RENOVATIONS OF

BAYWOOD TECHNOLOGY & COMMUNITY CENTER

247 Grammer Lane
Baywood, VA. 24333

10/25/2021 - CONSTRUCTION DOCUMENTS

ABBREVIATIONS

Abbreviation	ABBREV	TERM
A		
A	&, +	AND
A	@	AT
A	A/C	AIR CONDITIONING
A	A/V	AUDIO/VISUAL
A	AB	ANCHOR BOLT
A	ACC	ACCESSIBLE
A	ACOUST	ACOUSTICAL
A	ACT	ACOUSTIC CEILING TILE
A	AD	AREA DRAIN
A	ADJ	ADJACENT, ADJUSTABLE
A	AFF	ABOVE FINISHED FLOOR
A	AFG	ABOVE FINISHED GRADE
A	AGGR	AGGREGATE
A	ALT	ALTERNATE
A	ALUM	ALUMINUM
A	ANOD	ANODIZED
A	APC	ACOUSTICAL PANEL CEILING
A	APPROX	APPROXIMATE
A	ARCH	ARCHITECTURAL
A	ASPH	ASPHALT
A	ATTN	ATTENTION
A	AUTO	AUTOMATIC
B		
B	BCAB	BASE CABINET
B	BD	BOARD
B	BG	BUMPER GUARD
B	BIT	BITUMINOUS
B	BL	BED LOCATOR; BUILDING LINE
B	BLDG	BUILDING
B	BLK	BLOCK
B	BLKG	BLOCKING
B	BM	BEAM
B	BO	BOTTOM OF
B	BOT	BOTTOM
B	BRG	BEARING
B	BRK	BRICK
B	BRKT	BRACKET
B	BSMNT	BASEMENT
B	BUR	BUILT-UP ROOFING
C		
C	C	CHANNEL
C	C,C	CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED
C	CAB	CABINET
C	CAT	CATEGORY
C	CATV	CABLE TELEVISION
C	CB	CATCH BASIN, CEMENT BOARD
C	CBU	CEMENTITIOUS BACKER UNIT
C	CC	CENTER-TO-CENTER
C	CCTV	CLOSED-CIRCUIT TELEVISION
C	CEM	CEMENT
C	CER	CERAMIC
C	CG	CORNER GUARD
C	CH	CHILLER
C	CI	CAST IRON
C	CIP	CAST-IN-PLACE
C	CJ	CONTROL JOINT, CONSTRUCTION JOINT
C	CL	CENTERLINE
C	CLG	CEILING
C	CLR	CLEAR
C	CMU	CONCRETE MASONRY UNIT
C	CNTR	CENTER, COUNTER
C	CO	CASED OPENING; CLEANOUT
C	COL	COLUMN
C	CONC	CONCRETE
C	COND	CONDITION
C	CONN	CONNECTION
C	CONST	CONSTRUCTION
C	CONT	CONTINUOUS
C	CONTR	CONTRACTOR
C	COORD	COORDINATE
C	CORR	CORRIDOR
C	CPT	CARPET
C	CR	CRASH RAIL
C	CSS	CLINICAL SERVICE SINK
C	CT	CERAMIC TILE
C	CTR	CENTER
C	CTSK	COUNTERSUNK
C	CW	COLD WATER; CURTAIN WALL
D		
D	D	DEEP, DEPTH
D	DBL	DOUBLE
D	DEG	DEGREE
D	DEMO	DEMOLISH; DEMOLITION
D	DEPT	DEPARTMENT
D	DF	DRINKING FOUNTAIN
D	DIA	DIAMETER
D	DIFF	DIFFUSER
D	DIM	DIMENSION
D	DIMS	DIMENSIONS
D	DISP	DISPENSER
D	DIV	DIVISION
D	DMPF	DAMP PROOFING
D	DN	DOWN
D	DO	DOOR OPENING
D	DR	DOOR
D	DRN	DRAIN
D	DS	DOWNSPOUT
D	DTL	DETAIL
D	DW	DISHWASHER
D	DWG	DRAWING
D	DWMS	DRYWALL METAL STUD

ABBREVIATIONS

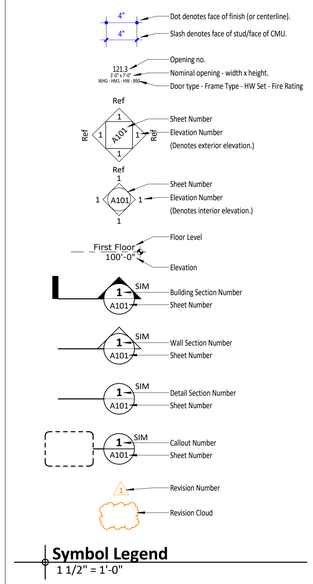
Abbreviation	ABBREV	TERM
D	DWR	DRAWER
E		
E	E	EAST
E	EA	EACH
E	EB	EXPANSION BOLT
E	EJ	EXPANSION JOINT
E	EL	ELEVATION
E	ELEC	ELECTRICAL
E	ELEV	ELEVATOR, ELEVATION
E	EMER	EMERGENCY
E	ENCL	ENCLOSURE
E	ENGR	ENGINEER
E	EP	ELECTRICAL PANEL
E	EPDM	ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING)
E	EQ	EQUAL
E	EQUIP	EQUIPMENT
E	EXH	EXHAUST
E	EXIST	EXISTING
E	EXP	EXPANSION
E	EXT	EXTERIOR
F		
F	FA	FIRE ALARM
F	FB	FACE BRICK
F	FD	FLOOR DRAIN; FIRE DEPARTMENT
F	FDC	FIRE DEPARTMENT CONNECTION
F	FE	FIRE EXTINGUISHER
F	FEC	FIRE EXTINGUISHER CABINET
F	FF&E	FURNITURE, FIXTURES AND EQUIPMENT
F	FFB	FLUSH FLOOR BOX
F	FFE	FINISH FLOOR ELEVATION
F	FH	FLAT HEAD, FIRE HYDRANT
F	FHC	FIRE HOSE CABINET
F	FIN	FINISH
F	FIXT	FIXTURE
F	FLASH	FLASHING
F	FLR	FLOOR
F	FLUOR	FLUORESCENT
F	FND	FOUNDATION
F	FO	FACE OF
F	FP	FIRE PROTECTION
F	FPG	FIREPROOFING
F	FR	FIRE RESISTANT
F	FRC	FIBER REINFORCED CONCRETE
F	FRP	FIBER REINFORCED PANEL
F	FRT	FIRE RETARDANT TREATED
F	FT	FEET; FOOT
F	FTG	FOOTING
F	FURN	FURNITURE
F	FURR	FURRING
F	FWC	FABRIC WALL COVERING
F	FWP	FABRIC WRAPPED PANEL
G		
G	GA	GAUGE
G	GALV	GALVANIZED
G	GB	GRAB BAR
G	GB, GWB	GYPSUM (WALL) BOARD
G	GC	GENERAL CONTRACT(OR)
G	GEN	GENERAL
G	GFRC	GLASS FIBER REINFORCED CONCRETE
G	GL	GLASS
G	GLAZ	GLAZING
G	GRAN	GRANULAR
G	GRD	GROUND
G	GRFG	GLASS FIBER REINFORCED GYPSUM
G	GSM	GALVANIZED SHEET METAL
G	GV	GAS VALVE
G	GYP	GYPSUM
H		
H	H, HT	HIGH; HEIGHT
H	HB	HOSE BIB
H	HC	ACCESSIBLE
H	HDWD	HARDWOOD
H	HDWR	HARDWARE
H	HGT	HEIGHT
H	HM	HOLLOW METAL
H	HNDRL	HANDRAIL
H	HO	HOLD OPEN
H	HORIZ	HORIZONTAL
H	HR	HOUR
H	HRC	HOSE REEL CABINET
H	HSS	HOLLOW STRUCTURAL SECTION
H	HTG	HEATING
H	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
H	HW	HOT WATER; HAND WASH
I		
I	ID	INSIDE DIAMETER
I	IN	INCH; INCHES
I	INCAND	INCANDESCENT
I	INCL	INCLUDED; INCLUDING
I	INFO	INFORMATION
I	INSUL	INSULATED; INSULATION
I	INT	INTERIOR
I	INV	INVERT
J		
J	JAN	JANITOR
J	JC	JANITOR'S CLOSET
J	JST	JOIST
J	JT	JOINT
K		
K	K	KIP (1000 POUNDS)
K	KIT	KITCHEN
K	KO	KNOCK OUT
K	KP	KICK PLATE

ABBREVIATIONS

Abbreviation	ABBREV	TERM
K	KSF	KIPS PER SQUARE FOOT
L		
L	LAM	LAMINATE
L	LAV	LAVATORY
L	LB	POUNDS
L	LGMS	LIGHT GAUGE METAL STUD
L	LLH	LONG LEG HORIZONTAL
L	LLV	LONG LEG VERTICAL
L	LT	LIGHT
L	LVT	LUXURY VINYL TILE
M		
M	MAS	MASONRY
M	MAX	MAXIMUM
M	MB	MODIFIED BITUMEN (ROOFING)
M	MECH	MECHANICAL
M	MED	MEDIUM
M	MEMB	MEMBRANE
M	MFR	MANUFACTURER
M	MH	MANHOLE
M	MIN	MINIMUM
M	MISC	MISCELLANEOUS
M	MO	MASONRY OPENING
M	MR	MOISTURE RESISTANT
M	MTD	MOUNTED
M	MTG	MOUNTING
M	MTL	METAL
M	MULL	MULLION
N		
N	N	NORTH
N	N/A	NOT APPLICABLE
N	NC	NOISE CRITERIA
N	NIC	NOT IN CONTRACT
N	NO	NUMBER
N	NOM	NOMINAL
N	NTS	NOT TO SCALE
O		
O	O,C	OWNER-FURNISHED, CONTRACTOR-INSTALLED
O	O,O	OWNER-FURNISHED, OWNER-INSTALLED
O	O/C	ON CENTER
O	OA	OUTSIDE AIR
O	OD	OUTSIDE DIAMETER; OVERFLOW DRAIN
O	OD	OVERFLOW DRAIN
O	OFF	OFFICE
O	OH	OVERHEAD
O	OPNG	OPENING
O	OPP	OPPOSITE
O	ORD	OVERFLOW ROOF DRAIN
P		
P	P	PAINT
P	PAV	PAVING
P	PB	PARTICLE BOARD
P	PC	PRECAST
P	PDF	POWER DRIVEN FASTENER
P	PEMB	PRE-ENGINEERED METAL BUILDING
P	PERF	PERFORATED
P	PERIM	PERIMETER
P	PERP	PERPENDICULAR
P	PI.	PLATE
P	PLAM	PLASTIC LAMINATE
P	PLAS	PLASTER
P	PLBG	PLUMBING
P	PLF	POUNDS PER LINEAL FOOT
P	PLYWD	PLYWOOD
P	PNL	PANEL
P	PNT	PAINT; PAINTED
P	POL	POLISHED
P	PR	PAIR
P	PREFAB	PREFABRICATED
P	PROJ	PROJECT
P	PSF	POUNDS PER SQUARE FOOT
P	PT	POINT; PRESSURE-TREATED
P	PTD	PAINTED
P	PTN	PARTITION
P	PVC	POLYVINYL CHLORIDE
Q		
Q	QT	QUARRY TILE
Q	QTY	QUANTITY
R		
R	R	RADIUS; RISER
R	RA	RETURN AIR
R	RAD	RADIUS
R	RB	RESILIENT BASE
R	RBR	RUBBER
R	RCP	REFLECTED CEILING PLAN
R	RD	ROOF DRAIN
R	REC	RECESSED
R	RECPT	RECEPTACLE
R	REF	REFERENCE
R	REFR	REFRIGERATOR
R	REG	REGISTER
R	REINF	REINFORCED; REINFORCING
R	REL	RELOCATE
R	REM	REMOVABLE
R	REQ	REQUIRE; REQUIRED
R	REQD	REQUIRED
R	RESIL	RESILIENT
R	REV	REVISION; REVISED
R	RM	ROOM
R	RO	ROUGH OPENING
R	RTD	RATED
R	RTG	RATING

ABBREVIATIONS

Abbreviation	ABBREV	TERM
R	RTU	ROOF TOP UNIT
S		
S	S	SOUTH
S	SA	SUPPLY AIR
S	SAF	SELF-ADHERED FLASHING
S	SCHED	SCHEDULE
S	SCW	SOLID CORE WOOD
S	SD	STORM DRAIN
S	SECT	SECTION
S	SF	SQUARE FEET; SQUARE FOOT
S	SH	SPRINKLER HEAD
S	SHR	SHOWER
S	SHT	SHEET
S	SIM	SIMILAR
S	SM	SHEET METAL; SURFACE-MOUNTED
S	SP	STANDPIPE
S	SPEC	SPECIFICATION; SPECIFIED
S	SPK	SPRINKLER OR SPEAKER
S	SPKR	SPEAKER
S	SQ	SQUARE
S	SS	STAINLESS STEEL
S	SSK	SERVICE SINK
S	STA	STATION
S	STC	SOUND TRANSMISSION COEFFICIENT
S	STL	STEEL
S	STOR	STORAGE
S	STRG	STRINGER
S	STRUCT	STRUCTURE; STRUCTURAL
S	SUBCAT	SUBCATEGORY
S	SUSP	SUSPENDED
S	SYM	SYMMETRICAL
S	SYS	SYSTEM
T		
T	T	TREAD
T	T&B	TOP AND BOTTOM
T	T&G	TONGUE AND GROOVE
T	TB	TOWEL BAR
T	TEL	TELEPHONE; TELECOM
T	TELE	TELEPHONE
T	TEMP	TEMPERATURE; TEMPORARY
T	TEMP	TEMPORARY
T	THK	THICKNESS
T	THRU	THROUGH
T	TKBD	TACK BOARD
T	TLT	TOILET
T	TMPD	TEMPERED
T	TO	TOP OF
T	TOB	TOP OF BEAM
T	TOC	TOP OF CONCRETE
T	TOS	TOP OF STEEL
T	TV	TELEVISION
T	TYP	TYPICAL
U		
U	UNFIN	UNFINISHED
U	UNO	UNLESS NOTED OTHERWISE
U	UON	UNLESS OTHERWISE NOTED
U	URNL	URINAL
V		
V	VAR	VARIES
V	VCT	VINYL COMPOSITION TILE
V	VERT	VERTICAL
V	VEST	VESTIBULE
V	VIF	VERIFY IN FIELD
V	VP	VISION PANEL
V	VR	VAPOR RETARDER
V	VWC	VINYL WALL COVERING
W		
W	W	WIDE; WEST
W	W/	WITH
W	W/O	WITHOUT
W	WC	WATER CLOSET
W	WD	WOOD
W	WIN	WINDOW
W	WP	WATERPROOF; WATERPROOFING
W	WPM	WATERPROOF MEMBRANE
W	WS	WEATHER-STRIPPING
W	WSCT	WAINSCOT
W	WT	WEIGHT
W	WV	WATER VALVE
W	WWF	WELDED WIRE FABRIC
W	WWM	WELDED WIRE MESH



Symbol Legend
1 1/2" = 1'-0"

CONTACT INFORMATION

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PLUMBING
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SHEET LIST

WM2A ARCHITECTS
WM2A.COM
403B NORTH MAIN ST
HILLSVILLE, VA 24343

Seal:

Renovations of
Baywood Technology & Community Center
Address
Address

B.E.C.I.
SOLUTIONS BY DESIGN

Beekman Point ENGINEERING

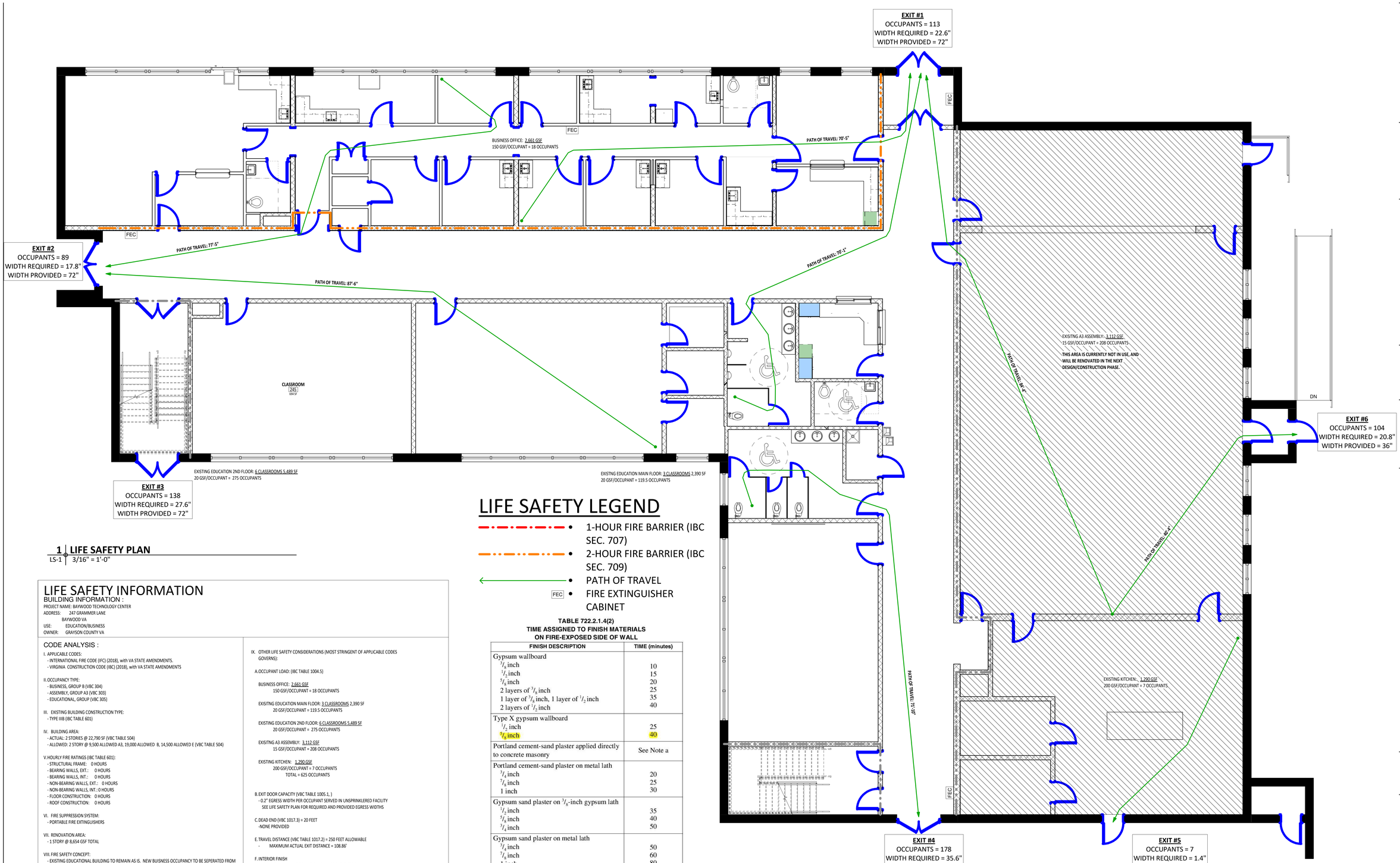
Project Status:
Working Drawings
Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21
Drawing Name:

Cover Sheet

Drawing No:
G0-0

Plotted: 10/29/2021 9:41:21 AM



1 LIFE SAFETY PLAN
LS-1 | 3/16" = 1'-0"

LIFE SAFETY LEGEND

- 1-HOUR FIRE BARRIER (IBC SEC. 707)
- 2-HOUR FIRE BARRIER (IBC SEC. 709)
- PATH OF TRAVEL
- FEC FIRE EXTINGUISHER CABINET

LIFE SAFETY INFORMATION

BUILDING INFORMATION :
PROJECT NAME: BAYWOOD TECHNOLOGY CENTER
ADDRESS: 247 GRAMMER LANE
BAYWOOD VA
USE: EDUCATION/BUSINESS
OWNER: GRAYSON COUNTY VA

CODE ANALYSIS :

I. APPLICABLE CODES:
- INTERNATIONAL FIRE CODE (IFC) (2018), with VA STATE AMENDMENTS.
- VIRGINIA CONSTRUCTION CODE (IBC) (2018), with VA STATE AMENDMENTS

II. OCCUPANCY TYPE:
- BUSINESS, GROUP B (VBC 304)
- ASSEMBLY, GROUP A3 (VBC 303)
- EDUCATIONAL, GROUP (VBC 305)

III. EXISTING BUILDING CONSTRUCTION TYPE:
- TYPE IIIB (IBC TABLE 601)

IV. BUILDING AREA:
- ACTUAL: 2 STORIES @ 22,790 SF (VBC TABLE 504)
- ALLOWED: 2 STORY @ 9,500 ALLOWED A3, 19,000 ALLOWED B, 14,500 ALLOWED E (VBC TABLE 504)

V. HOURLY FIRE RATINGS (IBC TABLE 601):
- STRUCTURAL FRAME: 0 HOURS
- BEARING WALLS, EXT.: 0 HOURS
- BEARING WALLS, INT.: 0 HOURS
- NON-BEARING WALLS, EXT.: 0 HOURS
- NON-BEARING WALLS, INT.: 0 HOURS
- FLOOR CONSTRUCTION: 0 HOURS
- ROOF CONSTRUCTION: 0 HOURS

VI. FIRE SUPPRESSION SYSTEM:
- PORTABLE FIRE EXTINGUISHERS

VII. RENOVATION AREA:
- 1 STORY @ 8,654 GSF TOTAL

VIII. FIRE SAFETY CONCEPT:
- EXISTING EDUCATIONAL BUILDING TO REMAIN AS IS. NEW BUISNESS OCCUPANCY TO BE SEPERATED FROM REMAINING EDUCATIONAL SPACE BY 2 HR WALLS PER 508.4 ENTIRE FACILITY TO RECEIVE NEW FIRE ALARM PER VBC 907.2.3

IX. OTHER LIFE SAFETY CONSIDERATIONS (MOST STRINGENT OF APPLICABLE CODES GOVERNS):

A. OCCUPANT LOAD: (IBC TABLE 1004.5)

BUSINESS OFFICE: 2,661 GSF
150 GSF/OCCUPANT = 18 OCCUPANTS

EXISITNG EDUCATION MAIN FLOOR: 3 CLASSROOMS 2,390 SF
20 GSF/OCCUPANT = 119.5 OCCUPANTS

EXISTING EDUCATION 2ND FLOOR: 6 CLASSROOMS 5,489 SF
20 GSF/OCCUPANT = 275 OCCUPANTS

EXISITNG A3 ASSEMBLY: 3,112 GSF
15 GSF/OCCUPANT = 208 OCCUPANTS

EXISTING KITCHEN: 1,290 GSF
200 GSF/OCCUPANT = 7 OCCUPANTS
TOTAL = 625 OCCUPANTS

B. EXIT DOOR CAPACITY (VBC TABLE 1005.1.)
- 0.2" EGRESS WIDTH PER OCCUPANT SERVED IN UNSPRINKLERED FACILITY
SEE LIFE SAFETY PLAN FOR REQUIRED AND PROVIDED EGRESS WIDTHS

C. DEAD END (VBC 1017.3) = 20 FEET
-NONE PROVIDED

E. TRAVEL DISTANCE (VBC TABLE 1017.2) = 250 FEET ALLOWABLE
- MAXIMUM ACTUAL EXIT DISTANCE = 108.86'

F. INTERIOR FINISH
1. INTERIOR WALL AND CEILING FINISH (VBC TABLE 803.5.)
INTERIOR WALL AND CEILING FINISH COMPLYING WITH 10.2.3 SHALL BE AT A MINIMUM REQUIREMENT CLASS A IN EXIT ENCLOSURES AND PASSAGEWAYS, CLASS B IN CORRIDORS, AND CLASS C IN OFFICE AREAS.

2. INTERIOR FLOOR FINISH (VBC 804.4.1) - CLASS II

TABLE 722.2.1.4(2)
TIME ASSIGNED TO FINISH MATERIALS ON FIRE-EXPOSED SIDE OF WALL

FINISH DESCRIPTION	TIME (minutes)
Gypsum wallboard	
3/8 inch	10
1/2 inch	15
5/8 inch	20
2 layers of 3/8 inch	25
1 layer of 3/8 inch, 1 layer of 1/2 inch	35
2 layers of 1/2 inch	40
Type X gypsum wallboard	
1/2 inch	25
5/8 inch	40
Portland cement-sand plaster applied directly to concrete masonry	See Note a
Portland cement-sand plaster on metal lath	
3/4 inch	20
7/8 inch	25
1 inch	30
Gypsum sand plaster on 3/8-inch gypsum lath	
1/2 inch	35
5/8 inch	40
3/4 inch	50
Gypsum sand plaster on metal lath	
3/4 inch	50
7/8 inch	60
1 inch	80

For SI: 1 inch = 25.4 mm.
a. The actual thickness of Portland cement-sand plaster, provided that it is 5/8 inch or less in thickness, shall be permitted to be included in determining the equivalent thickness of the masonry for use in Table 722.3.2.

TABLE 722.4.1(1)
FIRE-RESISTANCE PERIODS OF CLAY MASONRY WALLS

MATERIAL TYPE	MINIMUM REQUIRED EQUIVALENT THICKNESS FOR FIRE RESISTANCE[a, b, c] (inches)			
	1 hour	2 hours	3 hours	4 hours
Solid brick of clay or shale[d]	2.7	3.8	4.9	6.0
Hollow brick or tile of clay or shale, unfilled	2.3	3.4	4.3	5.0
Hollow brick or tile of clay or shale, grouted or filled with materials specified in Section 722.4.1.1.3	3.0	4.4	5.5	6.6

For SI: 1 inch = 25.4 mm.
a. Equivalent thickness as determined from Section 722.4.1.1.
b. Calculated fire resistance between the hourly increments listed shall be determined by linear interpolation.
c. Where combustible members are framed in the wall, the thickness of solid material between the end of each member and the opposite face of the wall, or between members set in from opposite sides, shall be not less than 93 percent of the thickness shown.
d. For units in which the net cross-sectional area of cored brick in any plane parallel to the surface containing the cores is not less than 75 percent of the gross cross-sectional area measured in the same plane.

TABLE 722.2.2.1
MINIMUM SLAB THICKNESS (inches)

CONCRETE TYPE	FIRE-RESISTANCE RATING (hours)				
	1	1 1/2	2	3	4
Siliceous	3.5	4.3	5	6.2	7
Carbonate	3.2	4	4.6	5.7	6.6
Sand-lightweight	2.7	3.3	3.8	4.6	5.4
Lightweight	2.5	3.1	3.6	4.4	5.1

For SI: 1 inch = 25.4 mm.

PARTITION TYPE LEGEND

WALL TYPES
- C CMU (MAY HAVE FURRING)
- G GYPSUM BOARD WITH METAL STUDS
- S SHAFTWALL
- W GYPSUM BOARD WITH WOOD STUDS

WALL TYPE
STUD/CMU WIDTH
WALL TYPE MODIFIER
FIRE RATING OR PARTITION HEIGHT
G 3 A 0

SYMBOL DESIGNATION
FOR WALL TYPES INDICATED TO RECEIVE SOUND ATTENUATION, EXTEND SOUND ATTENUATION TO FULL HEIGHT OF WALL UNLESS OTHERWISE INDICATED. REFER TO INDIVIDUAL WALL TYPE MODIFIER FOR STC RATINGS.
XIIXII — WITH SOUND ATTENUATION
XIIXII — NO SOUND ATTENUATION

STUD/CMU WIDTH

#	CMU	METAL	WOOD
0		0 7/8"	
1		1 5/8"	1x4
2		2 1/2"	
3		3 5/8"	
4	3 5/8"	4"	2x4
5			
6	5 5/8"	6"	2x6
7			
8	7 5/8"	8"	2x8
12	11 5/8"		

WALL TYPE MODIFIER
- A. 5/8" GYP BD EA SIDE. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- B. 5/8" GYP BD EA SIDE - UL DESIGN U419. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- C. 5/8" GYP BD (X 2 LAYERS) EA SIDE - UL DESIGN U419. (NO SAB = STC 50; W/R-11 SAB = STC 53)
- D. 1" GYP BD SHAFT SIDE; 1/2" GYP BD (X 2 LAYERS) OPP SIDE - UL DESIGN U438. (NO SAB = STC 38; W/3-INCH MIN FIBER = STC 50.
- E. 5/8" GYP BD - EXPOSED SIDE ONLY.
- F. NO SHEATHING ON CMU.
- G. 5/8" GYP BD ON 7/8" HAT CHNL - EACH SIDE OF CMU.
- H. 5/8" GYP BD ON 7/8" HAT CHNL - EXPOSED SIDE OF CMU.

FIRE RATING OR PARTITION HEIGHT
- 0 NON-RATED; EXTEND FINISH 6-INCHES ABOVE CEILING.
- F NON-RATED; FULL HEIGHT TO STRUCTURE.
- S NON-RATED SMOKE PARTITION
- B 1 HOUR RATED FIRE/SMOKE BARRIER
- C 2 HOUR RATED FIRE/SMOKE BARRIER
- 1 1 HOUR RATED FIRE PARTITION
- 2 2 HOUR RATED FIRE BARRIER
- H EXTEND CMU TO NEXT FULL COURSE ABOVE CEILING (4-INCH MINIMUM ABOVE CEILING).
- X SEE BLDG SECTION/ELEVATION FOR HEIGHT.

WALL HATCH PATTERN LEGEND
- NON-RATED METAL STUD PARTITION
- NON-RATED SMOKE PARTITION
- 1 HOUR RATED FIRE PARTITION
- 2 HOUR RATED FIRE BARRIER
- 1 HOUR RATED FIRE/SMOKE BARRIER
- 2 HOUR RATED FIRE/SMOKE BARRIER
- NON RATED MASONRY
- 1 HOUR RATED MASONRY FIRE BARRIER (UL# U905)
- 2 HOUR RATED MASONRY FIRE BARRIER (UL# U905)

LEGEND - WALL TYPES - HORIZONTAL
1 1/2" = 1'-0"

SCALE: 3/16" = 1'-0"
0' 4' 8' 16' 32'

WM2A ARCHITECTS
WM2A.COM
403B NORTH MAIN ST
HILLSVILLE, VA 24343

Seal:
COMMONWEALTH OF VIRGINIA
VINCENT KYLE POWERS
Lic. No. 0401017008
ARCHITECT

Renovations of
Baywood Technology & Community Center
Address
Address

B.E.C.I.
SOLUTIONS BY DESIGN
Beekman Point ENGINEERING

Project Status:
Working Drawings
Revision No (if any): Revision Date:
Project No: Current Date:
2021-003 10/25/21
Drawing Name:
Life Safety Plan and Information
Drawing No:
LS-1

Plotted: 10/29/2021 9:41:26 AM

1 Floor Plan - Level 1 Area Plan

A1-0 3/16" = 1'-0"

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WM2A.COM
403B NORTH MAIN ST
HILLSVILLE, VA 24343

Seal:

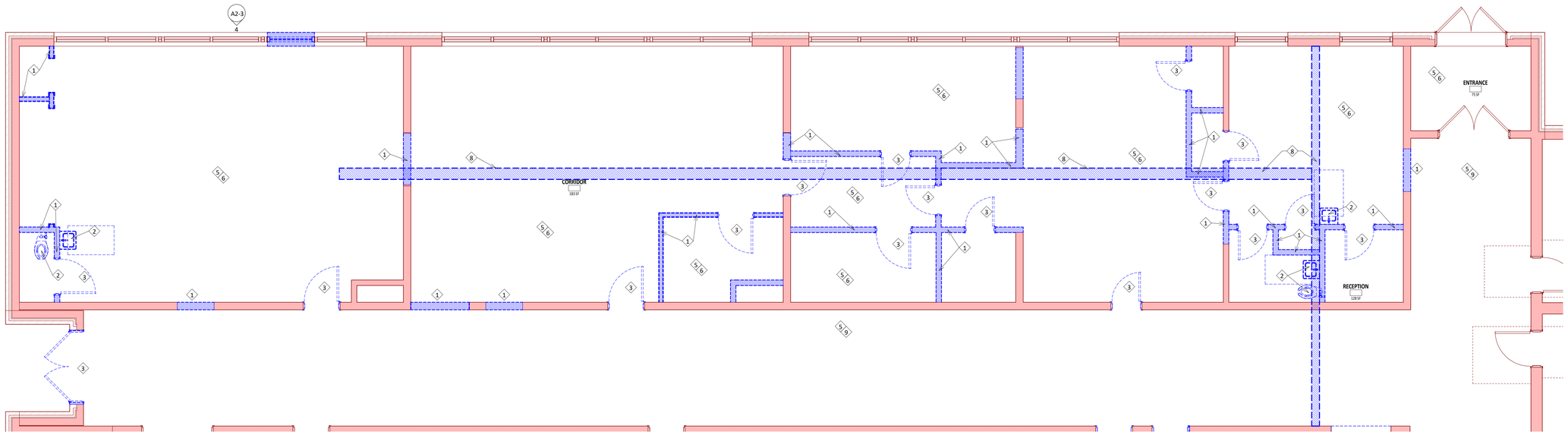
Renovations of
Baywood Technology & Community Center

Address
Address

B.E.C.I.
SOLUTIONS BY DESIGN
Beekman Point ENGINEERING

Project Status: Working Drawings
Revision No (if any): Revision Date:
Project No: 2021-003
Current Date: 10/25/21
Drawing Name: **Area Plan**
Drawing No: **A1-0**

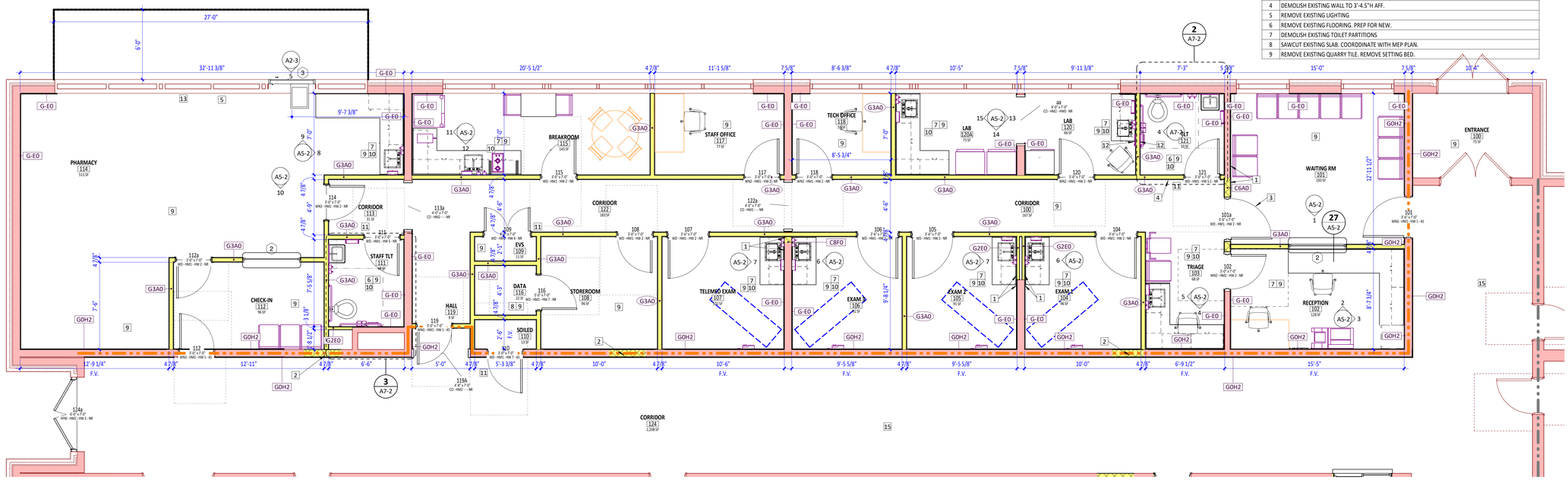
Printed: 10/28/2021 8:49:13 AM



1 First Floor Plan - Phase 1.1 Demolition

A1-1 1/4" = 1'-0"

KEYNOTES - DEMOLITION - FLOOR PLANS	
NO.	DESCRIPTION
1	DEMOLISH EXISTING WALL
2	EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. CAP LINES AS REQUIRED.
3	EXISTING DOOR AND FRAME TO BE DEMOLISHED.
4	DEMOLISH EXISTING WALL TO 3'-4.5"H AFF.
5	REMOVE EXISTING LIGHTING
6	REMOVE EXISTING FLOORING. PREP FOR NEW.
7	DEMOLISH EXISTING TOILET PARTITIONS
8	SAWCUT EXISTING SLAB. COORDDINATE WITH MEP PLAN.
9	REMOVE EXISTING QUARRY TILE. REMOVE SETTING BED.



2 First Floor Plan - Phase 1.1 New Work

A1-1 1/4" = 1'-0"

KEYNOTES - NEW WORK - FLOOR PLANS	
NO.	DESCRIPTION
1	ALIGN NEW WALL WITH EXISTING
2	INFILL WALL TO MATCH EXISTING CONSTRUCTION.
3	PROVIDE SOUND SEALS FOR DOOR.
4	REMOTE WATER SHUT OFF
5	PROVIDE WINDOW SPEAKER
6	INSTALL NEW PLUMBING FIXTURES
7	INSTALL NEW CASEWORK
8	PROVIDE 4X8 SHEET OF DEDICATED PLYWOOD FOR MOUNTING DATA EQUIPMENT
9	PREPARE ROOM FOR NEW FINISHES, AND INSTALL NEW FINISHES AS SCHEDULED.

KEYNOTES - NEW WORK - FLOOR PLANS	
NO.	DESCRIPTION
10	INSTALL EQUIPMENT AND ACCESSORIES
11	PROVIDE NEW DOOR SIGNAGE
12	INSTALL NEW PASS THROUGH CABINET.
13	INSTALL NEW COOKSON (TM) MOTOR OPERATED, BRICK PATTERN, ROLLING GRILLE, WALL MOUNTED SECURITY GATE ABOVE CEILING AT PHARMACY WINDOW. SECURITY GATE TO COVER THE ENTIRE GLAZING SYSTEM. SEE MANUFACTURER SPECIFICATIONS FOR MOUNTING INSTRUCTIONS AND CEILING SPACING REQUIREMENTS
14	INSTALL NEW ADA HI-LO DRINKING FOUNTAIN
15	INSTALL NEW TOPPING COAT, AND INSTALL NEW LVT

PARTITION TYPE LEGEND

WALL TYPES

- C CMU (MAY HAVE FURRING)
- G GYPSUM BOARD WITH METAL STUDS
- S SHAFTWALL
- W GYPSUM BOARD WITH WOOD STUDS

WALL TYPE / STUD/CMU WIDTH / WALL TYPE MODIFIER / FIRE RATING OR PARTITION HEIGHT

G 3 A 0

SYMBOL DESIGNATION

FOR WALL TYPES INDICATED TO RECEIVE SOUND ATTENUATION, EXTEND SOUND ATTENUATION TO FULL HEIGHT OF WALL UNLESS OTHERWISE INDICATED. REFER TO INDIVIDUAL WALL TYPE MODIFIER FOR STC RATINGS.

XRXR — WITH SOUND ATTENUATION

XRXR — NO SOUND ATTENUATION

WALL HATCH PATTERN LEGEND

- NON-RATED METAL STUD PARTITION
- NON-RATED SMOKE PARTITION
- 1 HOUR RATED FIRE PARTITION
- 2 HOUR RATED FIRE BARRIER
- 1 HOUR RATED FIRE/SMOKE BARRIER
- 2 HOUR RATED FIRE/SMOKE BARRIER
- NON RATED MASONRY
- 1 HOUR RATED MASONRY FIRE BARRIER (UL# U905)
- 2 HOUR RATED MASONRY FIRE BARRIER (UL# U905)

STUD/CMU WIDTH

#	CMU	METAL	WOOD
0		0 7/8"	
1		1 5/8"	1x4
2		2 1/2"	
3		3 5/8"	
4	3 5/8"	4"	2x4
5			
6	5 5/8"	6"	2x6
7			
8	7 5/8"	8"	2x8
12	11 5/8"		

WALL TYPE MODIFIER

- A. 5/8" GYP BD EA SIDE. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- B. 5/8" GYP BD EA SIDE - UL DESIGN U419. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- C. 5/8" GYP BD (X 2 LAYERS) EA SIDE - UL DESIGN U419. (NO SAB = STC 50; W/R-11 SAB = STC 53)
- D. 1" GYP BD SHAFT SIDE; 1/2" GYP BD (X 2 LAYERS) OPP SIDE - UL DESIGN U438. (NO SAB = STC 38; W/3-INCH MIN FIBER = STC 50.
- E. 5/8" GYP BD - EXPOSED SIDE ONLY.
- F. NO SHEATHING ON CMU.
- G. 5/8" GYP BD ON 7/8" HAT CHNL - EACH SIDE OF CMU.
- H. 5/8" GYP BD ON 7/8" HAT CHNL - EXPOSED SIDE OF CMU.

