on the wide/accessible side of toilet compartments, no more than 44 inches above the floor. Where sensor operated flush controls are provided, the rough in of the flush control shall be opposite the wide/accessible side of the compartment to permit conversion to manual controls installed in accordance with the above requirements.
4. Provide deep seal trap and Proset Trapguard trap seal protection in all floor drains. Refer to plans for outlet size/trap size.

PLUMBING FIXTURE LIST

**********Note: Refer to Specification Sections 22 1006 and 22 4000 for complete fixture specifications.**********

FIXTURE TAG	FIXTURE DESCRIPTION	FIXTURE SPECIFICATIONS	DRAIN ROUGH IN CONNECTION	WATER ROUGH IN CONNECTION	
				HOT	COLD
SINK-1	Sink Kitchen	**Basin:** 18 gauge Stainless Steel - Undermount - Bowl Dimension: 21" (left to right) x 15-3/4" (front to back) X 5" deep - ADA/ANSI A117.1 compliant - Basis of Design: **Elkay ELUHAD2115-5.0** **Faucet:** - Chrome Plated Brass High Arc Faucet w/ pull down spray, lever handle, ceramic cartridge, 1.5gpm Aerator - Basis of Design: **Chicago 434-ABCP** **Accessories:** - 17 ga. Chrome Plated brass P-Trap w/ cleanout plug and escutcheon. - Manufactured for Commercial Construction, Loose key/Screwdriver operated, 1/4 turn, chrome plated angle stops. - Rigid Chrome plated copper supplies	2"	1/2"	1/2"
SINK-2	Sink Exec. Conference	**Basin:** 18 gauge Stainless Steel - Undermount - Bowl Dimension: 16" (left to right) x 16" (front to back) x 5" deep - ADA/ANSI A117.1 compliant - Basis of Design: **Elkay ELUHAD1616-5.0** **Faucet:** - Chrome Plated Brass High Arc Faucet w/ pull down spray, lever handle, ceramic cartridge, 1.5gpm Aerator - Basis of Design: **Chicago 434-ABCP** **Accessories:** - 17 ga. Chrome Plated brass P-Trap w/ cleanout plug and escutcheon. - Manufactured for Commercial Construction, Loose key/Screwdriver operated, 1/4 turn, chrome plated angle stops. - Rigid Chrome plated copper supplies	2"	1/2"	1/2"
SINK-3	Sink Mothers Nursing	**Basin:** 18 gauge Stainless Steel - Undermount - Bowl Dimension: 16" (left to right) x 16" (front to back) x 5" deep - ADA/ANSI A117.1 compliant - Basis of Design: **Elkay ELUHAD1616-5.0** **Faucet:** - Chrome Plated Brass High Arc Faucet w/ pull down spray, lever handle, ceramic cartridge, 1.5gpm Aerator - Basis of Design: **Chicago 434-ABCP** **Accessories:** - 17 ga. Chrome Plated brass P-Trap w/ cleanout plug and escutcheon. - Manufactured for Commercial Construction, Loose key/Screwdriver operated, 1/4 turn, chrome plated angle stops. - Rigid Chrome plated copper supplies	2"	1/2"	1/2"
WC-1/ WC-2/ WC-3	Water Closet (Toilet Rooms)	Bowl: - Elongated, Wall hung - ICC/ANSI A117.1 & ASME A112.19 compliant - Vitreous China, white w/ antimicrobial finish **Basis of Design: Kohler : Kigston K-4325** Carrier: - Compatible closet carrier, minimum 500 lb. load rated. Seat: Plastic Open Front Seat, white, with self sustaining check hinge **Basis of Design: Beamis 1955SSCT** Flush Valve: - 1.6 gpf, Exposed chrome plated cast brass,w/integral angle stop - Sensor Operated, hardwired power supply w/True Mechanical Override **Basis of Design: Sloan Optima Royal 111-1.28**	4"	----	1"

NOTES:
1. P.C. shall coordinate all "Accessible" fixture locations with Architectural plans prior to rough in.
2. Refer to Architectural drawings for all fixture mounting heights.
3. At all "Accessible" water closet compartments, installation of flush controls shall comply with ANSI 117.1. Flush controls shall be mounted on the wide/accessible side of toilet compartments, no more than 44 inches above the floor. Where sensor operated flush controls are provided, the rough in of the flush control shall be opposite the wide/accessible side of the compartment to permit conversion to manual controls installed in accordance with the above requirements.
4. Provide deep seal trap and Proset Trapguard trap seal protection in all floor drains. Refer to plans for outlet size/trap size.

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

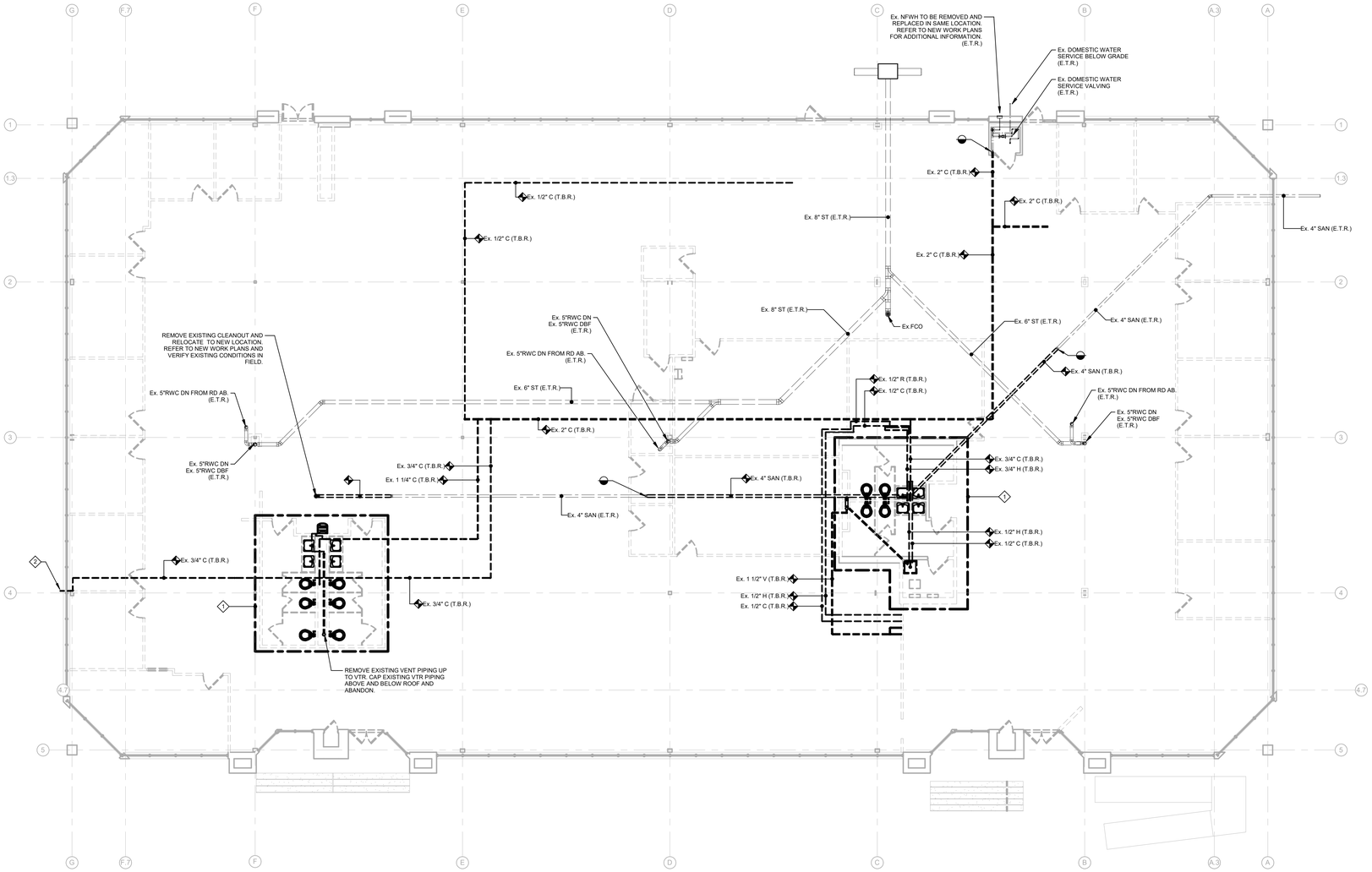
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
FIXTURE LIST - PLUMBING

Drawing Number:
P001



1 FIRST FLOOR DEMOLITION PLAN - PLUMBING

PD101 SCALE: 1/8" = 1'-0"

PLUMBING DEMOLITION NOTE LEGEND	
1	REMOVE ALL EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING WITHIN THE OUTLINED AREA IN THEIR ENTIRETY. REMOVE DRAINAGE PIPING DOWN TO BELOW FLOOR AND PERMANENTLY CAP AND ABANDON BELOW FLOOR SLAB. REMOVE ALL VENT PIPING IN ITS ENTIRETY BACK TO VTR OR AS NOTED OTHERWISE ON PLANS. REMOVE ALL ASSOCIATED WATER PIPING IN ITS ENTIRETY BACK TO LIMIT OF DEMOLITION NOTED ON PLANS.
2	REMOVE EXISTING NON-FREEZE WALL HYDRANT AND ASSOCIATED PIPING IN ITS ENTIRETY BACK TO LIMIT OF DEMOLITION NOTED ON PLANS. PATCH EXISTING WALL TO MATCH ADJACENT CONSTRUCTION AND FINISHES.