FIRE RATING OR PARTITION HEIGHT

- 0 NON-RATED; EXTEND FINISH 6-INCHES ABOVE CEILING.
- F NON-RATED; FULL HEIGHT TO STRUCTURE.
- S NON-RATED SMOKE PARTITION
- B 1 HOUR RATED FIRE/SMOKE BARRIER
- C 2 HOUR RATED FIRE/SMOKE BARRIER
- 1 1 HOUR RATED FIRE PARTITION
- 2 2 HOUR RATED FIRE BARRIER
- H EXTEND CMU TO NEXT FULL COURSE ABOVE CEILING (4-INCH MINIMUM ABOVE CEILING).
- X SEE BLDG SECTION/ELEVATION FOR HEIGHT.

LEGEND - WALL TYPES - HORIZONTAL

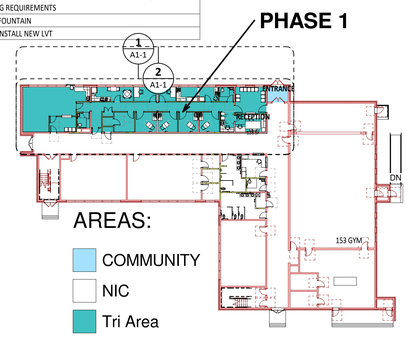
1 1/2" = 1'-0"

DEMOLITION NOTES

A. OWNER IS RESPONSIBLE FOR REMOVING ANY FURNITURE PRIOR TO CONSTRUCTION
B. DEMOLITION PLAN IS NOT ALL INCLUSIVE. ADDITIONAL DEMOLITION WORK MAY BE REQUIRED FOR INSTALLING NEW WORK. SEE MECHANICAL, PLUMBING AND ELECTRICAL DWGS FOR DEMOLITION IN THOSE TRADES. IN AREAS OR ROOMS WHERE ARCHITECTURAL DEMOLITION IS NOT INDICATED AND MECHANICAL, PLUMBING AND ELECTRICAL IS REQUIRED, REMOVE AND REPAIR ANY ITEMS TO ACCOMMODATE WORK REQUIRED AND RESTORE AREA TO ORIGINAL CONDITIONS BEFORE WORK PROCEEDS.
C. PROTECT ALL EXISTING CONDITIONS THAT ARE TO REMAIN, AS NECESSARY, DURING DEMOLITION PHASE OF CONSTRUCTION. REPAIR ALL DAMAGE PROMPTLY TO ORIGINAL CONDITION.
D. DEMOLITION SHALL INCLUDE ANY REMOVAL OF EXISTING MATERIALS TO MAKE PROVISION FOR NEW FINISHES.
E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL EXISTING CONDITIONS. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES AND ANY DISCREPANCIES RECTIFIED BEFORE WORK IS TO RESUME.
F. ALL STRUCTURAL ITEMS THAT SEEM TO BE SUSPECT FOR REPLACEMENT SHALL BE INSPECTED BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER TO DETERMINE IF THEY SHOULD BE REPLACED. ALL STRUCTURAL ITEMS THAT ARE DAMAGED AND NEED REPLACING WILL BE TAGGED BY THE STRUCTURAL ENGINEER AND REPLACED BY THE CONTRACTOR BEFORE ANY OTHER WORK BEGINS
G. ALL DEMOLITION WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST AND DISTURBANCE TO THE OTHER TENANTS.
H. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ALL EXISTING SMOKE AND FIRE PROTECTION SYSTEMS.
I. THE CONTRACTOR SHALL AT ALL TIMES KEEP ALL EXISTING ACCESS/ EGRESS PATHWAYS FREE AND CLEAR OF DEBRIS.

GENERAL FLOOR PLAN NOTES

A. CONTRACTOR TO INSTALL ADA ROOM SIGNAGE AT ALL RESTROOMS, JANITORS CLOSETS, SOILED UTILITY ROOMS, AND OTHER NOTED LOCATIONS. CONTRACTOR TO VERIFY WITH OWNER SIGNAGE TYPE.
B. CONTRACTOR TO PAINT ALL EXTERIOR DOORS AND FRAMES AN EXTERIOR GRADE, SEMI-GLOSS PAINT - COLOR: SHERWIN WILLIAMS GAUNTLET GRAY SW 7019.
C. CONTRACTOR TO CLEAN AND RE-TOUCH UP THE FINISH AS NEEDED OF ALL PHASE 1 EXISTING TO REMAIN INTERIOR DOORS.



5 First Floor Plan - Phase 1 Tri-Area Key Plan

A1-1 1" = 30'-0"

WM2A ARCHITECTS
WM2A.COM
403B NORTH MAIN ST
HILLSVILLE, VA 24343

Seal:

COMMONWEALTH OF VIRGINIA
WENDY KYLE POWERS
Lic. No. 0401017038
ARCHITECT

B.E.C.I.
SOLUTIONS BY DESIGN

Beekman Point ENGINEERING

Renovations of

Baywood Technology & Community Center

Address
Address

Project Status: Working Drawings
Revision No (if any): Revision Date:
Project No: 2021-003 Current Date: 10/25/21
Drawing Name: **First Floor Phase 1 Tri-Area Demo and New Work**
Drawing No: **A1-1**

Printed: 10/29/2021 10:05:28 AM

DEMOLITION NOTES

A. OWNER IS RESPONSIBLE FOR REMOVING ANY FURNITURE PRIOR TO CONSTRUCTION
B. DEMOLITION PLAN IS NOT ALL INCLUSIVE. ADDITIONAL DEMOLITION WORK MAY BE REQUIRED FOR INSTALLING NEW WORK. SEE MECHANICAL, PLUMBING AND ELECTRICAL DWGS FOR DEMOLITION IN THOSE TRADES. IN AREAS OR ROOMS WHERE ARCHITECTURAL DEMOLITION IS NOT INDICATED AND MECHANICAL, PLUMBING AND ELECTRICAL IS REQUIRED, REMOVE AND REPAIR ANY ITEMS TO ACCOMMODATE WORK REQUIRED AND RESTORE AREA TO ORIGINAL CONDITIONS BEFORE WORK PROCEEDS.
C. PROTECT ALL EXISTING CONDITIONS THAT ARE TO REMAIN, AS NECESSARY, DURING DEMOLITION PHASE OF CONSTRUCTION. REPAIR ALL DAMAGE PROMPTLY TO ORIGINAL CONDITION.
D. DEMOLITION SHALL INCLUDE ANY REMOVAL OF EXISTING MATERIALS TO MAKE PROVISION FOR NEW FINISHES.
E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL EXISTING CONDITIONS. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES AND ANY DISCREPANCIES RECTIFIED BEFORE WORK IS TO RESUME.
F. ALL STRUCTURAL ITEMS THAT SEEM TO BE SUSPECT FOR REPLACEMENT SHALL BE INSPECTED BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER TO DETERMINE IF THEY SHOULD BE REPLACED. ALL STRUCTURAL ITEMS THAT ARE DAMAGED AND NEED REPLACING WILL BE TAGGED BY THE STRUCTURAL ENGINEER AND REPLACED BY THE CONTRACTOR BEFORE ANY OTHER WORK BEGINS
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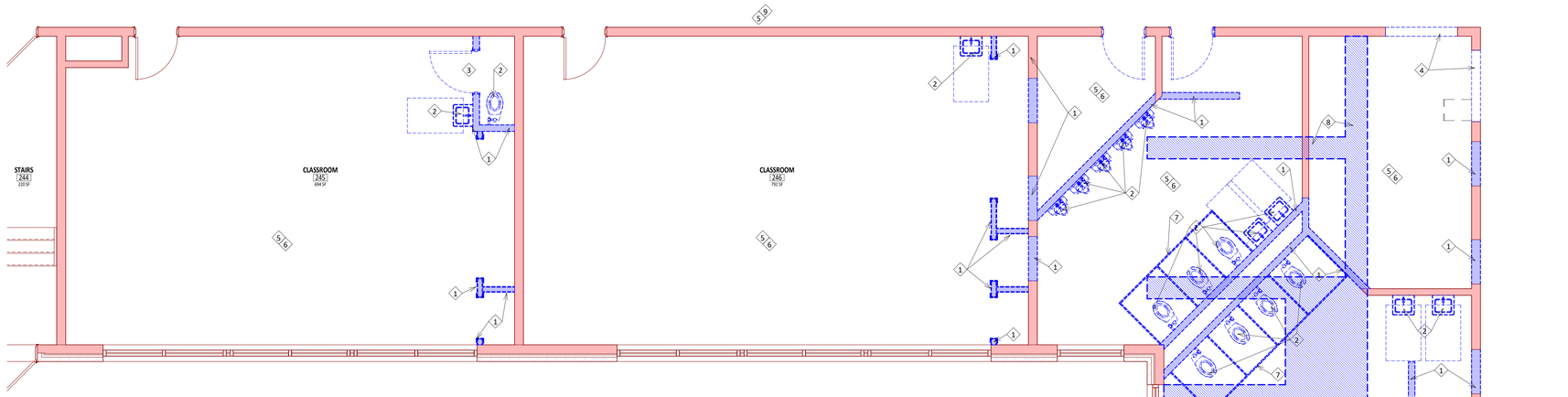
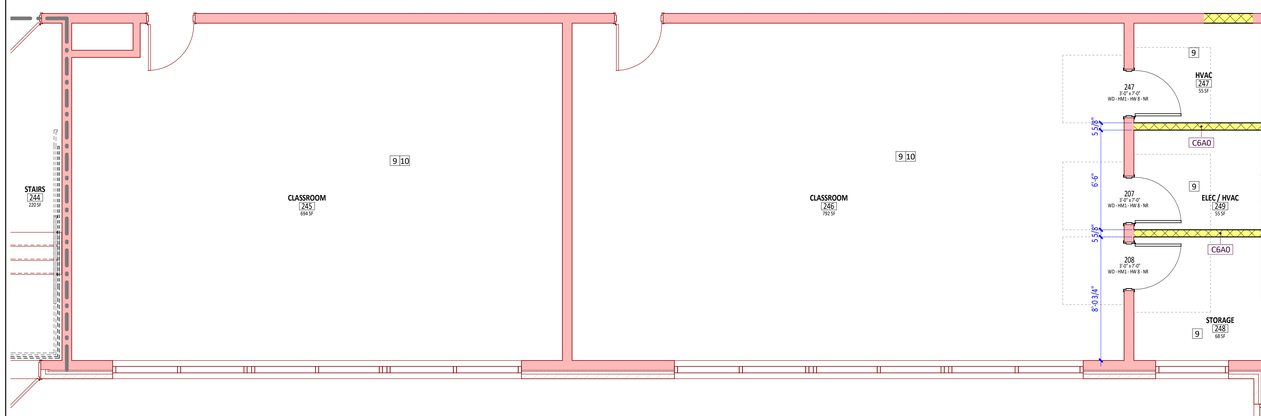
H. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ALL EXISTING SMOKE AND FIRE PROTECTION SYSTEMS.
I. THE CONTRACTOR SHALL AT ALL TIMES KEEP ALL EXISTING ACCESS/ EGRESS PATHWAYS FREE AND CLEAR OF DEBRIS.

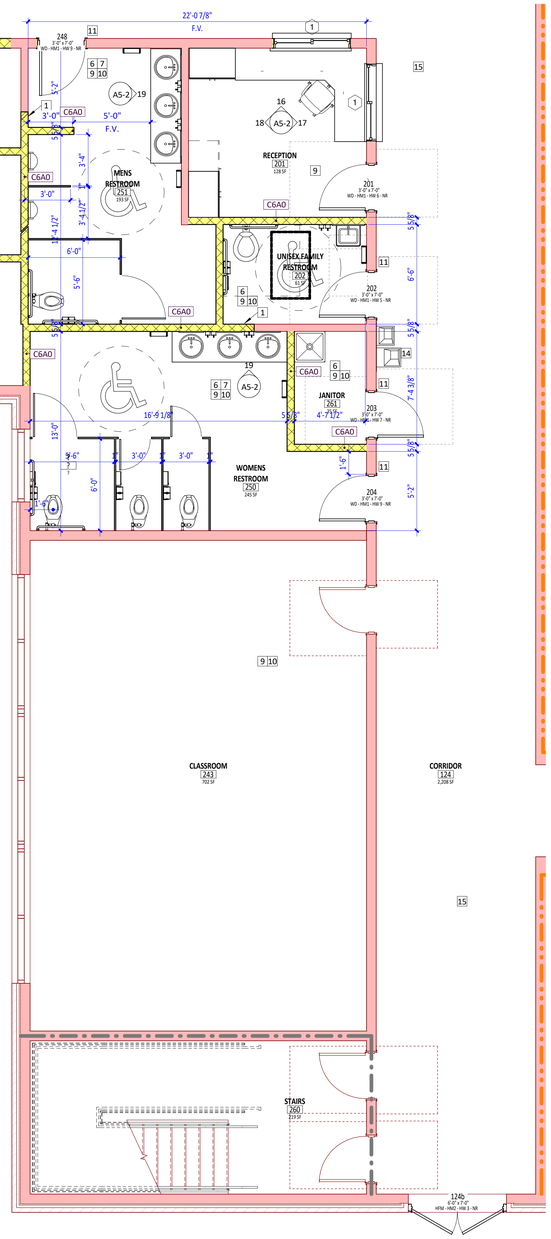
KEYNOTES - DEMOLITION - FLOOR PLANS

NO.	DESCRIPTION
1	DEMOLISH EXISTING WALL
2	EXISTING PLUMBING FIXTURE TO BE DEMOLISHED. CAP LINES AS REQUIRED.
3	EXISTING DOOR AND FRAME TO BE DEMOLISHED.
4	DEMOLISH EXISTING WALL TO 3'-4.5"H AFF.
5	REMOVE EXISTING LIGHTING
6	REMOVE EXISTING FLOORING. PREP FOR NEW.
7	DEMOLISH EXISTING TOILET PARTITIONS
8	SAWCUT EXISTING SLAB. COORDDINATE WITH MEP PLAN.
9	REMOVE EXISTING QUARRY TILE. REMOVE SETTING BED.



1 First Floor Plan - Phase 1 Community Education Demolition
A1-2 1/4" = 1'-0"





2 First Floor Plan - Phase 1 Community Education New Work
A1-2 1/4" = 1'-0"

KEYNOTES - NEW WORK - FLOOR PLANS

NO.	DESCRIPTION
1	ALIGN NEW WALL WITH EXISTING
2	INFILL WALL TO MATCH EXISTING CONSTRUCTION.
3	PROVIDE SOUND SEALS FOR DOOR.
4	REMOTE WATER SHUT OFF
5	PROVIDE WINDOW SPEAKER
6	INSTALL NEW PLUMBING FIXTURES
7	INSTALL NEW CASEWORK
8	PROVIDE 4X8 SHEET OF DEDICATED PLYWOOD FOR MOUNTING DATA EQUIPMENT
9	PREPARE ROOM FOR NEW FINISHES, AND INSTALL NEW FINISHES AS SCHEDULED.
10	INSTALL EQUIPMENT AND ACCESSORIES
11	PROVIDE NEW DOOR SIGNAGE
12	INSTALL NEW PASS THROUGH CABINET.
13	INSTALL NEW COOKSON (TM) MOTOR OPERATED, BRICK PATTERN, ROLLING GRILLE, WALL MOUNTED SECURITY GATE ABOVE CEILING AT PHARMACY WINDOW. SECURITY GATE TO COVER THE ENTIRE GLAZING SYSTEM. SEE MANUFACTURER SPECIFICATIONS FOR MOUNTING INSTRUCTIONS AND CEILING SPACING REQUIREMENTS
14	INSTALL NEW ADA HI-LO DRINKING FOUNTAIN
15	INSTALL NEW TOPPING COAT, AND INSTALL NEW LVT

GENERAL FLOOR PLAN NOTES

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B. CONTRACTOR TO PAINT ALL EXTERIOR DOORS AND FRAMES AN EXTERIOR GRADE, SEMI-GLOSS PAINT - COLOR: SHERWIN WILLIAMS GAUNTLET GRAY SW 7019.
C. CONTRACTOR TO CLEAN AND RE-TOUCH UP THE FINISH AS NEEDED OF ALL PHASE 1 EXISTING TO REMAIN INTERIOR DOORS.

PARTITION TYPE LEGEND

WALL TYPES
C CMU (MAY HAVE FURRING)
G GYPSUM BOARD WITH METAL STUDS
S SHAFTWALL
W GYPSUM BOARD WITH WOOD STUDS

WALL TYPE
STUD/CMU WIDTH
WALL TYPE MODIFIER
FIRE RATING OR PARTITION HEIGHT
G 3 A 0

SYMBOL DESIGNATION
FOR WALL TYPES INDICATED TO RECEIVE SOUND ATTENUATION, EXTEND SOUND ATTENUATION TO FULL HEIGHT OF WALL UNLESS OTHERWISE INDICATED. REFER TO INDIVIDUAL WALL TYPE MODIFIER FOR STC RATINGS.

XWX# WITH SOUND ATTENUATION
XWX# NO SOUND ATTENUATION

WALL HATCH PATTERN LEGEND
NON-RATED METAL STUD PARTITION
NON-RATED SMOKE PARTITION
1 HOUR RATED FIRE PARTITION
2 HOUR RATED FIRE BARRIER
1 HOUR RATED FIRE/SMOKE BARRIER
2 HOUR RATED FIRE/SMOKE BARRIER
NON RATED MASONRY
1 HOUR RATED MASONRY FIRE BARRIER (UL# U905)
2 HOUR RATED MASONRY FIRE BARRIER (UL# U905)

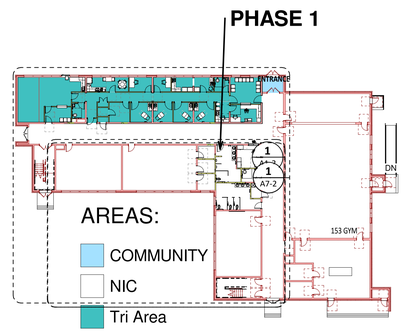
STUD/CMU WIDTH

#	CMU	METAL	WOOD
0		0 7/8"	
1		1 5/8"	1x4
2		2 1/2"	
3		3 5/8"	
4	3 5/8"	4"	2x4
5			
6	5 5/8"	6"	2x6
7			
8	7 5/8"	8"	2x8
12	11 5/8"		

WALL TYPE MODIFIER
A. 5/8" GYP BD EA SIDE. (NO SAB = STC 40; W/R-11 SAB = STC 48)
B. 5/8" GYP BD EA SIDE - UL DESIGN U419. (NO SAB = STC 40; W/R-11 SAB = STC 48)
C. 5/8" GYP BD (X 2 LAYERS) EA SIDE - UL DESIGN U419. (NO SAB = STC 50; W/R-11 SAB = STC 53)
D. 1" GYP BD SHAFT SIDE; 1/2" GYP BD (X 2 LAYERS) OPP SIDE - UL DESIGN U438. (NO SAB = STC 38; W/3-INCH MIN FIBER = STC 50.
E. 5/8" GYP BD - EXPOSED SIDE ONLY.
F. NO SHEATHING ON CMU.
G. 5/8" GYP BD ON 7/8" HAT CHNL - EACH SIDE OF CMU.
H. 5/8" GYP BD ON 7/8" HAT CHNL - EXPOSED SIDE OF CMU.

FIRE RATING OR PARTITION HEIGHT
0 NON-RATED; EXTEND FINISH 6-INCHES ABOVE CEILING.
F NON-RATED; FULL HEIGHT TO STRUCTURE.
S NON-RATED SMOKE PARTITION
B 1 HOUR RATED FIRE/SMOKE BARRIER
C 2 HOUR RATED FIRE/SMOKE BARRIER
1 1 HOUR RATED FIRE PARTITION
2 2 HOUR RATED FIRE BARRIER
H EXTEND CMU TO NEXT FULL COURSE ABOVE CEILING (4-INCH MINIMUM ABOVE CEILING).
X SEE BLDG SECTION/ELEVATION FOR HEIGHT.

LEGEND - WALL TYPES - HORIZONTAL
1 1/2" = 1'-0"



3 First Floor Plan - Phase 1 Community Education Key Plan
A1-2 1" = 30'-0"

WM2A ARCHITECTS
WM2A.COM
403B NORTH MAIN ST
HILLSVILLE, VA 24343

Seal:

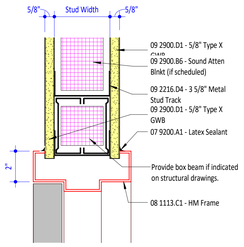
Renovations of
Baywood Technology & Community Center
Address
Address

B.E.C.I.
SOLUTIONS BY DESIGN

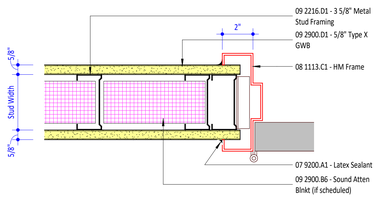
Beekman Point ENGINEERING

Project Status: Working Drawings
Revision No (if any): Revision Date:
Project No: 2021-003 Current Date: 10/25/21
Drawing Name: **First Floor Plan Phase 1 Community Education Demo and New Work**
Drawing No: **A1-2**

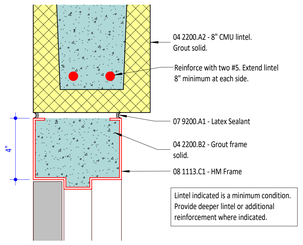
Printed: 10/25/2021 3:40:18 AM



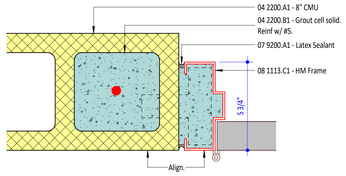
1 Head HA - HM Door Frame (Typ)
A2-2 3" = 1'-0"



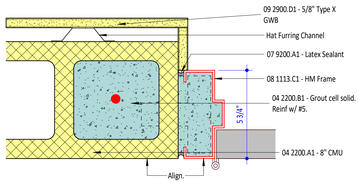
2 Jamb JA - HM Door Frame (Typ)
A2-2 3" = 1'-0"



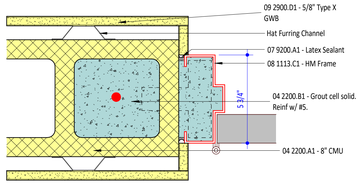
3 Head CA - HM Door Frame (Typ at CMU)
A2-2 3" = 1'-0"



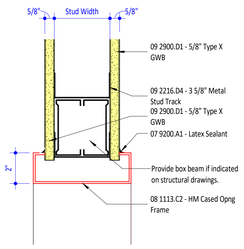
4 Jamb CA - HM Door Frame (Typ at CMU)
A2-2 3" = 1'-0"



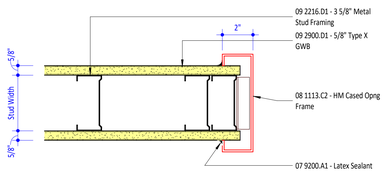
7 Jamb CA - HM Door Frame (Typ at CMU) W/ GWB
A2-2 3" = 1'-0"



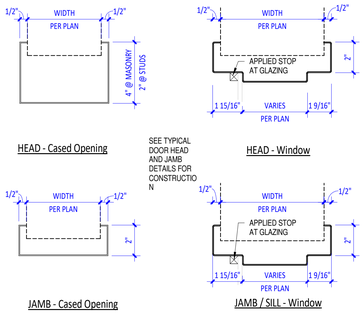
8 Jamb CA - HM Door Frame (Typ at CMU) W/ GWB both sides
A2-2 3" = 1'-0"



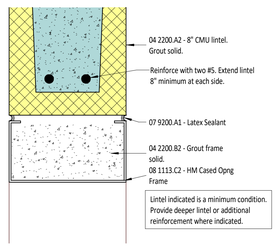
5 Head HB - HM Cased Opng Frame
A2-2 3" = 1'-0"



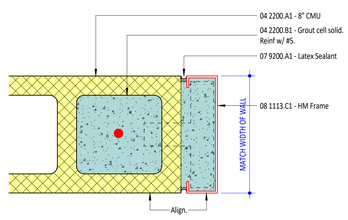
6 Jamb JB - HM Cased Opng Frame
A2-2 3" = 1'-0"



24 FRAMES - HM Interior
A2-2 3" = 1'-0"



9 Head CB - HM Cased Opng Frame (CMU)
A2-2 3" = 1'-0"



10 Jamb CB - HM Cased Opng Frame (CMU)
A2-2 3" = 1'-0"

DOOR SCHEDULE WM2A PHASE 1

OPNG NO	FROM ROOM	TO ROOM	FullWidth	Height	Door Type	Frame Type	Head Dtl	Jamb Dtl	HW SET	Rated Opng	COMMENTS
101	CORRIDOR	WAITING RM	3'-6"	7'-0"	WNG	HM1	HA	JA	HW 1	45	
101a	CORRIDOR	WAITING RM	3'-6"	7'-0"	WD	HM1	CA	CA	HW 2	NR	
102	RECEPTION	TRIAGE	3'-0"	7'-0"	WN2	HM2			HW 2	NR	
104	EXAM 1	CORRIDOR	3'-6"	7'-0"	WD	HM1	HA	JA	HW 2	NR	
105	EXAM 2	CORRIDOR	3'-6"	7'-0"	WD	HM1	HA	JA	HW 2	NR	
106	EXAM 3	CORRIDOR	3'-6"	7'-0"	WD	HM1	HA	JA	HW 2	NR	
107	TELEMED EXAM	CORRIDOR	3'-6"	7'-0"	WD	HM1	HA	JA	HW 2	NR	
108	STOREROOM	CORRIDOR	3'-0"	7'-0"	WD	HM1	HA	JA	HW 2	NR	
109	EVS	CORRIDOR	4'-0"	7'-0"	WD	HM1	HA	JA	HW 4	NR	
110	CORRIDOR	SOILED	3'-0"	7'-0"	WD	HM1	CA	CA	HW 7	45	
111	CORRIDOR	STAFF TLT	3'-0"	7'-0"	WD	HM1	HA	JA	HW 5	NR	
112	CHECK-IN	CORRIDOR	3'-0"	7'-0"	WN3	HM1	HA	JA	HW 1	45	
112a	CHECK-IN	PHARMACY	3'-0"	7'-0"	WD	HM1	HA	JA	HW 2	NR	
113a	CORRIDOR	CORRIDOR	4'-0"	7'-0"	CO	HM2	CB	CB	-	NR	
114	CORRIDOR	PHARMACY	3'-0"	7'-0"	WN3	HM1	HA	JA	HW 2	NR	
115	BREAKROOM	CORRIDOR	3'-0"	7'-0"	WD	HM1	HA	JA	HW 2	NR	
116	DATA	STOREROOM	3'-0"	7'-0"	WD	HM1	HA	JA	HW 7	NR	
117	STAFF OFFICE	CORRIDOR	3'-0"	7'-0"	WN2	HM1	HA	JA	HW 2	NR	
118	TECH OFFICE	CORRIDOR	3'-0"	7'-0"	WN2	HM1	HA	JA	HW 2	NR	
119	CORRIDOR	HALL	3'-0"	7'-0"	WNG	HM1	HA	JA	HW 1	45	
119A	HALL	CORRIDOR	4'-8"	7'-0"	CO	HM2	CB	CB	-	NR	
120	LAB	CORRIDOR	3'-0"	7'-0"	WN2	HM1	HA	JA	HW 2	NR	
121	TLT	CORRIDOR	3'-0"	7'-0"	WD	HM1	HA	JA	HW 5.1	NR	
122a	CORRIDOR	CORRIDOR	4'-0"	7'-0"	CO	HM2	CB	CB	-	NR	
124a	CORRIDOR		6'-0"	7'-0"	HFM	HM2	-	-	HW 3	NR	
124b	CORRIDOR		6'-0"	7'-0"	HFM	HM2	-	-	HW 3	NR	
201	CORRIDOR	RECEPTION	3'-0"	7'-0"	WD	HM1	CA	CA	HW 6	NR	
202	CORRIDOR	UNISEX FAMILY RESTROOM	3'-0"	7'-0"	WD	HM1	CA	CA	HW 5	NR	
203	CORRIDOR	JANITOR	3'-0"	7'-0"	WD	HM1	CA	CA	HW 7	NR	
204	WOMENS RESTROOM	CORRIDOR	3'-0"	7'-0"	WD	HM1	CA	CA	HW 9	NR	
207	CLASSROOM	ELEC / HVAC	3'-0"	7'-0"	WD	HM1	CA	CA	HW 8	NR	
208	CLASSROOM	STORAGE	3'-0"	7'-0"	WD	HM1	CA	CA	HW 8	NR	
247	CLASSROOM	HVAC	3'-0"	7'-0"	WD	HM1	CA	CA	HW 8	NR	
248	CORRIDOR	MENS RESTROOM	3'-0"	7'-0"	WD	HM1	CA	CA	HW 9	NR	

Hardware Set#: 1 (Office)

3	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
1	EA	SAR	Lockset	28-7G05 x LL x MK Office	US26D
1	EA	SAR	Door Closer	TB-281-O	EN
2	EA	HHC	Kick Plate	190S x B4E x 10" x 40"	US32D
1	EA	HHC	Wall Bumper	236W	US32D
3	EA	HHC	Silencer	307D	Grey
1	EA	SAR	Door Closer	TB-281-O	EN

Hardware Set#: 2 (Classroom)

3	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
1	EA	SAR	Lockset	28-7G37 x LL x MK Classroom	US26D
1	EA	SAR	Door Closer	TB-281-O	EN
2	EA	HHC	Kick Plate	190S x B4E x 10" x 40"	US32D
1	EA	HHC	Wall Bumper	236W	US32D
3	EA	HHC	Silencer	307D	Grey
1	EA	SAR	Door Closer	TB-281-O	EN

Hardware Set#: 3

6	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
2	EA	VON	Exit Device	VON 98-27	US26D
1	EA		Removable mullion		
2	EA	SAR	Door Closer	TB-281-O	EN
4	EA	HHC	Kick Plate	190S x B4E x 10" x 34"	US32D
2	EA	HHC	Wall Bumper	236W	US32D

Hardware Set#: 4 (Storage Pair)

2	EA	HHC	Hinge - Continuous	780-041HD x 83"OA	Clear
2	EA	HHC	Flush Bolt	282D	US26D
1	EA	HHC	Dust Proof Strike	280X	US26D
1	EA	SAR	Lockset	28-7G04 x LL x MK Storeroom	US26D/Active
2	EA	HHC	Overhead Holder/Stop	6016 x Surface Mount x Size 2	US32D
2	EA	HHC	Silencer	307D	Grey
2	EA	SAR	Door Closer	TB-281-O	EN

Hardware Set#: 5 (TLT / Privacy Set)

3	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
1	EA	SAR	Privacy Set	28-7U65 x LL	US26D
1	EA	SAR	Door Closer	TB-281-O	EN
2	EA	HHC	Kick Plate	190S x B4E x 10" x 34"	US32D
1	EA	HHC	Wall Bumper	236W	US32D
3	EA	HHC	Silencer	307D	Grey

Hardware Set#: 5.1 (TLT /Removable Stop)

1	EA	IntraStop	Hinge	HDS-01-4SS	US26D
1	EA	SAR	Privacy Set	28-7U65 x LL	US26D
1	EA	IntraStop	Door Closer	IDC-01-AA-NVERSE	US32D
2	EA	HHC	Kick Plate	190S x B4E x 10" x 34"	US32D
1	EA	HHC	Wall Bumper	236W	US32D
3	EA	HHC	Silencer	307D	Grey
1	EA	IntraStop	Removable stop	RDS-04	US32D

Hardware Set#: 6 (Office)

3	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
1	EA	SAR	Lockset	28-7G05 x LL x MK Office	US26D
2	EA	HHC	Kick Plate	190S x B4E x 10" x 40"	US32D
1	EA	HHC	Wall Bumper	236W	US32D
3	EA	HHC	Silencer	307D	Grey

Hardware Set#: 7 (Single Storage)

3	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
1	EA	SAR	Lockset	28-7G04 x LL x MK Storeroom	US26D
1	EA	SAR	Door Closer	TB-281-O	EN
2	EA	HHC	Kick Plate	190S x B4E x 10" x 40"	US32D
1	EA	HHC	Wall Bumper	236W	US32D
3	EA	HHC	Silencer	307D	Grey
1	EA	SAR	Door Closer	TB-281-O	EN

Hardware Set#: 8 (Single Storage)

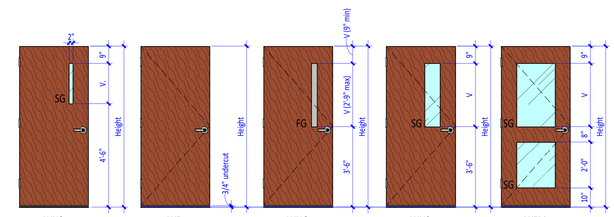
3	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
1	EA	SAR	Lockset	28-7G04 x LL x MK Storeroom	US26D
1	EA	SAR	Door Closer	TB-281-O	EN
2	EA	HHC	Kick Plate	190S x B4E x 10" x 40"	US32D
1	EA	HHC	Wall Bumper	236W	US32D
3	EA	HHC	Silencer	307D	Grey

Hardware Set#: 9 (Main Restrooms)

3	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
1	EA	ADH	Push/ Pull	6" ROUND BAR PUSH/PULL	US26D
1	EA	SAR	Door Closer	TB-281-O	EN
2	EA	HHC	Kick Plate	190S x B4E x 10" x 40"	US32D
1	EA	HHC	Wall Bumper	236W	US32D
3	EA	HHC	Silencer	307D	Grey

Hardware Set#: 10

6	EA	HHC	Hinge	ECBB1100 4 1/2" x 4 1/2"	US26D
2	EA	VON	Exit Device	VON 98-27	US26D
1	EA		Removable mullion		
2	EA	SAR	Door Closer	TB-281-O	EN
4	EA	HHC	Kick Plate	190S x B4E x 10" x 34"	US32D
7	EA	HHC	Wall Bumper	236W	US32D



Notes:

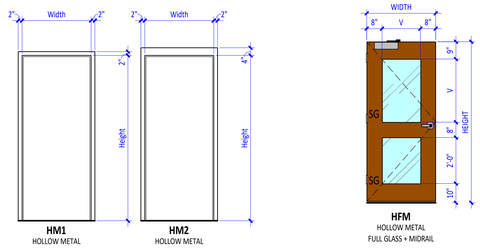
Type WNG is always a rated door with fire glass. (100 in^2,max.) Provide metal glazing frame if reqd for rating.

At all other doors where a rating is reqd, provide fire glass in lieu of indicated safety glass. Provide metal glazing frame if reqd for rating.

"V" indicates that dimension varies with door size.

"SG" indicates 6mm safety glass.

"FG" indicates fire glass.