True Project

0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

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MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

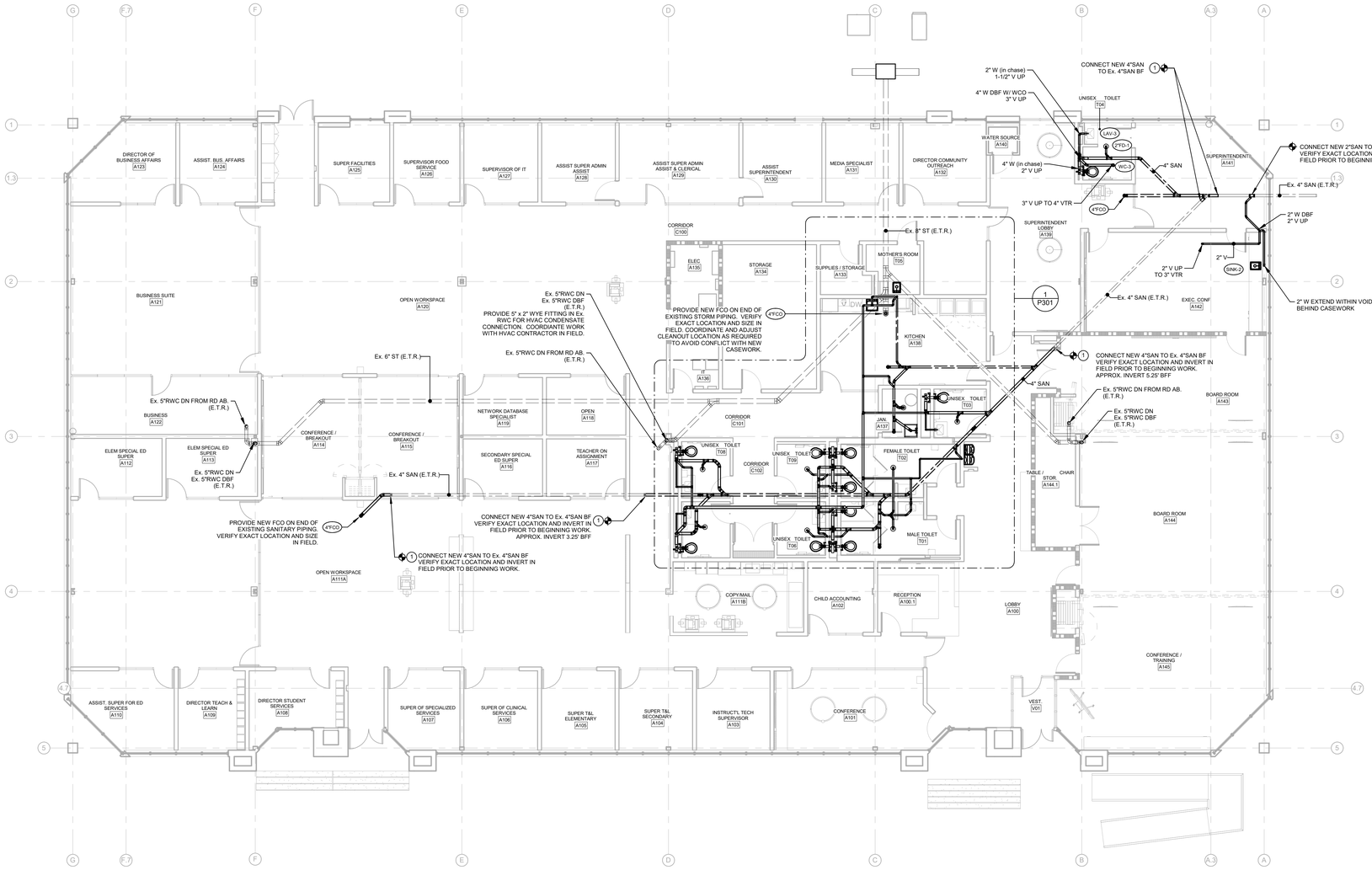
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
FIRST FLOOR PLAN - DEMOLITION - PLUMBING

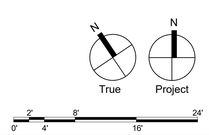
Drawing Number:
PD101



1 FIRST FLOOR PLAN - DRAINAGE & VENT

P101 SCALE: 1/8" = 1'-0"

PLUMBING DRAWING NOTE LEGEND	
1	CONTRACTOR SHALL PROVIDE *APPROVED* FITTING FOR CONNECTION OF NEW PVC PIPING TO EXISTING CAST IRON PIPING BELOW SLAB. VERIFY SIZE AND LOCATION IN FIELD.



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SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

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MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

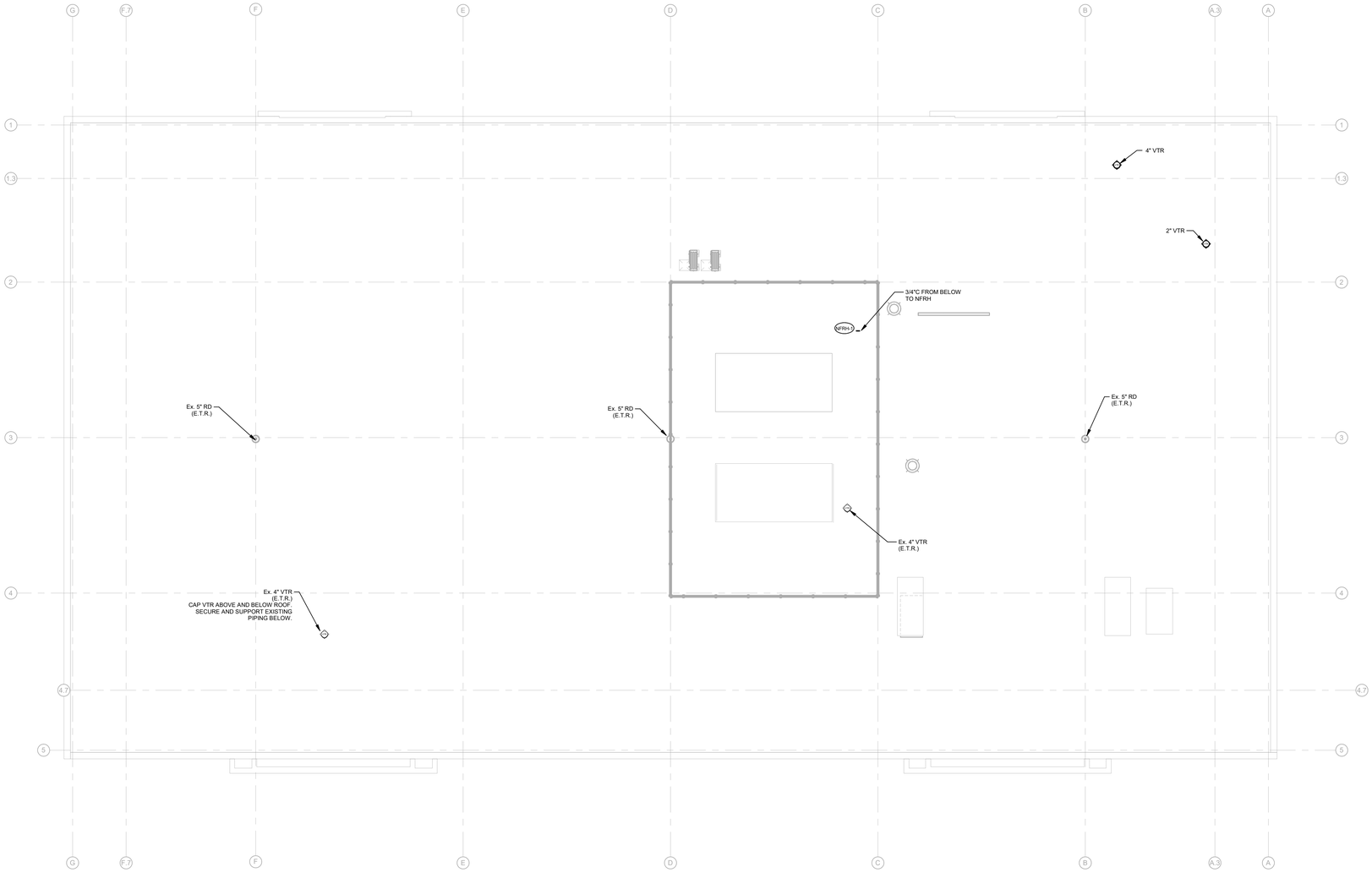
DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
FIRST FLOOR PLAN - DRAINAGE & VENT - PLUMBING

Drawing Number:
P101



1 ROOF PLAN - PLUMBING
P102 SCALE: 1/8" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

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GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
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ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023
SG PROJECT NUMBER: 22-025