Legend - Frame Elevations
3/8" = 1'-0"

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403B NORTH MAIN ST
HILLSVILLE, VA 24343

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Beekman Point ENGINEERING

Project Status: Working Drawings

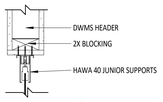
Revision No (if any): Revision Date:

Project No: 2021-003 Current Date: 10/25/21

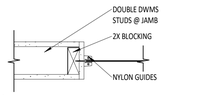
Drawing Name: **Door Schedule and Details**

Drawing No: **A2-2**

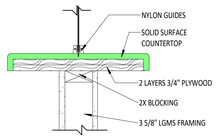
Printed: 10/25/2021 3:40:13 AM



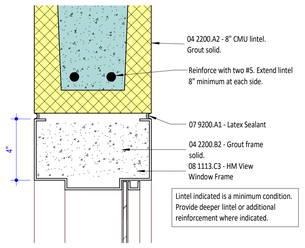
1 | SLIDER WINDOW HEAD
A2-3 | 1 1/2" = 1'-0"



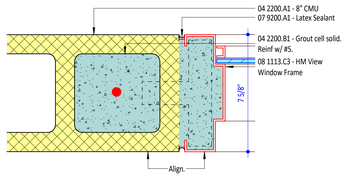
2 | SLIDER WINDOW JAMB
A2-3 | 1 1/2" = 1'-0"



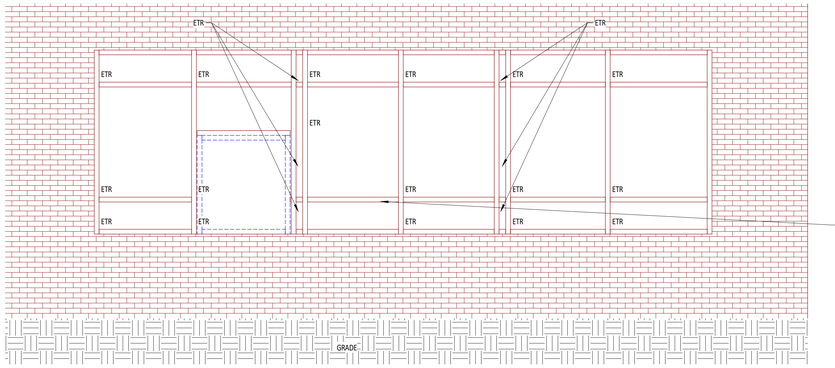
3 | SLIDER WINDOW SILL
A2-3 | 1 1/2" = 1'-0"



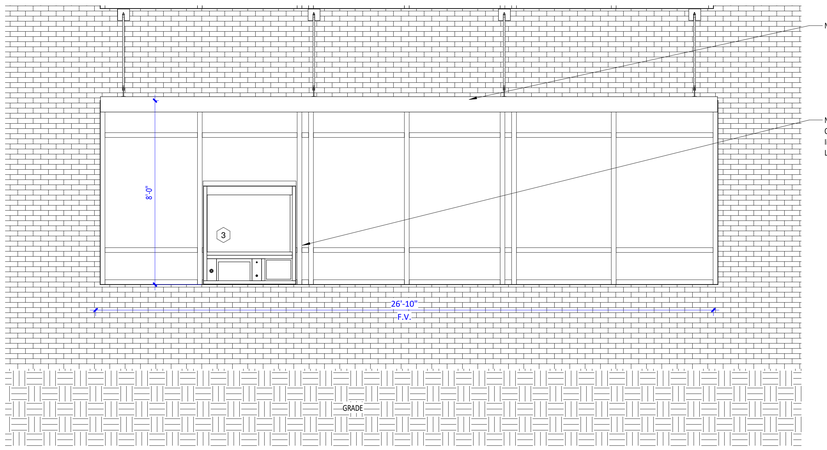
6 | Head CC - HM View Window Frame (Typ)
A2-3 | 3" = 1'-0"



7 | Jamb CC - HM View Window Frame (CMU)
A2-3 | 3" = 1'-0"



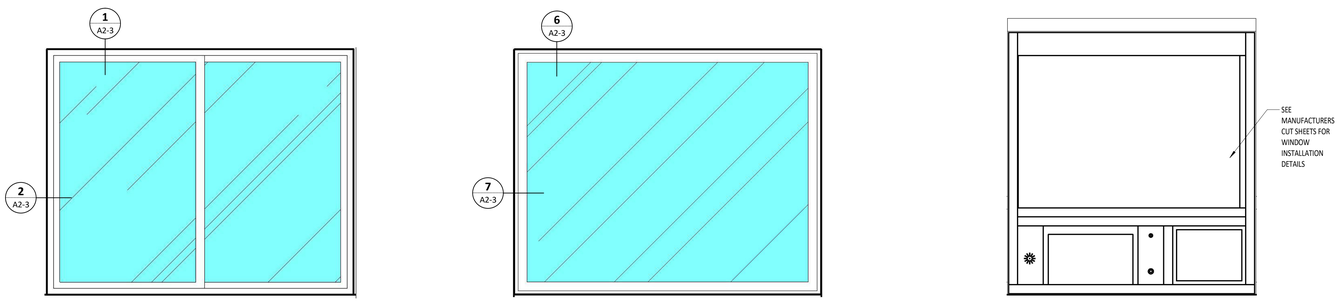
4 | Demolition for New Drive Thru Pharmacy
A2-3 | 3/8" = 1'-0"



5 | New Drive Thru Pharmacy Transaction Window
A2-3 | 3/8" = 1'-0"

GLAZING LEGEND

GL-1	1/4" CLEAR TEMPERED FOR USE IN DOOR VIEW AND SIDE LITES OF UNRATED DOORS AND VIEW WINDOWS
GL-2	9/16" CLEAR LAMINATED TEMPERED FOR USE IN DOOR VIEW LITES OF 45 MIN RATED DOORS
GL-3	9/16" CLEAR LAMINATED TEMPERED FOR USE IN DOOR VIEW LITES OF 90 MIN RATED DOORS
IG-1	INSULATING GLASS W/ TEMPERED LITE AT INTERIOR AND EXTERIOR STOREFRONT WINDOWS
SP-1	INSULATED SPANDREL GLASS W/ TEMPERED LITE AT INTERIOR AND EXTERIOR STOREFONT WINDOWS



1 SLIDING WINDOW

2 FIXED WINDOW

3 DRIVE-THRU WINDOW

8 | WINDOW ELEVATIONS
A2-3 | 1" = 1'-0"

Window Schedule

Type Mark	Height	Width	Description	Count
1	4'-0"	5'-0"	SLIDING/LOCKABLE TRANSACTION WINDOW	2
2	4'-0"	5'-0"	FIXED GLASS WINDOW	2
3	4'-3"	4'-0"	TRANSACTION WINDOW AND DRAWER COMBINATION UNIT	1

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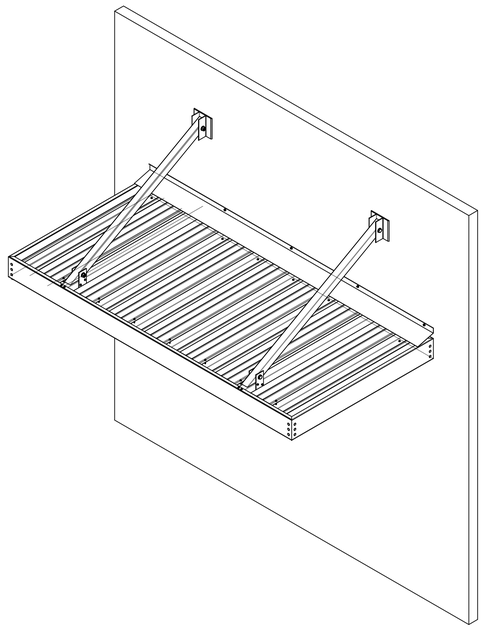
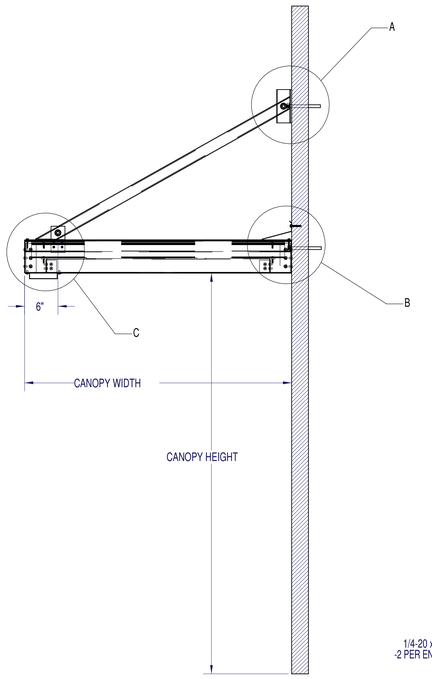
Beekman Point ENGINEERING

Project Status: Working Drawings
Revision No (if any): Revision Date:
Project No: 2021-003 Current Date: 10/25/21
Drawing Name: **Window Schedule and Details**
Drawing No: **A2-3**

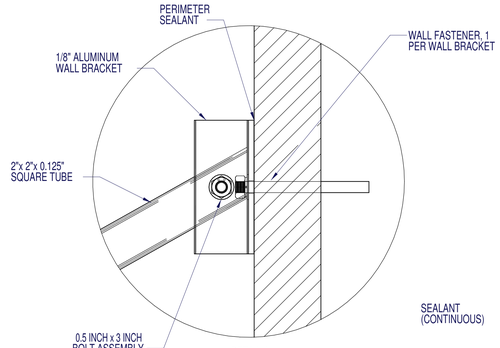
Printed: 10/28/2021 3:49:45 AM



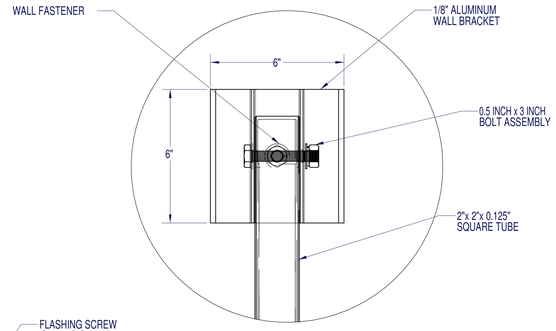
ISOMETRIC VIEW OF CANOPY



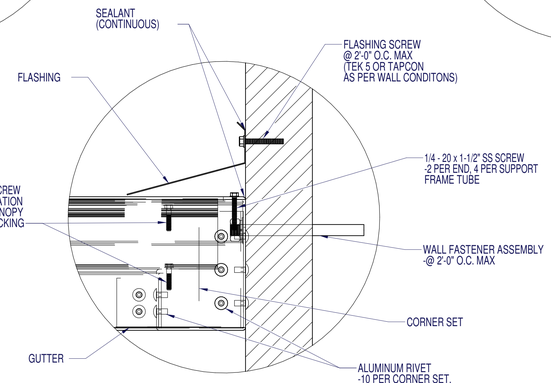
SECTION VIEW OF CANOPY



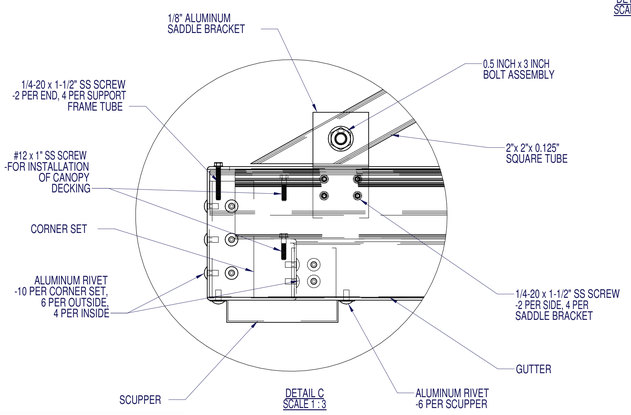
DETAIL A
SCALE 1 : 3



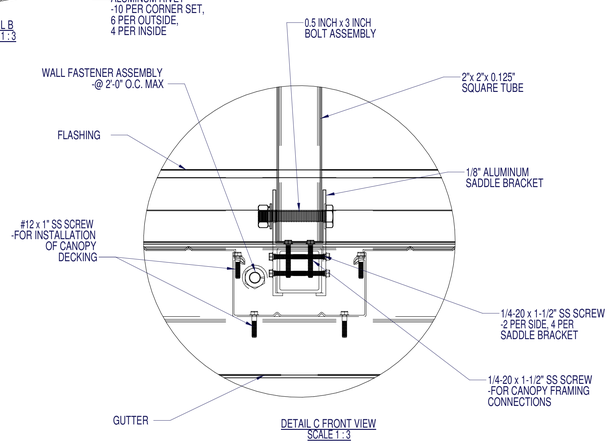
DETAIL A FRONT VIEW
SCALE 1 : 3



DETAIL B
SCALE 1 : 3



DETAIL C
SCALE 1 : 3



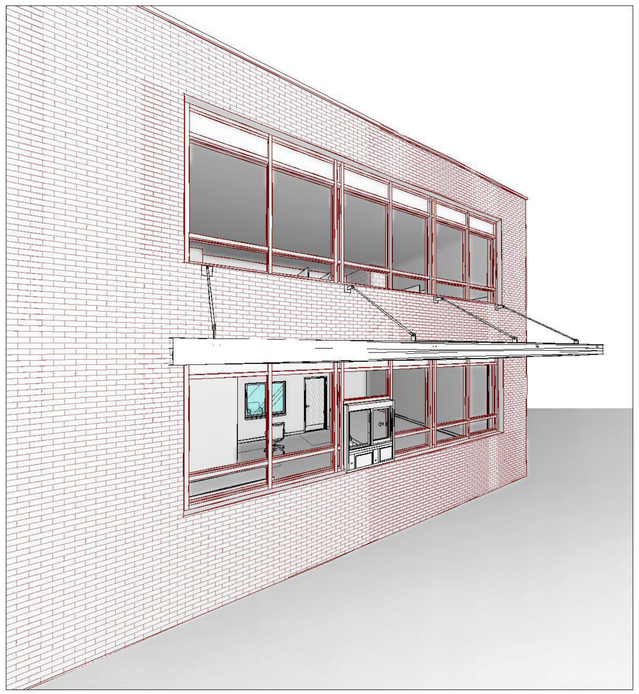
DETAIL C FRONT VIEW
SCALE 1 : 3

1.02 Design Criteria:
A. International Building Code 2018
B. ASCE 7-10
C. Aluminum Design Manual 2018
D. Local governing codes and standards for site location

1.03 Materials:
A. All materials shall be extruded from aluminum unless indicated otherwise on the drawing.
B. Material sizes shall meet or exceed the design criteria on 1.02

1.04 Finishes:
A. Factory applied baked enamel to comply with AAMA 2603
B. Color selected from manufacturers standard colors

1.05 Manufacturers:
A. Mitchell Metals, LLC -www.mitchellmetals.net - 770-431-7300
B. Dittmer - www.dittdeck.com - 407-699-1755



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SOLUTIONS BY DESIGN

Beekman Point ENGINEERING

Project Status: Working Drawings
Revision No (if any): Revision Date:
Project No: 2021-003
Current Date: 10/25/21
Drawing Name: **Canopy Details**
Drawing No: **A3-2**

Printed: 10/28/2021 1:46:46 AM

PARTITION TYPE LEGEND

WALL TYPES

- **C** CMU (MAY HAVE FURRING)
- **G** GYPSUM BOARD WITH METAL STUDS
- **S** SHAFTWALL
- **W** GYPSUM BOARD WITH WOOD STUDS

WALL TYPE
STUD/CMU WIDTH
WALL TYPE MODIFIER
FIRE RATING OR PARTITION HEIGHT
G 3 A 0

SYMBOL DESIGNATION
FOR WALL TYPES INDICATED TO RECEIVE SOUND ATTENUATION, EXTEND SOUND ATTENUATION TO FULL HEIGHT OF WALL UNLESS OTHERWISE INDICATED. REFER TO INDIVIDUAL WALL TYPE MODIFIER FOR STC RATINGS.

X#X# — **WITH SOUND ATTENUATION**

X#X# — **NO SOUND ATTENUATION**

WALL HATCH PATTERN LEGEND

- NON-RATED METAL STUD PARTITION
- NON-RATED SMOKE PARTITION
- 1 HOUR RATED FIRE PARTITION
- 2 HOUR RATED FIRE BARRIER
- 1 HOUR RATED FIRE/SMOKE BARRIER
- 2 HOUR RATED FIRE/SMOKE BARRIER
- NON RATED MASONRY
- 1 HOUR RATED MASONRY FIRE BARRIER (UL# U905)
- 2 HOUR RATED MASONRY FIRE BARRIER (UL# U905)

STUD/CMU WIDTH

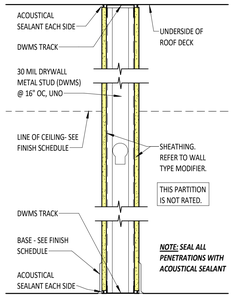
#	CMU	METAL	WOOD
0		0 7/8"	
1		1 5/8"	1x4
2		2 1/2"	
3		3 5/8"	
4	3 5/8"	4"	2x4
5			
6	5 5/8"	6"	2x6
7			
8	7 5/8"	8"	2x8
12	11 5/8"		

WALL TYPE MODIFIER

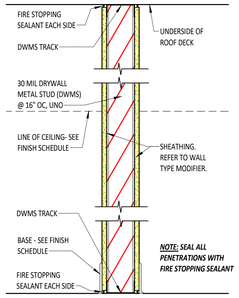
- A. 5/8" GYP BD EA SIDE. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- B. 5/8" GYP BD EA SIDE - UL DESIGN U419. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- C. 5/8" GYP BD (X 2 LAYERS) EA SIDE - UL DESIGN U419. (NO SAB = STC 50; W/R-11 SAB = STC 53)
- D. 1" GYP BD SHAFT SIDE; 1/2" GYP BD (X 2 LAYERS) OPP SIDE - UL DESIGN U438. (NO SAB = STC 38; W/3-INCH MIN FIBER = STC 50.
- E. 5/8" GYP BD - EXPOSED SIDE ONLY.
- F. NO SHEATHING ON CMU.
- G. 5/8" GYP BD ON 7/8" HAT CHNL - EACH SIDE OF CMU.
- H. 5/8" GYP BD ON 7/8" HAT CHNL - EXPOSED SIDE OF CMU.

FIRE RATING OR PARTITION HEIGHT

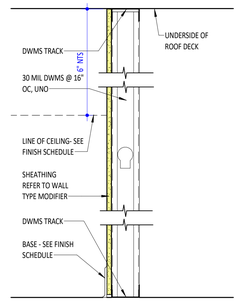
- **0** NON-RATED; EXTEND FINISH 6-INCHES ABOVE CEILING.
- **F** NON-RATED; FULL HEIGHT TO STRUCTURE.
- **S** NON-RATED SMOKE PARTITION
- **B** 1 HOUR RATED FIRE/SMOKE BARRIER
- **C** 2 HOUR RATED FIRE/SMOKE BARRIER
- **1** 1 HOUR RATED FIRE PARTITION
- **2** 2 HOUR RATED FIRE BARRIER
- **H** EXTEND CMU TO NEXT FULL COURSE ABOVE CEILING (4-INCH MINIMUM ABOVE CEILING)
- **X** SEE BLDG SECTION/ELEVATION FOR HEIGHT.



B FULL-HGT PARTITION
1 1/2" = 1'-0"



C RATED WALL
1 1/2" = 1'-0"



E FURRING PARTITION
1 1/2" = 1'-0"

GENERAL NOTES - RATED ASSEMBLIES

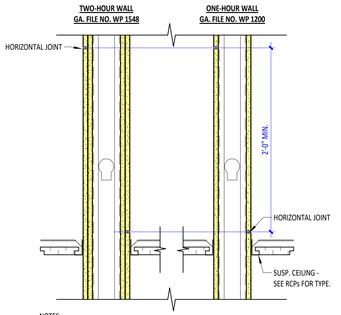
1. Protect and seal openings through floors, ceilings, and roofs to a one-hour or two-hour rating standard as indicated on the drawings. Seal all penetrations through rated walls and floors with a material capable of preventing the passage of flames and hot gases and to meet test standards for fire stopping (ASTM E 814 or NFPA 251).
2. Permanently identify all fire walls with a sign with 2-inch high lettering on a contrasting background. Place signs 12-feet apart, maximum, and locate above ceiling. (At spaces with no ceiling, located within 18-inches of underside of floor above.) Provide one sign, minimum, per wall or barrier. Provide the following text:

   "1-HOUR FIRE RATED WALL - PROTECT ALL OPENINGS"

   "2-HOUR FIRE RATED WALL - PROTECT ALL OPENINGS"
3. Permanently identify all smoke barrier walls with a sign with 2-inch high lettering on a contrasting background. Place signs 12-feet apart, maximum, and locate above ceiling. (At spaces with no ceiling, located within 18-inches of underside of floor above.) Provide one sign, minimum, per wall or barrier. Provide the following text:

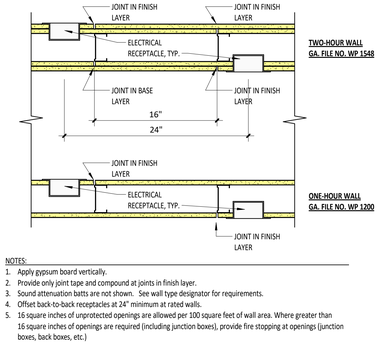
   "1-HOUR SMOKE BARRIER WALL - PROTECT ALL OPENINGS"

   "2-HOUR SMOKE BARRIER WALL - PROTECT ALL OPENINGS"



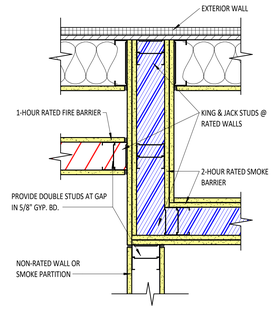
NOTES:
1. Stagger joints on opposite sides of metal framing.
2. Provide joint tape and compound only at joints in finish layers.
3. Sound attenuation insulation is not shown. Refer to wall type designator for requirements.

3 Rated Partition - Horizontal Joint Layout
A4-1A | 1 1/2" = 1'-0"

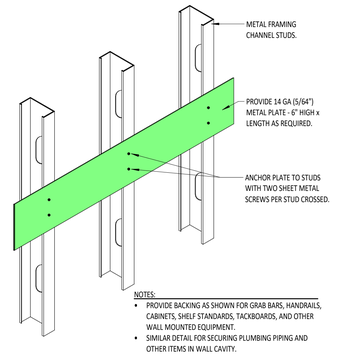


NOTES:
1. Apply gypsum board vertically.
2. Provide only joint tape and compound at joints in finish layer.
3. Sound attenuation batts are not shown. See wall type designator for requirements.
4. Offset back-to-back receptacles at 24" minimum at rated walls.
5. 16 square inches of unprotected openings are allowed per 100 square feet of wall area. Where greater than 16 square inches of openings are required (including junction boxes), provide fire stopping at openings (junction boxes, back boxes, etc.)

4 Rated Partition - Vertical Joint Layout
A4-1A | 1 1/2" = 1'-0"

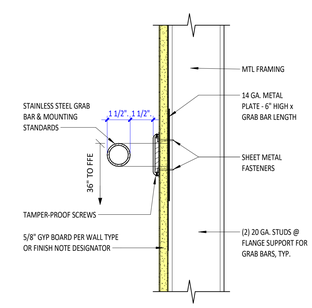


5 Rated Partition - Hierarchy Diagram
A4-1A | 1 1/2" = 1'-0"

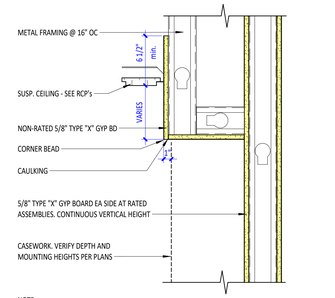


NOTES:
- PROVIDE BACKING AS SHOWN FOR GRAB BARS, HANDRAILS, CABINETS, SHELF STANDARDS, TACKBOARDS, AND OTHER WALL MOUNTED EQUIPMENT.
- SIMILAR DETAIL FOR SECURING PLUMBING PIPING AND OTHER ITEMS IN WALL CAVITY.

6 Partition Backing Support
A4-1A | 1 1/2" = 1'-0"

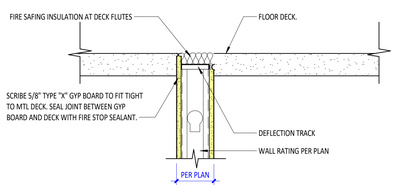


7 Attachment at Grab Bars
A4-1A | 3"=1'-0"

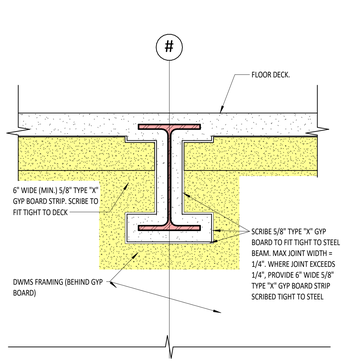


NOTE:
TAPE AND FINISH JOINTS PER REQUIREMENTS OF RATED WALL ASSEMBLIES WHERE RATED WALLS OCCUR.
FULLY SEAL ALL PENETRATIONS IN PARTITIONS, INCLUDING BACK FURRING AND/OR WALL CABINET.

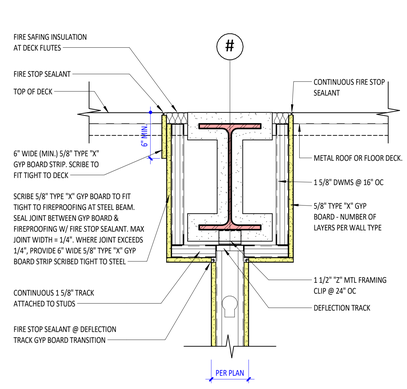
8 Bulkhead at Casework
A4-1A | 1 1/2" = 1'-0"



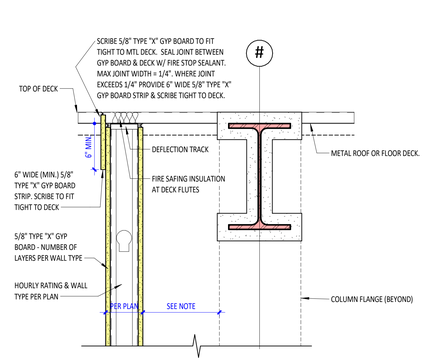
10 Rated Partition Parallel to Metal Deck
A4-1A | 1 1/2" = 1'-0"



11 Rated Partition Perpendicular to Beam
A4-1A | 1 1/2" = 1'-0"

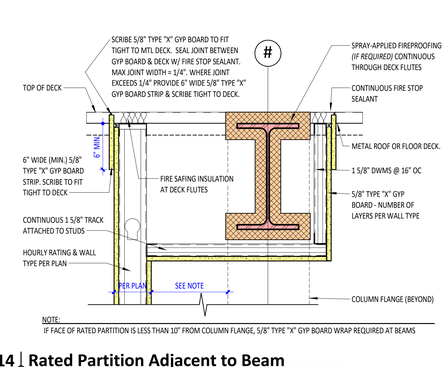


12 Rated Partition under Beam
A4-1A | 1 1/2" = 1'-0"



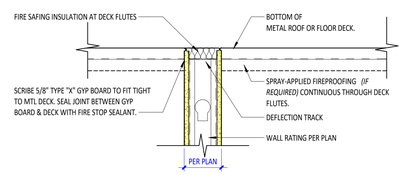
NOTE:
IF FACE OF RATED PARTITION IS GREATER THAN 10" FROM COLUMN FLANGE, NO GYP BOARD WRAP REQUIRED.

13 Rated Partition 10'' Beyond Beam
A4-1A | 1 1/2" = 1'-0"

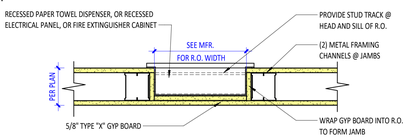


NOTE:
IF FACE OF RATED PARTITION IS LESS THAN 10" FROM COLUMN FLANGE, 5/8" TYPE "X" GYP BOARD WRAP REQUIRED AT BEAMS

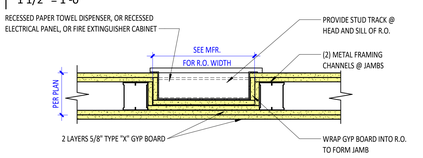
14 Rated Partition Adjacent to Beam
A4-1A | 1 1/2" = 1'-0"



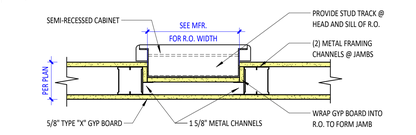
9 Rated Partition Perpendicular to Metal Deck
A4-1A | 1 1/2" = 1'-0"



19 Recessed Cabinet in Non-rated or One Hour Partition
A4-1A | 1 1/2" = 1'-0"

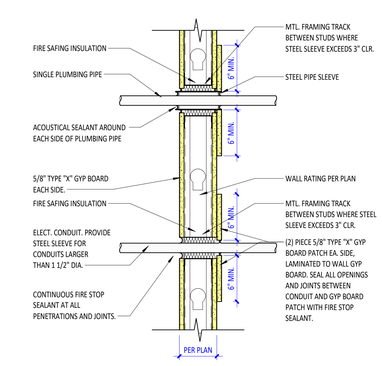


20 Recessed Cabinet in Two Hour Rated Partition
A4-1A | 1 1/2" = 1'-0"

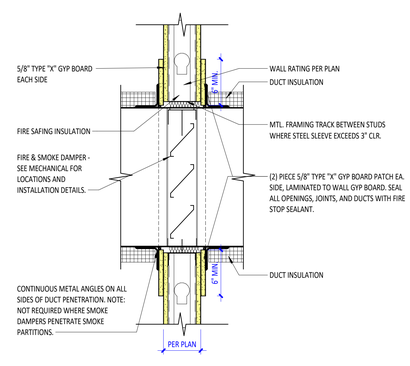


21 Semi-recessed Cabinet in Non-rated or One Hour Partition
A4-1A | 1 1/2" = 1'-0"

15 Multiple Conduit Penetrations at Rated Partition
A4-1A | 1 1/2" = 1'-0"



16 Single Conduit or Pipe Penetration at Rated Partition
A4-1A | 1 1/2" = 1'-0"



17 Duct Penetration at Rated Partition
A4-1A | 1 1/2" = 1'-0"

NOTE:
PROVIDE 43 MIL STUDS IN LIEU OF 30 MIL STUDS WHERE WALL HEIGHT EXCEEDS 14'-0".

18 Stud Framing at Doors/Windows
A4-1A | 1 1/2" = 1'-0"

WM2A ARCHITECTS
WM2A.COM
403B NORTH MAIN ST
HILLSVILLE, VA 24343

Seal:

Renovations of
Baywood Technology & Community Center

Address
Address

Project Status:
Working Drawings

Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

Drawing Name:
Wall Types and Details - Metal Framing

Drawing No:
A4-1A

B.E.C.I.
SOLUTIONS BY DESIGN

Beekman Point ENGINEERING

Printed: 10/28/2021 1:40:54 AM

PARTITION TYPE LEGEND

WALL TYPES

- **C** CMU (MAY HAVE FURRING)
- **G** GYPSUM BOARD WITH METAL STUDS
- **S** SHAFTWALL
- **W** GYPSUM BOARD WITH WOOD STUDS

G 3 A 0
- WALL TYPE
- STUD/CMU WIDTH
- WALL TYPE MODIFIER
- FIRE RATING OR PARTITION HEIGHT

SYMBOL DESIGNATION

FOR WALL TYPES INDICATED TO RECEIVE SOUND ATTENUATION, EXTEND SOUND ATTENUATION TO FULL HEIGHT OF WALL UNLESS OTHERWISE INDICATED. REFER TO INDIVIDUAL WALL TYPE MODIFIER FOR STC RATINGS.

XAXB — **WITH SOUND ATTENUATION**

XAXA — **NO SOUND ATTENUATION**

WALL HATCH PATTERN LEGEND

- NON-RATED METAL STUD PARTITION
- NON-RATED SMOKE PARTITION
- 1 HOUR RATED FIRE PARTITION
- 2 HOUR RATED FIRE BARRIER
- 1 HOUR RATED FIRE/SMOKE BARRIER
- 2 HOUR RATED FIRE/SMOKE BARRIER
- NON RATED MASONRY
- 1 HOUR RATED MASONRY FIRE BARRIER (UL# U905)
- 2 HOUR RATED MASONRY FIRE BARRIER (UL# U905)

STUD/CMU WIDTH

#	CMU	METAL	WOOD
0		0 7/8"	
1		1 5/8"	1x4
2		2 1/2"	
3		3 5/8"	
4	3 5/8"	4"	2x4
5			
6	5 5/8"	6"	2x6
7			
8	7 5/8"	8"	2x8
12	11 5/8"		

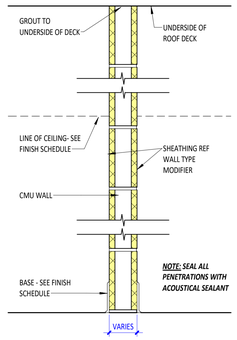
WALL TYPE MODIFIER

- A. 5/8" GYP BD EA SIDE. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- B. 5/8" GYP BD EA SIDE - UL DESIGN U419. (NO SAB = STC 40; W/R-11 SAB = STC 48)
- C. 5/8" GYP BD (X 2 LAYERS) EA SIDE - UL DESIGN U419. (NO SAB = STC 50; W/R-11 SAB = STC 53)
- D. 1" GYP BD SHAFT SIDE; 1/2" GYP BD (X 2 LAYERS) OPP SIDE - UL DESIGN U438. (NO SAB = STC 38; W/3-INCH MIN FIBER = STC 50.
- E. 5/8" GYP BD - EXPOSED SIDE ONLY.
- F. NO SHEATHING ON CMU.
- G. 5/8" GYP BD ON 7/8" HAT CHNL - EACH SIDE OF CMU.
- H. 5/8" GYP BD ON 7/8" HAT CHNL - EXPOSED SIDE OF CMU.

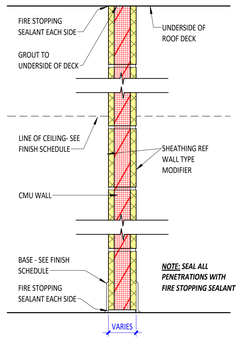
FIRE RATING OR PARTITION HEIGHT

- **0** NON-RATED; EXTEND FINISH 6-INCHES ABOVE CEILING.
- **F** NON-RATED; FULL HEIGHT TO STRUCTURE.
- **S** NON-RATED SMOKE PARTITION
- **B** 1 HOUR RATED FIRE/SMOKE BARRIER
- **C** 2 HOUR RATED FIRE/SMOKE BARRIER
- **1** 1 HOUR RATED FIRE PARTITION
- **2** 2 HOUR RATED FIRE BARRIER
- **H** EXTEND CMU TO NEXT FULL COURSE ABOVE CEILING (4-INCH MINIMUM ABOVE CEILING).
- **X** SEE BLDG SECTION/ELEVATION FOR HEIGHT.

WHERE WALL IS INDICATED TO BE 1 HOUR RATED, PROVIDE CONCRETE MASONRY UNITS CAPABLE OF SUCH RATING PER TABLE 721.3.2 OF THE INTERNATIONAL BUILDING CODE. SUBMIT WRITTEN EVIDENCE OF SAME FOR REVIEW BY ARCHITECT PRIOR TO USE OF SUCH MASONRY UNITS.



D NON-RATED CMU WALL
1 1/2" = 1'-0"



E RATED CMU WALL
1 1/2" = 1'-0"

GENERAL NOTES - RATED ASSEMBLIES

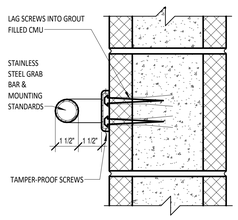
1. Protect and seal openings through floors, ceilings, and roofs to a one-hour or two-hour rating standard as indicated on the drawings. Seal all penetrations through rated walls and floors with a material capable of preventing the passage of flames and hot gases and to meet test standards for fire stopping (ASTM E 814 or NFPA 251).
2. Permanently identify all fire walls with a sign with 2-inch high lettering on a contrasting background. Place signs 12-feet apart, maximum, and locate above ceiling. (At spaces with no ceiling, located within 18-inches of underside of floor above.) Provide one sign, minimum, per wall or barrier. Provide the following text:

   "1-HOUR FIRE RATED WALL - PROTECT ALL OPENINGS"

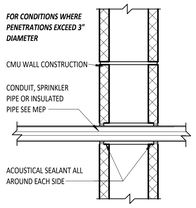
   "2-HOUR FIRE RATED WALL - PROTECT ALL OPENINGS"
3. Permanently identify all smoke barrier walls with a sign with 2-inch high lettering on a contrasting background. Place signs 12-feet apart, maximum, and locate above ceiling. (At spaces with no ceiling, located within 18-inches of underside of floor above.) Provide one sign, minimum, per wall or barrier. Provide the following text:

   "1-HOUR SMOKE BARRIER WALL - PROTECT ALL OPENINGS"

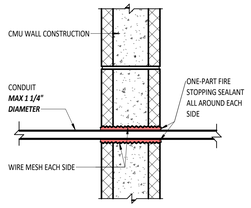
   "2-HOUR SMOKE BARRIER WALL - PROTECT ALL OPENINGS"



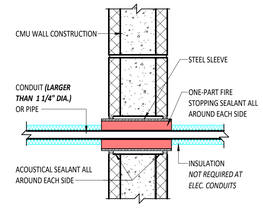
2 | SECTION - Grab Bar @ CMU Wall
A4-1C | 3" = 1'-0"



3 | SECTION - Non-Rated CMU Penetration @
A4-1C | 1 1/2" = 1'-0"



4 | SECTION - Fire Rated CMU Penetration @
A4-1C | 1 1/2" = 1'-0"



5 | SECTION - Fire Rated CMU. Penetration @
A4-1C | 1 1/2" = 1'-0"

WM2A ARCHITECTS
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403B NORTH MAIN ST
HILLSVILLE, VA 24343

Seal:
COMMONWEALTH OF VIRGINIA
VINCENT KYLE POWERS
Lic. No. 0401015588
ARCHITECT

Renovations of
Baywood Technology & Community Center

Address
Address

B.E.C.I.
SOLUTIONS BY DESIGN

Beekman Point
ENGINEERING

Project Status: Working Drawings

Revision No (if any): Revision Date:

Project No: 2021-003

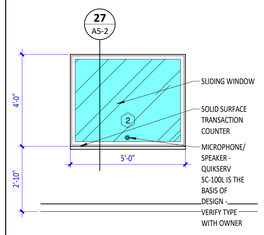
Current Date: 10/25/21

Drawing Name:

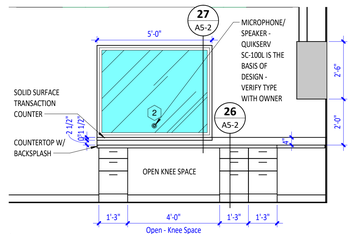
Wall Types and Details - Masonry

Drawing No:

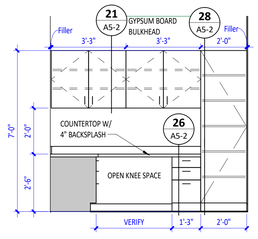
A4-1C



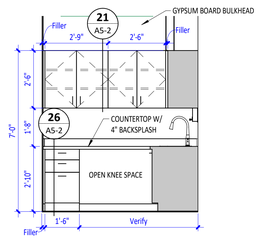
1 | 101 Waiting Rm
A5-2 | 3/8" = 1'-0"



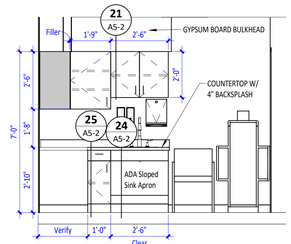
2 | 102 Reception A
A5-2 | 3/8" = 1'-0"



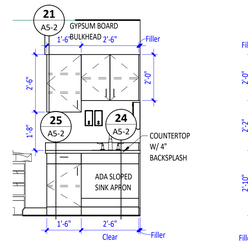
3 | 102 Reception B
A5-2 | 3/8" = 1'-0"



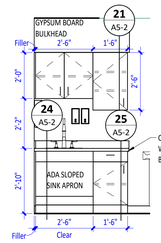
4 | 103 Triage A
A5-2 | 3/8" = 1'-0"



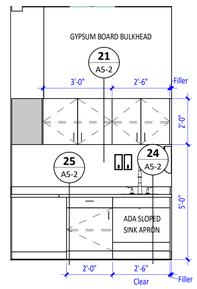
5 | 103 Triage B
A5-2 | 3/8" = 1'-0"



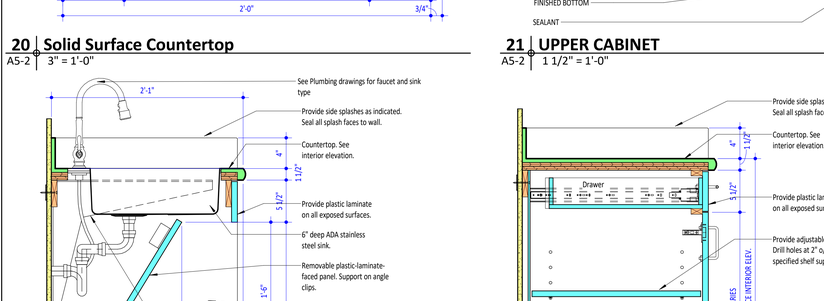
6 | 104 Exam - Typ.
A5-2 | 3/8" = 1'-0"



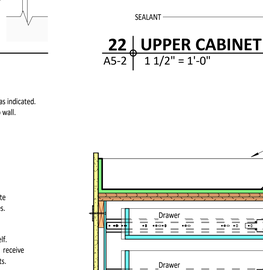
7 | 105 Exam - Typ.
A5-2 | 3/8" = 1'-0"



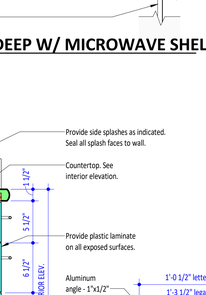
8 | 114 Pharmacy A
A5-2 | 3/8" = 1'-0"



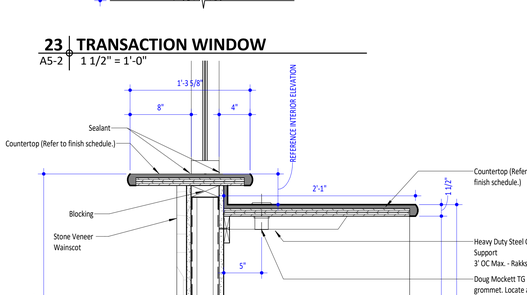
9 | 114 Pharmacy B
A5-2 | 3/8" = 1'-0"



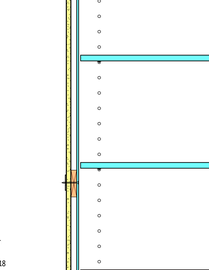
10 | 114 Pharmacy C
A5-2 | 3/8" = 1'-0"



11 | 115 Breakroom A
A5-2 | 3/8" = 1'-0"



12 | 115 Breakroom B
A5-2 | 3/8" = 1'-0"



13 | 120 Lab A
A5-2 | 3/8" = 1'-0"

14 | 120 Lab B
A5-2 | 3/8" = 1'-0"

15 | 120 Lab C
A5-2 | 3/8" = 1'-0"

16 | 201 Main Reception A
A5-2 | 3/8" = 1'-0"

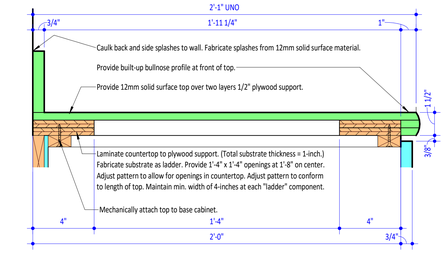
17 | 201 Main Reception B
A5-2 | 3/8" = 1'-0"

18 | 201 Main Reception C
A5-2 | 3/8" = 1'-0"

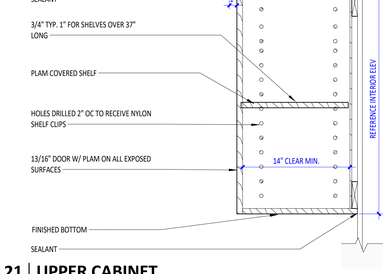
19 | (250 & 251) Restrooms (TYP.)
A5-2 | 3/8" = 1'-0"

CASEWORK - GENERAL NOTES

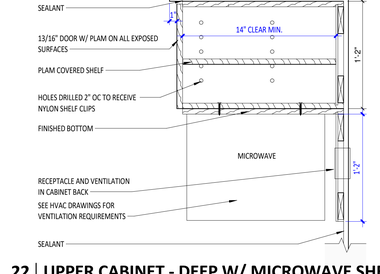
1. Provide filler panels to finish out and/or scribe cabinets to wall.
2. When filler panels are req'd at both sides of a casework termination, set casework in center of opng and provide equal width filler panels.
3. Provide finished end panels and returns at open-ended cabinets, at knee spaces, and at below-counter returns at accessible sinks.
4. Provide countertop bracket supports at 36-inches o/c max to support countertops where countertop span exceeds 36-inches.
5. Provide continuous backsplash at all countertops. Include end splashes where countertop intersects wall. (UNO)
6. Install grommets in countertops at knee spaces and where indicated. (Owner to confirm locations on site prior to installation.)
7. Provide adjustable shelving within cabinets UNO.
8. Provide drywall bulkheads with 1-inch projection from face of casework at upper cabinets and at full-hgt casework UNO.
9. Provide two layers 3/4-inch plywd support at countertop ice machine locations. Confirm countertop depth with ice maker provided.
10. Cabinet hardware items indicated are representative. Provide specified hardware in case of discrepancy.
11. Plumbing items indicated are representative. Provide specified plumbing items.
12. Provide PLam-1 at all exposed vertical casework faces UNO.
13. Verify 30-inch clearance above cooktops to combustible casework. Report contrary condition to Architect before installation of non-conforming casework.
14. Where steel countertop supports are required, provide Rakks flush-mount models EH1212, EH1818, and EH1824. Screw supports to metal studs inside the wall; then cover with gypsum wallboard.