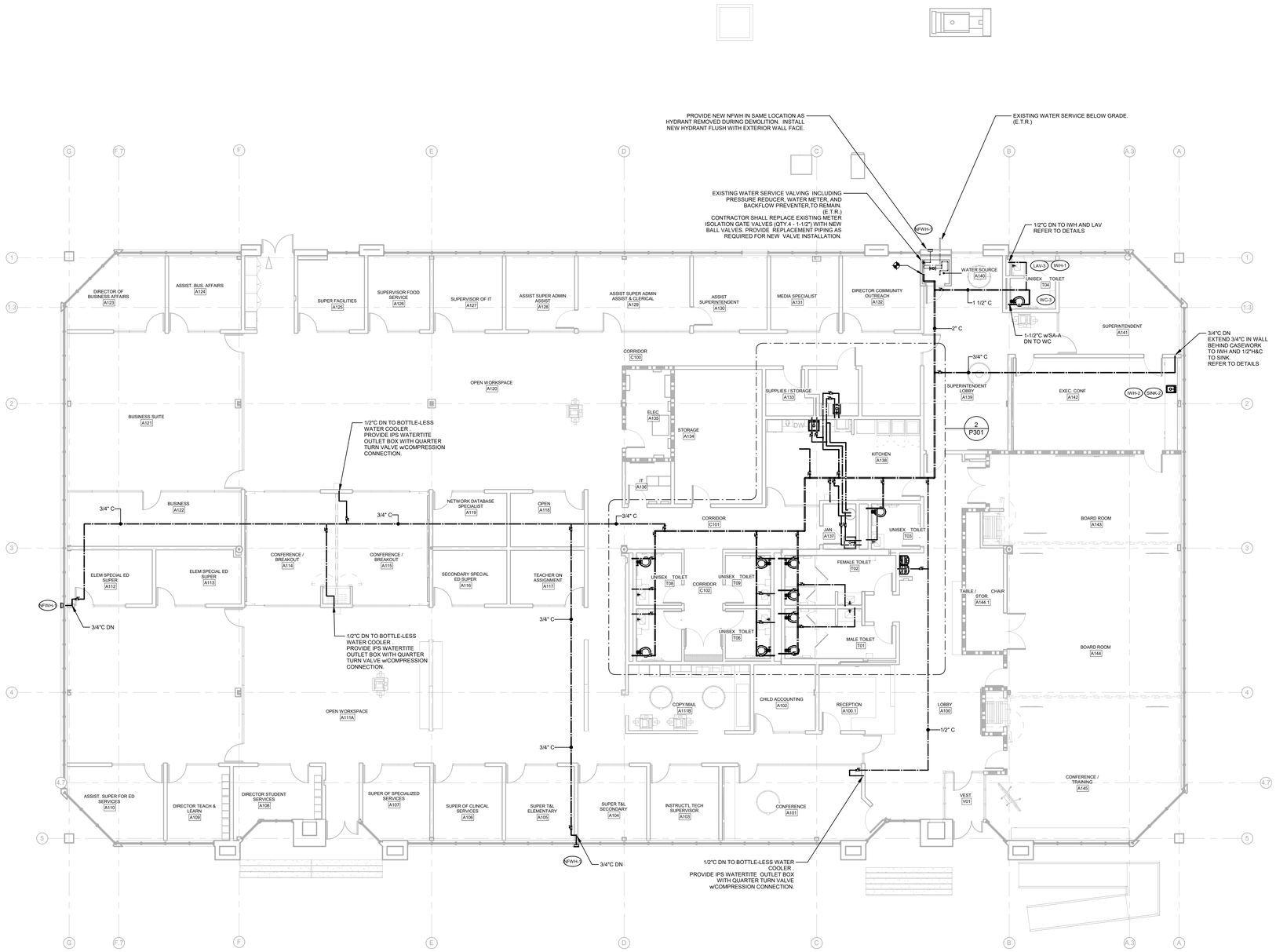
Key Plan:

Drawing Title:
ROOF PLAN - PLUMBING

Drawing Number:
P102

True Project
0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS



1 FIRST FLOOR PLAN - SUPPLY

P201 SCALE: 1/8" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:

Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer

SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:

GVSD - DISTRICT ADMINISTRATION OFFICE

100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:

FIRST FLOOR PLAN - SUPPLY - PLUMBING

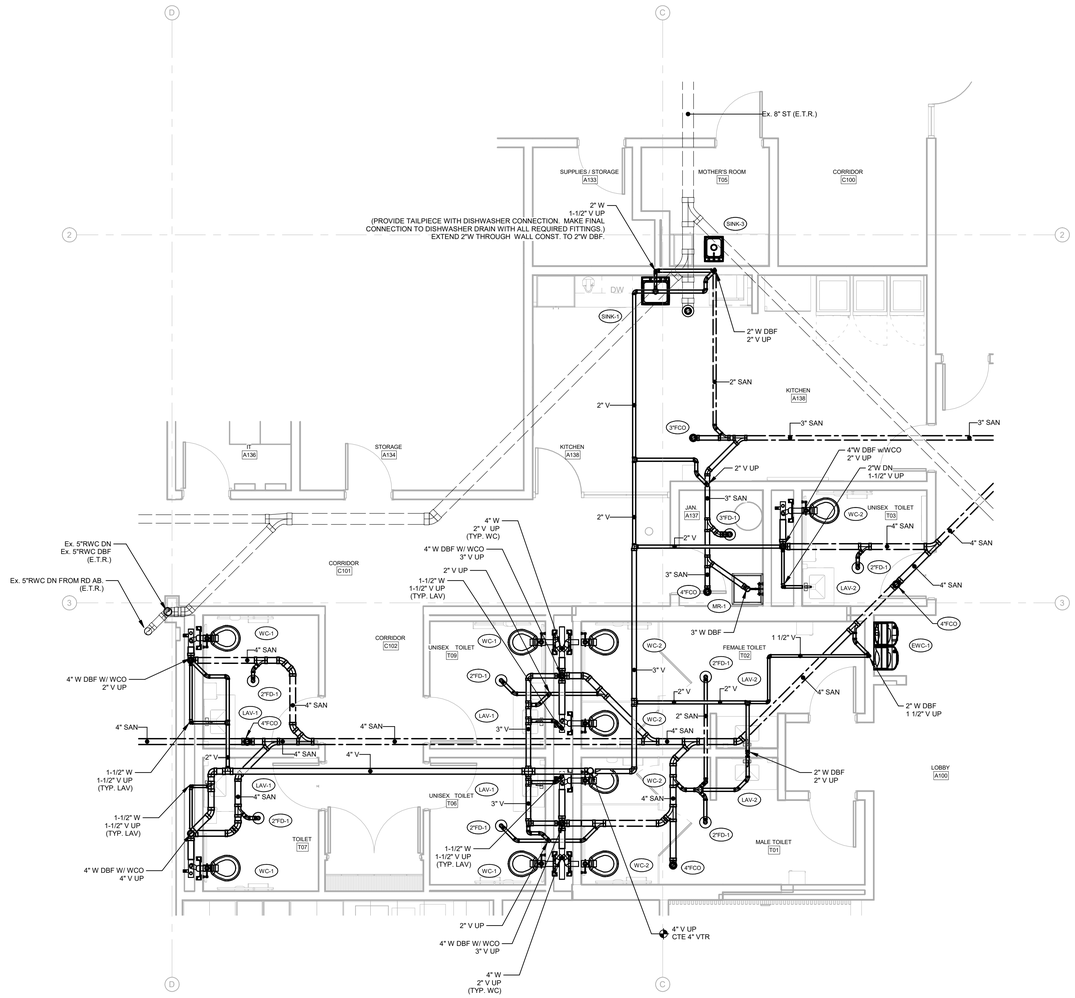
Drawing Number:

P201

True Project

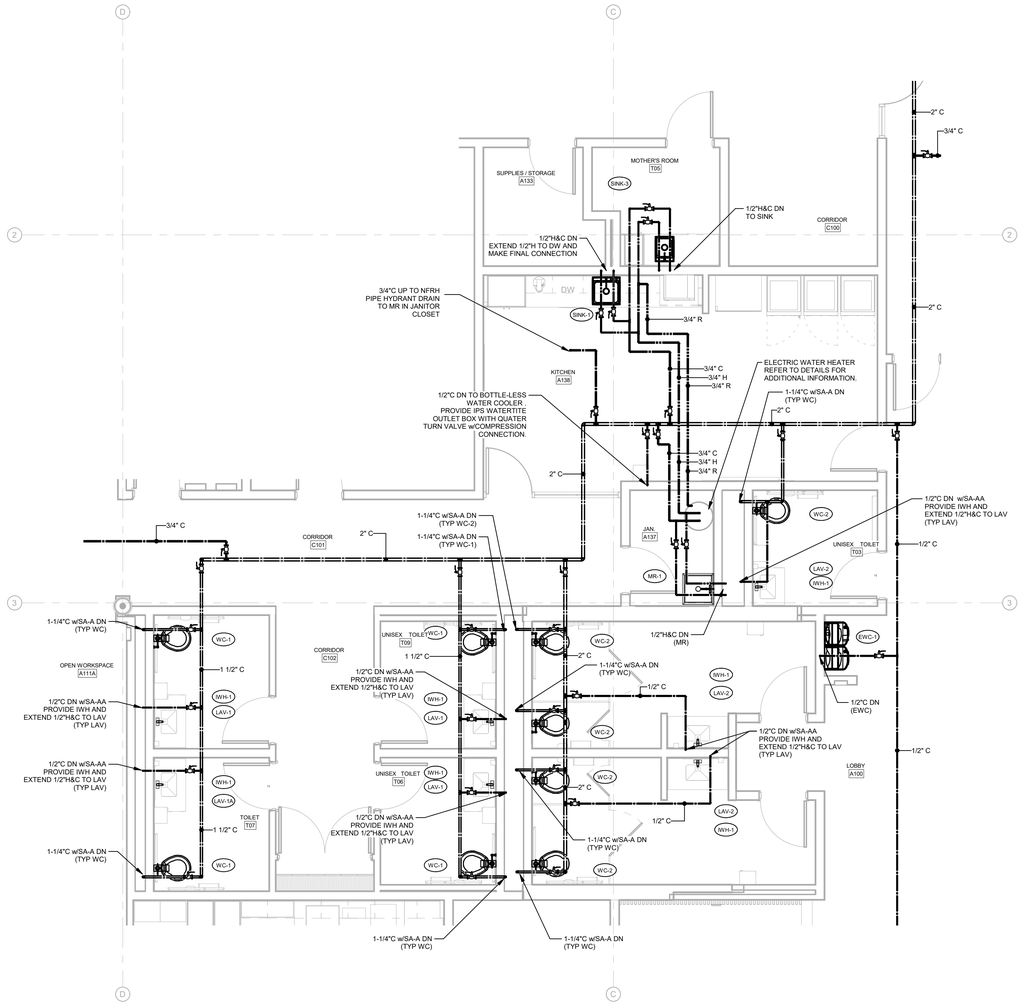
0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS



1 ENLARGED PLAN - DRAINAGE & VENT

P301 SCALE: 1/4" = 1'-0"



2 ENLARGED PLAN - SUPPLY

P301 SCALE: 1/4" = 1'-0"

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:

Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer

SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

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GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
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MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

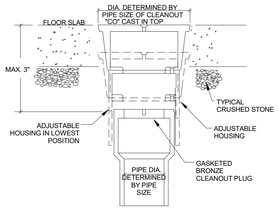
Drawing Title:
ENLARGED PLANS - PLUMBING

Drawing Number:
P301

True Project

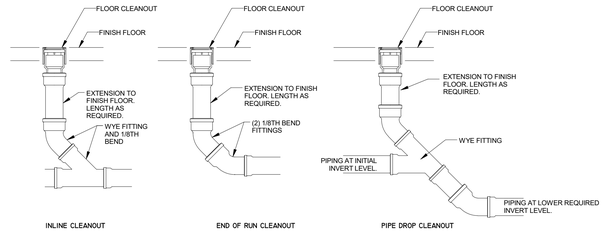
0' 2' 4' 8' 12'

CONFORMED DRAWINGS



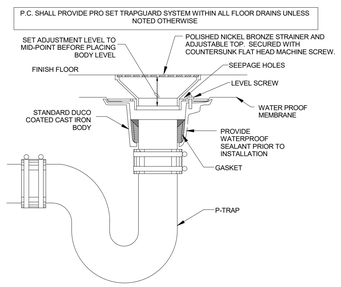
Typical Floor Cleanout Detail

Scale:None



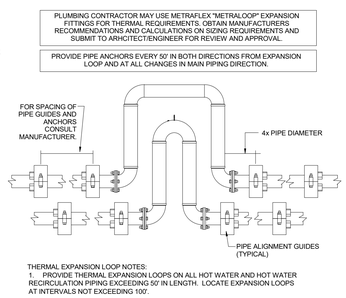
Typical Floor Cleanout Connection/Installation Details

Scale: None



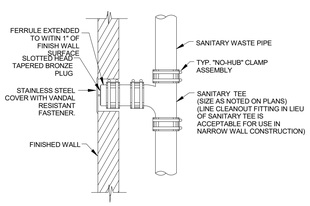
Typical Floor Drain Detail

Scale:None



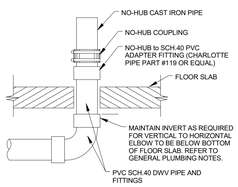
Typical Thermal Expansion Loop Detail

Scale:None



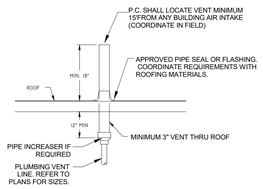
Typical Wall Cleanout Detail

Scale:None



Typical No-Hub Cast Iron Above Slab to PVC Below Slab Transition

Scale:None

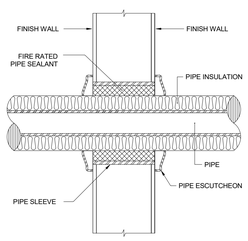


NOTES:

1. FLASHING AND SEALING OF VTR PENETRATIONS WITHIN NEW ROOF CONSTRUCTION SHALL BE PROVIDED BY THE ROOFING INSTALLER. P.C. SHALL COORDINATE ALL WORK AND INSTALLATION REQUIREMENTS WITH THE ROOFING INSTALLER IN FIELD. FLASHING AND SEALING OF NEW VTR PENETRATIONS WITHIN EXISTING ROOF CONSTRUCTION SHALL BE PROVIDED BY THE P.C. AND SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE EXISTING ROOF MANUFACTURER TO MAINTAIN ANY EXISTING ROOF WARRANTY. COORDINATE ALL REQUIREMENTS WITH OWNER AND EXISTING ROOF MANUFACTURER IN FIELD.

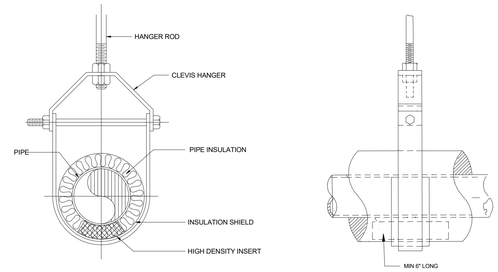
Vent Thru Roof Detail

Scale:None



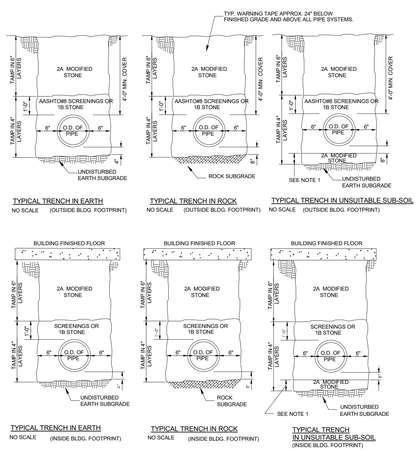
Pipe Sleeve Through Wall Detail

Scale:None



Typical Clevis Hanger Detail

Scale: None



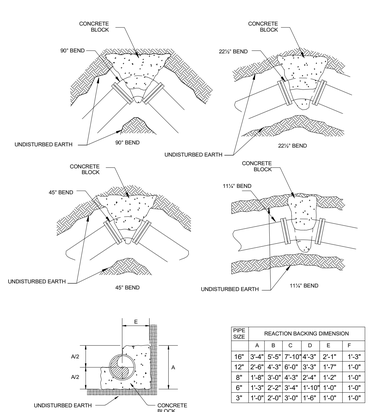
1. MINIMUM 12", EXACT DEPTH TO BE DETERMINED BY ARCHITECT / ENGINEER IN FIELD BASED ON EXISTING UNSUITABLE SUB-SOIL CONDITION.

2. IT IS THE INTENT THAT THE MATERIALS EXCAVATED FROM THE TRENCHES IS NOT TO BE USED FOR TRENCH BACKFILL. REFER TO DETAILS ABOVE FOR APPROVED BACKFILL MATERIALS. RAW EXCAVATED MATERIALS MUST BE DISPOSED OF PROPERLY OFF SITE BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

*WITHIN ROAD RIGHT-OF-WAYS, SURFACE RESTORATION, BACKFILL MATERIALS, AND METHODS SHALL MEET THE APPROPRIATE MUNICIPAL OR PENN-DOT REQUIREMENTS.

Typical Pipe Trench Details

Scale: None

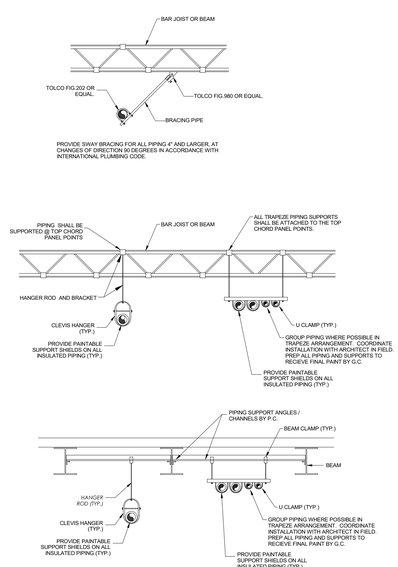


PIPE SIZE	REACTION BACKING DIMENSION					
	A	B	C	D	E	F
16"	3'-4"	5'-5"	7'-10"	4'-3"	2'-1"	1'-3"
12"	2'-6"	4'-3"	6'-0"	3'-3"	1'-7"	1'-0"
8"	1'-8"	3'-0"	4'-3"	2'-4"	1'-2"	1'-0"
6"	1'-3"	2'-2"	3'-4"	1'-10"	1'-0"	1'-0"
3"	1'-0"	2'-0"	3'-0"	1'-6"	1'-0"	1'-0"

ALL FIRE PROTECTION SERVICE PIPING SHALL BE INSTALLED AND RESTRAINED IN ACCORDANCE WITH NFPA-24 REQUIREMENTS.