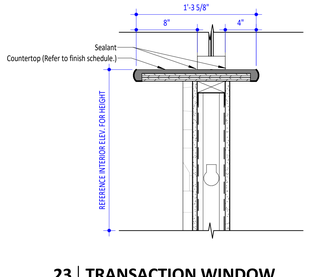
20 | Solid Surface Countertop
A5-2 | 3" = 1'-0"



21 | UPPER CABINET
A5-2 | 1 1/2" = 1'-0"



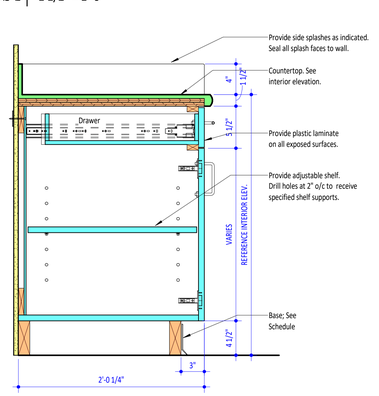
22 | UPPER CABINET - DEEP W/ MICROWAVE SHELF
A5-2 | 1 1/2" = 1'-0"



23 | TRANSACTION WINDOW
A5-2 | 1 1/2" = 1'-0"

28 | 84" TALL CABINET - TYPICAL
A5-2 | 1 1/2" = 1'-0"

24 | 34" ADA SINK BASE, FRONT APPROACH
A5-2 | 1 1/2" = 1'-0"



25 | BASE CABINET - 1 DRAWER AND DOOR
A5-2 | 1 1/2" = 1'-0"

26 | DRAWER BASE - 1 FILE DRAWER
A5-2 | 1 1/2" = 1'-0"

27 | RECEPTION WINDOW
A5-2 | 1 1/2" = 1'-0"

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Project Status: Working Drawings

Revision No (if any): Revision Date:

Project No: 2021-003 Current Date: 10/25/21

Drawing Name: **Interior Elevations and Casework Details - Phase 1**

Drawing No: **A5-2**

B.E.C.I.
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Ceiling Ac1
24" x 24"
Acoustical Ceiling Tile
15/16" grid

Ceiling Gb1
Gypsum Board Ceiling

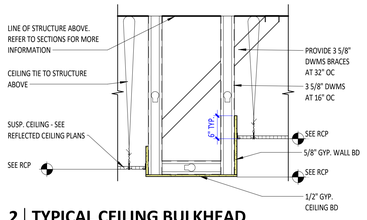
OPEN — Open to structure above
Paint structure P-2

DIFFUSER - SQUARE SUPPLY
REGISTER - SQUARE RETURN
REGISTER - EXHAUST
LIGHTING - RECESSED FIXTURE
LIGHTING - RECESSED FIXTURE
LIGHTING - RECESSED DOWN LIGHT
EXIT SIGN
SPEAKER
LIGHTING - PENDANT FIXTURE 6" MOUNT
SUSPENDED LINEAR FIXTURE

Note:
Reflected ceiling plan(s) on architectural drawings often do NOT indicate all ceiling-mounted items. See drawings of other disciplines for additional items.Coordinate installation of all required ceiling items.

Color shades used on reflected ceiling plans and legends are provided to help the Contractor identify types of ceilings. These shades do NOT indicate finish colors.

LEGEND - REFLECTED CEILING PLAN
1/8" = 1'-0"



2 | TYPICAL CEILING BULKHEAD
A6-1 | 3/4" = 1'-0"

KEYNOTES - NEW WORK - FLOOR PLANS

NO.	DESCRIPTION
1	ALIGN NEW WALL WITH EXISTING
2	INFILL WALL TO MATCH EXISTING CONSTRUCTION.
3	PROVIDE SOUND SEALS FOR DOOR.
4	REMOTE WATER SHUT OFF
5	PROVIDE WINDOW SPEAKER
6	INSTALL NEW PLUMBING FIXTURES
7	INSTALL NEW CASEWORK
8	PROVIDE 4X8 SHEET OF DEDICATED PLYWOOD FOR MOUNTING DATA EQUIPMENT
9	PREPARE ROOM FOR NEW FINISHES, AND INSTALL NEW FINISHES AS SCHEDULED.
10	INSTALL EQUIPMENT AND ACCESSORIES
11	PROVIDE NEW DOOR SIGNAGE
12	INSTALL NEW PASS THROUGH CABINET.
13	INSTALL NEW COOKSON (TM) MOTOR OPERATED, BRICK PATTERN, ROLLING GRILLE, WALL MOUNTED SECURITY GATE ABOVE CEILING AT PHARMACY WINDOW. SECURITY GATE TO COVER THE ENTIRE GLAZING SYSTEM. SEE MANUFACTURER SPECIFICATIONS FOR MOUNTING INSTRUCTIONS AND CEILING SPACING REQUIREMENTS
14	INSTALL NEW ADA HI-LO DRINKING FOUNTAIN
15	INSTALL NEW TOPPING COAT, AND INSTALL NEW LVT

KEYNOTES - NEW WORK - CEILINGS

NO.	DESCRIPTION
1	INSTALL NEW ACOUSTICAL CEILING TILE ACCORDING TO PLANS
2	INSTALL NEW LIGHT FIXTURES ACCORDING TO PLAN
3	ALL CEILINGS TO COORDINATE WITH MEP PLANS

1 | First Floor Plan - Phase 1
A6-1 | 3/16" = 1'-0"

SCALE: 3/16" = 1'-0"
0' 4' 8' 16' 32'

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Beekman Point ENGINEERING

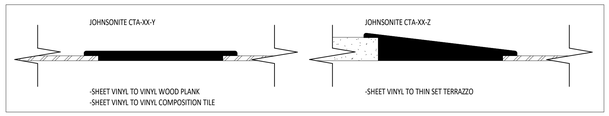
Project Status:
Working Drawings
Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

Drawing Name:
RCP- Phase 1

Drawing No:
A6-1

Plotted: 10/28/2021 1:41:08 AM



4 | FLOORING TRANSITION DETAILS
A7-1 | 12" = 1'-0"

FINISH PLAN NOTES:

1. MATCH BULKHEAD PAINT COLOR WITH ADJACENT WALL COLOR U.N.O.

FINISH LEGEND		
WALLS		
	P1 (FIELD PAINT)	SHERWIN WILLIAMS SW 7029 AGREEABLE GRAY EGGSHELL FINISH
	P2 (ACCENT PAINT)	SHERWIN WILLIAMS SW 7005 PURE WHITE SEMI-GLOSS FINISH
	P3 (ACCENT PAINT)	SHERWIN WILLIAMS SW 7031 MEGA GREIGE EGGSHELL FINISH
	P4 (DOOR FRAME PAINT)	SHERWIN WILLIAMS SW 7019 GAUNTLET GRAY SEMI-GLOSS FINISH
	P5 (ACCENT PAINT)	SHERWIN WILLIAMS SW 9143 CADET EGGSHELL FINISH
	P6 (ACCENT PAINT)	SHERWIN WILLIAMS SW 9141 WATERLOO EGGSHELL FINISH
	CT2 (CERAMIC TILE)	DALTILE 3" X 6" CLASSIC COLOR WHEEL COLLECTION - SUBWAY WALL TILE - WHITE 0100 WITH MAPEI WHITE GROUT 00+. INSTALLED SUBWAY/BRICK PATTERN.
FLOORS		
	LVT1 (LUXURY VINYL TILE)	MOHAWK HOT AND HEAVY SECOYA - WOODLAND 878 - 20 MIL WEAR LAYER - 9"W X 59"L - INSTALLED 1/3 BRICK PATTERN
	LVT2 (LUXURY VINYL TILE)	RESERVED
	C1 (CARPET TILE)	EF CONTRACT CARTPET TILE STYLE: IMMERSE IMM54 CHARRED 24" X 24" TILE. MONOLITHIC INSTALLATION.
	C2 (WALK OFF CARPET TILE)	SHAW WELCOME II TILE - STEPPIN OUT - 24" X 24" - CHARCOAL 31549
	SV1 (SHEET VINYL)	ARMSTRONG HOMOGENEOUS SHEET FLOORING MEDINTECH WITH DIAMOND 10 TECHNOLOGY 84163 ALMOND
	CT1 (CERAMIC TILE)	DALTILE SANDALO SW92 CASTILLIAN GRAY 12" X 12" - RUNNING INSTALLATION. WITH MAPEI SAHARA BEIGE GROUT - 11+
WALL BASE		
	B1 (RUBBER WALL BASE)	JOHNSONITE 4"
	B2 (CERAMIC TILE WALL BASE)	DALTILE SANDALO SW92 CASTILLIAN GRAY 3" X 12" BULLNOSE - RUNNING INSTALLATION. WITH MAPEI SAHARA BEIGE GROUT - 11+
	SV2 (SHEET VINYL INTEGRATED COVE BASE)	ARMSTRONG HOMOGENEOUS SHEET FLOORING MEDINTECH WITH DIAMOND 10 TECHNOLOGY 84163 ALMOND - 6" COVE BASE
CASEWORK		
	L1 (VERTICAL LAMINATE)	WILSONART 5TH AVE ELM 7966K-12 SOFTGRAIN FINISH WITH AEON.
	L2 (ACCENT LAMINATE)	WILSONART PEPPERDUST - D327-60 MATTE FINISH
	L3 (ACCENT LAMINATE)	WILSONART FOSSIL SHALE - D504-60 MATTE FINISH
	SS1 (SOLID SURFACE)	CORIAN WHITE JASMINE
WALL PROTECTION		
	CG1 (CORNER GUARDS)	INPRO - COLOR BY ARCHITECT
	WP2 (SHEET WALL PROTECTION)	RESERVED
ACCESSORIES		
	TOILET PARTITIONS	ASI BLACK PHENOLIC CORE TOILET PARTITIONS - COLOR BY ARCHITECT

FINISH LEGEND
1 1/2" = 1'-0"

1 | First Floor Plan - Finish Plan - Phase 1
A7-1 | 3/16" = 1'-0"

FINISH SCHEDULE PHASE 1

SPACE NO	SPACE NAME	AREA	FLOOR FINISH	BASE FINISH	WALL FINISH	CASEWORK FINISH: HORIZONTAL SURFACE	CASEWORK FINISH: VERTICAL SURFACE	COMMENTS
100	ENTRANCE	75 SF	LVT1	B1	P1	-----	-----	
100	CORRIDOR	167 SF	LVT1	B1	P1, P3	-----	-----	
101	WAITING RM	193 SF	LVT1	B1	P1, P3	-----	-----	
102	RECEPTION	128 SF	LVT1	B1	P1, P5	SS1	L1	
103	TRIAGE	68 SF	LVT1	B1	P1	SS1	L1	
104	EXAM 1	96 SF	LVT1	B1	P1, P5	SS1	L1	
105	EXAM 2	91 SF	LVT1	B1	P1, P3	SS1	L1	
106	EXAM 3	91 SF	LVT1	B1	P1, P5	SS1	L1	
107	TELEMED EXAM	101 SF	LVT1	B1	P1, P3	SS1	L1	
108	STOREROOM	96 SF	LVT1	B1	P1	-----	-----	
109	EVS	11 SF	LVT1	B1	P1	-----	-----	
110	SOILED	13 SF	LVT1	B1	P1	-----	-----	
111	STAFF TLT	48 SF	CT1	B2	P1 EPOXY PAINT, CT2	-----	-----	
112	CHECK-IN	96 SF	LVT1	B1	P1, P5	-----	-----	
113	CORRIDOR	31 SF	LVT1	B1	P1	-----	-----	
114	PHARMACY	515 SF	C1	B1	P1	SS1	L1	
115	BREAKROOM	143 SF	LVT1	B1	P1, P5, CT2	SS1	L1	
116	DATA	22 SF	LVT1	B1	P1	-----	-----	
117	STAFF OFFICE	77 SF	C1	B1	P1	-----	-----	
118	TECH OFFICE	59 SF	C1	B1	P1	-----	-----	
119	HALL	9 SF	LVT1	B1	P1	-----	-----	
120	LAB	66 SF	SV1	SV2	P1, P5	SS1	L1	
120A	LAB	73 SF	SV1	SV2	P1, P3	SS1	L1	
121	TLT	50 SF	CT1	B2	P1 EPOXY PAINT, CT2	-----	-----	
122	CORRIDOR	183 SF	LVT1	B1	P1, P3	-----	-----	
124	CORRIDOR	2,208 SF	LVT1	B1	P1, P2, P3, P6	-----	-----	
201	RECEPTION	128 SF	LVT1	B1	P1, P2	SS1	L1	
202	UNISEX FAMILY RESTROOM	61 SF	CT1	B2	P1 EPOXY PAINT, CT2	-----	-----	
243	CLASSROOM	702 SF	LVT1	B2	P1, P3	-----	-----	
244	STAIRS	220 SF	ETR	ETR	P1	-----	-----	
245	CLASSROOM	694 SF	LVT1	B1	P1, P6	-----	-----	
246	CLASSROOM	792 SF	LVT1	B1	P1, P6	-----	-----	
247	HVAC	55 SF	LVT1	B1	P1	-----	-----	
248	STORAGE	68 SF	LVT1	B1	P1	-----	-----	
249	ELEC / HVAC	55 SF	LVT1	B1	P1	-----	-----	
250	WOMENS RESTROOM	245 SF	CT1	B2	P1 EPOXY PAINT, CT2	SS1	L1	
251	MENS RESTROOM	193 SF	CT1	B2	P1 EPOXY PAINT, CT2	SS1	L1	
260	STAIRS	219 SF	ETR	ETR	P1	-----	-----	
261	JANITOR	35 SF	SV1	SV2	P1	-----	-----	

SCALE: 3/16" = 1'-0"
0' 4' 8' 16' 32'

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Project Status: Working Drawings
Revision No (if any): Revision Date:
Project No: 2021-003 Current Date: 10/25/21
Drawing Name:

Finish Plan - Phase 1
Drawing No: **A7-1**

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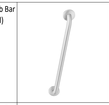
TOILET ACCESSORIES BY ROOM PHASE 1

ROOM NO.	ROOM NAME	TYPE MARK	DESCRIPTION	COUNT	O,C / C,C / O,O
103					
103	TRIAGE	T6	Hand Sanitizer Dispenser	1	O,C
103	TRIAGE	T7	Soap Dispenser	1	O,C
103	TRIAGE	T9	Paper Towel Dispenser, surface-mounted.	1	O,C
104					
104	EXAM 1	T6	Hand Sanitizer Dispenser	1	O,C
104	EXAM 1	T7	Soap Dispenser	1	O,C
104	EXAM 1	T9	Paper Towel Dispenser, surface-mounted.	1	O,C
105					
105	EXAM 2	T6	Hand Sanitizer Dispenser	1	O,C
105	EXAM 2	T7	Soap Dispenser	1	O,C
105	EXAM 2	T9	Paper Towel Dispenser, surface-mounted.	1	O,C
106					
106	EXAM 3	T6	Hand Sanitizer Dispenser	1	O,C
106	EXAM 3	T7	Soap Dispenser	1	O,C
106	EXAM 3	T9	Paper Towel Dispenser, surface-mounted.	1	O,C
107					
107	TELEMED EXAM	T6	Hand Sanitizer Dispenser	1	O,C
107	TELEMED EXAM	T7	Soap Dispenser	1	O,C
107	TELEMED EXAM	T9	Paper Towel Dispenser, surface-mounted.	1	O,C
111					
111	STAFF TLT	T1	18" Grab Bar (Vertical)	1	C,C
111	STAFF TLT	T3	36" Grab Bar	1	C,C
111	STAFF TLT	T4	42" Grab Bar	1	C,C
111	STAFF TLT	T6	Hand Sanitizer Dispenser	1	O,C
111	STAFF TLT	T7	Soap Dispenser	1	O,C
111	STAFF TLT	T8	ADA Surface Mounted Automatic Hand Dryer	1	O,C
111	STAFF TLT	T10	Toilet Paper Dispenser.	1	O,C
111	STAFF TLT	T14	18" x 36" Mirror.	1	C,C
111	STAFF TLT	T17	Surface Mounted Sanitary Napkin Disposal	1	O,C
114					
114	PHARMACY	T6	Hand Sanitizer Dispenser	1	O,C
114	PHARMACY	T7	Soap Dispenser	1	O,C
114	PHARMACY	T9	Paper Towel Dispenser, surface-mounted.	1	O,C
115					
115	BREAKROOM	T6	Hand Sanitizer Dispenser	1	O,C
115	BREAKROOM	T7	Soap Dispenser	1	O,C
115	BREAKROOM	T9	Paper Towel Dispenser, surface-mounted.	1	O,C
120					
120	LAB	T6	Hand Sanitizer Dispenser	1	O,C
120	LAB	T7	Soap Dispenser	1	O,C
120	LAB	T8	ADA Surface Mounted Automatic Hand Dryer	1	O,C
120	LAB	T30	Specimen Pass-Thru Cabinet	1	C,C
120A					
120A	LAB	T6	Hand Sanitizer Dispenser	1	O,C
120A	LAB	T7	Soap Dispenser	1	O,C
120A	LAB	T9	Paper Towel Dispenser, surface-mounted.	1	O,C
121					
121	TLT	T1	18" Grab Bar (Vertical)	1	C,C
121	TLT	T3	36" Grab Bar	1	C,C
121	TLT	T4	42" Grab Bar	1	C,C
121	TLT	T6	Hand Sanitizer Dispenser	1	O,C
121	TLT	T7	Soap Dispenser	1	O,C
121	TLT	T8	ADA Surface Mounted Automatic Hand Dryer	1	O,C
121	TLT	T10	Toilet Paper Dispenser.	1	O,C
121	TLT	T14	18" x 36" Mirror.	1	C,C
121	TLT	T17	Surface Mounted Sanitary Napkin Disposal	1	O,C
202					
202	UNISEX FAMILY RESTROOM	T1	18" Grab Bar (Vertical)	1	C,C
202	UNISEX FAMILY RESTROOM	T3	36" Grab Bar	1	C,C
202	UNISEX FAMILY RESTROOM	T4	42" Grab Bar	1	C,C
202	UNISEX FAMILY RESTROOM	T6	Hand Sanitizer Dispenser	1	O,C
202	UNISEX FAMILY RESTROOM	T7	Soap Dispenser	1	O,C
202	UNISEX FAMILY RESTROOM	T8	ADA Surface Mounted Automatic Hand Dryer	4	O,C
202	UNISEX FAMILY RESTROOM	T10	Toilet Paper Dispenser.	1	O,C
202	UNISEX FAMILY RESTROOM	T15	24" x 36" Mirror.	1	C,C
202	UNISEX FAMILY RESTROOM	T17	Surface Mounted Sanitary Napkin Disposal	1	O,C
250					
250	WOMENS RESTROOM	T1	18" Grab Bar (Vertical)	1	C,C
250	WOMENS RESTROOM	T3	36" Grab Bar	1	C,C
250	WOMENS RESTROOM	T4	42" Grab Bar	1	C,C
250	WOMENS RESTROOM	T6	Hand Sanitizer Dispenser	2	O,C
250	WOMENS RESTROOM	T7	Soap Dispenser	2	O,C
250	WOMENS RESTROOM	T8	ADA Surface Mounted Automatic Hand Dryer	2	O,C
250	WOMENS RESTROOM	T10	Toilet Paper Dispenser.	3	O,C
250	WOMENS RESTROOM	T14	18" x 36" Mirror.	3	C,C
250	WOMENS RESTROOM	T17	Surface Mounted Sanitary Napkin Disposal	3	O,C
251					
251	MENS RESTROOM	T1	18" Grab Bar (Vertical)	1	C,C
251	MENS RESTROOM	T3	36" Grab Bar	1	C,C
251	MENS RESTROOM	T4	42" Grab Bar	1	C,C
251	MENS RESTROOM	T6	Hand Sanitizer Dispenser	2	O,C
251	MENS RESTROOM	T7	Soap Dispenser	2	O,C
251	MENS RESTROOM	T8	ADA Surface Mounted Automatic Hand Dryer	2	O,C
251	MENS RESTROOM	T10	Toilet Paper Dispenser.	1	O,C
251	MENS RESTROOM	T14	18" x 36" Mirror.	3	C,C

TOILET ACCESSORY SCHEDULE

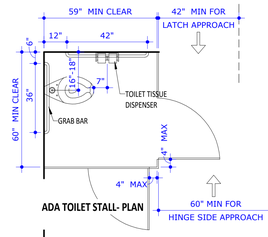
Type Mark	Count	Item	Image	Description	Model
T1	5	18" Grab Bar (Vertical)		1 1/4" diameter, heavy-duty satin-finish stainless steel, concealed mounting.	ASI 3700 series, Bobrick B-5806, Bradley 832.
T3	5	36" Grab Bar		1 1/4" diameter, heavy-duty satin-finish stainless steel, concealed mounting.	ASI 3700 series, Bobrick B-5806, Bradley 832.
T4	5	42" Grab Bar		1 1/4" diameter, heavy-duty satin-finish stainless steel, concealed mounting.	ASI 3700 series, Bobrick B-5806, Bradley 832.
T6	16	Hand Sanitizer Dispenser		Surface-mtd, vertical, manual dispenser.	Select dispenser for product being dispensed.
T7	16	Soap Dispenser		Surface-mtd, vertical, satin-finish stainless steel, 40 oz capacity.	ASI 0347, Bobrick B-2111, Bradley 6562
T8	11	ADA Surface Mounted Automatic Hand Dryer		Satin-finish, stainless steel, ADA Surface Mounted Automatic Hand Dryer	Bobrick B-7128 208-240V, ASI 0185-93, Bradley 2902-287400
T9	8	Paper Towel Dispenser, surface-mounted.		Satin-finish stainless steel, dispenses 400 C-fold or 525 multi-fold, surface mounting.	ASI 0210, Bobrick B-262, Bradley 250-15.
T10	7	Toilet Paper Dispenser.		Dual-roll dispenser, cast aluminum, non-controlled delivery.	ASI 0264-1A, Bobrick B-2740, Bradley 5241-50.
T14	8	18" x 36" Mirror.		Mirror with channel frame.	ASI 0620 series, Bobrick B-165, Bradley 781.
T15	1	24" x 36" Mirror.		Mirror with channel frame.	ASI 0620 series, Bobrick B-165, Bradley 781.
T17	6	Surface Mounted Sanitary Napkin Disposal		Satin-finish stainless steel, 1.2 gallon plastic liner, lockable.	ASI 0473-1A, Bobrick B-254, Bradley 4722-15.
T30	1	Specimen Pass-Thru Cabinet		Type 304 stainless steel, satin finish. Self-closing doors. Interlocking mechanism prevents both doors from being open at the same time; provides sight barrier. Removable stainless steel tray.	ASI 8154, Bobrick B-505, Bradley 9813.

1 | First Floor Plan - Equipment Plan - Phase 1
A7-2 | 3/16" = 1'-0"

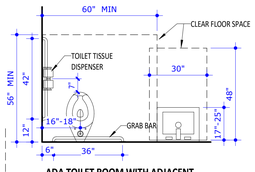
2 | Phase 1.1 Patient Toilet Callout
A7-2 | 1/2" = 1'-0"

3 | Phase 1.1 Staff Toilet Callout
A7-2 | 1/2" = 1'-0"

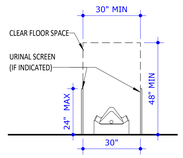
4 | Patient Toilet Elevation - Passthru Location
A7-2 | 3/8" = 1'-0"



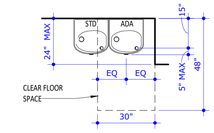
ADA TOILET STALL- PLAN



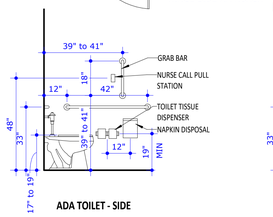
ADA TOILET ROOM WITH ADJACENT LAVATORY - PLAN



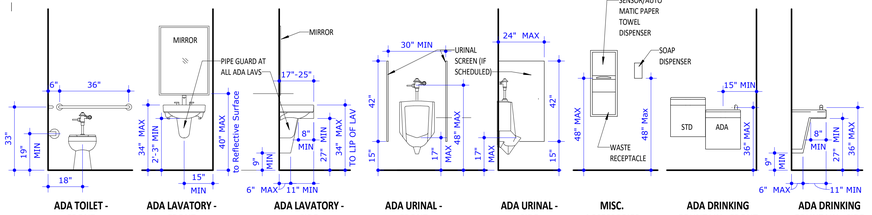
ADA URINAL - PLAN



ADA DRINKING FOUNTAIN - PLAN



ADA TOILET - SIDE



ADA TOILET - FRONT | **ADA LAVATORY - FRONT** | **ADA LAVATORY - SIDE** | **ADA URINAL - FRONT** | **ADA URINAL - SIDE** | **MISC. ACCESSORIES** | **ADA DRINKING FOUNTAIN - FRONT** | **ADA DRINKING FOUNTAIN - SIDE**

LEGEND - ADA ACCESSIBLE FIXTURES
3/8" = 1'-0"

SPECIALTY EQUIPMENT SCHEDULE

CATEGORY	TYPE MARK	DESCRIPTION	COUNT	O,C / C,C / O,O
FURNITURE	F6	GUEST CHAIRS	16	O,O
GENERAL EQUIPMENT	E200	MICROWAVE, ABOVE RANGE	1	O,C
GENERAL EQUIPMENT	E201	DUAL COOKTOP	1	C,C
GENERAL EQUIPMENT	E202	COFFEE POT	1	C,C
GENERAL EQUIPMENT	E203	Refrigerator, Domestic, w/Freezer, Side-by-Side	1	O,C
GENERAL EQUIPMENT	E205	PRINTER / COPIER / FAX	1	O,O
GENERAL EQUIPMENT	G107	SECURITY GATE AT PHARMACY WINDOW	1	C,C
GENERAL EQUIPMENT	TV02	42" FLAT SCREEN TV	1	O,C
MEDICAL EQUIPMENT	M101	LAB REFRIGERATOR	2	O,C
MEDICAL EQUIPMENT	M102	LAB HALF SIZE REFRIGERATOR	1	O,C
MEDICAL EQUIPMENT	M103	OTOSCOPE	4	O,C
MEDICAL EQUIPMENT	M104	FLOOR SCALE	1	O,O

FIXTURE AND ACCESSORY MOUNTING NOTES:
1. Install accessories at mounting heights indicated UNO.
2. Provide partition blocking for wall-mounted items, such as grab bars. (See Partition Blocking detail.)
3. Provide indicated clear floor space for all fixtures and accessories.
4. Where accessories are indicated to be installed on or within toilet partitions, coordinate required fastening reinforcements, cutouts, and other required accommodations with the fabrication and installation of the toilet partition system.
5. Provide/install flush valve controls that are accessible from interior of room UNO.

WM2A ARCHITECTS
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Seal:

Renovations of
Baywood Technology & Community Center
Address
Address

Project Status: Working Drawings
Revision No (if any): Revision Date:
Project No: 2021-003 Current Date: 10/25/21
Drawing Name: **Equipment Plan - Phase 1, Toilet Accessories, and ADA Legend**
Drawing No: **A7-2**

GENERAL MECHANICAL SYMBOLS

- /0 — REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- 1 — KEYNOTE
- CONTINUATION SYMBOL
- Room 5 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
EXA	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC SYMBOLS

- 18"x12" — SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
- 18"/12" — OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
- 18"Ø — ROUND DUCT SIZE TAG (DIAMETER)
- (E) — EXISTING DUCT TAG
- DUCT BEING DEMOLISHED
- 18"x18" S/A — SUPPLY AIR
- 18"x18" S-O/A — CONDITIONED OUTSIDE AIR
- 18"x18" O/A — OUTSIDE AIR
- 18"x18" R/A — RETURN AIR
- 18"x18" T/A — TRANSFER AIR
- 18"x18" E/A — EXHAUST AIR
- 18"x18" L/A — RELIEF AIR
- 18"x18" GE/A — GREASE EXHAUST AIR
- 18"x18" CE/A — CONDENSATE EXHAUST AIR
- 18"x18" SE/A — SMOKE EXHAUST AIR
- 5"Ø FLUE — EXHAUST GAS FLUE
- 6"Ø C/A — COMBUSTION AIR
- DROP — RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — ROUND SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
- DROP — ROUND RETURN/TRANSFER AIR DUCT RISE
- DROP — RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
- DROP — ROUND EXHAUST/RELIEF AIR DUCT RISE

GRILLES, REGISTERS & DIFFUSERS TAG

- TYPE (SEE SCHEDULE) 3-CONE DIFFUSER — SD1 | 400 | 10" / 24x24 | H-57/14 — CFM, NECK SIZE / MODULE SIZE, THROW-150FPM/ 100FPM/ 50FPM, THROW PATTERN, MAX NC RATING
- PERFORATED DIFFUSER WITH DEFLECTORS — SD3 | 300 | 10" / 24x24
- ROUND DIFFUSER WITH ADJUSTABLE PATTERNS — SD2 | 400 | 12" / ---
- EGGCRATE RETURN GRILLE — RG2 | 500 | 12"x10" / 24x24 | 18
- LOUVERED DOUBLE DEFLECTION GRILLE — SG1 | 500 | 12"x10"
- LOUVERED GRILLE — RG11 | 500 | 12"x10" / 24x12
- LINEAR BAR GRILLE — SLB3 | 400 | 48"x2 1/2"

LINEAR DIFFUSER TAG

- TYPE (SEE SCHEDULE) — LSD1 | 200 | 1 / 4' - 0" / 8' | 8' - 0" AFF — CFM, NUMBER OF SLOTS / ACTIVE SLOT LENGTH (PLENUM LENGTH) / NECK SIZE, ELEVATION (CENTER OF FACE), SECTION TOTAL TRACK LENGTH
- LINEAR SLOT DIFFUSER — LSD1 | 200 | 1 / 4' - 0" / 8'

MECHANICAL EQUIPMENT TAGS

- HEATING COIL FLOW — VAV-XX — Htg: 3.7 GPM VAV BOX
- BOTTOM OF EQUIPMENT ELEVATION — VAV-XX — 10' - 0"
- EXISTING EQUIPMENT TO REMAIN — VAV-XX
- EXISTING RELOCATED EQUIPMENT — VAV-XX
- EQUIPMENT BY OTHERS (REFER TO OTHER DISCIPLINE FOR ADDITIONAL INFORMATION) — VAV-XX
- OPERATING WEIGHT NOT INCLUDING CURB — RTU-XX — 590 lb
- NOMINAL COOLING CAPACITY — RTU-XX — 4.0 ton — ROOFTOP UNIT
- FUEL INPUT GAS PIPE FLOW — RTU-XX — 115,000 Btu/h / 115 CFH

DATA DEVICE TAGS

SYMBOL / EQUIPMENT ID

- CARBON DIOXIDE SENSOR — CO2 | TH — RTU-XX — TEMPERATURE & HUMIDITY SENSOR
- CARBON MONOXIDE SENSOR — CO | TS — VAV-XX — TEMPERATURE SENSOR
- NITROGEN DIOXIDE SENSOR — NO2 | T — THERMOSTAT
- HUMIDITY SENSOR — HS | MS — MANUAL SWITCH
- HUMIDISTAT — H | S — SENSOR
- PANEL NAME — BMS CONTROL PANEL — HVAC-CP-X

DAMPER TAGS

- COMB. FIRE/SMOKE DAMPER — MANUAL BALANCING DAMPER
- SMOKE DAMPER — MOTORIZED DAMPER
- FIRE DAMPER — BACKDRAFT DAMPER
- F | S | C | B | M | D — 12"x12" S/A

PIPING SYMBOLS

- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CD — CONDENSATE DRAINAGE
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- GWR — GEOTHERMAL WATER RETURN
- GWS — GEOTHERMAL WATER SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- G — NATURAL GAS
- PG — PROPANE GAS
- REF-L — REFRIGERANT-LIQUID
- REF-S — REFRIGERANT-SUCTION
- REF-HG — REFRIGERANT-HOT GAS
- STM — STEAM
- CDR — CONDENSATE RETURN

- PIPE DROP / PIPE RISE / PIPE TEE / CAP
- 4" / 2" — PLUG / REDUCING 45 DEGREE TEE / 45 DEGREE TEE

PIPE ACCESSORY TAGS

- WM — 2" DOM. WM — DOMESTIC WATER METER
- 2" BALANCING — BALANCING VALVE
- 2" SHUTOFF — 1/4 TURN BALL VALVE
- 2" CHECK — CHECK VALVE
- 2" TMV — 3-WAY MIXING VALVE
- M — 2" M-CNTRL — MOTORIZED CONTROL VALVE
- M — 2" 3-WAY CNTRL — 3 WAY MOTORIZED CONTROL VALVE
- 2" PRV — PRESSURE REDUCING VALVE
- S — 3/8" SOLENOID — REFRIGERANT SOLENOID VALVE
- 2" BUTTERFLY — BUTTERFLY VALVE

PROJECT GENERAL NOTES

A LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

B CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

C PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

D PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

E COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

F FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

G INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

H PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

I PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

J ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

K FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

L INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

M PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

N LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

O MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

P ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM *10'-0"* FROM EDGE OF ROOF.

Q REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

R THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

S THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.

T WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

U THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

V LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

W REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.

X ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES AND LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.

Y THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

HVAC GENERAL NOTES

A PROVIDE ALL MATERIALS AND LABOR FOR COMPLETE AND PROPERLY FUNCTIONING MECHANICAL SYSTEMS. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNERS ACCEPTANCE.

B WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE INTERNATIONAL MECHANICAL CODE, SMACNA, ASHRAE AND ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES WHICH APPLY TO THIS WORK.

C DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS.

D ALL MATERIALS, EQUIPMENT AND DEVICES SHALL MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE/USED.

E COORDINATE LOCATION OF MECHANICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. PROVIDE OWNER TRAINING ON SYSTEM OPERATION.

F INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN, PRINTED INSTRUCTIONS AND RECOMMENDATIONS.

G PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.

H MAKE CONNECTIONS FROM MECHANICAL EQUIPMENT TO DUCTWORK USING FLEXIBLE DUCT CONNECTIONS.

I DUCT SIZES INDICATED ARE NET FREE INSIDE DIMENSIONS OF RECTANGULAR METAL DUCT. AT CONTRACTOR'S OPTION, EQUIVALENT SIZE ROUND DUCT MAY BE USED.

J PROVIDE FLOAT SWITCH IN ALL SECONDARY PANS TO SHUT OFF UNITS WHEN DRAINS BECOME OBSTRUCTED.

K CONTRACTOR SHALL FURNISH AND INSTALL ALL MANUAL DAMPERS NEEDED FOR AN OPERATIONAL SYSTEM. ALL DAMPERS SHALL BE OFFSET, LOCKING, QUADRANT TYPE DAMPERS.

L WHERE PIPES PENETRATE FIRE RATED WALLS, FLOORS OR CEILING, SEAL OPENING AROUND PIPES WITH UL LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE WALL, FLOOR OR CEILING IN ACCORDANCE WITH UL LISTED DESIGN FOR 1 HOUR PENETRATIONS. SUBMIT UL DESIGN FOR FIRE RATED PENETRATIONS SEALS TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO START OF WORK.

M MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL AN AIR FILTER PER MANUFACTURER'S INSTRUCTIONS PRIOR TO SYSTEM OPERATION. PROVIDE 3 SETS OF REPLACEMENT FILTERS FOR EACH AIR HANDLER. TOOLS SHALL NOT BE REQUIRED TO REPLACE ANY FILTER.

N ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SINGLE WALL GALVANIZED STEEL. ALL JOINTS AND SEAMS SHALL BE CLEAND, COATED AND SEALED WITH MASTIC OR MASTIC TAPE PRIOR TO APPLYING THE EXTERNAL INSULATION.

O UNLESS INDICATED AS A RADIUS ELBOW, ALL DUCT ELBOWS AND TEES SHALL HAVE TURNING VANES.

P ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH ROOFING CONTRACTOR TO ENSURE ROOF BOND WILL BE MAINTAINED.

Q ALL INDOOR CONDENSATE AND REFRIGERANT PIPING SHALL BE INSULATED WITH 1.5" ELASTOMERIC INSULATION. ALL REFRIGERANT PIPING EXPOSED TO OUTDOORS SHALL BE INSULATED WITH 1.5" ELASTOMERIC FOAM INSULATION WITH MINIMUM 0.16" ALUMINUM JACKET AND ALL JOINTS SHALL BE TAPED WITH ALUMINUM TAPE AROUND FULL CIRCUMFERENCE. EQUIVALENT MATERIALS APPROVED.

R PROVIDE ALL OPERATION AND MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT TO BUILDING OWNER.

S ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED TO A MINIMUM OF R-8. DUCT INSULATION SHALL BE EQUIVALENT TO OWENS CORNING SOFTR DUCT WRAP FRK.

T CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE SCEDULE 40 CPVC.

U PROVIDE LABELS FOR ABOVE GROUND PIPING. LABELS SHALL BE SELF ADHESIVE AND COMPLY WITH ANSI/ASME 13.1. PIPE WITH OUTSIDE DIAMETER 3/4" TO 1-1/4" SHALL HAVE MINIMUM TEXT HEIGHT OF 1/2". PIPE WITH OUTSIDE DIAMETER 1-1/2" TO 2" SHALL HAVE MINIMUM TEXT HEIGHT OF 3/4". PIPE WITH OUTSIDE DIAMETER GREATER THAN 2" SHALL HAVE TEXT HEIGHT OF 1-1/4". DOMESTIC COLD WATER, CONDENSATE AND LOW PRESSURE STEAM SHALL BE GREEN LABELS WITH WHITE LETTERING. NATURAL GAS SHALL BE YELLOW LABELS WITH BLACK LETTERING. ALL DOMESTIC WATER AND GAS PIPING LABELS SHALL INCLUDE FLOW DIRECTION ARROWS. PIPING SHALL BE LABELED AS INDICATED IN THE ABBREVIATIONS SCHEDULE. ATTACH LABELING TO PIPE EVERY 10 FEET.

V MECHANICAL CONTRACTOR SHALL VERIFY DUCT PLUS INSULATION HAS ADEQUATE SPACE FOR SPECIFIED CEILING HEIGHT ON ARCHITECTURAL PLANS PLUS DECONFLICT FIRE SPRINKLERS, ELECTRICAL LIGHTING SYSTEMS AND OTHER SYSTEMS LOCATED ABOVE THE CEILING PRIOR TO INSTALLING DUCT.

W UNLESS OTHERWISE INDICATED, RIGID DUCT SHALL HAVE A CONSTANT UPPER ELEVATION AND REMAIN ADJACENT TO THE STRUCTURE ABOVE. CHANGES IN DUCT HEIGHT SHALL BE MADE SUCH THAT THE BOTTOM ELEVATION OF THE DUCT IS MODIFIED.

X ALL EXPOSED ROUND AND OVAL SUPPLY DUCTWORK, SHALL BE DOUBLE WALL GALVANIZED STEEL WITH GASKETED JOINTS. THE DUCT SHALL HAVE AN INNER PERFORATED DUCT, A RETAINING LAYER, 1" THICK FLEXIBLE FIBERGLASS INSULATION LAYOR AND A SOLID OUTER DUCT. PROVIDE LINDAB OR APPROVED EQUAL. ALL EXPOSED GALVANIZED DUCT SHALL BE PAINTABLE.

HVAC SHEET INDEX

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Renovations of
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B.E.C.I.
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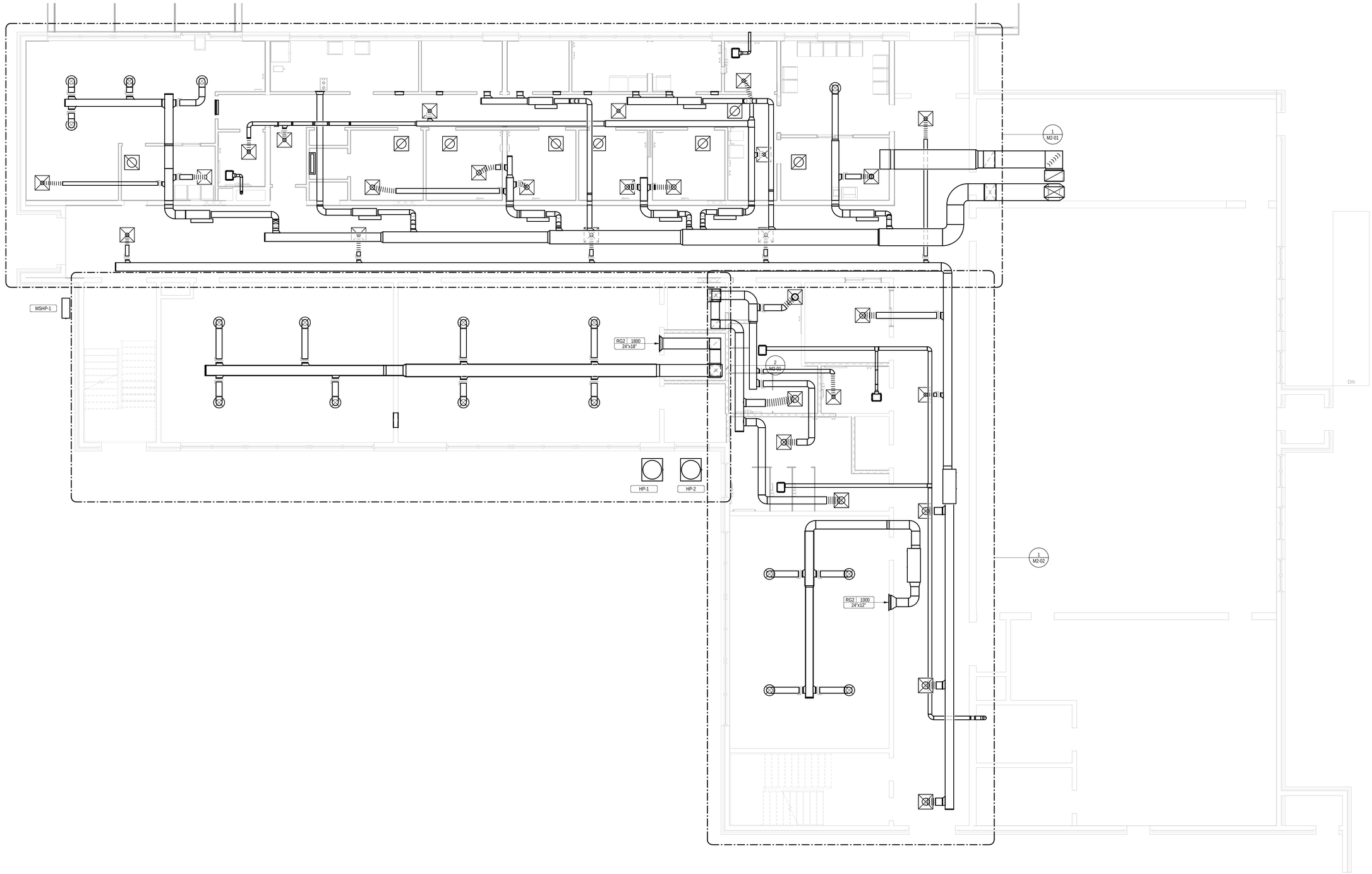
Beekman Point ENGINEERING

Project Status: ISSUE FOR CONSTRUCTION
Revision No (if any): 0 — Revision Date: 10/25/2021
Project No: 210063 — Current Date: 10/25/2021
Drawing Name: HVAC TITLE SHEET
Drawing No: M0-01

Printed: 10/25/2021 4:09:11 PM



1 M1-01 FIRST FLOOR PHASE 1 OVERALL MECHANICAL PLAN
3/16" = 1'-0"

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210063	10/25/2021

Drawing Name:
FIRST FLOOR PHASE 1 OVERALL MECHANICAL PLAN

Drawing No:
M1-01

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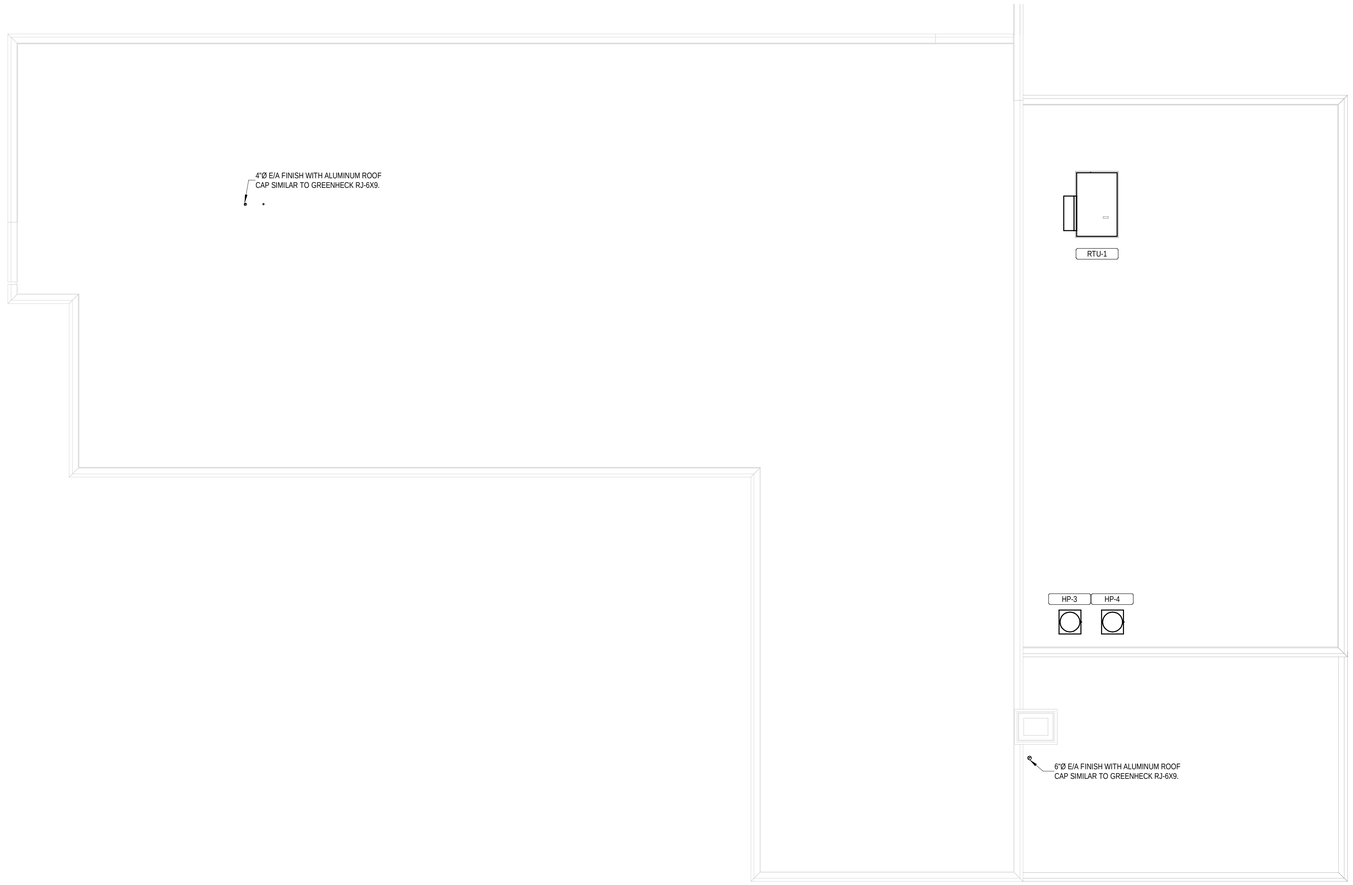

1 / M1-02 ROOF MECHANICAL PLAN
1/8" = 1'-0"

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Current Date: 10/25/2021

Drawing Name:
ROOF MECHANICAL PLAN

Drawing No:
M1-02

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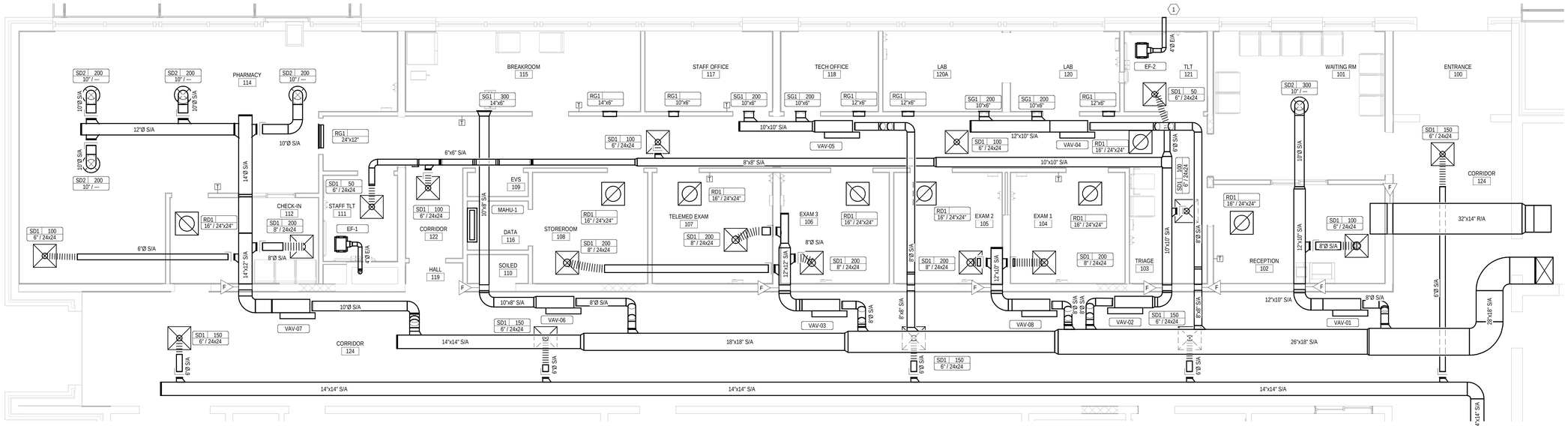
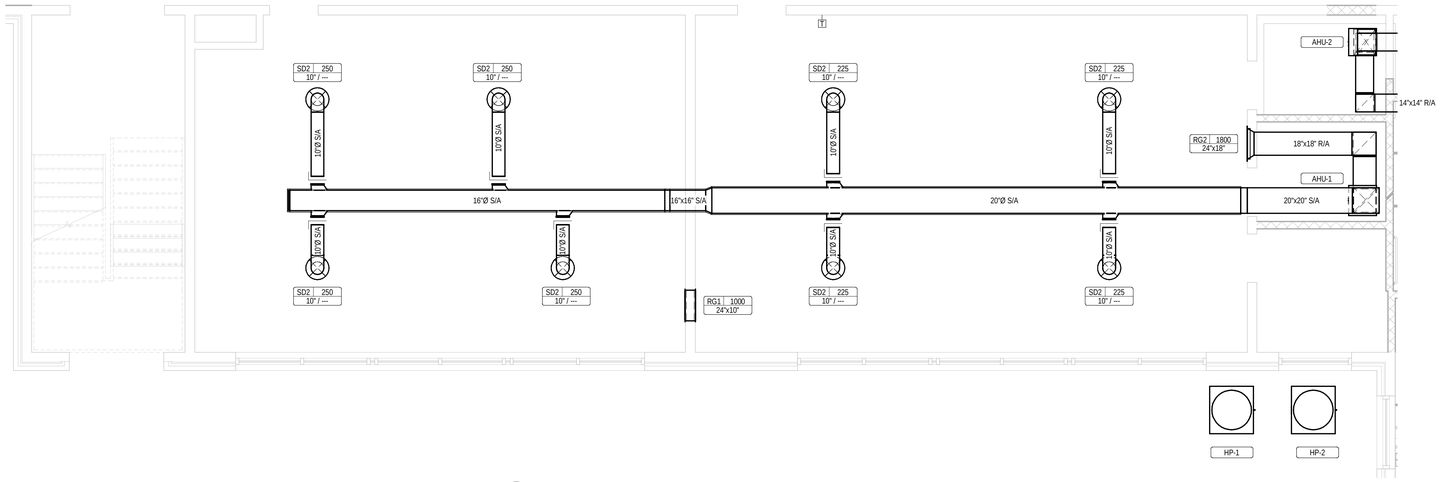
KEYNOTES

1 ROUTE 4" EIA DUCT THROUGH WALL AND FINISH WITH ALUMINUM WALL CAP SIMILAR TO GREENHECK WC-4.



1 M2-01 FIRST FLOOR PHASE 1 ENLARGED MEDICAL AREA MECHANICAL PLAN
1/4" = 1'-0"



2 M2-01 FIRST FLOOR PHASE 1 ENLARGED MEDICAL AREA MECHANICAL PLAN
1/4" = 1'-0"

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210063	10/25/2021

Drawing Name:
FIRST FLOOR PHASE 1 ENLARGED MECHANICAL PLAN

Drawing No:
M2-01

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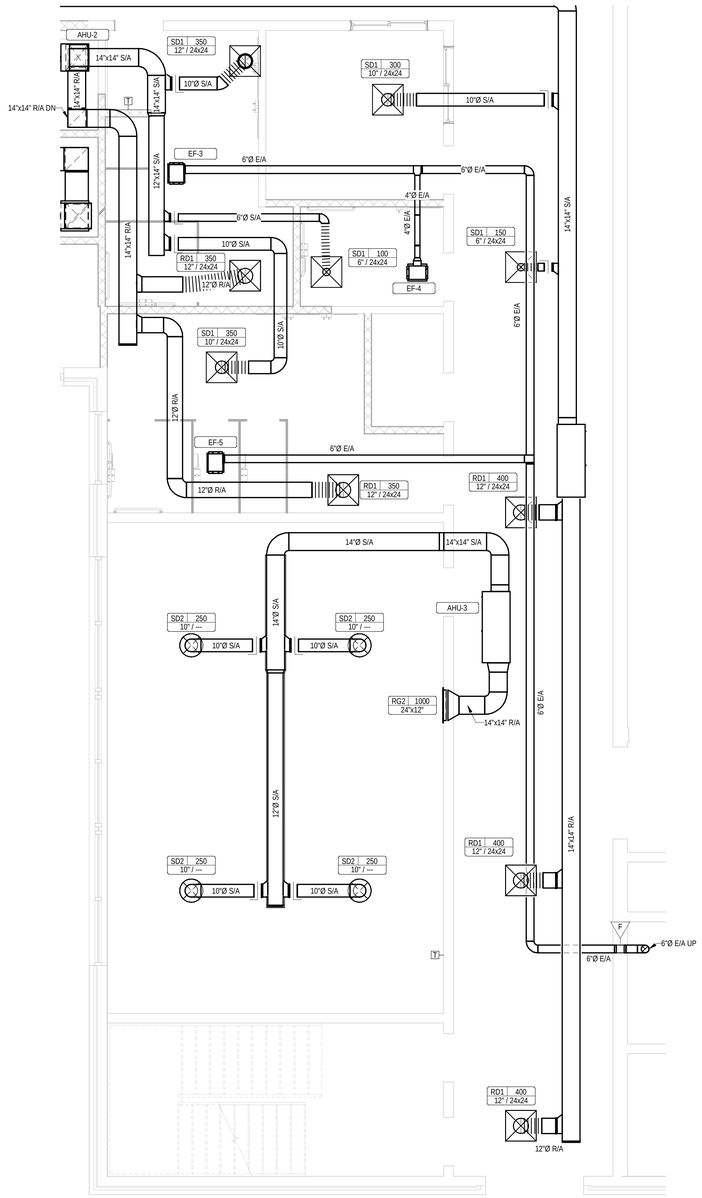

1 M2-02 FIRST FLOOR PHASE 1 ENLARGED CLASSROOM AREA MECHANICAL PLAN
1/4" = 1'-0"

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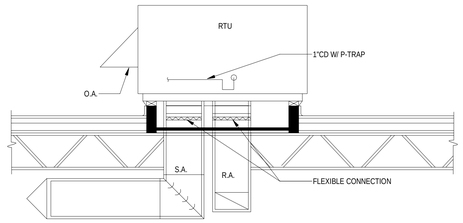
Drawing Name:
FIRST FLOOR PHASE 1 ENLARGED MECHANICAL PLAN

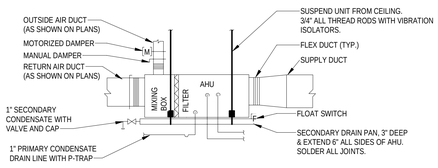
Drawing No:
M2-02

Plotted: 10/25/2021 11:00:14 AM



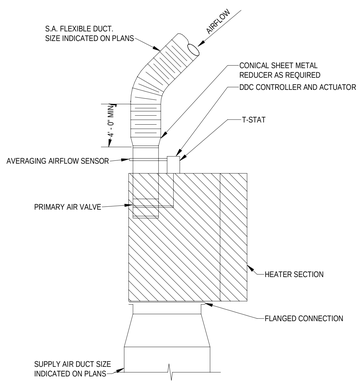
NOTES:
1. PACK ROOF CURB WITH FIBERGLASS INSULATION FOR ACOUSTICAL BENEFITS.
2. CONDENSATE TO DRAIN TO NEAREST ROOF DRAIN.
3. FOLLOW ALL MANUFACTURES INSTALLATION RECOMENDATIONS.

1 M5-01 DOWNFLOW RTU DETAIL
NOT TO SCALE

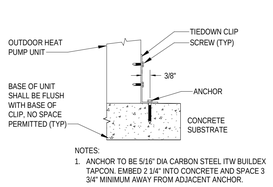


NOTES:
1. SET AHU ON PRESSURE TREATED 2"X4" RUNNERS (LENGTH OF AHU) IN THE DRAIN PAIN.
2. PROVIDE A FLOAT SWITCH TO SHUT DOWN UNIT IF SECONDARY DRAIN PAN FILLS WITH WATER.
3. FILTER SHALL BE REMOVEABLE WITHOUT TOOLS.
4. FIELD ROUTE CONDENSATE DAIN TO OUTSIDE OF BUILDING. SEE CONDENSATE DRAIN FIELD DETAIL.
5. PROVIDE 24 VOLT MOTORIZED, LOW LEAK DAMPER ACTUATOR (RUSKING MODEL CDRS25) AND INTERLOCK WITH COMPRESSOR. THE NORMALLY CLOSED DAMPER SHALL ONLY OPEN WHEN COMPRESSOR IS OPERATING IN HEATING OR COOLING MODE.

2 M5-01 HORIZONTAL AHU DETAIL
NOT TO SCALE

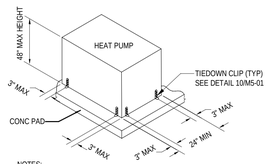


3 M5-01 VAV (ELECRTIC HEAT) DETAIL
NOT TO SCALE



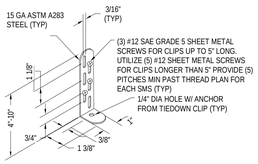
NOTES:
1. ANCHOR TO BE 5/16" DIA CARBON STEEL ITW BUILDEX TAPCON. EMBED 2 1/4" INTO CONCRETE AND SPACE 3 3/4" MINIMUM AWAY FROM ADJACENT ANCHOR.

4 M5-01 ANCHOR TIE DOWN DETAIL
NOT TO SCALE

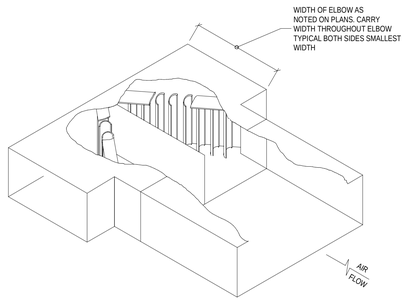


NOTES:
1. UTILIZE (2) STEEL CLIPS AT EACH CORNER FOR A TOTAL OF (8) PER UNIT.

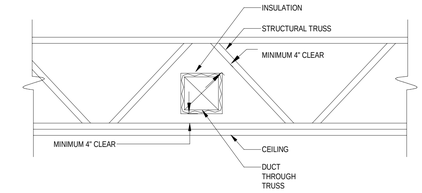
5 M5-01 HEAT PUMP PAD DETAIL
NOT TO SCALE



6 M5-01 TIE DOWN DETAIL
NOT TO SCALE

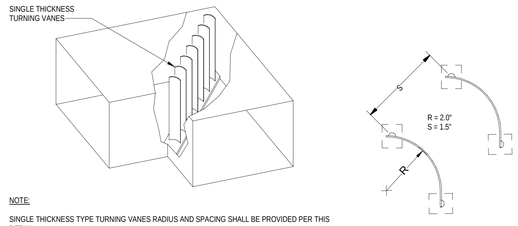


9 M5-01 DUCT SPLITTER DETAIL
NOT TO SCALE



NOTES:
1. SEE FLOOR PLANS FOR DUCT SIZES.
2. INSULATION MINIMUM 4" CLEAR ON ALL SIDES AS DUCT PASSES THROUGH JOIST
3. IF ASPECT RATIO MUST BE CHANGED TO MAINTAIN CLEARANCE, AREA OF INSIDE DUCT SHALL REMAIN THE SAME OR LARGER AS SHOWN ON THE FLOOR PLANS.

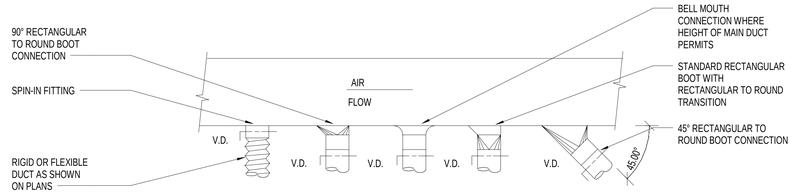
7 M5-01 DUCT THROUGH TRUSS DETAIL
NOT TO SCALE



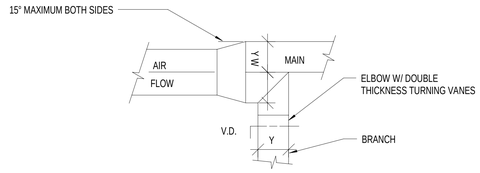
NOTE:

SINGLE THICKNESS TYPE TURNING VANES RADIUS AND SPACING SHALL BE PROVIDED PER THIS DETAIL.

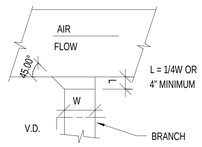
8 M5-01 SINGLE THICKNESS VANE ELBOW DETAIL
NOT TO SCALE



ROUND OR ALTERNATE RECTANGULAR TO ROUND DUCT BRANCH CONNECTIONS (BRANCH FLOW LESS THAN 25% OF MAIN FLOW)

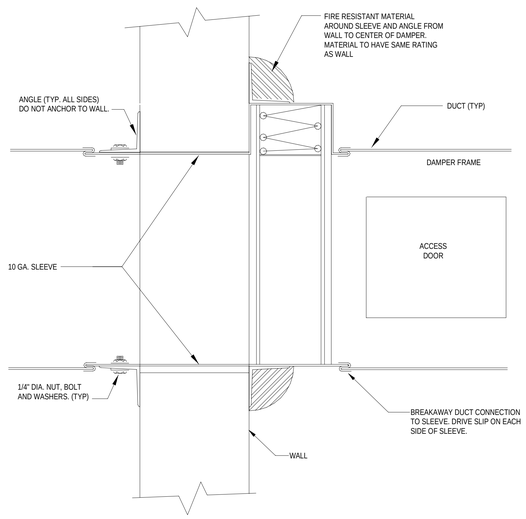


STANDARD RECTANGULAR BRANCH TAKE-OFF (BRANCH FLOW GREATER THAN 25% OF MAIN FLOW)



STANDARD RECTANGULAR DUCT BRANCH TAKE-OFF (BRANCH FLOW LESS THAN 25% OF MAIN FLOW)

10 M5-01 LOW VELOCITY DUCTWORK BRANCH TAKEOFF DETAIL
NOT TO SCALE



11 M5-01 FIRE DAMPER DETAIL
NOT TO SCALE

ANGLE IRON AND FASTENER DIMENSIONS		
LENGTH	ANGLE SIZE (MIN)	FASTENER LOCATION
0-48"	1-1/2"X 1-1/2" X 1/8"	8" ON CENTER
49-96"	2"X 2"X 1/8"	6" ON CENTER
96" & OVER	2-1/2"X 2-1/2"X 3/16"	6" ON CENTER

NOTES:
1. WHERE MANUFACTURER'S INSTRUCTIONS EXCEED THE REQUIREMENTS OF THIS DETAIL, THE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED.

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Project Status:
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Revision No (if any):	Revision Date:
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Project No:	Current Date:
210063	10/25/2021

Drawing Name:
MECHANICAL DETAILS

Drawing No:
M5-01

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ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NO.	TYPE	ARRANGEMENT	SUPPLY AIRFLOW	OUTSIDE AIR		FAN					INCLUDE POWER EXHAUST	COOLING COIL							INCLUDE ECONOMIZER	INCLUDE HGR	HEAT PUMP			HEATING ELEMENT								COMPRESSOR							FILTER						DISCONNECT	
								PRESS	DRIVE TYPE	MOTOR				NOMINAL CAP	CAP	AIRSIDE							CAP	AIRSIDE		DESCRIPTION	QTY	POWER	SCR	STAGES	VOLT	PH	FLA	REFRIGERANT		LOW AMBIENT KIT	SUMMER AMBIENT DBT	WINTER AMBIENT DBT	SEER	EER	FILTER		SEACOAST PROT	UNIT WEIGHT	MCA	MOCP	VOLT	PH		
						FLOW	DCV	ESP		QTY	POWER	ECM			TOTAL	SENSIBLE	EAT(db)	EAT(wb)	LAT(db)	LAT(wb)				EAT(db)	LAT(db)								TYPE	CHARGE					EFF							FURNISH BY	NOTES
RTU-1	TRANE	WHC120	HEAT PUMP	DOWNFLOW	3,600 CFM	450 CFM	No	1.50 in-wg	BELT	1	2.75 hp	No	No	10.0 ton	121,900 Btu/h	90,620 Btu/h	80.0 °F	67.0 °F	55.0 °F	54.0 °F	Yes	Yes	113,710 Btu/h	70.0 °F	99.3 °F	Electric Resistance	1	18 kW	Yes	3	208 V	3	50.0 A	R-410A	24 lb	No	95.0 °F	47.0 °F	15.5	11.5	30%	No	1617 lb	95.0 A	100.0 A	208 V	3	DIV. 26	1,2,3,4,5

NOTES:
1. PROVIDE MODEL SELECTED OR EQUIVALENT BY CARRIER.
2. PROVIDE WITH A LOCAL DISCONNECT, ENTHALPY ECONOMIZER, CONVENIENCE OUTLET, AND SINGLE POINT POWER CONNECTION.
3. PROVIDE UNIT WITH BAROMETRIC BUILDING PRESSURE RELIEF.
4. PROVIDE WITH SEACOAST COIL EPOXY COATING AND VIBRATION AND SEISMIC ISOLATION ROOF CURB.
5. PROVIDE AS MULTI-ZONE-VAV CONFIGURED UNIT.

MZVAV AHU SEQUENCE OF OPERATIONS

GENERAL: UNIT IS A MULTI-ZONE VAV PACKAGED ROOFTOP UNIT WITH AN OUTSIDE AIR DAMPER, REFERENCE ENTHALPY ECONOMIZER WITH LOW LEAKAGE DAMPER, VARIABLE SPEED SUPPLY FAN, ELECTRIC RESISTANCE HEAT, RETURN AIR HUMIDITY SENSOR, SUPPLY AIR TEMPERATURE SENSOR, OUTSIDE AIR TEMPERATURE SENSOR, HOT GAS REHEAT, AND A BUILDING PRESSURE RELIEF FAN. UNIT SHALL BE FACTORY EQUIPPED WITH A BACNET CONTROLS PACKAGE AND A RETURN AIR SMOKE DETECTOR. RTU BACNET CONTROLLER SHALL BE OF THE SAME MANUFACTURER AS THE VAV CONTROLLERS VAV BOXES.

REMOTE OPERATORS INCLUDE: DUCT PRESSURE SENSOR, BUILDING PRESSURE SENSOR, LOCATED IN THE RETURN AIR DUCT (SEE PLANS), OUTDOOR BUILDING PRESSURE SENSOR LOCATED AT RTU (NOT SHOWN), RETURN AIR SMOKE DETECTOR WITH TIE IN TO THE FIRE ALARM CONTROL PANEL (FACP) (BY FIRE ALARM CONTRACTOR), RETURN AIR CO2 CONCENTRATION SENSOR, AND DAISY-CHAINED VAV CONTROLLERS.

OPERATION:

THE UNIT SHALL RUN CONTINUOUSLY.

THE RTU CONTROLLER SHALL POLL THE VAV CONTROLLERS AT A MAXIMUM OF 3 MINUTE INTERVALS FOR ZONE SETPOINT AND ZONE TEMPERATURE.

MODE OF OPERATION:

THE RTU CONTROLLER SHALL POLL THE VAV CONTROLLERS TO DETERMINE MODE (COOLING/HEATING) OF OPERATION. THE RTU MODE OF OPERATION SHALL BE BASED ON THE MAJORITY OF BOXES REQUESTED MODE.

SUPPLY FAN CONTROL/OPTIMIZATION:
- THE AHU CONTROLLER SHALL MONITOR REMOTE DUCT PRESSURE AND CONTROL SUPPLY FAN SPEED TO MAINTAIN AN INITIAL 1.5 " WG (ADJ.) CONSTANT DUCT PRESSURE. FINAL REMOTE DUCT PRESSURE SHALL BE SET BY TEST AND BALANCE.

OUTSIDE AIR:
- THE CONTROLLER SHALL MEASURE THE RETURN AIR CO2 CONCENTRATION.
- IF RETURN AIR CONCENTRATION RISES TO 1000 PPM (ADJ.) THE RTU CONTROLLER SHALL OPEN THE OUTSIDE AIR DAMPER.
- UPON RETURN AIR CO2 CONCENTRATION LOWERING TO 500 PPM (ADJ.) THE CONTROLLER SHALL CLOSE THE OUTSIDE DAMPER.

COOLING MODE:
- COOLING SHALL BE ENABLED WHEN OUTSIDE AIR TEMPERATURE IS 60°F (ADJ.) OR GREATER. THE CONTROLLER SHALL STAGE THE COOLING OPERATION TO DELIVER 55 °F (ADJ.) SUPPLY AIR.

ECONOMIZER MODE:
- THE ECONOMIZER SHALL BE ENABLED WHENEVER OUTSIDE AIR TEMPERATURE IS LESS THAN 60°F (ADJ.), OUTSIDE AIR ENTHALPY IS 22 BTU/LBM OR LESS, AND COOLING MODE IS ACTIVE. THE ECONOMIZER SHALL BE DISENGAGED WHENEVER OUTSIDE AIR TEMPERATURE DROPS TO 45°F TO °F (ADJ.) OR HEATING MODE IS ENGAGED.
- THE CONTROLLER SHALL MEASURE THE OUTSIDE AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPER TO MAINTAIN 55°F (ADJ.) SUPPLY AIR TEMPERATURE. THE RTU CONTROLLER SHALL MAINTAIN MINIMUM OR GREATER OUTSIDE AIR PER THE SCHEDULE.

HEATING MODE:
- WHENEVER OUTSIDE AIR TEMPERATURE FALLS BELOW 55°F (ADJ.) HEATING MODE SHALL BE ENABLED WHENEVER OUTSIDE AIR TEMPERATURE FALLS BELOW 55°F (ADJ.).
- >35°F OUTSIDE AIR TEMPERATURE - THE CONTROLLER SHALL USE HEAT PUMP MODE AND LOCK OUT ELECTRIC HEATING.
- <35°F OUTSIDE AIR TEMPERATURE - THE CONTROLLER SHALL STAGE THE ELECTRIC HEATING TO PROVIDE 70°F (ADJ.) SUPPLY AIR TEMPERATURE.

DEHUMIDIFICATION MODE:
- THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND OVERRIDE THE COOLING FUNCTION TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 50% RH (ADJ.).
- DURING DEHUMIDIFICATION, THE CONTROLLER SHALL MODULATE HOT GAS REHEAT TO MAINTAIN SUPPLY AIR AT THE SUPPLY AIR TEMPERATURE COOLING SETPOINT.
- UPON RETURN AIR REDUCING TO 40% (ADJ.) RH OR LOWER, THE CONTROLLER SHALL RESTORE THE NORMAL MODE OF OPERATION.

BUILDING PRESSURE RELIEF:
- THE CONTROLLER SHALL MEASURE THE BUILDING PRESSURE.
- IF BUILDING PRESSURE SHOULD RISE TO 0.5" WC (ADJ.), THE RTU CONTROLLER SHALL ENGAGE THE BUILDING RELIEF FAN UNTIL BUILDING PRESSURE LOWERS TO 0.2" WC (ADJ.) THEN DISENGAGE THE BUILDING PRESSURE RELIEF SYSTEM.

STARTUP SEQUENCE: UPON SIGNAL OR COMMAND TO STARTUP, THE RTU CONTROLLER SHALL:
- OPEN THE OUTSIDE AIR DAMPER
- UPON PROOF OF OUTSIDE AIR DAMPERS OPEN, START THE SUPPLY FANS.

SHUTDOWN/STANDBY SEQUENCE: UPON A SIGNAL OR COMMAND TO SHUTDOWN, THE RTU CONTROLLER SHALL:
- STOP THE SUPPLY FANS
- UPON PROOF OF SUPPLY FAN OFF, CLOSE THE OUTSIDE AIR DAMPERS

EMERGENCY AND OVERRIDE MODES:
- SMOKE DETECTION:
- UPON RECEIPT OF A SMOKE DETECTOR ALARM THE CONTROLLER SHALL INITIATE THE SHUTDOWN SEQUENCE AND SIGNAL THE FACP TO PROVIDE AN ALARM. A MANUAL RESET SHALL BE REQUIRED PRIOR TO OPERATION FOLLOWING A SMOKE DETECTOR SHUTDOWN.
  - FACP ALARM:
- FIRE ALARM ACTUATION: THE CONTROLLER SHALL ACCEPT A REMOTE SIGNAL FROM THE FACP. UPON ACTUATION OF AN AFFECTED ZONE FIRE ALARM FROM THE FACP, THE CONTROLLER SHALL INITIATE THE SHUTDOWN/STANDBY SEQUENCE. A MANUAL RESET SHALL BE REQUIRED PRIOR TO OPERATION FOLLOWING A FACP SHUTDOWN.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

ID	MANUFACTURER	MODEL NO.	NECK SIZE	TYPE	PRIMARY AIRFLOW		HEATING COIL	HEATING ELEMENT			UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	CONTROL		DISCONNECT		REMARKS
					MAX	MIN	DESCRIPTION	QTY	POWER	SCR							FURNISH BY	INSTALL BY	TYPE	FURNISH BY	
VAV-01	TITUS	DESV	8"	SINGLE DUCT	400 CFM	120 CFM	Electric Heat	1	3.0 kW	Yes	68 lb	14.4 A	18.0 A	20.0 A	208 V	1	DIV. 23	DIV. 23	NFS	DIV. 26	1,2,3
VAV-02	TITUS	DESV	8"	SINGLE DUCT	400 CFM	120 CFM	Electric Heat	1	3.0 kW	Yes	68 lb	14.4 A	18.0 A	20.0 A	208 V	1	DIV. 23	DIV. 23	NFS	DIV. 26	1,2,3
VAV-03	TITUS	DESV	8"	SINGLE DUCT	600 CFM	180 CFM	Electric Heat	1	4.5 kW	Yes	68 lb	21.6 A	27.0 A	30.0 A	208 V	1	DIV. 23	DIV. 23	NFS	DIV. 26	1,2,3
VAV-04	TITUS	DESV	8"	SINGLE DUCT	400 CFM	120 CFM	Electric Heat	1	3.0 kW	Yes	68 lb	14.4 A	18.0 A	20.0 A	208 V	1	DIV. 23	DIV. 23	NFS	DIV. 26	1,2,3
VAV-05	TITUS	DESV	8"	SINGLE DUCT	400 CFM	120 CFM	Electric Heat	1	3.0 kW	Yes	68 lb	14.4 A	18.0 A	20.0 A	208 V	1	DIV. 23	DIV. 23	NFS	DIV. 26	1,2,3
VAV-06	TITUS	DESV	8"	SINGLE DUCT	300 CFM	90 CFM	Electric Heat	1	2.0 kW	Yes	68 lb	9.6 A	12.0 A	15.0 A	208 V	1	DIV. 23	DIV. 23	NFS	DIV. 26	1,2,3
VAV-07	TITUS	DESV	10"	SINGLE DUCT	1,100 CFM	330 CFM	Electric Heat	1	8.0 kW	Yes	81 lb	41.8 A	52.0 A	60.0 A	208 V	3	DIV. 23	DIV. 23	NFS	DIV. 26	1,2,3
VAV-08	TITUS	DESV	8"	SINGLE DUCT	400 CFM	120 CFM	Electric Heat	1	3.0 kW	Yes	68 lb	14.4 A	18.0 A	20.0 A	208 V	1	DIV. 23	DIV. 23	NFS	DIV. 26	1,2,3

NOTES:
1. PROVIDE MODEL SELECTED OR EQUIVALENT BY CARRIER.
2. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION.
3. PROVIDE WITH MANUFACTURER CONTROLS STRATEGY TO INTEGRATE VAVS TO RTU.