Typical Thrust Block Details

Scale: None



Typical Piping Support Details

Scale: None

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:

Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer

SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

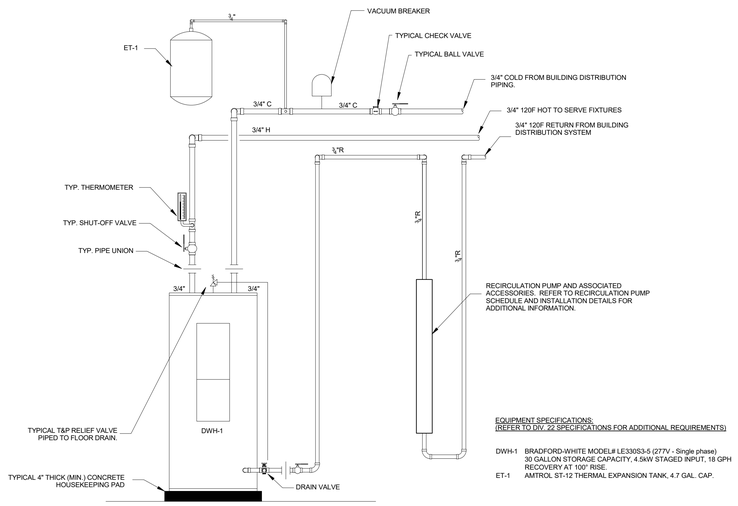
SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
DETAILS - PLUMBING

Drawing Number:
P401

CONFORMED DRAWINGS

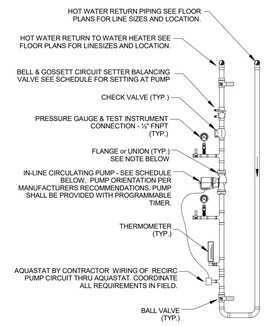


EQUIPMENT SPECIFICATIONS:
(REFER TO DIV. 22 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

DWH-1 BRADFORD-WHITE MODEL# LE330S3-5 (277V - Single phase) 30 GALLON STORAGE CAPACITY, 4.5kW STAGED INPUT, 18 GPH RECOVERY AT 100° RISE.
ET-1 AMTROL ST-12 THERMAL EXPANSION TANK, 4.7 GAL. CAP.

Domestic Water Heater Installation Detail (Commercial Light Duty - Electric)

Scale: None



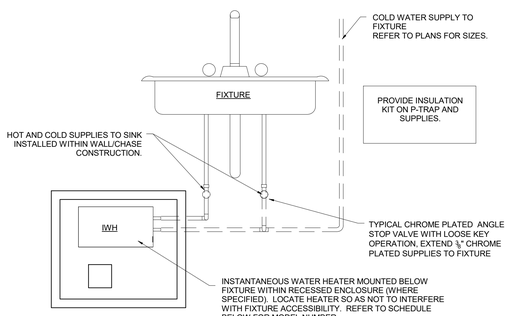
RECIRCULATING PUMP SCHEDULE

TAG	MANUF.	MODEL	LOCATION	POWER	PERFORMANCE	CONST.	CIRCUIT SETTER/GPM
RCP-1	Armstrong	ASTRO 22580-7A	STORAGE A106a	75 W	2.0 gpm @ 8.0 ft	Lead Free Bronze	2.0 gpm

NOTES:
1. PROVIDE ALL RECIRCULATION PUMPS WITH PROGRAMMABLE TIMER, AQUASTAT, AND FLANGE KITS.
2. ALL POWER WIRING BY E.C.

Domestic Hot Water Recirculating Pump Installation Detail

Scale: None

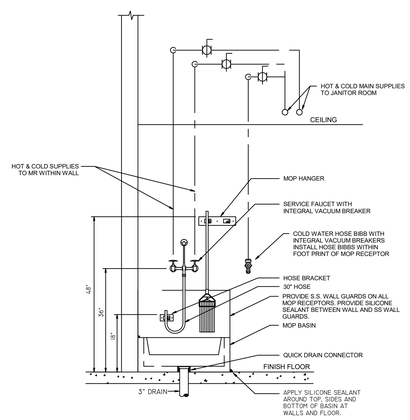


INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE

TAG	MANUF.	MODEL	VOLTAGE	AMPS	WATTS	PERFORMANCE	COMMENTS
IWH-1	CHRONOMITE	CM-12L/277	277V / 1PH	12 A	3.32 kW	45F Rise @ .5 gpm	Provide with 2095-1 rotary disconnect switch
IWH-2	CHRONOMITE	CM-40L/277	277V / 1PH	40 A	11.08 kW	50F Rise @ 1.5 gpm	Provide with 2095-1 rotary disconnect switch.

Instantaneous Water Heater Installation (Single Sink)

Scale: None



Mop Receptor and Accessories Detail

Scale: None

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

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301 LINDENWOOD DRIVE SUITE 210
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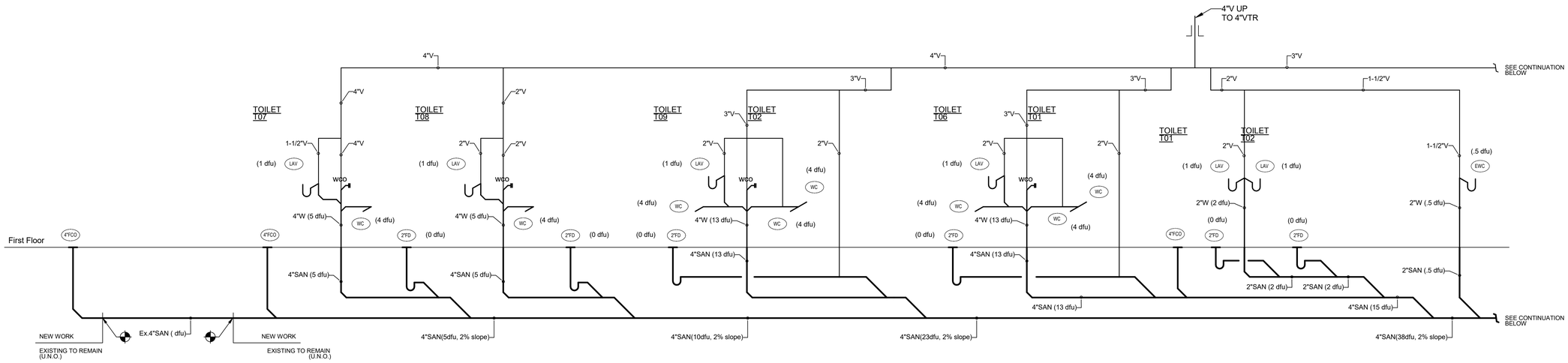
SG PROJECT NUMBER: 22-025

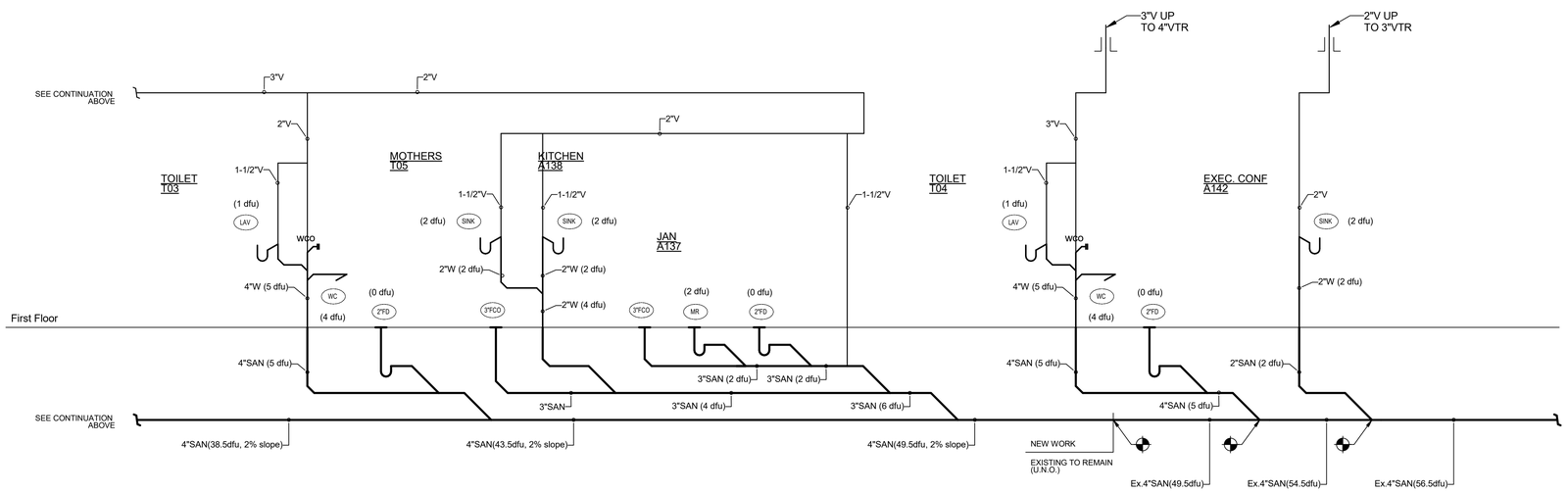
Key Plan:

Drawing Title:
DETAILS - PLUMBING

Drawing Number:
P402

CONFORMED DRAWINGS





Sanitary Drainage & Vent - Riser Diagram

Scale: None

RISER DIAGRAMS ARE PROVIDED FOR ADDITIONAL REFERENCE AND SCHEMATIC DETAIL.
REFER TO FLOOR PLANS FOR ALL WORK AND ADDITIONAL DETAILS. ANY DISCREPANCIES BETWEEN THE RISER DIAGRAMS AND THE FLOOR PLANS SHALL BE VERIFIED WITH ENGINEER PRIOR TO INSTALLATION. FOR BIDDING PURPOSES SIZING SHOWN ON FLOOR PLANS SHALL TAKE PRECEDENCE OVER SIZING SHOWN ON RISER DIAGRAMS.

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

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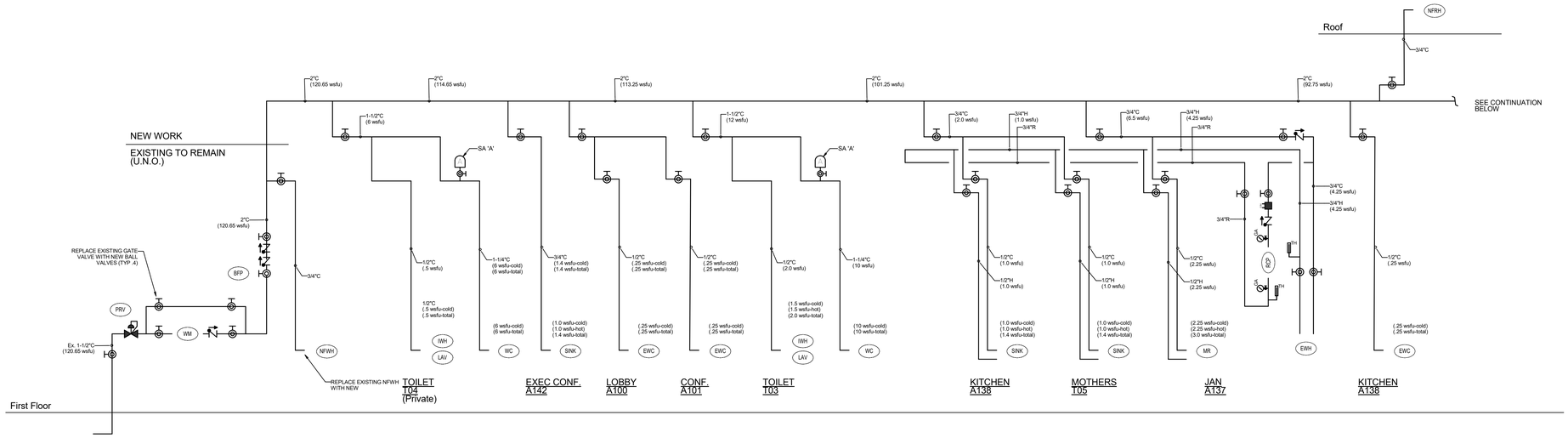
SG PROJECT NUMBER: 22-025

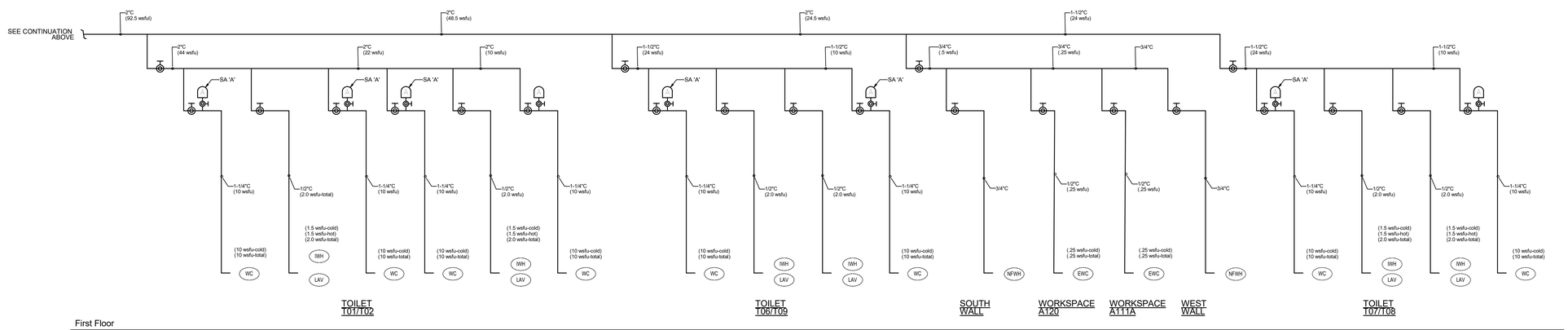
Key Plan:

Drawing Title:
RISER DIAGRAMS - PLUMBING

Drawing Number:
P501

CONFORMED DRAWINGS





Domestic Water Supply - Riser Diagram

Scale: None

RISER DIAGRAMS ARE PROVIDED FOR ADDITIONAL REFERENCE AND SCHEMATIC DETAIL.
REFER TO FLOOR PLANS FOR ALL WORK AND ADDITIONAL DETAILS. ANY DISCREPANCIES BETWEEN THE RISER DIAGRAMS AND THE FLOOR PLANS SHALL BE VERIFIED WITH ENGINEER PRIOR TO INSTALLATION. FOR BIDDING PURPOSES SIZING SHOWN ON FLOOR PLANS SHALL TAKE PRECEDENCE OVER SIZING SHOWN ON RISER DIAGRAMS.

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

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GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
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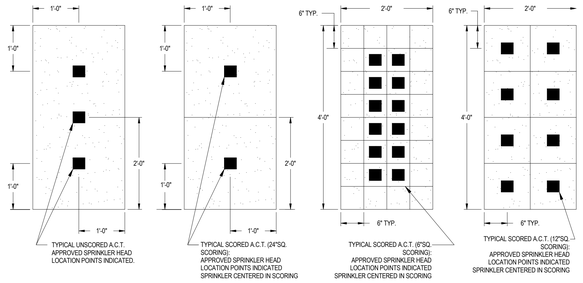
Key Plan:

Drawing Title:
RISER DIAGRAMS - PLUMBING

Drawing Number:
P502

CONFORMED DRAWINGS



Typical A.C.T. Panel Approved Sprinkler Penetration Points

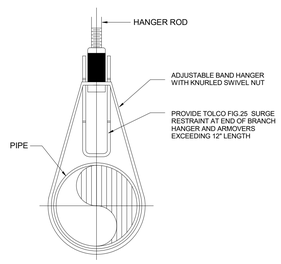
NO SCALE

DESIGN CODE REFERENCES	
PA - UCC	PENNSYLVANIA UNIFORM CONSTRUCTION CODE
IBC	ICC - INTERNATIONAL BUILDING CODE; 2018
IFC	ICC - INTERNATIONAL FIRE CODE; 2018 (AS REFERENCED IN INTERNATIONAL BUILDING CODE)

REFERENCED DESIGN STANDARDS	
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA 13	NATIONAL FIRE PROTECTION ASSOCIATION - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS; 2016 EDITION OR MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.
NFPA 101	NATIONAL FIRE PROTECTION ASSOCIATION - 2018 EDITION OR CODE FOR SAFETY TO LIFE FROM FIRE IN BUILDINGS AND STRUCTURES; MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.

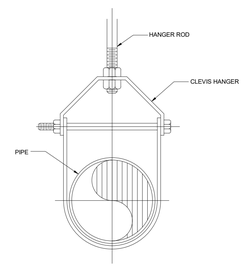
FIRE PROTECTION - GENERAL NOTES

1.	The entire renovated building area shall be fully sprinklered. The sprinkler system shall be "Design Build" by the contractor in accordance with IBC2018 and NFPA 13 (2016), and inclusive of all additional requirements as indicated on the drawings and in the specifications. The system shall be hydraulically calculated to provide the prescribed density uniformly over the most remote area. Contractor shall prepare shop drawings and calculations and submit to the Architect/Engineer, and all reviewing agencies having jurisdiction including the owner's insurance carrier. The final approved submittal drawings prepared by the contractor shall bear a fire protection engineer's seal, whom is registered in the Commonwealth of Pennsylvania and designer certified to NICET Level IV. No work shall begin until all approvals are granted. Note: Schematic representation of some main and branch piping has been included on the attached contract drawings for space allocation and design coordination. Not all piping is shown and the contractor shall be responsible for a complete "Design Build" system and to provide all required piping and appurtenances as noted above.
2.	The contractor whom installs the system shall have a minimum of five (5) years successful installation experience on projects with fire protection systems similar to that required by this project.
3.	All sprinkler heads shall be "Quick Response" rated.
4.	No extended coverage heads shall be permitted on this project unless specifically noted as extended coverage on drawings.
5.	Exposed piping to be limited to areas noted on drawings and as approved by architect/tenant representative in field. Exposed piping shall be installed in a neat arrangement in inconspicuous locations. Where possible piping shall be installed within chases, soffits, and walls and coordinated with all trades prior to installation.
6.	Coordinate all piping, heads, equipment, etc. with all other trades in field prior to installation. All exposed piping shall be field coordinated with architect prior to installation. Field coordination shall take precedence over routing and details shown on FP submittal drawings. Any change in piping from that shown on the submittal drawings, resulting from field coordination, shall be completed at no additional cost to the owner. Prefabrication of FP piping off site or third party design of FP system does not relieve the installing contractor of any field coordination requirements.
7.	All sprinkler heads shall be located as shown on "Typical ACT Panel Approved Sprinkler Penetration Points" detail, unless noted otherwise. All sprinkler heads must be installed symmetrically with all other devices, equipment, etc. The contractor shall use the approved architectural reflected ceiling plans as the basis for his sprinkler head layout, any deviation from the drawing layout must be approved in advance by the Architect/Engineer.
8.	Contractor shall paint all exposed piping in color selected by Architect. Where painting of exposed piping is specified under separate contract, this contract shall include all preparation including cleaning, removal of rust, oil, or other contaminants on exposed piping.
9.	The contractor shall verify all ceiling construction types prior to ordering or installing any sprinkler heads as shown. Refer to details/specifications for sprinkler head manufacturers, models, and type to be used in each ceiling type.
10.	Sprinkler system design density for Offices, Toilet Rooms, Break Rooms, etc. shall be based on "Light Hazard Occupancy" classification. Maximum sprinkler coverage shall be 225 square feet per head, unless noted otherwise.
11.	Sprinkler system design density for Mechanical Rooms, Janitor Closets, Storage Rooms, etc. shall be based on "Ordinary Hazard I Occupancy" classification. Maximum sprinkler coverage shall be 130 square feet per head, unless noted otherwise.
12.	Sprinkler head locations, installations, etc. for the entire project shall be installed in strict accordance with NFPA 13 (latest edition) Chapter 8 "Installation Requirements", International Building Code, International Fire Code (latest editions), and the Local Fire Marshal.
13.	Contractor shall provide additional heads and supply pipe required for proper sprinkler coverage both above and below HVAC duct work, suspended units, obstructions, etc. over 48" in width. Coordinate in field (NFPA 8-5.5.3.1).
14.	Contractor shall be responsible for providing sprinklers in all concealed spaces, as required by NFPA13 (latest edition) Chapter 8.
15.	This contractor shall provide vibration isolation and seismic restraint on fire piping as required by contract drawings, specifications, the requirements of NFPA13 (latest edition) Chapter 9 "Hanging, Bracing, and Restraint of System Piping", all local code requirements, the International Building Code and International Fire Code (latest editions).
16.	Provide Inspectors Test Connections and drains as required by NFPA 13 (latest edition) Chapter 8 "Installation Requirements". Fire Protection Contractor shall pipe Inspectors Test Connections piped to exterior of building or to an approved drain location (verify with local AHJ).
17.	Where sprinkler heads are installed in spaces with no ceilings or below ceilings exposed, provide sprinkler guards on these heads. Sprinkler guards shall have chrome finish.
18.	This Contractor is responsible for performing a Fire Flow Test on the Public Water Distribution System serving the building prior to beginning his design. The Contractor shall use these test results as a basis of design for his hydraulic calculations for the building system.
19.	This Contractor shall install all sprinkler piping as high as possible within the ceiling space provided throughout the building. Sprinkler mains shall be installed within bar joists, tight to bottom of joists or tight to bottom of beams. This Contractor shall coordinate piping locations and elevations with all other trades and note elevations on the sprinkler submittal drawings. All piping shall be installed to freely drain back to mains. Where trapped piping is unavoidable, this contractor shall provide auxiliary drains in accordance with NFPA13 at lowpoints of all trapped piping. All auxiliary drains shall be clearly labeled and all locations shall be noted on the record drawings.