SPLIT SYSTEM HEAT PUMP SCHEDULE

ID	MANUFACTURER	MODEL NO.	TYPE	EVAPORATOR COIL		HEATING CAP	COMPRESSOR						SUMMER AMBIENT DBT	WINTER AMBIENT DBT	SEER	COP	UNIT WEIGHT	MCA	MOCP	VOLT	PH	DISCONNECT	INTERLOCK	NOTES
				TOTAL CAP	SENSIBLE CAP		CAP	TYPE	REFRIGERANT		MOTOR											FURNISH BY	ID	
									TYPE	CHARGE	QTY	RLA												
HP-1	TRANE	4TWR4060A	AIR COOLED HEAT PUMP	36,600 Btu/h	45,443 Btu/h	21,480 Btu/h	5.0 ton	EFLEX	R-410A	13 lb	1	15.3 A	95.0 °F	47.0 °F	17	3.5	293 lb	37.0 A	60.0 A	208 V	1	DIV. 26	AHU-1	1,2,3,4,5
HP-2	TRANE	4TWR4024	AIR COOLED HEAT PUMP	23,900 Btu/h	17,900 Btu/h	21,600 Btu/h	2.0 ton	EFLEX	R-410A	7 lb	1	10.9 A	95.0 °F	47.0 °F	14.5	3.5	216 lb	14.0 A	25.0 A	208 V	1	DIV. 26	AHU-2	1,2,3,4,5
HP-3	TRANE	4TWR7024A1	AIR COOLED HEAT PUMP	24,500 Btu/h	18,700 Btu/h	15,040 Btu/h	2.0 ton	EFLEX	R-410A	10 lb	1	11.7 A	95.0 °F	47.0 °F	17	4.2	236 lb	15.0 A	25.0 A	208 V	1	DIV. 26	AHU-3	1,2,3,4,5
HP-4	TRANE	4TWR4036A	AIR COOLED HEAT PUMP	36,600 Btu/h	28,000 Btu/h	21,480 Btu/h	3.0 ton	EFLEX	R-410A	9 lb	1	15.3 A	95.0 °F	47.0 °F	17	3.9	210 lb	21.0 A	35.0 A	208 V	1	DIV. 26	AHU-4	1,2,3,4,5
MSHP-1	TRANE	TRUZA012KA70BA	AIR COOLED HEAT PUMP	12,000 Btu/h		18,000 Btu/h	1.0 ton	SCROLL	R-410A	4 lb	1	17.0 A	95.0 °F	47.0 °F	20	3.4	93 lb	11.0 A	25.0 A	208 V	1	DIV. 26	MAHU-1	1,2,3,4,5,6

NOTES:
1. PROVIDE MODEL SELECTED OR EQUIVALENT BY DAIKIN. EQUIVALENT TRANE / MITSUBISHI UNITS APPROVED.
2. THE INSTALLER SHALL BE CERTIFIED BY THE EQUIPMENT MANUFACTURER AND SHALL PROVIDE REFRIGERANT PIPING SIZED PER MANUFACTURER INSTALLATION INSTRUCTIONS.
3. PROVIDE WITH HIGH PERFORMANCE HEATING MODE.
4. PROVIDE WITH TAMPER RESISTANT, LOCKING REFRIGERANT CONNECTIONS.
5. INSULATE EXTERIOR REFRIGERANT LINES WITH 1.5" ELASTOMERIC INSULATION WITH ALUMINUM JACKET EQUIVALENT TO K-FLEX CLAD AL WITH K-FLEX CLAD AL TAPE.
6. OUTDOOR UNIT POWERS INDOOR UNIT.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	QTY	SYSTEM	FACE SIZE	NECK			BLADE DESIGN				INSTALLATION	OPTIONS				SPECIFICATION	NOTES
							SIZE	WIDTH	HEIGHT	THICKNESS	SPACING	DEFLECTION ANGLE		ORIENTATION	BORDER TYPE	DAMPER DESCRIPTION	FILTER DESCRIPTION	EQUALIZING GRID	HEAVY DUTY FRAME	
												SINGLE	DOUBLE							
RD1	PERFORATED DIFFUSER WITH DEFLECTORS	Titus	PAR-AA	5	R/A	24x24	12"								TYPE 3 (LAY-IN)	---		No		PERFORATED DIFFUSER WITH FACE MOUNTED DEFLECTORS	1,2,3,4
RG1	LOUVERED GRILLE	Titus	355FL	1	R/A			10"	6"	1/8"	1/2"	35.0°		LONG	TYPE 1 (SURFACE)	---		No		LOUVERED FACE DIFFUSER	1,2,3,4
RG1	LOUVERED GRILLE	Titus	355FL	3	R/A			12"	6"	1/8"	1/2"	35.0°		LONG	TYPE 1 (SURFACE)	---		No		LOUVERED FACE DIFFUSER	1,2,3,4
RG1	LOUVERED GRILLE	Titus	355FL	1	R/A			14"	6"	1/8"	1/2"	35.0°		LONG	TYPE 1 (SURFACE)	---		No		LOUVERED FACE DIFFUSER	1,2,3,4
RG1	LOUVERED GRILLE	Titus	355FL	3	R/A			24"	<varies>	1/8"	1/2"	35.0°		LONG	TYPE 1 (SURFACE)	---		No		LOUVERED FACE DIFFUSER	1,2,3,4
RG2	LOUVERED FILTER GRILLE	Titus	355FLF	2	R/A			24"	<varies>	1/8"	1/2"	35.0°		LONG	TYPE 1 (SURFACE)	---	1" FILTER	No		LOUVERED FILTER FACE DIFFUSER	1,2,3,4
SD1	3-CONE DIFFUSER	Titus	TMS-AA	15	S/A	24x24	6"								TYPE 3 (LAY-IN)	---		No		HIGH PERFORMANCE 3-CONE DIFFUSER	1,2,3,4
SD1	3-CONE DIFFUSER	Titus	TMS-AA	6	S/A	24x24	8"								TYPE 3 (LAY-IN)	---		No		HIGH PERFORMANCE 3-CONE DIFFUSER	1,2,3,4
SD1	3-CONE DIFFUSER	Titus	TMS-AA	2	S/A	24x24	10"								TYPE 3 (LAY-IN)	---		No		HIGH PERFORMANCE 3-CONE DIFFUSER	1,2,3,4
SD1	3-CONE DIFFUSER	Titus	TMS-AA	1	S/A	24x24	12"								TYPE 3 (LAY-IN)	---		No		HIGH PERFORMANCE 3-CONE DIFFUSER	1,2,3,4
SD2	ROUND DIFFUSER WITH ADJUSTABLE PATTERNS	Titus	TMR-AA	17	S/A	---	10"								SURFACE	---		No		ROUND DIFFUSER WITH TWO DISCHARGE PATTERNS	1,2,3,4
SG1	LOUVERED DOUBLE DEFLECTION GRILLE	Titus	300FL	4	S/A			10"	6"	1/8"	3/4"	0.0°	0.0°	DOUBLE-LONG	TYPE 3 (LAY-IN)	---		No		LOUVERED FACE DIFFUSER	1,2,3,4
SG1	LOUVERED DOUBLE DEFLECTION GRILLE	Titus	300FL	1	S/A			14"	6"	1/8"	3/4"	0.0°	0.0°	DOUBLE-LONG	TYPE 1 (SURFACE)	---		No		LOUVERED FACE DIFFUSER	1,2,3,4

NOTES:
1. PROVIDE MODEL SPECIFIED OR APPROVED EQUAL BY PRICE, NAILOR, KRUEGER, METALAIRE, OR TUTTLE & BAILEY.
2. PROVIDE WITH ALUMINUM CONSTRUCTION AND STANDARD FINISH.
3. COLOR BY ARCHITECT. PROVIDE SELECTION OPTIONS.
4. PROVIDE WITH OPTIONAL SURFACE MOUNT KIT AS REQUIRED.

WALL MOUNTED HEAT PUMP SCHEDULE

ID	MANUFACTURER	MODEL NO.	TYPE	FAN				COOLING COIL				HEATING COIL	FILTER	UNIT WEIGHT	VOLT	INTERLOCK	NOTES
				DESIGN AIRFLOW	MOTOR			NOMINAL CAP	CAP	AIRSIDE		CAP	EFF			ID	
					QTY	POWER	ECM		TOTAL	EAT(db)	EAT(wb)						
MAHU-1	TRANE	TPK40A0121LA00A	DUCTLESS AC UNIT	400 CFM	1	30.00 W	Yes	1.0 ton	12,000 Btu/h	80.0 °F	60.0 °F	18,000 Btu/h	30%	29 lb	24 V	MSHP-1	1,2

NOTES:
1. PROVIDE MODEL SELECTED OR EQUIVALENT.
2. PROVIDE A 7-DAY PROGRAMMABLE THERMOSTAT.

AIR HANDLING UNIT SUMMARY SCHEDULE

ID	MANUFACTURER	MODEL NO.	SUPPLY AIRFLOW	OUTSIDE AIR	FAN			COOLING COIL			HEATING COIL	HEATING ELEMENT	FILTER		UNIT WEIGHT	MCA	MOCP	VOLT	PH	DISCONNECT	NOTES
				FLOW	MOTOR			CAP												FURNISH BY	
					DESCRIPTION	QTY	POWER	DESCRIPTION	CAP	TOTAL	SENSIBLE	CAP	POWER	TYPE	EFF						
AHU-1	TRANE	TAM9A0C60V51	1,950 CFM	300 CFM	Supply Fan	1	1.00 hp	Evaporator Coil	5.0 ton	56,784 Btu/h	45,443 Btu/h	36,985 Btu/h	7 kW	PLEATED	MERV-8	163 lb	51.0 A	60.0 A	208 V	1	DIV. 26	1,2,3,4,5,6
AHU-2	TRANE	GAM5B0B24	800 CFM	0 CFM	Supply Fan	1	0.33 hp	Evaporator Coil	2.0 ton	28,900 Btu/h	21,900 Btu/h	18,400 Btu/h	6 kW	PLEATED	MERV-8	132 lb	38.0 A	40.0 A	208 V	1	DIV. 26	1,2,3,4,5,6
AHU-3	TRANE	TAM9A0B30V31	1,000 CFM	120 CFM	Supply Fan	1	0.50 hp	Evaporator Coil	2.5 ton	24,500 Btu/h	18,700 Btu/h	24,400 Btu/h	3 kW	PLEATED	MERV-8	138 lb	22.0 A	25.0 A	208 V	1	DIV. 26	1,2,3,4,5,6
AHU-4	TRANE	TAM9A0C36V31	1,200 CFM	150 CFM	Supply Fan	1	0.50 hp	Evaporator Coil	3.0 ton	36,600 Btu/h	28,000 Btu/h	34,000 Btu/h	3 kW	PLEATED	MERV-8	146 lb	26.0 A	30.0 A	208 V	1	DIV. 26	1,2,3,4,5,6

NOTES:
1. PROVIDE MODEL SPECIFIED OR APPROVED EQUAL BY CARRIER, RUUD, AMERICAN STANDARD OR YORK.
2. EXTERNAL STATIC PRESSURE IS FOR DUCTWORK SYSTEM ONLY. FILTER, COILS, AND CASING LOSSES ARE INTERNAL.
3. BALANCE SYSTEM WITH ACTUAL FIELD CONDITIONS.
4. PROVIDE A 7-DAY PROGRAMMABLE THERMOSTAT.
5. UNIT SHALL BE INSTALLED SUCH THAT FILTERS ARE REPLACEABLE WITHOUT NEED FOR TOOLS.
6. PROVIDE HONEYWELL F100F FILTER INSTALLED IN BOX.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL NO.	TYPE	FAN							UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	DISCONNECT	NOTES
				AIRFLOW		PRESS	MOTOR										FURNISH BY	
				DESIGN	MIN	ESP	QTY	POWER	RPM	ECM								
EF-1	GREENHECK	SP-A50-90-VG	CEILING EXHAUST	70 CFM	0 CFM	0.30 in-wg	1	7 W	700	Yes	18 lb	0.3 A	0.4 A	15.0 A	115 V	1	MANUF.	1,2,3
EF-2	GREENHECK	SP-A50-90-VG	CEILING EXHAUST	70 CFM	0 CFM	0.30 in-wg	1	7 W	700	Yes	18 lb	0.3 A	0.4 A	15.0 A	115 V	1	MANUF.	1,2,3
EF-3	GREENHECK	SP-B200	CEILING EXHAUST	210 CFM	0 CFM	0.50 in-wg	1	172 W	980	No	17 lb	2.7 A	3.4 A	15.0 A	115 V	1	MANUF.	1,2,3
EF-4	GREENHECK	SP-A50-90-VG	CEILING EXHAUST	70 CFM	0 CFM	0.30 in-wg	1	7 W	700	Yes	18 lb	0.3 A	0.4 A	15.0 A	115 V	1	MANUF.	1,2,3
EF-5	GREENHECK	SP-B200	CEILING EXHAUST	210 CFM	0 CFM	0.50 in-wg	1	172 W	980	No	17 lb	2.7 A	3.4 A	15.0 A	115 V	1	MANUF.	1,2,3

NOTES:
1. PROVIDE MODEL SPECIFIED OR APPROVED EQUAL BY COOK, ACME, CARNES, BRIEDERT, OR TWIN CITY FANS.
2. PROVIDE A UNIT MOUNTED DISCONNECT SWITCH AND BACKDRAFT DAMPER.
3. CONTROL WITH LOCAL OCCUPANCY SENSOR.

WM2A ARCHITECTS
WM2A.COM
403B NORTH MAIN ST
HILLSVILLE, VA 24343

COMMONWEALTH OF VIRGINIA
ANTHONY S. DUTTERA
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PROFESSIONAL ENGINEER
10/25/2021

B.E.C.I.
SOLUTIONS BY DESIGN
Beekman Point ENGINEERING

Renovations of
Baywood Technology & Community Center

247 Grammar Lane,
Galax, VA 24333

Project Status: ISSUE FOR CONSTRUCTION
Revision No.(if any): 0 Revision Date: 10/25/2021
Project No: 210063 Current Date: 10/25/2021
Drawing Name: MECHANICAL SCHEDULES
Drawing No: M6-01

Plotted: 10/25/2021 5:00:17 PM

GENERAL MECHANICAL SYMBOLS

- 0 — REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- 1 — KEYNOTE
- CONTINUATION SYMBOL
- Room 4 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LPG	LIQUEFIED PETROLEUM GAS
AAV	AIR ADMETANCE VALVE	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MIA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GCO	GROUND CLEAN OUT	STM	STEAM
GPM	GALLONS PER MINUTE	T	THERMOSTAT
GW	GREASE WASTE	TD	TEMPERATURE DROP
HB	HOSE BIB	TDR	TRENCH DRAIN
HP	HORSE POWER	TEMP	TEMPERATURE
HTG	HEATING	TYP	TYPICAL
HTR	HEATER	UG	UNDERGROUND
HW	HOT WATER	VAC	VACUUM
HYD	HYDRANT	V	VENT
ID	INDIRECT	VAV	VARIABLE AIR VOLUME
IN	INCH	VENT	VENTILATION
INV	INVERT	VTR	VENT THROUGH ROOF
LB	POUND	W	WASTE
LB/HR	POUNDS PER HOUR	WB	WET BULB
LAT	LEAVING AIR TEMPERATURE	WCO	WALL CLEAN OUT
LP	LOW PRESSURE	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING AND PIPING SYMBOLS

- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CD — CONDENSATE DRAINAGE
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- GWR — GEOTHERMAL WATER RETURN
- GWS — GEOTHERMAL WATER SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- G — NATURAL GAS
- PG — PROPANE GAS
- REF-L — REFRIGERANT-LIQUID
- REF-S — REFRIGERANT-SUCTION
- REF-HG — REFRIGERANT-HOT GAS
- STM — STEAM
- CDR — CONDENSATE RETURN
- CWV — COMBINATION WASTE & VENT
- CA — COMPRESSED AIR
- DCW — DOMESTIC COLD WATER
- H-CW — HARD COLD WATER
- S-CW — SOFT COLD WATER
- F-CW — FILTERED COLD WATER
- RO — REVERSE OSMOSIS WATER
- DHW — HOT WATER
- HW 140° — HOT WATER 140°
- HW-R — HOT WATER RECIRCULATION
- HW-R 140°- — HOT WATER RECIRCULATION 140°
- GV — GREASE VENT
- GW — GREASE WASTE
- IW — INDIRECT WASTE
- OV — OIL VENT
- OW — OIL WASTE
- PD — PUMP DISCHARGE
- V — SANITARY VENT
- SS — SANITARY SEWER
- SHWR — SOLAR HOT WATER RETURN
- SHWS — SOLAR HOT WATER SUPPLY
- SD — STORM DRAINAGE
- OSD — OVERFLOW STORM DRAINAGE

PIPE DROP, PIPE RISE, PIPE TEE, CAP; 4" PLUG; 2" REDUCING 45 DEGREE TEE; 4" 45 DEGREE TEE

PIPE ACCESSORY TAGS

- WM — 2" DOM. WM DOMESTIC WATER METER
- 2" BALANCING VALVE
- 2" SHUTOFF 1/4 TURN BALL VALVE
- 2" CHECK CHECK VALVE
- 2" TMV 3-WAY MIXING VALVE
- GATE VALVE
- P — 3-WAY AIRMOTOR CONTROLLER
- ANGLE GLOBE VALVE
- ANGLE HOSE VALVE
- DIAPHRAGM VALVE
- GLOBE VALVE
- HOSE GLOBE VALVE
- M — 2" M-CNTRL MOTORIZED CONTROL VALVE
- M — 2" 3-WAY CNTRL 3 WAY MOTORIZED CONTROL VALVE
- 2" PRV PRESSURE REDUCING VALVE
- S — 3/8" SOLENOID REFRIGERANT SOLENOID VALVE
- 2" BUTTERFLY BUTTERFLY VALVE
- LOCK SHIELD VALVE
- NEEDLE VALVE
- PLUG VALVE
- QUICK OPENING VALVE
- SPRING CHECK VALVE
- SWING GATE CHECK VALVE
- TEMP PRESSURE RELIEF VALVE

DRAIN TAGS

FLOOR DRAIN	4" FD-1	4" AD-6	AREA DRAIN
FLOOR DRAIN	4" FD-3P	4" SD-29	DECK DRAIN
FLOOR SINK	4" FS-4	4" SD-12	FLOW CONTROL DRAIN
HUB DRAIN	4" FD-13	4" SD-15	STORM DRAIN
ROOF AREA SERVED BY DRAIN		6" SD-1 4000 SF	COMBINATION DRAINS

"P" - INDICATES PRIMER CONNECTION; 6 DFU — FIXTURE UNITS; DRAIN SIZE; TYPE (SEE SCHEDULE)

PLUMBING FIXTURE TAGS

TYPE (SEE SCHEDULE): LAV-1A; FIXTURE UNITS: 0.75 CWFU, 0.75 HWFU

WATER CLOSET - WALL HUNG - ADA	PIPE ACCESORY TAG
WC-1A	WC-1
LAV-1A	U-1
1 DFU	

PROJECT GENERAL NOTES

A. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

B. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

C. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

D. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

E. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

F. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

G. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

H. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

I. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

J. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

K. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

L. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

M. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

N. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

O. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

P. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

Q. REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

R. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

S. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.

T. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

U. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

V. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

W. REFER TO HVAC SERIES DRAWINGS FOR GAS PIPING AND A.C. CONDENSATE DRAIN PIPING.

X. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES AND LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.

Y. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

PLUMBING GENERAL NOTES

A. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE AND PROPERLY FUNCTIONING PLUMBING SYSTEMS.

B. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF: INTERNATIONAL PLUMBING CODE AND ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES WHICH APPLY TO THIS WORK.

C. DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO BE SCALED FOR DIMENSIONS.

D. ALL MATERIALS SHALL MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.

E. ALL ITEMS SHALL BE NEW AND ALL MATERIAL, EQUIPMENT AND DEVICES SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.

F. COORDINATE LOCATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.

G. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.

H. COORDINATEAND OBTAIN PERMITS AND INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.

I. PROVIDE OWNER WITH CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.

J. CLEANOUTS SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.

K. FLOOR DRAINS SHALL BE LINE SIZE UNLESS NOTED OTHERWISE. THE FLOOR DRAIN SHALL BE FLUSH MOUNTED WITH FINISHED FLOOR AND THE FLOOR SHALL SLOPE TO THE DRAINS AN A MINIMUM OF 1/16" PER FOOT.

L. VALVES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.

M. ABOVE GROUND WATER PIPING SHALL BE TYPE L COPPER. UNDERGROUND WATER PIPING SHALL BE TYPE K COPPER.

N. COLD AND HOT WATER VALVES 2" AND SMALLER SHALL BE RATED FOR POTABLE, BALL, MSS SP-110, BALL VALVE SHALL BE FULL PORT THREE PIECE OR TWO PIECE WITH A UNION DESIGN WITH ADJUSTABLE STEM PACKAGE. THREADED STEM 150 PSIG AND A CWP RATING OF 600 PSIG. THE BODY MATERIAL SHALL BE BRONZE ASTM B584, ALLOY C844. THE ENDS SHALL NE NON-LEAD SOLDER.

O. ALL WASTE, DRAIN, AND VENT PIPING SHALL BE STANDARD WEIGHT, TYPE 1, PVC INSTALLED IN ACCORDANCE WITH ASTM D2321.

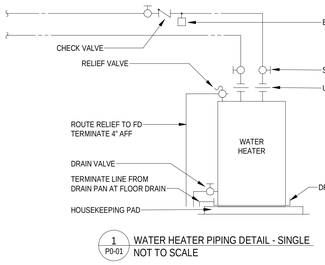
P. COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK GLASS FIBER ('K' OF 0.24 AT 75F) WITH VAPOR BARRIER. HOT WATER PIPING SHALL BE INSULATED WITH 1-1/2" THICK GLASS FIBER ('K' OF 0.24 AT 75F) WITHOUT VAPOR BARRIER.

Q. HANGERS FOR PIPE 1/2" TO 1-1/2" SHALL BE CARBON STEEL ADJUSTABLE SWIVEL, SPLIT RING TYPE, WITH A MAXIMUM SPACING OF 8'-0" ON CENTERS. HANGERS FOR 2" AND LARGER SHALL BE CARBON STEEL ADJUSTABLE CLEVIS TYPE. HANGER SPACING FOR PIPES 2-1/2" ANDSMALLER SHALL NOT EXCEED 10'-0" ON CENTERS. PROVIDE CLEARANCE IN HANGERS FROM STRUCTURES AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS. INSTALL HANGERS WITHIN 5'-0" OF ALL CHANGES IN DIRECTION OF PIPING.

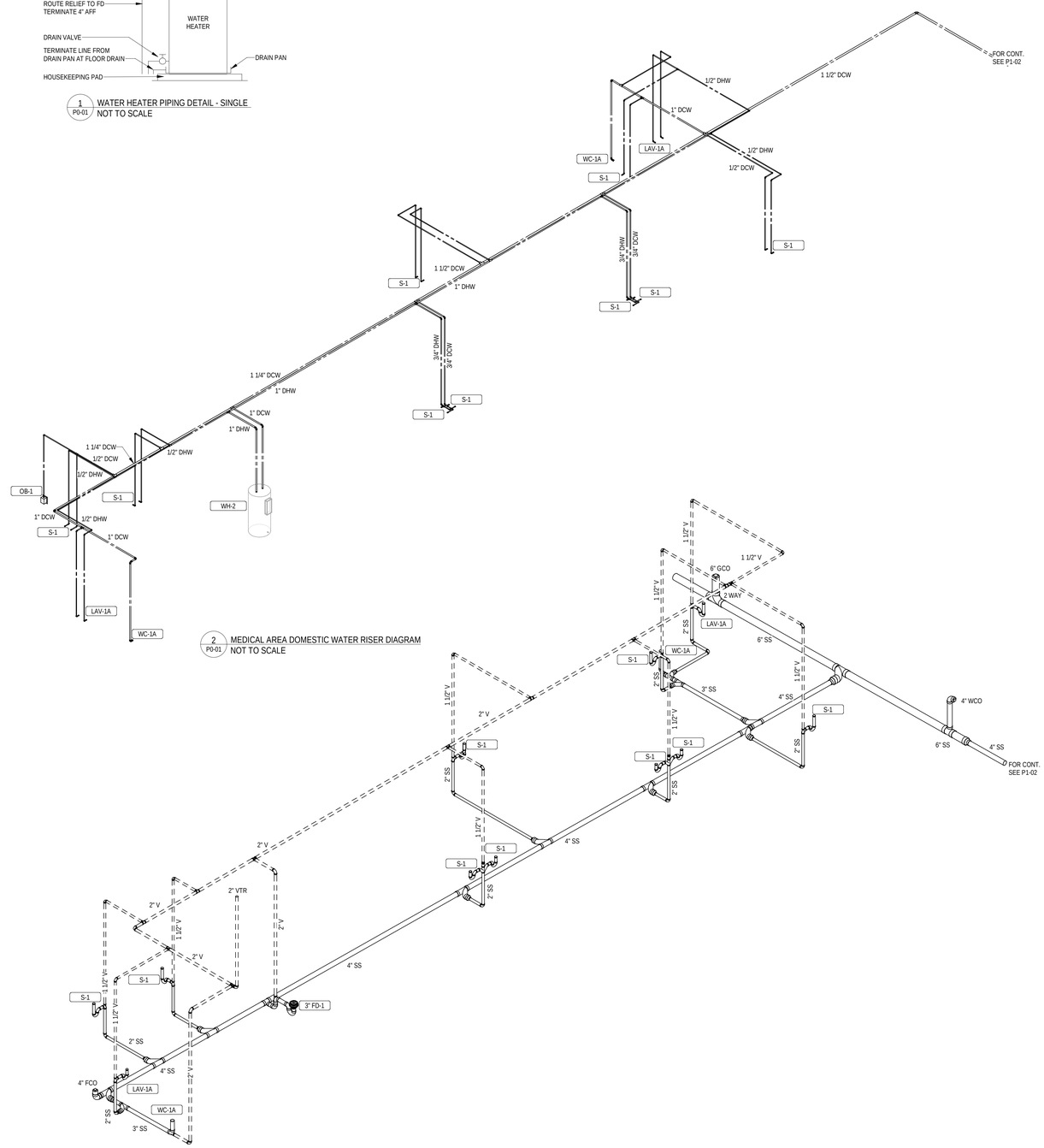
R. ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH ROOFING CONTRACTOR TO ENSURE ROOF BOND WILL BE MAINTAINED.

S. PROVIDE ALL OPERATION AND MAINENANCE MANUALS FOR PLUMBING EQUIPMENT TO BUILDING OWNER.

PLUMBING SHEET INDEX



1 P0-01 WATER HEATER PIPING DETAIL - SINGLE
NOT TO SCALE



2 P0-01 MEDICAL AREA DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE

3 P0-01 MEDICAL AREA WASTE & VENT RISER DIAGRAM
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210063	10/25/2021

Drawing Name: PLUMBING TITLE SHEET

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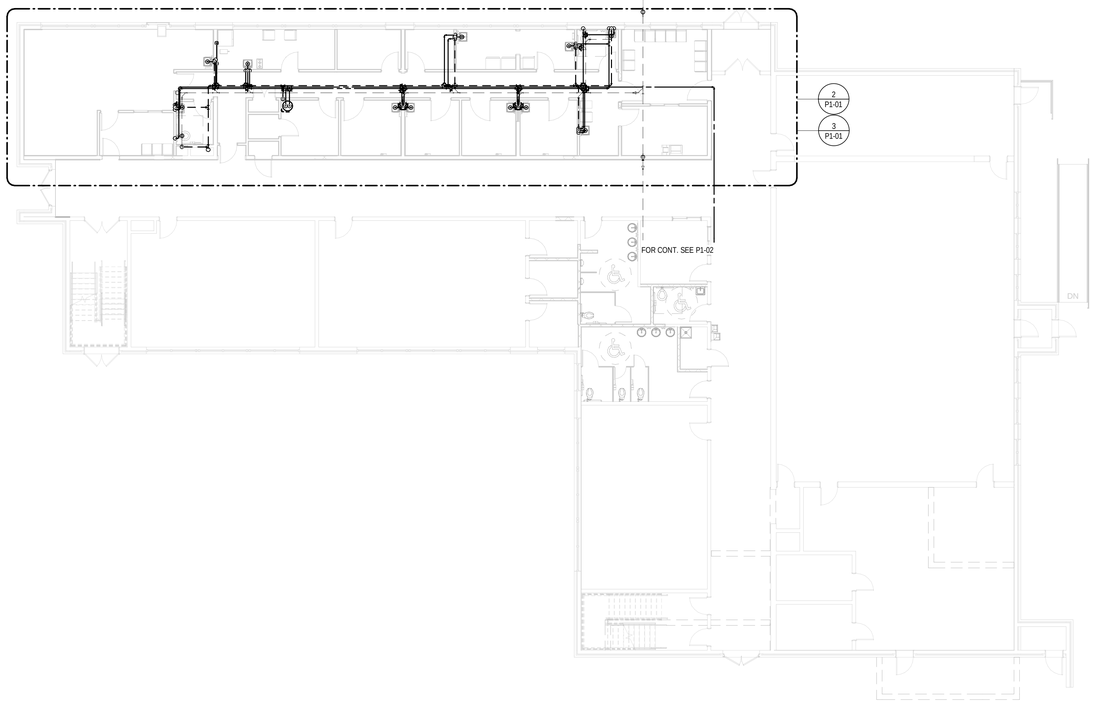


1 P1-01 FIRST FLOOR PHASE 1 OVERALL PLUMBING PLAN
3/32" = 1'-0"

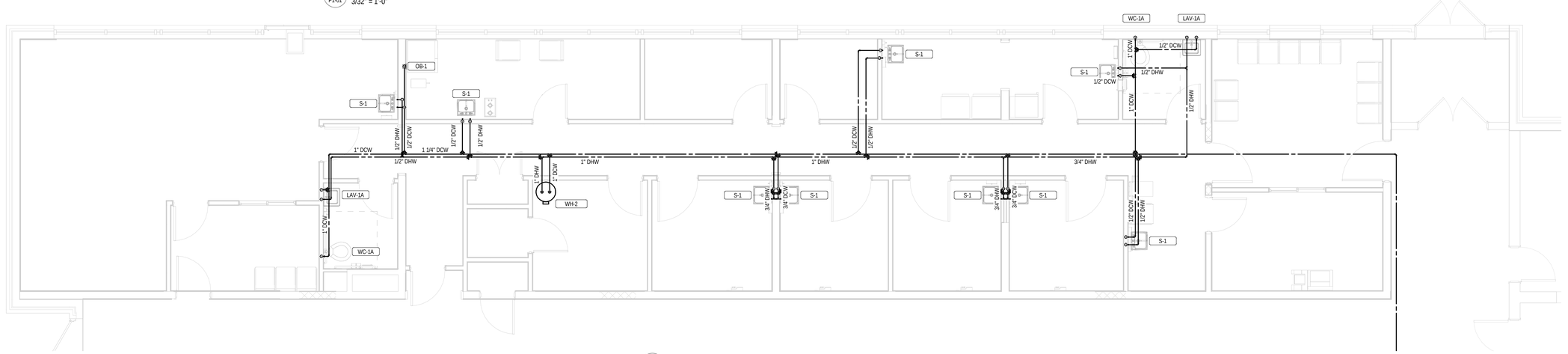
KEYNOTES

1 PROVIDE CAP ON SS BELOW SLAB FOR COVERING CONNECTION FOR PHASE 2.

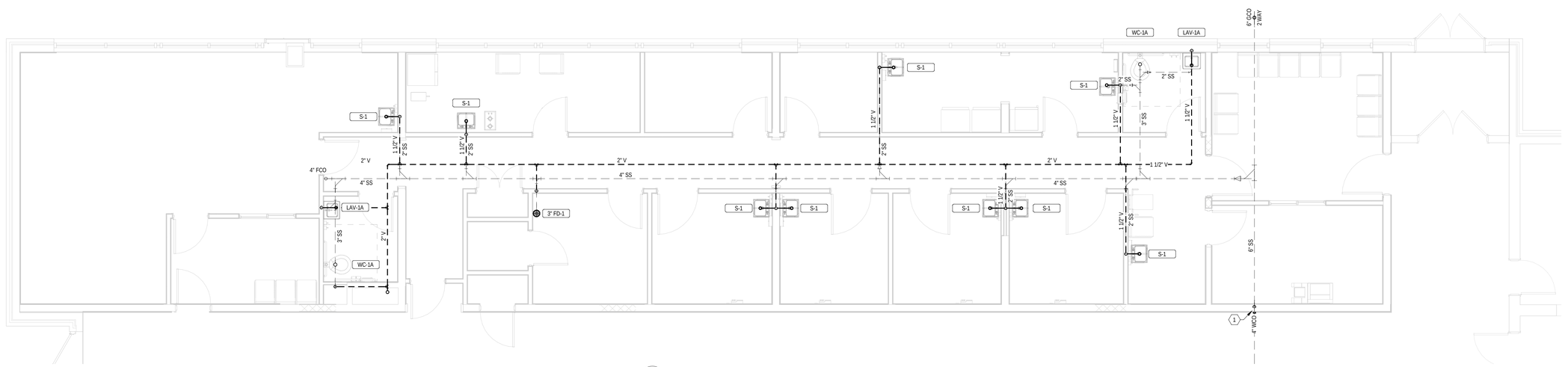
DOMESTIC FIXTURE SCHEDULE

ID	LOCATION FLOOR	DESCRIPTION	MANUFACTURER	MODEL	FINISH	TRIM MANUFACTURER	TRIM MODEL	WASTE ROUGH-IN PIPE SIZE	VENT PIPE SIZE	COLD WATER ROUGH-IN PIPE SIZE	HOT WATER ROUGH-IN PIPE SIZE	SPECIFICATION
EWC-1	FIRST	WATER COOLER - DUAL HEIGHT	ELKAY	EZSTL8WSSK	STAINLESS STEEL CABINET			2"	1 1/2"	1/2"		TWO LEVEL WALL HUNG WATER COOLER WITH BOTTLE FILLING STATION. THE UNIT SHALL BE COMPLETE WITH CABINET, MOUNTING FRAME, SELF CLOSING EASY TOUCH SIDE AND FRONT PUSHBAR CONTROLS, FLEXIGUARD SAFETY BUBBLER, REFRIGERATING SYSTEM, AIR COOLED, 120 VOLT, 60 CYCLE, SINGLE PHASE POWER CONNECTION, FULLY AUTOMATIC, COMPLETE AND READY TO OPERATE.
FD-1	FIRST	FLOOR DRAIN	WATTS	FD-100-A				3"	2"			EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO HUB OUTLET.
JS-1	FIRST	JANITOR SINK	FIAT	MSB-2424		FIAT	830AA	3"	2"	3/4"	3/4"	SERVICE BASIN WITH CAP ON TWO SIDES, WITH CHROME PLATED 3" DRAIN AND CAST IRON TRAP. FAUCET SHALL INCLUDE PAIL HOOK AND ATMOSPHERIC VACUUM BREAKER SPOUT. FURNISH MOP HANGER AND HOSE BRACKET.
LAV-1A	FIRST	LAVATORY - WALL HUNG - ADA	ZURN	Z5340	WHITE	ZURN	Z7440-XL	2"	1 1/2"	1/2"	1/2"	WALL HUNG LAVATORY WITH BACKSPLASH, FAUCET HOLES ON 4" CENTERS. ZURN HARD-WIRED Z6915-XL DECK-MOUNTED FAUCET, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH ADA INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT.
LAV-2	FIRST	LAVATORY - COUNTER	ZURN	Z5110	WHITE	ZURN	Z6915-XL	2"	1 1/2"	1/2"	1/2"	COUNTERTOP LAVATORY, SELF-RIMMING, FAUCET HOLES ON 4" CENTERS. ZURN HARD-WIRED Z6915-XL DECK-MOUNTED FAUCET SENSOR, HARDWIRED POWER, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH INSULATION KIT.
LAV-2A	FIRST	LAVATORY - COUNTER - ADA	ZURN	Z5110	WHITE	ZURN	Z6915-XL	2"	2"	1/2"	1/2"	COUNTERTOP LAVATORY, SELF-RIMMING, FAUCET HOLES ON 4" CENTERS. ZURN HARD-WIRED Z6915-XL DECK-MOUNTED FAUCET WITH SENSOR, HARDWIRED POWER, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. MOUNT AT ADA COMPLIANT HEIGHT. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS USING ADA INSULATION KIT.
OB-1	FIRST	ICE MAKER OUTLET BOX	WATERTITE	AB9700-HA	WHITE					1/2"		FULLY RECESSED ICE MAKER SUPPLY BOX WITH COVER. PROVIDE 1/4 TURN BALL VALVES AND WATER HAMMER ARRESTORS IN BOX.
S-1	FIRST	SINGLE BOWL SINK	ELKAY	LRAD221955-3	STAINLESS STEEL	ELKAY	LKD2423BHC	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE. SINGLE LEVER SWIVEL FAUCET. ONE ELKAY MODEL NO. LK35 BASKET STRAINER, P-TRAP, TAILPIECES. SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS.
U-1	FIRST	URINAL	ZURN	Z5755-U	WHITE	ZURN	Z6003AV	2"	1 1/2"	3/4"		WALL HUNG URINAL WITH WASHOUT ACTION, TOP SPUD, SIZE 18" WITH INTEGRAL EXTENDED SHIELDS SUPPORTED BY THROUGH GOING BOLTS AND C.P. NUTS. ZEMS6000-IS HARD-WIRED SENSOR FLUSHOMETER.
U-1A	FIRST	URINAL - ADA	ZURN	Z5755-U	WHITE	ZURN	Z6003AV	2"	1 1/2"	3/4"		WALL HUNG URINAL WITH WASHOUT ACTION, TOP SPUD, SIZE 18" WITH INTEGRAL EXTENDED SHIELDS SUPPORTED BY THROUGH GOING BOLTS AND C.P. NUTS. ZEMS6000-IS HARD-WIRED SENSOR FLUSHOMETER.
WC-1A	FIRST	WATER CLOSET - FLOOR - FLUSH VALVE - ADA	ZURN	Z5665-BWL1	WHITE	ZURN	Z6000AV	3"	2"	1"		ELONGATED FLOOR MOUNTED WATER CLOSET, 1-1/2" TOP SPUD, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. ZURN ZEMS6000AV-IS HARDWIRED FLUSHOMETER. INSTALL AT ADA COMPLIANT HEIGHT.
WC-2	FIRST	WATER CLOSET - FLOOR - FLUSH VALVE	ZURN	Z5654-BWL1	WHITE	ZURN	Z6000AV	3"	2"	1"		ELONGATED FLOOR MOUNTED WATER CLOSET, 1-1/2" TOP SPUD, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. ZURN ZEMS6000AV-IS HARDWIRED FLUSHOMETER.

NOTES:
1. CONTRACTOR SHALL PROVIDE HARD-WIRED POWER SUPPLY, MINI-JUNCTION BOX FOR EACH GROUPING OF 8 HARD-WIRED FIXTURES.. COORDINATE WITH ELECTRICAL CONTRACTOR FOR 120VAC POWER AND CONNECTIONS TO 120V. PLUMBING CONTARCTOR SHALL PROVIDE AND ROUTE ALL LOW VOLATGE WIRING IN A CONCEALED LOCATION.