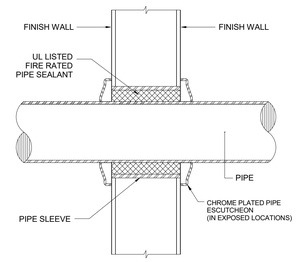
Typical Adjustable Band Hanger Detail - Fire Protection Piping

Scale: None



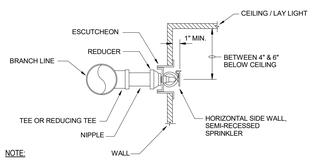
Typical Clevis Hanger Detail

Scale: None



Pipe Sleeve Through Wall Detail

Scale: None

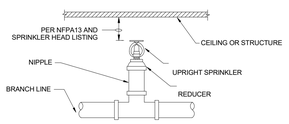


NOTE:

POSITION OF SPRINKLER HEADS WITH RESPECT TO COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION, STRUCTURAL MEMBERS, ETC. SHALL BE IN ACCORDANCE WITH NFPA #13.

Typical Recessed Sidewall Sprinkler Head Detail

Scale: None

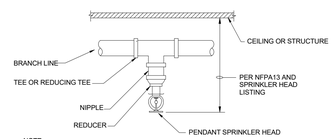


NOTE:

POSITION OF SPRINKLER HEADS WITH RESPECT TO COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION, STRUCTURAL MEMBERS, ETC. SHALL BE IN ACCORDANCE WITH NFPA 13.

Typical Upright Sprinkler Head Detail

Scale: None



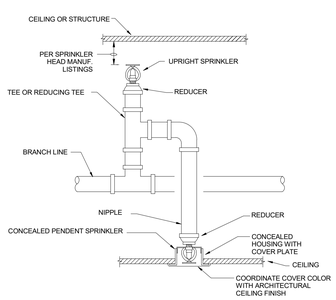
NOTE:

POSITION OF SPRINKLER HEADS WITH RESPECT TO COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION, STRUCTURAL MEMBERS, ETC. SHALL BE IN ACCORDANCE WITH NFPA 13.

Typical Pendent Sprinkler Head Detail

Scale: None

SPRINKLER HEAD LEGEND	
C ? ?	Concealed Pendant Type. See drawings for following option designations: Designations: DRY - Dry type with barrel length determined in field Cover colors: W - White Chrome CC - Custom Color (Color as determined by Architect)
P ? ? / U ? ?	Standard Pendant (P) or Upright (U) Type. See drawings for following option designations: DRY - Dry type with barrel length determined in field. DSR - Dry type, Semi-recessed INST - Institutional, flush mount pendant type EC - Extended Coverage G - Guard Colors: Chrome Brass
??? ??? ???	Horizontal Sidewall Type. See drawings for following option designations: C - Concealed DRY - Dry type with barrel length determined in field. DSR - Dry type, Semi-recessed with barrel length determined in field. EC - Extended Coverage G - Guard Colors: Chrome Brass
*Coordinate sprinkler head types with drawings, approved architectural reflected ceiling plans and field conditions. Resolve any conflicts with Architect/Engineer prior to installation. *Heads designated as exposed standard upright and pendant type can be either pendant or upright as to best fit in final piping layout. *Refer to Division 21 - "Fire Suppression" Specifications for detailed sprinkler specifications.	



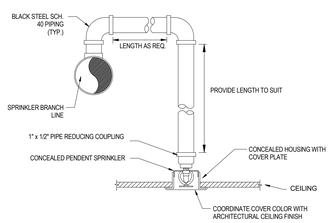
NOTE:

POSITION OF SPRINKLER HEADS WITH RESPECT TO COMBUSTIBLE AND NON-COMBUSTIBLE CONSTRUCTION, STRUCTURAL MEMBERS, ETC. SHALL BE IN ACCORDANCE WITH NFPA #13.

INSTALLATION IN ACCORDANCE WITH NFPA13 8.14.19.3.3

Upright Head Sprig Up w/Concealed Pendent Sprinkler Head in Low Ceiling Detail

Scale: None

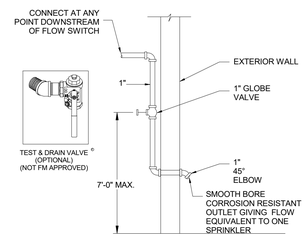


NOTES:

1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.

Typical Sprinkler Pipe Drop Detail w/ Concealed Pendent Sprinkler Head

Scale: None

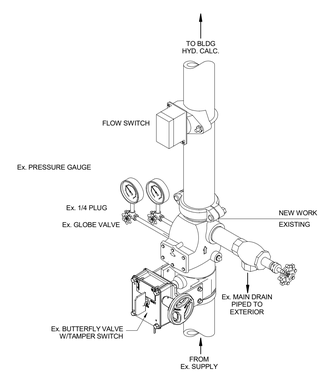


NOTE:

ALL TEST OUTLETS TO DISCHARGE TO EXTERIOR OF BUILDING. COORDINATE LOCATIONS WITH ARCHITECT IN FIELD.

Inspectors Test Connection for Wet Pipe Sprinkler Systems

NO SCALE



NOTES:

1. WATER FLOW SWITCH AND TAMPER SWITCH PROVIDED BY F.P.C AND WIRED TO FIRE ALARM PANEL BY. E.C.
2. PIPE ALL DRAINS TO FLOOR DRAIN, OR OUTSIDE (V.I.F.).
3. SIZE UNIT PER HYDRAULIC CALCULATIONS.

Fire Protection Riser Check Valve Assembly Detail

Scale: None

FIRE PROTECTION DESIGN LEGEND	
1	Sprinkler system Design Density for rooms indicated shall be based on "Light Hazard" classification. Maximum sprinkler coverage shall be 225 square feet per head , unless noted otherwise.
2	Sprinkler system Design Density for rooms indicated shall be based on "Ordinary Hazard 1" classification. Maximum sprinkler coverage shall be 130 square feet per head , unless noted otherwise.
3	Sprinkler system Design Density for rooms indicated shall be based on "Ordinary Hazard 2" classification. Maximum sprinkler coverage shall be 130 square feet per head , unless noted otherwise.
4	This Contractor shall coordinate sprinkler head and piping with all other trades prior to installation. Contractor shall also provide additional heads and supply pipe required for proper sprinkler coverage both above and below HVAC duct work, suspended units, etc. over 48" in width. Coordinate in field (NFPA 5-5.5.3.1).