2 P1-01 FIRST FLOOR PHASE 1 ENLARGED DOMESTIC PLUMBING PLAN
1/4" = 1'-0"



3 P1-01 FIRST FLOOR PHASE 1 ENLARGED WASTE AND VENT PLUMBING PLAN
1/4" = 1'-0"

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10/25/2021

Renovations of
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B.E.C.I.
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Beekman Point ENGINEERING

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Drawing Name:
FIRST FLOOR PHASE 1 MEDICAL AREA PLUMBING PLAN

Drawing No:
P1-01

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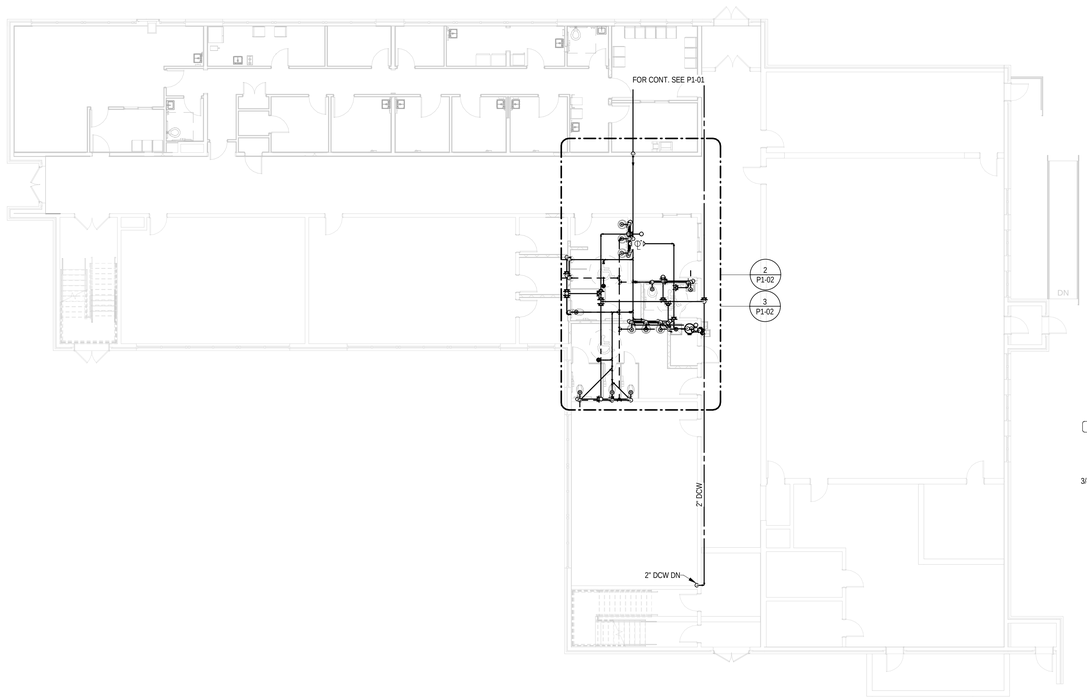
KEYNOTES

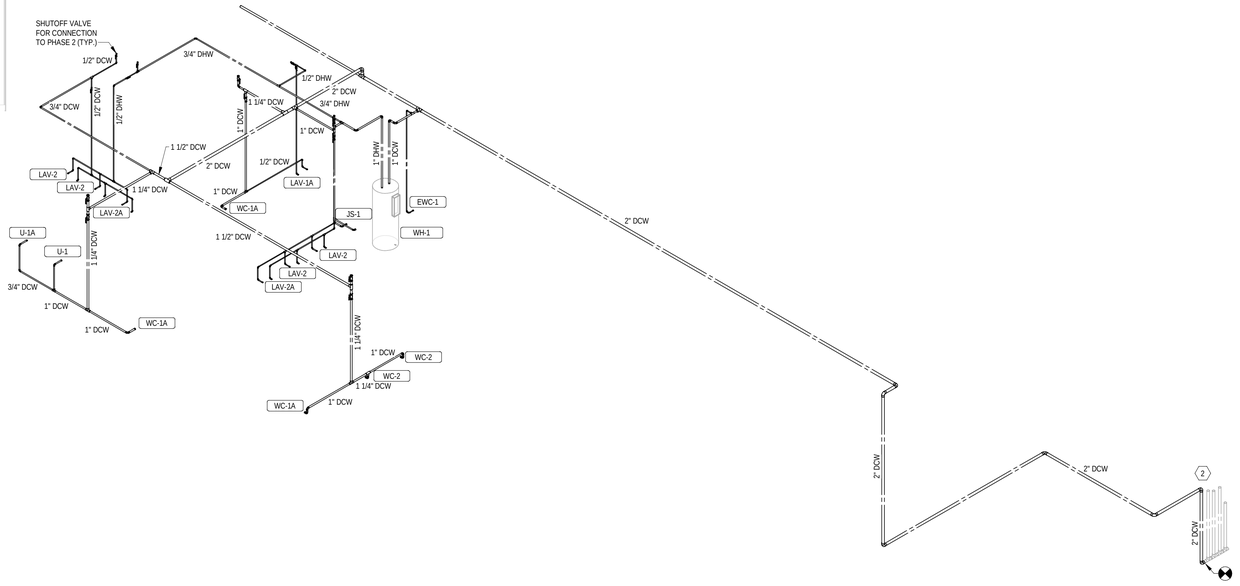
1 PROVIDE SHUTOFF VALVES IN VERTICALS BETWEEN THE FLOORS.
2 RECONNECT EXISTING EXTERIOR HOSE BIBB TO NEW 2" DCW MAIN.

ELECTRIC WATER HEATER SCHEDULE

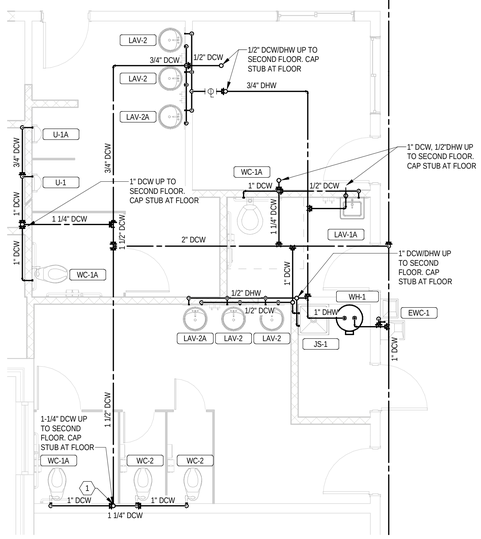
ID	MANUFACTURER	MODEL NO.	TYPE	ELECTRIC HEAT EXCHANGER HEATING CAP	STORAGE RECOVERY	STORAGE VOL	MAX TEMP RISE	FLA	MCA	MOCP	VOLT	PH	REMARKS
WH-1	AO SMITH	DEN-52	STORAGE	5.0 kW	25.0 gal/h	50.0 gal	80 °F	24.0 A	30.0 A	35.0 A	208 V	1	PROVIDE WITH MINIMUM 2.0 GALLON ACCEPTANCE VOLUME EXPANSION TANK
WH-2	AO SMITH	DEN-40	STORAGE	5.0 kW	25.0 gal/h	40.0 gal	80 °F	24.0 A	30.0 A	35.0 A	208 V	1	PROVIDE WITH MINIMUM 2.0 GALLON ACCEPTANCE VOLUME EXPANSION TANK



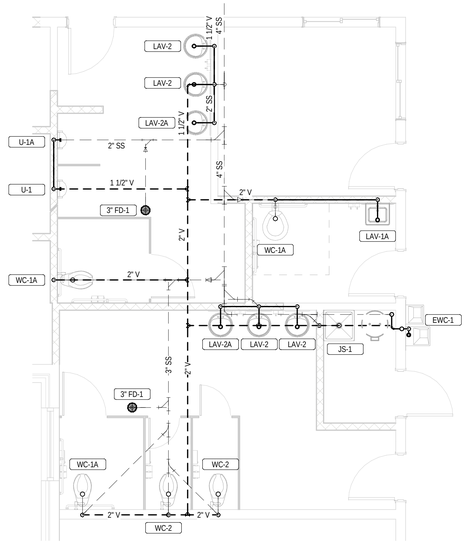
1 P1-02 FIRST FLOOR PHASE 1 OVERALL RESTROOMS PLUMBING PLAN
3/32" = 1'-0"



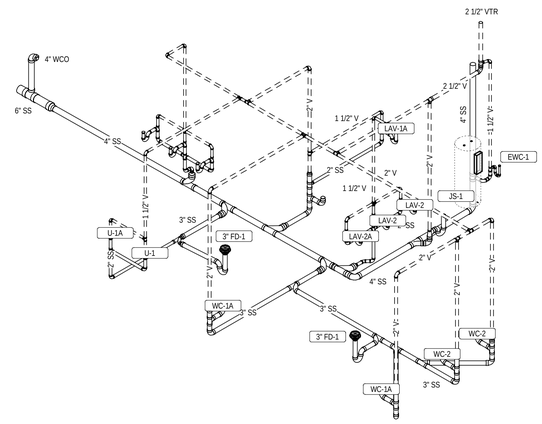
4 P1-02 RESTROOMS DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE



2 P1-02 FIRST FLOOR PHASE 1 ENLARGED RESTROOMS DOMESTIC PLUMBING PLAN
1/4" = 1'-0"



3 P1-02 FIRST FLOOR PHASE 1 ENLARGED RESTROOM WASTE AND VENT PLUMBING PLAN
1/4" = 1'-0"



5 P1-02 RESTROOMS WASTE & VENT RISER DIAGRAM
NOT TO SCALE

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Drawing Name:
FIRST FLOOR PHASE 1 RESTROOM PLUMBING PLAN

Drawing No:
P1-02

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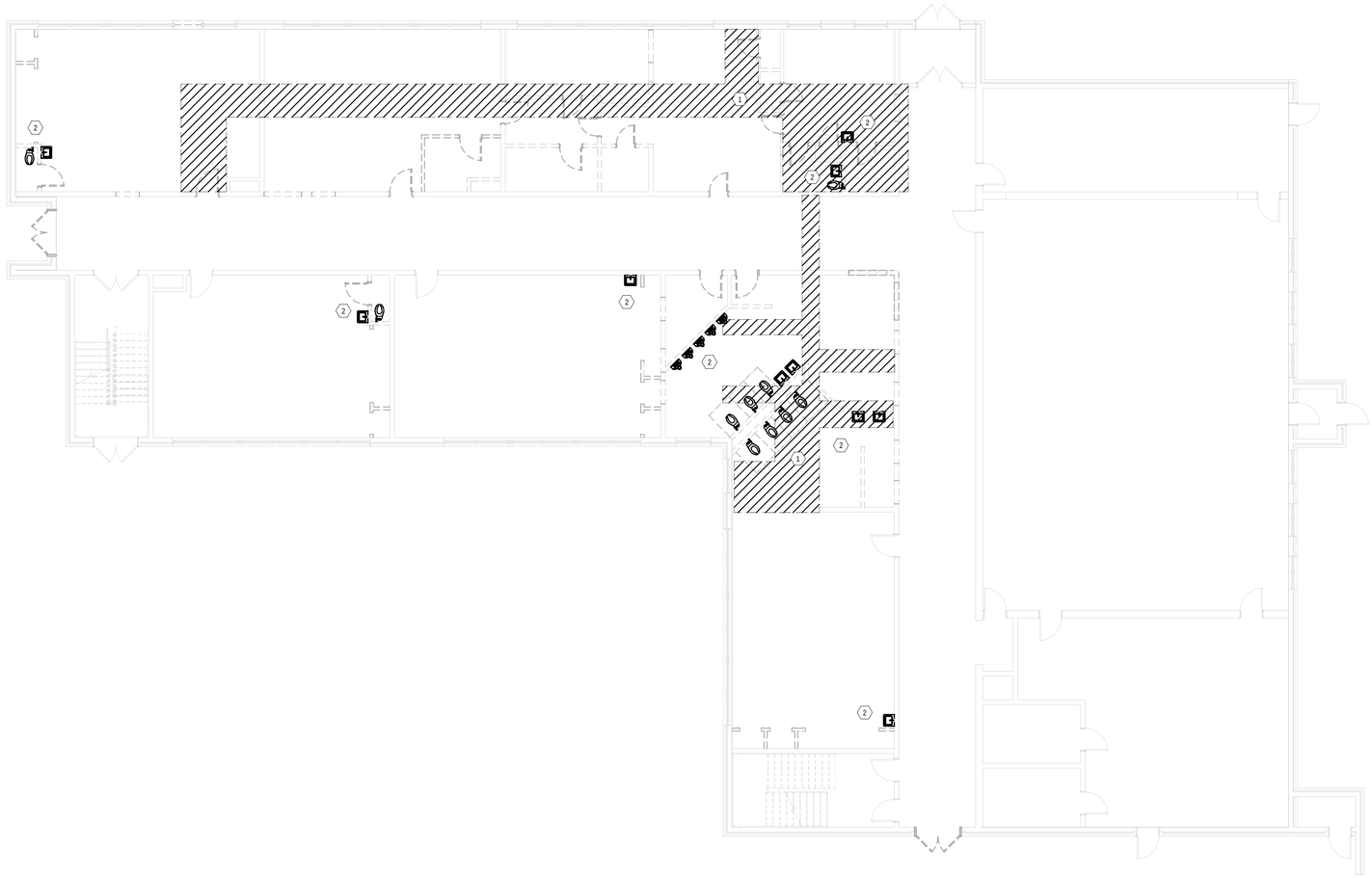
KEYNOTES

1 SAWCUT FLOOR TO ACCOMODATE NEW PLUMBING FIXTURES. COORDINATE FINAL CUT WITH THE GENERAL CONTRACTOR.

2 REMOVE ALL PLUMBING FIXTURES. REMOVE DOMESTIC HOT AND COLD WATER AND VENT PIPING BACK TO MAIN AND CAP AS CLOSE AS POSSIBLE AT MAIN. DEMOLISH SANITARY PIPING TO BELOW SLAB AND CAP.



1 PD1-01 FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

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Drawing Name:
FIRST FLOOR PLUMBING DEMOLITION PHASING PLAN

Drawing No:
PD1-01

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ELECTRICAL SPECIFICATIONS:

PART ONE – GENERAL

The Electrical Contractor shall provide all labor, materials, and equipment, and perform all operations necessary for the installation of complete electrical work to meet the intent of, and as indicated on the drawings. Specific items and materials may or may not be addressed in specifications and drawings.

ELECTRICAL CONTRACTOR QUALIFICATIONS: Bidding electrical contractors must have sufficient general knowledge and experience to anticipate the needs of construction of this nature. The Electrical Contractor shall furnish all items required to complete the construction in accordance with reasonable interpretation of the intent of the drawings and specifications.

CODE REQUIREMENTS: All work shall be in accordance with the current State Building Code, local codes, NFPA, Current NEC and all other applicable codes and requirements of the local inspector. These code standards are not acceptable alternatives to reduce the standards or requirements outlined in these plans and specifications. All applicable "OSHA" regulations must be followed while performing this work.

NOTICE TO BIDDERS: Instructions to Bidders, Contract documents, and drawings are all parts of these specifications. The Electrical Contractor shall visit the site to familiarize themselves with existing conditions and the area in which the work is to be performed. The Electrical Contractor shall satisfy himself regarding subsoil conditions for excavations prior to making a proposal. The Electrical Contractor shall review and coordinate electrical service delivery with the electric utility. The Electrical Contractor must include in his bid the fees associated with temporary electrical service and permanent electrical and telephone service installation. This includes any fees to extend electrical and telephone service to the location of this project. Electrical Contractor must also review architectural, mechanical, plumbing, and civil drawings for electrical coordination.

ELECTRICAL PERMITS: Any permits, fees, inspection, and/or test charges required for the electrical work shall be secured and paid for by the Electrical Contractor.

SUBMITTALS: The Contractor shall submit (6) copies of shop drawings or submittal data on the luminaries and the panel board. Submittals shall be checked by the Electrical Contractor for conformance to the plans and specifications prior to being forwarded to the Engineer, and shall bear evidence of said review. Manufacturers and models shown in the schedules are intended to establish a standard of performance, efficiency, appearance, and quality. Any substitutions must meet these standards and be approved by the engineer before installation. All equipment and materials shall be installed in accordance with the recommendations of the manufacturer. Any indications in plans or specifications to the contrary shall be clarified with the Engineer, and any additional cost resulting from a substitution of equipment or material or from a manufacturer's installation requirement shall be paid for by the Electrical Contractor.

DRAWINGS: The drawings are diagrammatic only and are not intended to show minor details and exact locations. Locations of pipes, electrical switches, panels, equipment, luminaries, etc. shall be adjusted to accommodate the work to interferences anticipated and encountered. Equipment whose elevations cannot be changed shall have the right-of-way.

POWER WIRING: The Electrical Contractor shall provide all power wiring including disconnects, overload starters, fuses, breakers, line voltage control wiring, and final connections to the various electrical equipment. The HVAC Contractor shall be responsible for all controls, interlocks, low voltage control wiring and conduit for the HVAC equipment. All disconnects are to be fusible. Mechanical and plumbing contractors to provide single point of connection.

COORDINATION: The Electrical Contractor shall review drawings, specifications, and shop drawings provided by other trades to see if there are any conflicts. If conflicts are determined, then contact the architect/engineer for instructions.

WORKMANSHIP: Exposed work shall be square and plumb with adjacent surfaces and lines shall be neat and uniform in appearance. Conduit, junction boxes, and outlet boxes for switches and receptacles shall be recessed and not exposed. Properly protect work against damage by weather and other trades. Damaged surfaces shall be restored to original condition. Debris produced from this work shall be removed daily from premises. All exposed electrical conduit and equipment in finished areas shall be painted to match adjacent finishes. Touch up scratched or marred surfaces of panelboards, protective devices and similar electrical apparatus prior to applying finish coats of paint to equipment. All material, whether exposed or concealed, shall be firmly and adequately held in place. Make all connections tight and recheck all panel lugs just prior to final inspection.

SUPPORT: Support and fasten all conduits, equipment, etc. securely in place. Secure and adjust hangers and supports to keep conduits in alignment, to carry the weight of the conduits without deflection or sag. Inserts in masonry shall be lead or plastic types install in drilled holes. Wooden plugs, chains, straps, or wire hangers are prohibited. Provide steel supports, frames, bracing, etc., incidental to this scope of work. Refer to 2017 NEC for further direction.

CUTTING/REPAIR: The Electrical Contractor shall provide all cutting and repairing of walls, floors, and ceiling necessary for the installation of work. Set sleeves for conduit as building construction progresses. Exterior walls shall not be pierced. Any cutting of structural members or finished work shall prior approval of architect/structural engineer. Any piping, ductwork, conduits, etc., damaged in any way, by this contractor shall be repaired or replaced at no additional expense to the owner.

IDENTIFICATION: All equipment installed under this contract shall be identified with an engraved laminated phenolic plastic nameplate, white core, and black surface, screwed in place. All generator equipment installed under this contract shall be identified with an engraved laminated phenolic plastic nameplate, white core, and red surface, screwed in place. Labels created by a device similar to a "tapewriter" are not acceptable. All wiring shall be marked with Brady Self-Sticking wire markers. All wiring shall be color coded with no exceptions. Conductors no. 4 and larger may be identified with 3" (minimum) bands of proper color plastic tape near each termination.

FINAL COMPLETION: Upon completion of the work, demonstrate the installation make such tests as may be required to satisfy the architect/engineer and owner that work is installed in accordance with the drawings, specifications, and instructions. Provide a certificate of inspection from the local or state authorities having jurisdiction over the work.

WARRANTY: All equipment and workmanship shall be guaranteed for a period of one year from the date of acceptance. Faulty workmanship and defective materials shall be corrected immediately.

PART TWO – MATERIALS AND EQUIPMENT

All materials and equipment shall be new and of the highest quality in the class specified except for owner supplied equipment. All materials and equipment shall be listed and labeled as required by Where trade names are mentioned they are given as a reference to the quality and performance of the apparatus required. Other brands may be used if approved in writing by the Engineer and if their construction, performance, and efficiency is equal to that specified. The contractor shall submit a complete list of any proposed alternate materials and equipment for use in this project to the Engineer within 10 days following the award of the contract. If such a list is not submitted, the Electrical Contractor shall supply the materials and equipment as specified or (if not specified) as directed by the engineer.

CONDUIT: Conduits run underground or in poured concrete shall be galvanized rigid steel conduit or Schedule 40 PVC. Exposed PVC conduit shall not be permitted. Sleeves and openings shall be provided as required to accommodate passage of conduits, etc. to be installed. Sleeve shall be no. 16 galvanized sheet steel, rigidly supported. Provide all hangers required to support conduits, pull boxes, etc. Supports improperly installed shall be removed and replaced at no additional expense to the owner. Refer to 2017 NEC for further direction.

CONDUCTORS: Conductors may be copper or aluminum, sized as indicated on the drawings; minimum size no. 12 AWG, color coded; Type THHN for branch circuits, Type THW or THHN/THWN for feeders; Type USE for underground service conductors. No. 12 wire and smaller shall be solid; No. 8 and larger wire shall be stranded (no exceptions). All conductors rated 50A or less shall be copper. All conductors, with the exception of control wiring and switch legs, shall be No. 12 or larger. Switch legs may be No. 14.

WIRING METHODS: Type MC and EMT are allowed wiring methods.

PANELBOARDS: Panelboards shall be dead front, safety type, and shall be the thermal magnetic circuit breaker type. Refer to the panel schedule in the drawing for the number of branch circuits, ampere ratings, number of poles, main breakers, etc. Circuits shall be connected to the panel as indicated in the panel schedule. Provide solderless type connectors on main and load side of branch circuits. Provide a circuit directory card indicating device and areas on each circuit. Panelboard shall be equivalent to Square D type "NQOD" rated at the voltage specified in the panel schedule.

SAFETY SWITCHES: Safety switches shall be heavy-duty type, fusible, horsepower rated, 250 volts, quick-break mechanism, listed and labeled per 2017 NEC.

FUSES: Fuses shall be standard 2017 NEC cartridge type, dual element, equivalent to Fusetron. All fuses are to be sized according to manufacturer's recommendations.

OUTLET, JUNCTION AND PULL BOXES: Outlet boxes shall be sized in accordance with the 2017 NEC. Plastic boxes are not acceptable.

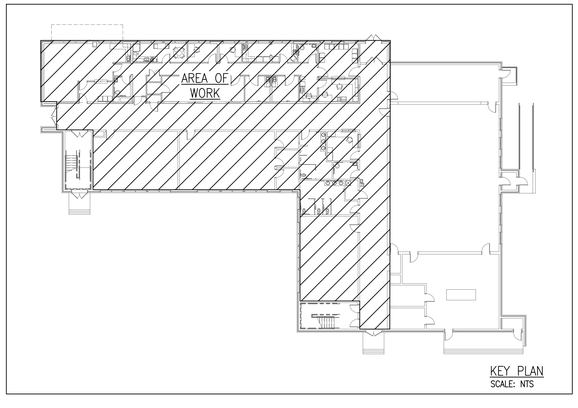
TOGGLE SWITCHES: Toggle switches shall be rated 20 Amps, 120/277 Volts, listed and labeled per 2017 NEC, verify color with owner.

RECEPTACLES: Receptacles shall be grounding type with grounding connection through extra pole permanently connected to panelboard ground bus via green conductor, listed and labeled per 2017 NEC, verify color with owner. Other colors may be substituted for special outlets that are not normally visible or as otherwise noted on plans.

LIGHTING: The lighting system shall be provided complete, including all luminaries, lamps, supporting members, hangers, etc. All light fixture must be independently supported from the building structure. Refer to the drawings for luminaire type, description, and performance specification. All related parts required for a complete installation shall be provided whether or not specifically mentioned.

LIGHTING CONTROLS: Electrical Contractor to provide complete system and ensure proper operation.

ARC-FLASH: Electrical Contractor is to provide Arc-Flash Analysis/Report prepared by VA licensed engineer and label all new electrical panels. Service entrance to be labeled with available fault current.



ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR MUST VERIFY AVAILABLE FAULT CURRENT WITH LOCAL POWER COMPANY TO ENSURE PROPER SIZING OF EQUIPMENT.
2. ALL RECEPTACLES WITHIN 6 FT OF SINK MUST BE GROUND FAULT CIRCUIT INTERRUPT PROTECTED.
3. WHERE ELECTRICAL WORK PENETRATES FIRE RATED BARRIERS (WALLS, FLOORS AND CEILINGS) SEAL OPENING AROUND ELECTRICAL WORK WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE BARRIER.
4. RECEPTACLES OR OTHER DEVICES THAT MUST BE RECESSED INTO FIRE RATED PARTITIONS MUST BE OFFSET TO PREVENT A THROUGH PENETRATION.
5. MEETING/CONFERENCE ROOMS SHALL COMPLY WITH NEC 2017 SECTION 210.71.
6. ELECTRICAL CONTRACTOR IS TO VERIFY ELECTRICAL LOADS, LOCATIONS, DISCONNECTING MEANS, AND REQUIREMENTS WITH MECHANICAL AND PLUMBING CONTRACTORS.
7. CONNECT ALL EXIT AND EMERGENCY LIGHTS TO NEAREST UNSWITCHED LIGHTING CIRCUIT IN THE AREA IT SERVES.
8. ELECTRICAL CONTRACTOR TO PROVIDE ACCURATE PANEL SCHEDULES AT COMPLETION OF PROJECT, IDENTIFY ROOMS AND DEVICES SERVED.
9. LABEL ALL DEVICES WITH CIRCUIT NUMBERS FOR EASE OF MAINTENANCE INCLUDING RECEPTACLES AND LIGHT FIXTURES.
10. ELECTRICAL CONTRACTOR IS TO COORDINATE LOCATIONS AND REQUIREMENTS OF ALL TELE/DATA WITH OWNER.
11. ELECTRICAL CONTRACTOR IS TO PROVIDE ELECTRICAL CONNECT TO GENERATOR BLOCK HEATER. CONNECT TO CIRCUIT P1-49.
12. ELECTRICAL CONTRACTOR IS TO PROVIDE ELECTRICAL CONNECT TO GENERATOR BATTERY CHARGER. CONNECT TO CIRCUIT P1-51
13. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LIGHT FIXTURE SPECIFICATIONS & ASSOCIATED TRIMS/DRIVERS WITH THE APPLICATION. MODIFY SPECIFICATIONS AS REQUIRED AND OBTAIN OWNER APPROVAL.
14. CONTROL SCHEME FOR VACANCY SENSORS IS MANUAL ON/ AUTO OFF WITH MANUAL OVERRIDE SWITCH FOR OFF. COORDINATE TIME-OUT OF OCCUPANCY SENSORS WITH OWNER.
15. ELECTRICAL CONTRACTOR IS TO INSTALL MEDICAL FACILITIES GRADE WIRING IN ALL DESIGNATED PATIENT CARE AREAS. CABLE TYPE HCF OR EQUIVALENT SHALL BE USED. METAL CONDUITS SHALL BE 1/2" OR GREATER. WIRE IN CONDUITS SHALL BE CABLE TYPE THHN.
16. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABEL-LISTED BY A VIRGINIA APPROVED THIRD PARTY TESTING AGENCY.
17. ELECTRICAL EQUIPMENT, CONDUCTORS AND TERMINATIONS SHALL BE COORDINATED AND COMPLY WITH NEC ARTICLE 110-14(C).
18. ALL RECEPTACLES LOCATED OUTDOORS, IN DAMP OR WET LOCATIONS, OR OTHERWISE SUBJECT TO NON-CONTROLLED TEMPERATURE AND HUMIDITY ENVIRONMENT SHALL BE WEATHER RESISTANT GFCI TYPE.
19. A 120V, DUPLEX RECEPTACLE SHALL BE INSTALLED WITHIN 25 FT OF ALL HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT.
20. VERIFY LOCATIONS OF ANY AIR RETURN PLENUMS. ELECTRICAL CONTRACTOR IS TO PROVIDE PLENUM-RATED CABLING AND WIRING METHODS IN THESE AREAS.
21. PROVIDE AND INSTALL TAMPER-RESISTANT RECEPTACLES IN ALL LOCATION REQUIRED BY NEC SECTION 406.12.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☒ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)

lamp type required in fixture	LED
number of lamps in fixture	1
ballast type used in the fixture	Driver
number of ballasts in fixture	1
total wattage per fixture	21,29,31,32,39,51,63
total interior wattage specified vs allowed	4.4kw-VS-5.2kw
total exterior wattage specified vs allowed	N/A-VS-N/A

Additional Efficiency Package Options
(When using the 2018 IECC; not required for ASHRAE 90.1)

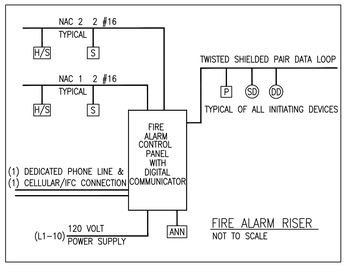
- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☒ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

DESIGNER STATEMENT:

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the IECC.

SIGNED: J Wade White, Jr.
NAME: J Wade White, Jr.
TITLE: Electrical Engineer



FIRE ALARM SYSTEMS LEGEND

P	PULL STATION
SD	SMOKE DETECTOR
S	WALL MOUNTED STROBE WITH CANDELA RATING
H/S	WALL MOUNTED HORN/STROBE WITH CANDELA RATING
FACP	FIRE ALARM PANEL
ANN	FIRE ALARM ANNUNCIATOR PANEL

FIRE ALARM WIRING NOTE:

1. FIRE ALARM INSTALLER IS TO COORDINATE WITH FIRE MARSHALL ON REQUIRED DOCUMENTATION NEEDED.
2. FIRE ALARM INSTALLER TO VERIFY LOCATION OF FIRE ALARM PANEL & ANNUNCIATOR PANEL.
3. VERIFY WITH MECHANICAL DRAWINGS FOR DETERMINATION OF UNITS TO RECEIVE DUCT SMOKE DETECTORS. MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL IN HVAC UNIT, THEN FIRE ALARM INSTALLER SHOULD WIRE DETECTORS INTO SYSTEM.
4. FIRE ALARM STROBE LIGHTS SHALL BE PROVIDED AS REQUIRED BY NFPA 72.

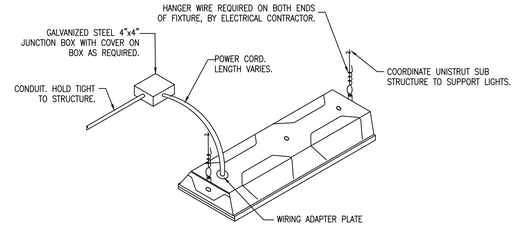
Baywood
Electrical & Fire Alarm Plans

LIGHTING SYMBOLS LEGEND

	2X2 LAY-IN FLAT PANEL LIGHT FIXTURE
	2X4 LAY-IN FLAT PANEL LIGHT FIXTURE
	2X4 LAY-IN FLAT PANEL LIGHT FIXTURE, CONNECTED TO NIGHT LIGHT BRANCH CIRCUIT
	4' PENDANT MOUNTED LINEAR LED LIGHT FIXTURE
EF	EXHAUST FAN (BY MC; WIRED BY EC)
	WALL MOUNTED EXIT/EMERGENCY COMBO LIGHT FIXTURE WITH BATTERY BACK UP LED
	CEILING MOUNTED SINGLE-FACED EXIT LIGHT FIXTURE WITH BATTERY BACK UP LED
	CEILING MOUNTED DOUBLE-FACED EXIT LIGHT FIXTURE WITH BATTERY BACK UP LED
	WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH BATTERY BACK UP LED
	WALL MOUNTED EXTERIOR EGRESS EMERGENCY LIGHT FIXTURE BATTERY BACKED UP BY INTERIOR EXIT/EMERGENCY COMBO LED
	6" RECESSED MOUNTED LED CAN LIGHT FIXTURE
$	SINGLE POLE SWITCH
$3	THREE-WAY SWITCH
$D	SINGLE POLE DIMMER SWITCH (MATCH DIMMER TO LIGHT SOURCE CONTROLLED)
$3D	THREE-WAY DIMMER SWITCH (MATCH DIMMER TO LIGHT SOURCE CONTROLLED)
$OS	SINGLE POLE/OCCUPANCY SENSOR SWITCH (EQUIVALENT TO SENSOR SWITCH: WSD PDT WH)
$M	MOTOR RATED SWITCH
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR (EQUIVALENT TO SENSOR SWITCH: CM PDT 9) (EQUIVALENT TO SENSOR SWITCH POWER PACK: PP20)
TC	DIGITAL TIME CLOCK (VERIFY LOCATION). INTERMATIC ET279C. (GRAINGER 5U787).

POWER SYMBOLS LEGEND

	WALL MOUNTED DUPLEX OUTLET
	WALL MOUNTED GROUND FAULT CIRCUIT INTERRUPT DUPLEX OUTLET
	WALL MOUNTED QUAD OUTLET
	WALL MOUNTED GROUND FAULT CIRCUIT INTERRUPT QUAD OUTLET
J	JUNCTION BOX (VERIFY REQUIREMENTS)
TV	RECESSED WALL MOUNTED DUPLEX OUTLET/TV BOX (EQUIVALENT TO LEGRAND: TV2MW)(VERIFY BOX CONFIGURATION WITH OWNER)
	WALL MOUNTED DATA/VOICE BACKBOX 3/4" STUBBED ABOVE CEILING WITH PULL STRING (VERIFY REQUIREMENTS)
	SAFETY DISCONNECT SWITCH (FUSED AS REQUIRED) (AMPS/VOLTS/POLES/FUSE/NEMA RATING)
D	DEDICATED CIRCUIT
MAFC	DEVICE MOUNTED ABOVE FINISHED COUNTER (VERIFY FINAL HEIGHT)
TR	TAMPER-RESISTANT
WP	WEATHER PROOF
EX.	EXISTING TO REMAIN
RX.	EXISTING DEVICE TO BE REMOVED



WM2A ARCHITECTS
WM2A.COM
403B NORTH MAIN ST
HILLSVILLE, VA 24343

Seal: COMMONWEALTH OF VIRGINIA J. WADE WHITE, JR. Lic. No. 025924 PROFESSIONAL ENGINEER 10/25/2021

Renovations of
Baywood Technology & Community Center
247 Grammer Lane
Galax, VA. 24333

B.E.C.I. SOLUTIONS BY DESIGN

Beekman Point ENGINEERING

Project Status:
ISSUED FOR CONSTRUCTION

Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

Drawing Name:
Electrical Cover Sheet

Drawing No:
E-0.1

BECI Project No: 5811

PANEL P1

84 POLE; SURFACE MOUNTED | BOLT-IN BREAKERS
LOCATION: PHARMACY | FULL SOLID NEUTRAL BUS
FED FROM ATS-P1 | GROUND BUS
COPPER BUS

PNL VOTAGE: 208Y/120V,3P,4W
PNL AIC (RMS): VERIFY
MAIN BREAKER: 300A BUS: 300A

CKT.	AMP	POLE	WIRE SIZES PH	NEUT	EGC	CONDUIT SIZE	LOADS (VA) AØ	BØ	CØ	EQUIPMENT		EQUIPMENT	LOADS (VA) AØ	BØ	CØ	CONDUIT SIZE	WIRE SIZES EGC	NEUT	PH	POLE	AMP	CKT.
1	20	1	12	12	12	1/2"	1038			LTG: PHARMACY & EXAM ROOMS	A	LTG:OFFICES & WAITING RM	848			1/2"	12	12	12	1	20	2
3	20	1	12	12	12	1/2"		1080		REC: PHARMACY	B	REC: PHARMACY		540		1/2"	12	12	12	1	20	4
5	20	1	12	12	12	1/2"			1080	REC: CORRIDOR	C	REC: EXAM 3 & 4			1800	1/2"	12	12	12	1	20	6
7	20	1	12	12	12	1/2"	1800			REC: EXAM 1 & 2	A	REC: WAITING RM & RECEPTION	1620			1/2"	12	12	12	1	20	8
9	20	1	12	12	12	1/2"		360		REC: LAB	B	REC: LAB		1080		1/2"	12	12	12	1	20	10
11	20	1	12	12	12	1/2"			1440	REC: OFFICES	C	REC: BREAKROOM			720	1/2"	12	12	12	1	20	12
13	20	1	12	12	12	1/2"	720			REC: FRIDGE//	A	REC: TOASTER	1200			1/2"	12	12	12	1	20	14
15	20	1	12	12	12	1/2"		1000		REC: MICROWAVE	B	COOKTOP		1500		1/2"	12	-	12	2	20	16
17	-	-	-	-	-	-			5019	-	C	-			1500	-	-	-	-	-	-	18
19	60	3	6	-	10	1"	5019			VAV-07	A	REC: PRINTER	720			1/2"	12	12	12	1	20	20
21	-	-	-	-	-	-		5019		-	B	REC: FRIDGE		720		1/2"	12	12	12	1	20	22
23	20	2	12	-	12	1/2"			1498	VAV-01	C	REC: ROOFTOP/EXTERIOR			360	1/2"	12	12	12	1	20	24
25	-	-	-	-	-	-	1498			-	A	VAV-06	998			1/2"	12	-	12	2	15	26
27	20	2	12	-	12	1/2"		1498		VAV-02	B	-		998		-	-	-	-	-	-	28
29	-	-	-	-	-	-			1498	-	C	WH-2			2500	3/4"	10	-	8	2	35	30
31	30	2	10	-	10	3/4"	2246			VAV-03	A	-	2500			-	-	-	-	-	-	32
33	-	-	-	-	-	-		2246		-	B	VAV-08		1498		1/2"	12	-	12	2	20	34
35	20	2	12	-	12	1/2"			1498	VAV-04	C	-			1498	-	-	-	-	-	-	36
37	-	-	-	-	-	-	1498			-	A	-	9127			-	-	-	-	-	-	38
39	20	2	12	-	12	1/2"		1498		VAV-05	B	RTU-1		9127		1.25"	8	-	3	3	100	40
41	-	-	-	-	-	-			1498	-	C				9127	-	-	-	-	-	-	42
43	20	1	12	12	12	1/2"	720			REC: FRIDGE	A	REC: FRIDGE	720			1/2"	12	12	12	1	20	44
45	20	1	12	12	12	1/2"		500		REC: DATA	B	REC: DATA		500		1/2"	12	12	12	1	20	46
47	20	1	12	12	12	1/2"			500	REC: DATA	C	REC: DATA			500	1/2"	12	12	12	1	20	48
49	20	1	12	12	12	1/2"	500			GENERATOR BLOCK HEATER	A	SECURITY GATE	312			1/2"	12	12	12	1	20	50
51	20	1	12	12	12	1/2"		500		GENERATOR BATTERY CHARGER	B	SPARE				-	-	-	-	1	20	52
53	25	2	10	-	10	3/4"			915	MSHP-1	C	SPARE				-	-	-	-	1	20	54
55	-	-	-	-	-	-	915			-	A	SPARE				-	-	-	-	1	20	56
57	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	58
59	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	60
61	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	62
63	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	64
65	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	66
67	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	68
69	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	70
71	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	72
73	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	74
75	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	76
77	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	78
79	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	80
81	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	82
83	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	84
							15954	13701	14946			TOTAL	18045	15963	18005							
							AØ	BØ	CØ				AØ	BØ	CØ							

* = PROVIDE LOCK ON DEVICE
** = PROIVDE LOCK OFF DEVICE
// = PROVIDE GFCI CIRCUIT BREAKER

DEMAND LOAD SUMMARY

1886	VA LIGHTING (CONNECTED X 100%)
12380	VA RECEPTACLES (GENERAL PURPOSE)
9232	VA RECEPTACLES (DEDICATED)
0	VA MOTOR (LARGEST X 125%)
65736	VA PACKAGED HVAC (CONNECTED X 100%)
5000	VA WATER HEATING (CONNECTED X 100%)
0	VA NONCOINCIDENT (CONNECTED X 0%)
94234	=TOTAL DEMAND VA
262	=TOTAL DEMAND AMPS
268	=TOTAL CONNECTED AMPS

TOTAL CONNECTED VA

AØ	BØ	CØ
33999	29664	32951

TOTAL CONNECTED VA: 96614

PANEL MDP

10 POLE; SURFACE MOUNTED | BOLT-IN BREAKERS
LOCATION: ELEC/HVAC 249 | FULL SOLID NEUTRAL BUS
FED FROM SERVICE DISCONNECT | COPPER GROUND BUS
COPPER BUS

PNL VOTAGE: 208Y/120V,3P,4W
PNL AIC: VERIFY
MAIN LUG ONLY: 1200A BUS: 1200A

CKT.	AMP	POLE	WIRE SIZES PH	NEUT	EGC	CONDUIT SIZE	LOADS (VA) AØ	BØ	CØ	EQUIPMENT		EQUIPMENT	LOADS (VA) AØ	BØ	CØ	CONDUIT SIZE	WIRE SIZES EGC	NEUT	PH	POLE	AMP	CKT.
							20592				A		33999									
1	250	3	SEE RISER DIAGRAM					15330		PANEL L1	B	PANEL P1 (VIA ATS-1)//		29664		SEE RISER DIAGRAM				3	300	2
									20038		C				32951							
3	250	2	SEE RISER DIAGRAM				10400			PANEL OMP	A											
								10400			B	PREPARED SPACE				-				3	-	4
											C											
5	-	3	-							PREPARED SPACE	A											
											B	PREPARED SPACE				-				3	-	6
											C											
7	-	3	-							PREPARED SPACE	A											
											B	PREPARED SPACE				-				3	-	8
											C											
9	-	3	-							PREPARED SPACE	A											
											B	PREPARED SPACE				-				3	-	10
											C											
							30992	25729.8	20038			TOTAL	33999	29664	32951							
							AØ	BØ	CØ				AØ	BØ	CØ							