SCHRADERGROUP
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
www.sgarc.com

Consultants:

MEP:
Snyder Hoffman Associates
1005 W. Lehigh St
Bethlehem, PA 18018
610.694.8020

Structural Engineer
SchraderGroup Architecture
161 Leverington Ave, Suite 105
Philadelphia, PA 19127
215.482.7440

Professional Seal:

Owner:
GREAT VALLEY SCHOOL DISTRICT
301 LINDENWOOD DRIVE SUITE 210
MALVERN, PA 19355

Renovations to:
GVSD - DISTRICT ADMINISTRATION OFFICE
100 LINDENWOOD DRIVE
MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

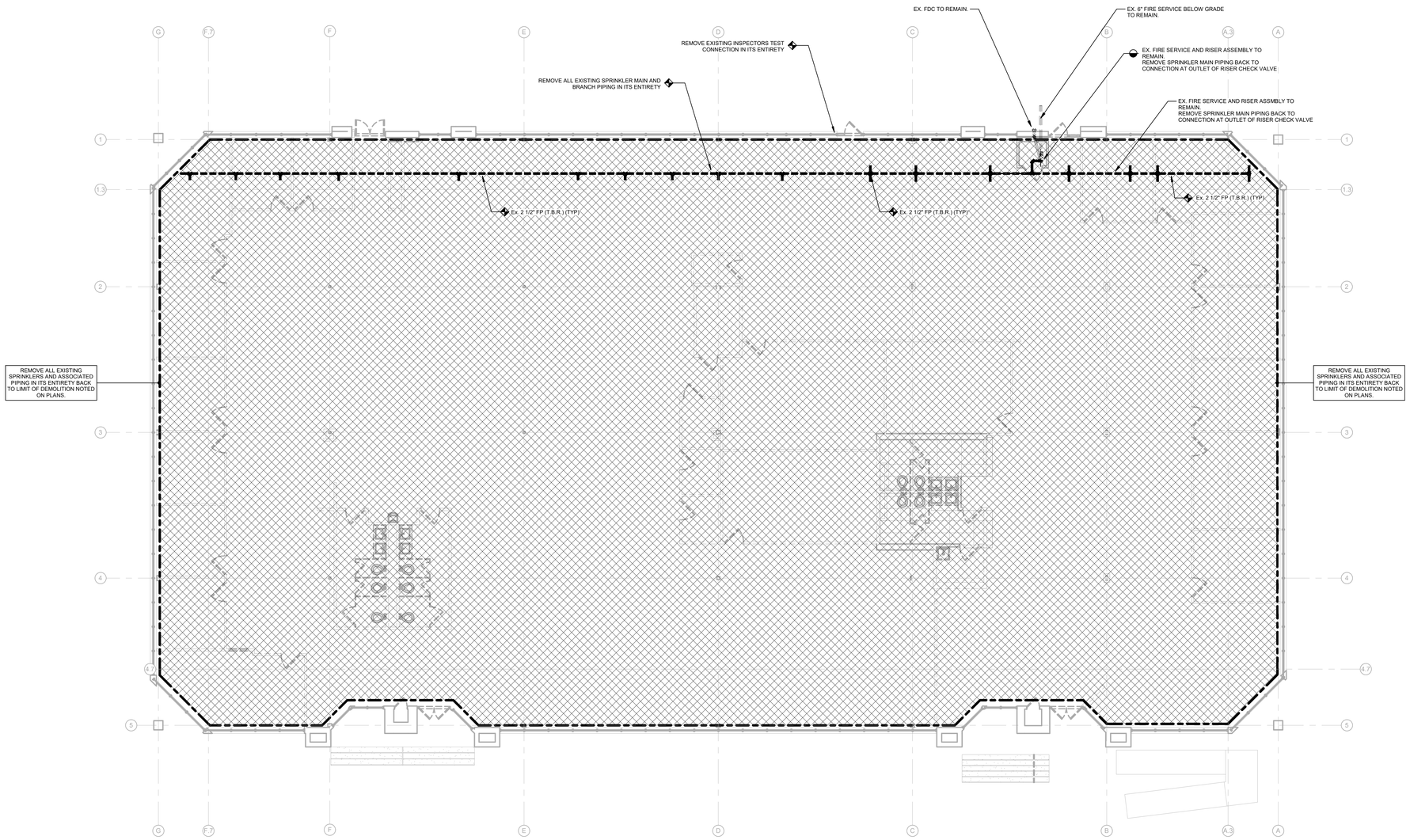
SG PROJECT NUMBER: 22-025

Key Plan:

Drawing Title:
COVERSHEET - FIRE PROTECTION

Drawing Number:
FP000

CONFORMED DRAWINGS



1 FIRST FLOOR DEMOLITION PLAN - FIRE PROTECTION

FPD101 SCALE: 1/8" = 1'-0"

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161 Leverington Ave, Suite 105
Philadelphia, PA 19127
p: 215 482 7440
f: 215 482 7441
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SchraderGroup Architecture
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MALVERN, PA 19355

ISSUED FOR:

NO.	DESCRIPTION	DATE

DATE: 03/03/2023

SG PROJECT NUMBER: 22-025

Key Plan:

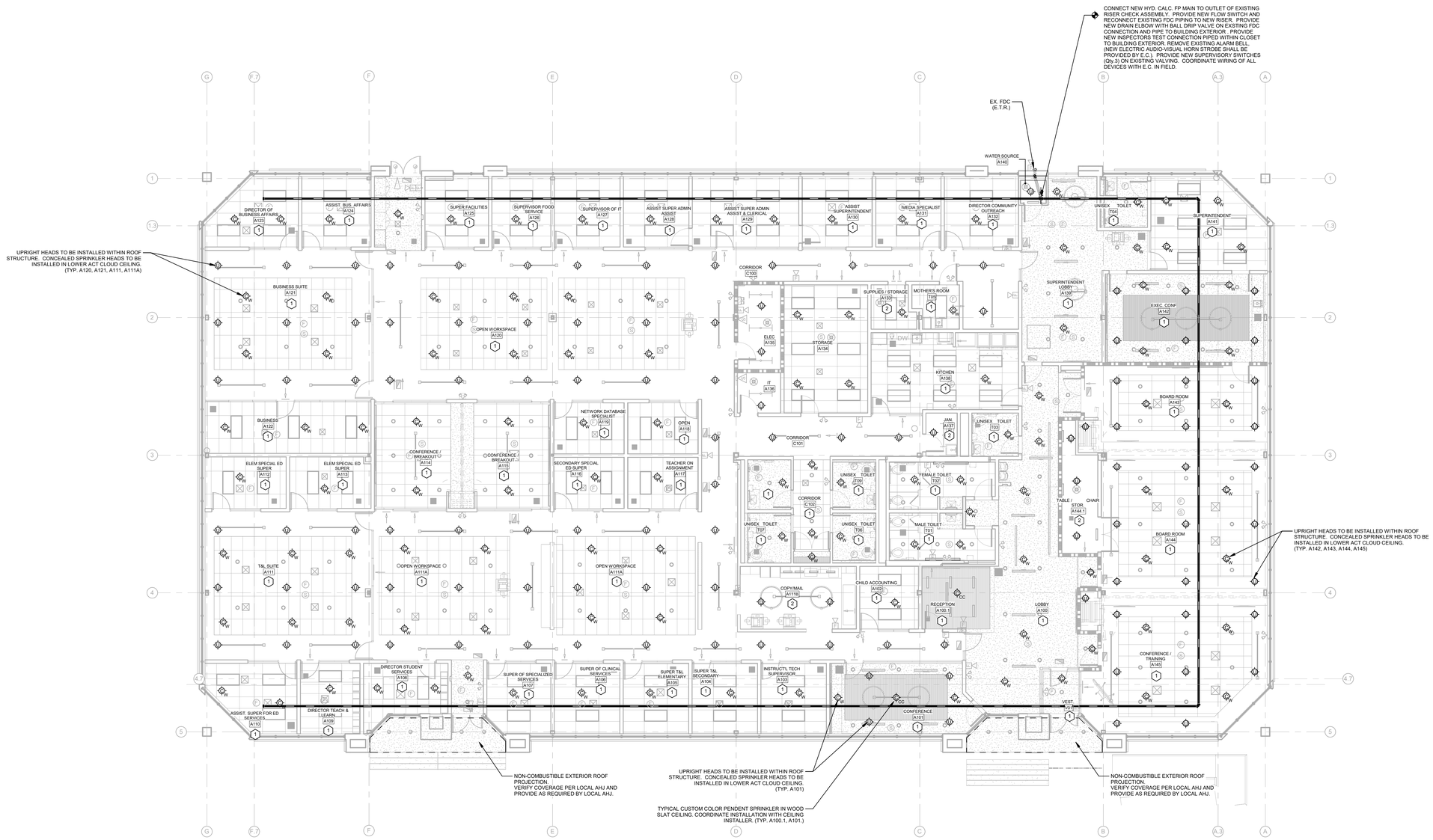
Drawing Title:
FIRST FLOOR PLAN - DEMOLITION - FIRE PROTECTION

Drawing Number:
FPD101

True Project

0' 2' 4' 8' 16' 24'

CONFORMED DRAWINGS

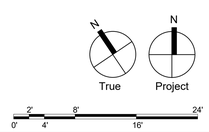


1 FIRST FLOOR PLAN - FIRE PROTECTION

FP101 SCALE: 1/8" = 1'-0"

NOTE: ALL SPRINKLERS INSTALLED WITHIN 2'-6" OF ANY SUPPLY AIR DIFFUSER SHALL BE OF THE "INTERMEDIATE" TEMPERATURE RATING. FPC SHALL VERIFY ALL LOCATIONS AND PROVIDE INTERMEDIATE TEMPERATURE HEADS IN ACCORDANCE WITH NFPA-13.

NOTE: PER TOWNSHIP ORDINANCE ALL SPRINKLER TEST CONNECTIONS AND DRAINS SHALL DISCHARGE TO THE BUILDING EXTERIOR. DISCHARGE OF SPRINKLER TEST CONNECTIONS AND DRAINS TO SANITARY SEWER CONNECTIONS IS PROHIBITED.



CONFORMED DRAWINGS

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Key Plan:

Drawing Title:
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Drawing Number:
FP101