* = PROVIDE LOCK ON DEVICE
** = PROIVDE LOCK OFF DEVICE
// = PROVIDE 100% RATED CIRCUIT BREAKER

TOTAL CONNECTED VA

AØ	BØ	CØ
64991	55394	52989

TOTAL CONNECTED VA: 173374

DEMAND LOAD SUMMARY

4414	VA LIGHTING (CONNECTED X 100%)
22600	VA RECEPTACLES (GENERAL PURPOSE)
30752	VA RECEPTACLES (DEDICATED)
0	VA MOTOR (LARGEST X 125%)
88532	VA PACKAGED HVAC (CONNECTED X 100%)
10000	VA WATER HEATING (CONNECTED X 100%)
14476	VA NONCOINCIDENT (CONNECTED X 0%)
156298	=TOTAL DEMAND VA
434	=TOTAL DEMAND AMPS
482	=TOTAL CONNECTED AMPS

PANEL L1

84 POLE; SURFACE MOUNTED | BOLT-IN BREAKERS
LOCATION: ELEC/HVAC 249 | FULL SOLID NEUTRAL BUS
FED FROM MDP | GROUND BUS
COPPER BUS

PNL VOTAGE: 208Y/120V,3P,4W
PNL AIC (RMS): VERIFY
MAIN LUG ONLY: 250A BUS: 250A

CKT.	AMP	POLE	WIRE SIZES PH	NEUT	EGC	CONDUIT SIZE	LOADS (VA) AØ	BØ	CØ	EQUIPMENT		EQUIPMENT	LOADS (VA) AØ	BØ	CØ	CONDUIT SIZE	WIRE SIZES EGC	NEUT	PH	POLE	AMP	CKT.
1	20	1	12	12	12	1/2"	949			LTG: CLASSROOMS & STORAGE	A	LTG: CORRIDOR	474			1/2"	12	12	12	1	20	2
3	20	1	12	12	12	1/2"		754		LTG: CLASSROOMS & TLTS	B	LTG: NIGHTLIGHTS		351		1/2"	12	12	12	1	20	4
5	20	1	12	12	12	1/2"			360	TIME CLOCK*	C	REC: CLASSROOM 243			1080	1/2"	12	12	12	1	20	6
7	20	1	12	12	12	1/2"	1440			REC: RECEPTION & TLT	A	REC: CLASSROOM 243	1080			1/2"	12	12	12	1	20	8
9	20	1	12	12	12	1/2"		1440		REC: CORRIDOR	B	FIRE ALARM CONTROL PANEL		360		1/2"	12	12	12	1	20	10
11	20	1	12	12	12	1/2"			180	REC: EXTERIOR	C	REC: ROOFTOP			360	1/2"	12	12	12	1	20	12
13	20	1	12	12	12	1/2"	1080			REC: CLASSROOM 245	A	REC: CLASSROOM 246	1260			1/2"	12	12	12	1	20	14
15	20	1	12	12	12	1/2"		1080		REC: CLASSROOM 245	B	REC: CLASSROOM 246		1440		1/2"	12	12	12	1	20	16
17	60	2	6	-	10	1"			4243	AHU-1	C	HP-1			3078	1"	10	-	6	2	60	18
19	-	-	-	-	-	-	4243			-	A	-	3078			-	-	-	-	-	-	20
21	40	2	8	-	10	3/4"		3162		AHU-2	B	HP-2		1165		3/4"	10	-	10	2	25	22
23	-	-	-	-	-	-			3162	-	C	-			1165	-	-	-	-	-	-	24
25	25	2	10	-	10	3/4"	1830			AHU-3	A	HP-3	1248			3/4"	10	-	10	2	25	26
27	-	-	-	-	-	-		1830		-	B	-		1248		-	-	-	-	-	-	28
29	30	2	10	-	10	3/4"			2163	AHU-4	C	HP-4			1747	3/4"	10	-	8	2	35	30
31	-	-	-	-	-	-	2163			-	A	-	1747			-	-	-	-	-	-	32
33	20	1	-	-	-	-				SPARE	B	WH-1		2500		3/4"	10	-	8	2	35	34
35	20	1	-	-	-	-				SPARE	C				2500	-	-	-	-	-	-	36
37	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	38
39	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	40
41	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	42
43	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	44
45	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	46
47	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	48
49	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	50
51	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	52
53	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	54
55	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	56
57	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	58
59	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	60
61	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	62
63	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	64
65	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	66
67	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	68
69	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	70
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73	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	74
75	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	76
77	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	78
79	20	1	-	-	-	-				SPARE	A	SPARE				-	-	-	-	1	20	80
81	20	1	-	-	-	-				SPARE	B	SPARE				-	-	-	-	1	20	82
83	20	1	-	-	-	-				SPARE	C	SPARE				-	-	-	-	1	20	84
							11705	8266	10108			TOTAL	8887	7064	9930							
							AØ	BØ	CØ				AØ	BØ	CØ							

* = PROVIDE LOCK ON DEVICE
** = PROIVDE LOCK OFF DEVICE

TOTAL CONNECTED VA

AØ	BØ	CØ
20592	15330	20038

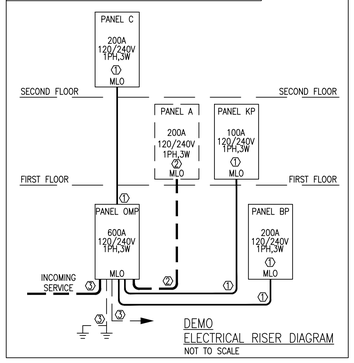
TOTAL CONNECTED VA: 55960

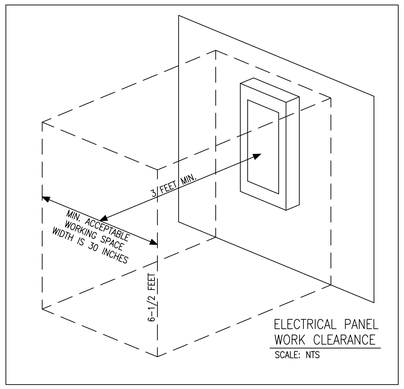
DEMAND LOAD SUMMARY

2528	VA LIGHTING (CONNECTED X 100%)
10220	VA RECEPTACLES (GENERAL PURPOSE)
720	VA RECEPTACLES (DEDICATED)
0	VA MOTOR (LARGEST X 125%)
22796	VA PACKAGED HVAC (CONNECTED X 100%)
5000	VA WATER HEATING (CONNECTED X 100%)
14476	VA NONCOINCIDENT (CONNECTED X 0%)
41264	= TOTAL DEMAND VA
115	=TOTAL DEMAND AMPS
155	=TOTAL CONNECTED AMPS

KEY NOTES

① EXISTING TO REMAIN.
② DEMOLISH EXISTING PANEL AND FEEDER.
③ DEMOLISH FEEDER TO EXISTING SERVICE ENTRANCE PANEL.





LIGHTING FIXTURE SCHEDULE*

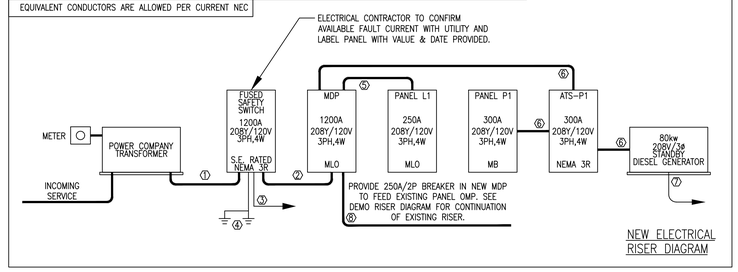
TYPE	DESCRIPTION	MANUFACTURER: CATALOG NO.	LIGHT SOURCE	VOLTAGE	NOTES
A2	2X2 LAY-IN FLAT PANEL LIGHT FIXTURE	LITHONIA: EPANL 2X2 3400LM 80CRI 40K MIN10 ZT MVOLT	LED (INCLUDED) 3400 LUMENS 4000K CRI 80+	MVOLT	– 31 WATTS
B2	2X4 LAY-IN FLAT PANEL LIGHT FIXTURE	LITHONIA: EPANL 2X4 4000LM 80CRI 40K MIN10 ZT MVOLT	LED (INCLUDED) 4000 LUMENS 4000K CRI 80+	MVOLT	– 39 WATTS
B3	2X4 LAY-IN FLAT PANEL LIGHT FIXTURE	LITHONIA: EPANL 2X4 3000LM 80CRI 40K MIN10 ZT MVOLT	LED (INCLUDED) 3000 LUMENS 4000K CRI 80+	MVOLT	– 29 WATTS
B4	2X4 LAY-IN FLAT PANEL LIGHT FIXTURE	LITHONIA: EPANL 2X4 5400LM 80CRI 40K MIN10 ZT MVOLT	LED (INCLUDED) 5400 LUMENS 4000K CRI 80+	MVOLT	– 51 WATTS
B5	2X4 LAY-IN FLAT PANEL LIGHT FIXTURE	LITHONIA: EPANL 2X4 6800LM 80CRI 40K MIN10 ZT MVOLT	LED (INCLUDED) 6800 LUMENS 4000K CRI 80+	MVOLT	– 63 WATTS
D4	4' PENDANT MOUNTED LINEAR LED LIGHT FIXTURE	LITHONIA: GRD LSL 4FT MSL4 80CRI 40K ID1000LMF 20/80 MIN10 ZT 120V	LED (INCLUDED) 4000 LUMENS 4000K CRI 80+	120V	– 32 WATTS
EA	WALL MOUNTED, EXIT SIGN/EMERGENCY COMBO LIGHT FIXTURE, RED STENCIL, WITH HIGH-OUTPUT BATTERY BACK UP	LITHONIA: LHQM LED R HO	LED (INCLUDED)	MVOLT	– 5 WATTS
EB	WALL MOUNTED, EXIT SIGN/EMERGENCY COMBO LIGHT FIXTURE, RED STENCIL	LITHONIA: LHQM LED R	LED (INCLUDED)	MVOLT	– 5 WATTS
EC	CEILING MOUNTED SINGLE-FACED EXIT LIGHT FIXTURE WITH BATTERY BACK UP	LITHONIA: LQM S W 3 R 120/277 EL N	LED (INCLUDED)	MVOLT	– 5 WATTS
ED	CEILING MOUNTED DOUBLE-FACED EXIT LIGHT FIXTURE WITH BATTERY BACK UP	LITHONIA: LQM S W 3 R 120/277 EL N	LED (INCLUDED)	MVOLT	– 5 WATTS
EM	WALL MOUNTED EMERGENCY LIGHT FIXTURE, BATTERY BACK UP, LED	LITHONIA: ELM4L	LED (INCLUDED) 640 LUMENS	MVOLT	– 11 WATTS
ER	WALL MOUNTED, EXTERIOR, EGRESS EMERGENCY LIGHT FIXTURE, BATTERY BACKED UP BY INTERIOR EXIT/EMERGENCY COMBO LED	LITHONIA: ELA T Q L0309	LED (INCLUDED)	MVOLT	– 5 WATTS
F1	6" RECESSED MOUNTED LED CAN LIGHT FIXTURE	LITHONIA: LDN6 40/15 L06 AR LSS MVOLT EZ10	LED (INCLUDED) 1700 LUMENS 4000K CRI 80+	MVOLT	– 21 WATTS

* ALL LIGHTING FIXTURES INDICATED ARE 'OR EQUIVALENT'.

WIRING LEGEND

① (3) SETS OF 3.5" CONDUIT WITH (4) 600kcmil COPPER IN EACH.
② (3) SETS OF 3.5" CONDUIT WITH (4) 600kcmil COPPER AND (1) 3/0 COPPER GROUND IN EACH.
③ 3/0 COPPER GROUNDING ELECTRODE CONDUCTOR TO BUILDING STEEL, INCOMING METALLIC WATER LINE, AND 20FT CONCRETE-ENCLOSED GROUNDING ELECTRODE AS AVAILABLE.
④ PROVIDE SUPPLEMENTAL GROUND PER NEC 250.53 (#4 COPPER TO (2) MINIMUM 8' DRIVEN GROUND RODS.)
⑤ 2.5" CONDUIT WITH (4) 250kcmil COPPER AND (1) #4 COPPER GROUND.
⑥ 3" CONDUIT WITH (4) 350kcmil COPPER AND (1) #4 COPPER GROUND.
⑦ #2 COPPER GROUNDING ELECTRODE CONDUCTOR TO BUILDING STEEL, INCOMING METALLIC WATER LINE, AND 20FT CONCRETE-ENCLOSED GROUNDING ELECTRODE AS AVAILABLE.
⑧ 2.5" CONDUIT WITH (3) 250kcmil COPPER AND (1) #4 COPPER GROUND.

EQUIVALENT CONDUCTORS ARE ALLOWED PER CURRENT NEC



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Renovations of
Baywood Technology & Community Center
247 Grammer Lane
Galax, VA. 24333

B.E.C.I. SOLUTIONS BY DESIGN
Beekman Point ENGINEERING

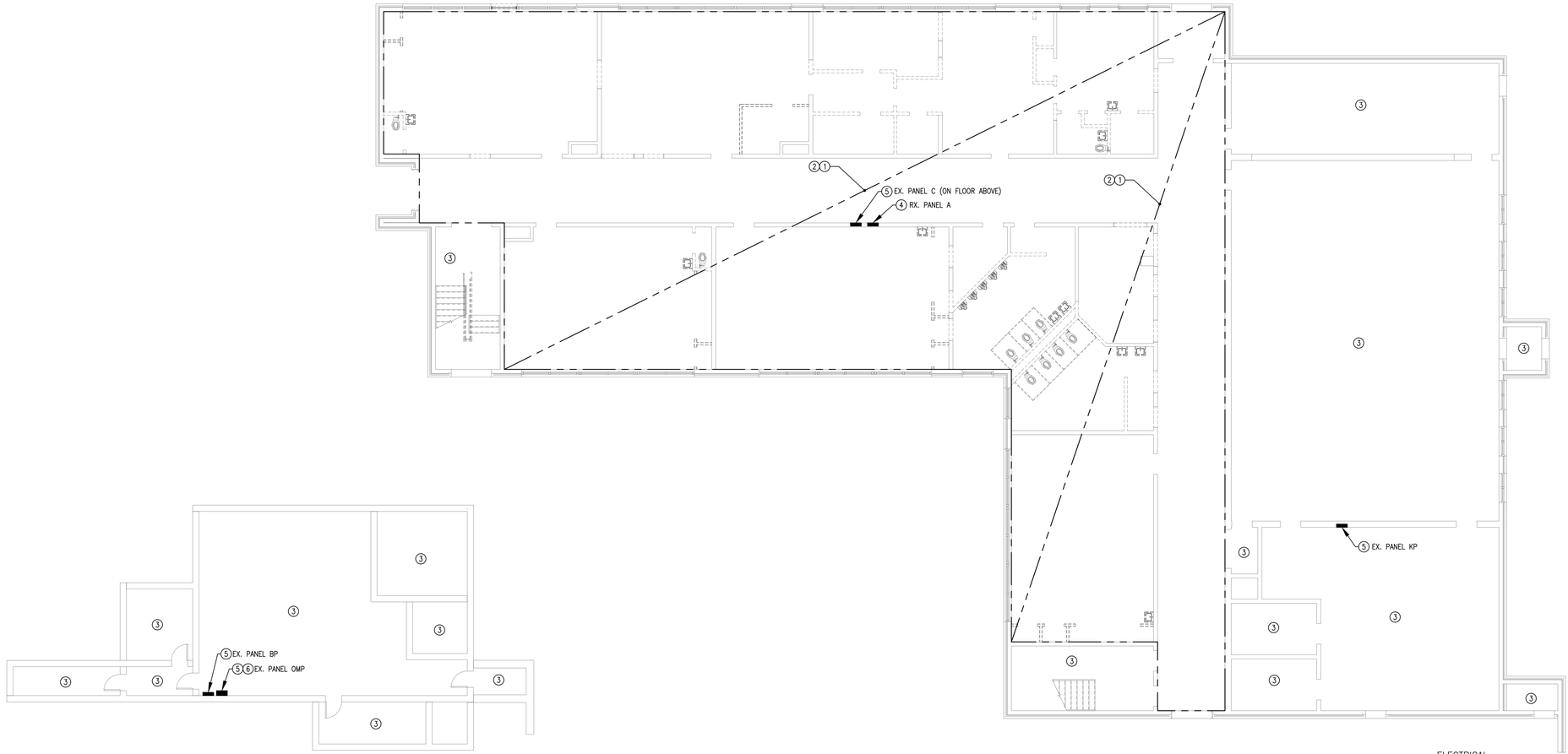
Project Status:
ISSUED FOR CONSTRUCTION
Revision No:(if any): Revision Date:
Project No: 2021-003 Current Date: 10/25/21
Drawing Name:
Electrical Riser Diagram & Electrical Schedules
Drawing No:
E-0.2
BECI Project No: 5811

GENERAL DEMOLITION NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT, AND PERFORM ALL OPERATIONS NECESSARY FOR THE DEMOLITION OF EXISTING ELECTRICAL WORK TO MEET THE INTENT OF, AND AS INDICATED ON THE DEMOLITION DRAWINGS. SPECIFIC ITEMS AND MATERIALS MAY OR MAY NOT BE ADDRESSED IN SPECIFICATIONS AND DRAWINGS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STATE BUILDING CODE, LOCAL CODES, NFPA, CURRENT NEC AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS OF THE LOCAL INSPECTOR. THESE CODE STANDARDS ARE NOT ACCEPTABLE ALTERNATIVES TO REDUCE THE STANDARDS OR REQUIREMENTS OUTLINED IN THESE PLANS AND SPECIFICATIONS. ALL APPLICABLE "OSHA" REGULATIONS MUST BE FOLLOWED WHILE PERFORMING THIS WORK.
3. BEFORE SUBMITTING BID, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO VERIFY/EXAMINE THE EXACT EXTENT OF EXISTING CONDITIONS.
4. THE ELECTRICAL DEMOLITION DRAWINGS ARE BASED ON EXISTING PLANS AND FIELD INVESTIGATION PRIOR TO DEMOLITION. LOCATIONS OF CONCEALED ELECTRICAL CONDUIT AND EQUIPMENT CAN NOT BE VERIFIED.
5. THE ELECTRICAL DEMOLITION DRAWINGS INDICATE THE GENERAL EXTENT OF THE EXISTING ELECTRICAL SYSTEMS TO BE REMOVED OR RELOCATED. ALL COMPONENTS ASSOCIATED WITH SYSTEMS AND EQUIPMENT TO BE REMOVED OR RELOCATED MAY NOT BE SPECIFICALLY INDICATED BUT SHALL BE REMOVED. ASSOCIATED ELECTRICAL COMPONENTS TO BE REMOVED INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS: HANGERS, WIRING, CABLING, CONDUIT, BOXES, STARTERS, DISCONNECTS, SWITCHES.
6. DISCONNECT EXISTING TO BE REMOVED OR EXISTING TO BE RELOCATED CONDUIT, WIRING, CABLING, AND EQUIPMENT AS INDICATED ON ELECTRICAL DEMOLITION DRAWINGS. UNUSED CONDUIT AND WIRING SHALL BE REMOVED BACK TO THE SOURCE FOR THE UNUSED SEGMENT. UNLESS SPECIFICALLY INDICATED, NO EQUIPMENT, MATERIALS OR ASSOCIATED COMPONENTS SHALL BE ABANDONED IN PLACE.
7. EXERCISE EXTREME CARE WHEN WORKING AROUND EXISTING WORK TO REMAIN. ANY DAMAGE TO EXISTING TO REMAIN OR EXISTING TO BE RELOCATED MATERIALS AND EQUIPMENT SHALL BE CORRECTED OR REPLACED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
8. WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING REMOVAL OR RELOCATION OF ELECTRICAL WORK, PATCH THE CUT OR DAMAGED AREAS TO MATCH ADJACENT CONSTRUCTION.
9. ELECTRICAL SYSTEMS ASSOCIATED WITH OCCUPIED PORTIONS OF THE BUILDING SHALL BE KEPT IN OPERATION AS MUCH AS POSSIBLE. WHEN REQUIRED, OUTAGES SHALL BE SCHEDULED AND APPROVED IN ADVANCED BY THE OWNER. OUTAGE DURATION SHALL BE KEPT TO A MINIMUM. WHERE NECESSARY, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
10. THE CONTINUITY OF ALL EXISTING CONDUITS AND FEEDERS SERVICING AREAS TO REMAIN SHALL BE MAINTAINED. MODIFY THE EXISTING CIRCUITS IF REQUIRED IN ORDER TO MAINTAIN THE EXISTING CIRCUITRY.
11. ALL ABANDONED CIRCUITRY, ELECTRICAL BOXES, AND CONDUIT SHALL BE DEMOLISHED.

(E) ELECTRICAL DEMO KEYED NOTES:

1. UNLESS OTHERWISE INDICATED, REMOVE ALL EXISTING EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, LIGHTING FIXTURES, & ASSOCIATED CONTROLS IN THIS SPACE.
2. UNLESS OTHERWISE INDICATED, REMOVE ALL EXISTING RECEPTACLES, EQUIPMENT CONNECTIONS, AND DATA OUTLETS IN THIS SPACE.
3. UNLESS OTHERWISE INDICATED, ALL ELECTRICAL DEVICES ARE EXISTING TO REMAIN IN THIS ROOM.
4. EXISTING PANEL A TO BE DEMOLISHED. REFER TO DEMO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
5. EXISTING PANEL TO REMAIN.
6. DEMOLISH EXISTING SERVICE ENTRANCE FEEDER SERVING EXISTING PANEL OMP. REMOVE GROUNDING ELECTRODE CONDUCTOR CONNECT TO EXISTING GROUNDING ELECTRODE. REMOVE NEUTRAL-GROUND BONDING JUMPER. REFER TO DEMO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.



2 ED-1 BASEMENT ELECTRICAL DEMO PLAN
SCALE: 1/8" = 1' - 0"

1 ED-1 ELECTRICAL DEMO PLAN
SCALE: 1/8" = 1' - 0"

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Renovations of

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247 Grammer Lane
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SOLUTIONS BY DESIGN

Beekman Point ENGINEERING

Project Status:
ISSUED FOR CONSTRUCTION

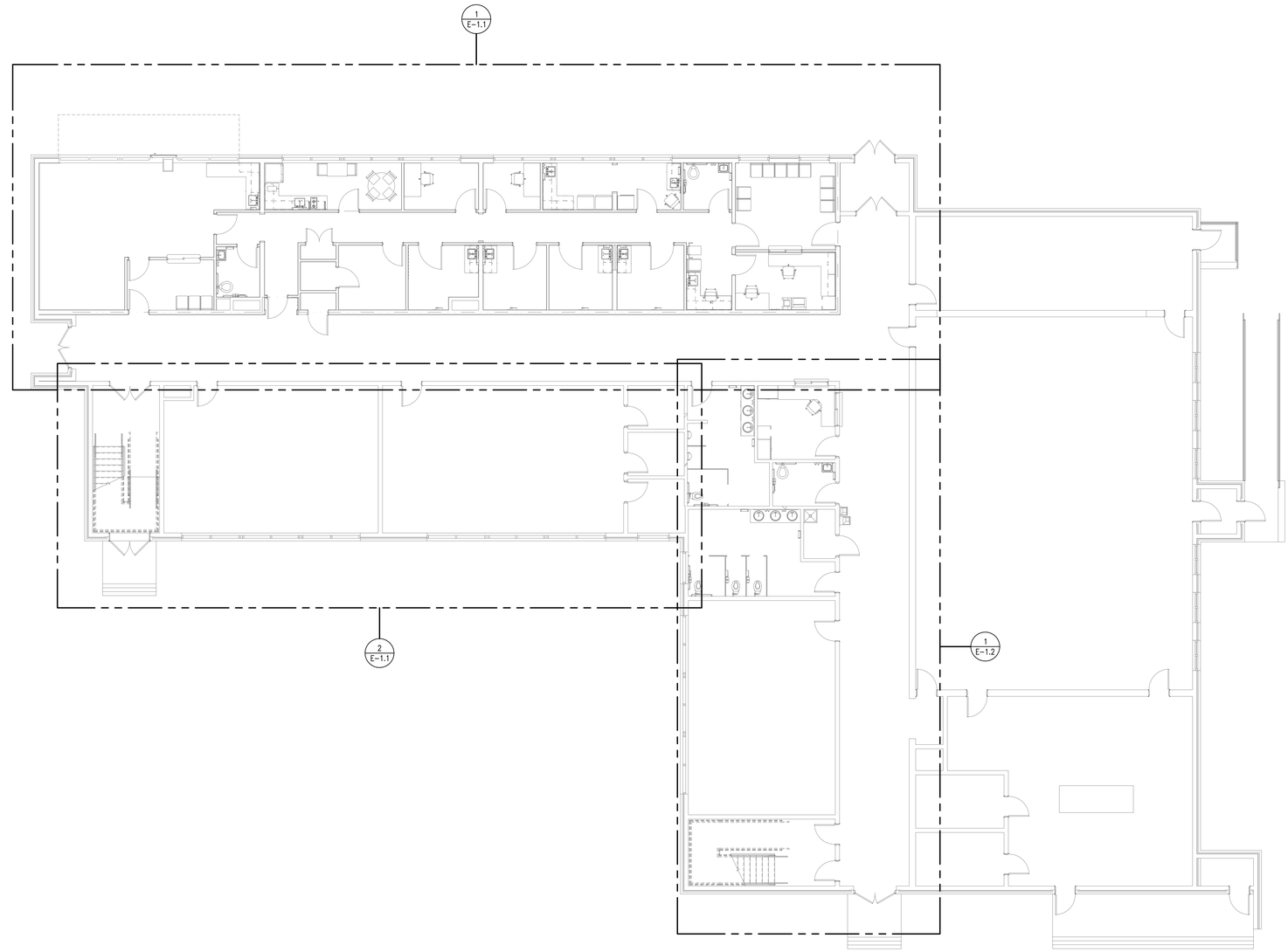
Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

Drawing Name:
Electrical Demo Plan

Drawing No:
ED-1

BECI Project No: 5811



1 E-1.0 OVERALL LIGHTING PLAN
SCALE: 1/8" = 1' - 0"

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Project Status:
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Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

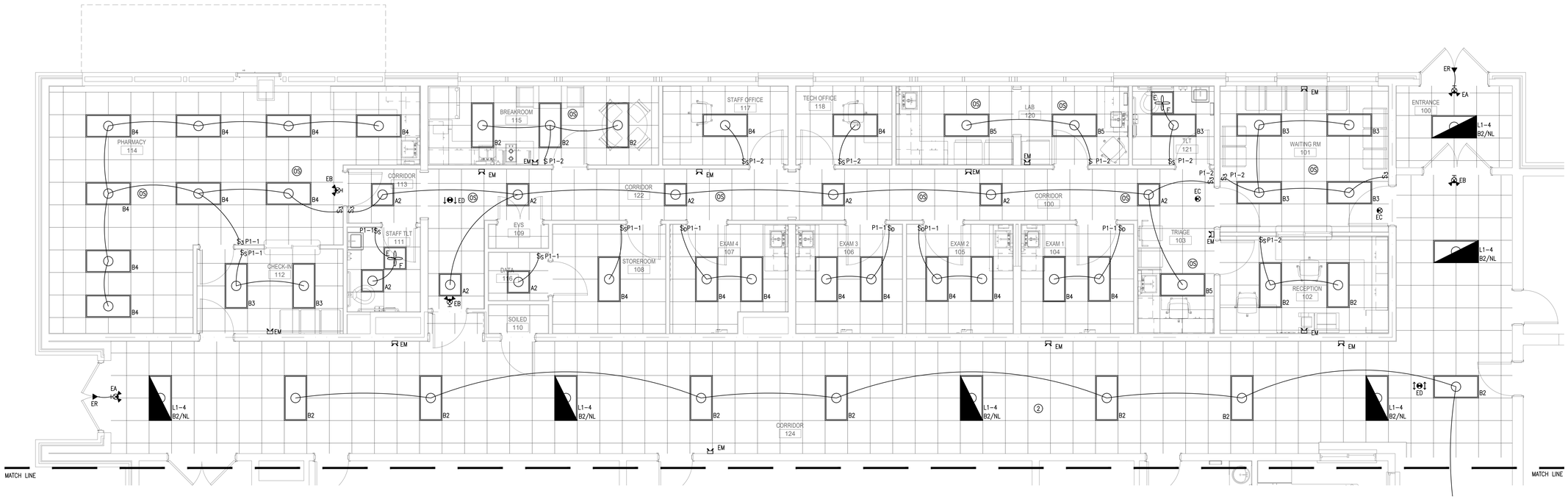
Drawing Name:
Overall Lighting Plan

Drawing No:
E-1.0

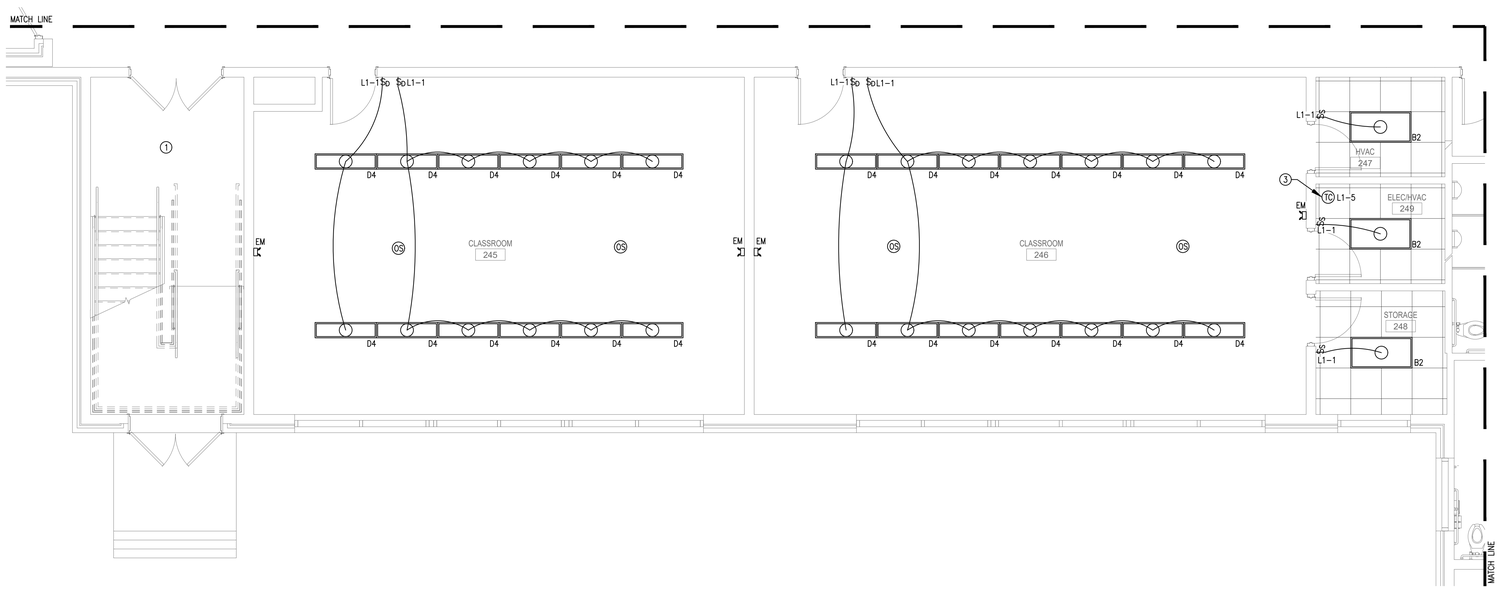
BECI Project No: 5811

ELECTRICAL KEYED NOTES:

1. UNLESS OTHERWISE INDICATED, ALL ELECTRICAL DEVICES ARE EXISTING TO REMAIN IN THIS ROOM.
2. CORRIDOR LIGHTING FIXTURES ARE CONTROLLED VIA DIGITAL TIME CLOCK LOCATED IN STORAGE 249 AND SINGLE POLE SWITCH IN RECEPTION 201.
3. VERIFY EXACT LOCATION OF DIGITAL TIME CLOCK IN FIELD.



1 E-1.1 ENLARGED EXIT, EMERGENCY, & LIGHTING PLAN
SCALE: 1/4" = 1' - 0"



2 E-1.1 ENLARGED EXIT, EMERGENCY, & LIGHTING PLAN
SCALE: 1/4" = 1' - 0"

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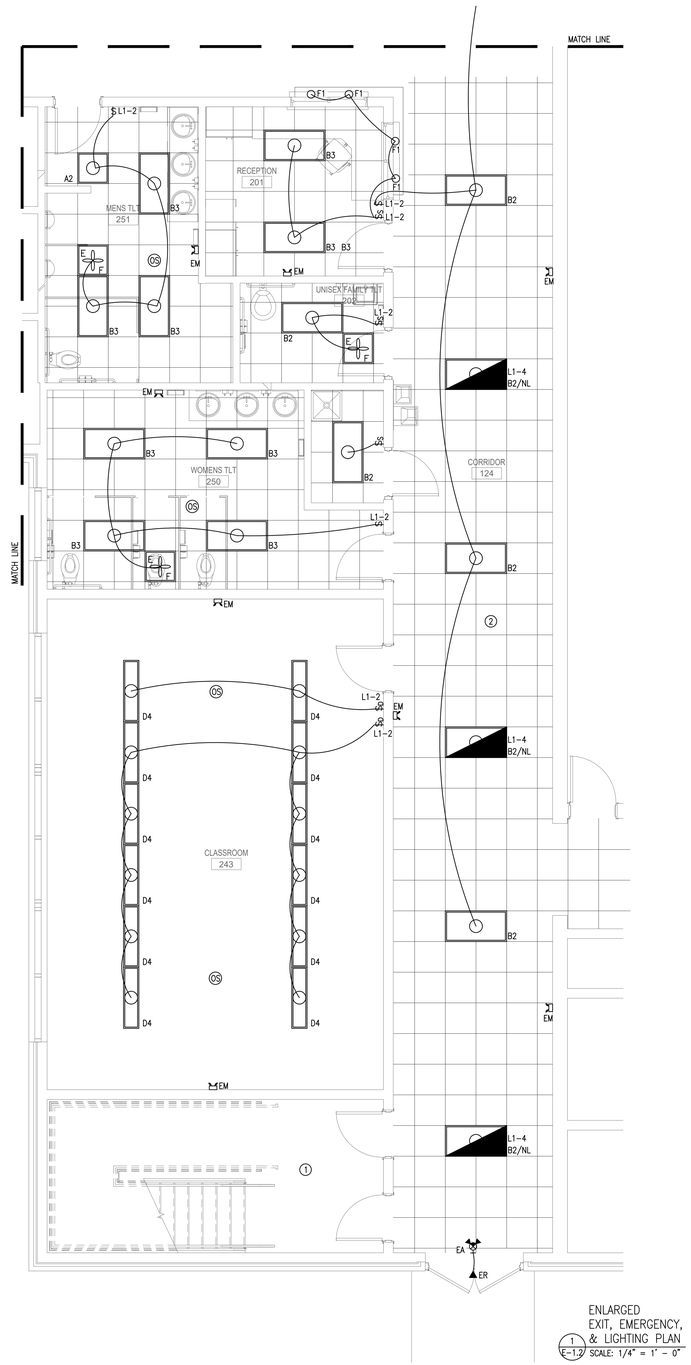
Project Status: ISSUED FOR CONSTRUCTION
Revision No (if any): Revision Date:
Project No: 2021-003
Current Date: 10/25/21
Drawing Name: **Enlarged Lighting Plans**
Drawing No: **E-1.1**
BECI Project No: 5811

ELECTRICAL KEYED NOTES:

1. UNLESS OTHERWISE INDICATED, ALL ELECTRICAL DEVICES ARE EXISTING TO REMAIN IN THIS ROOM.
2. CORRIDOR LIGHTING FIXTURES ARE CONTROLLED VIA DIGITAL TIME CLOCK LOCATED IN STORAGE 249 AND SINGLE POLE SWITCH IN RECEPTION 201.



ENLARGED
EXIT, EMERGENCY,
& LIGHTING PLAN

1 / E-1.2 SCALE: 1/4" = 1' - 0"

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Project Status:
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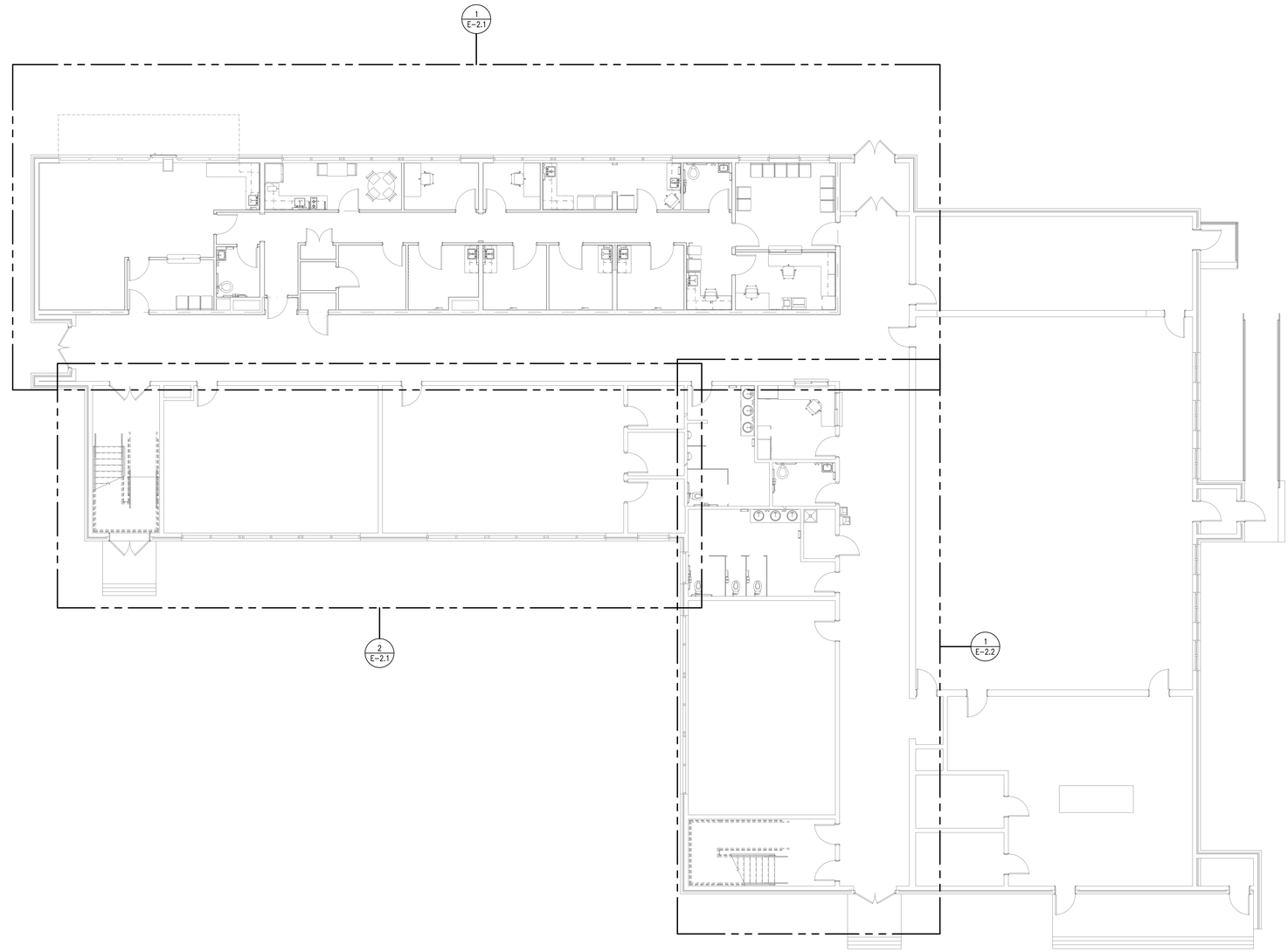
Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

Drawing Name:
Enlarged Lighting Plan

Drawing No:
E-1.2

BECI Project No: 5811



OVERALL
POWER & FIRE
ALARM PLAN

1 / E-2.0 SCALE: 1/8" = 1' - 0"

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These drawings convey certain contractual information through the use of color. Do NOT use drawings printed in black-and-white or greyscale.

Project Status:
ISSUED FOR CONSTRUCTION

Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

Drawing Name:
Overall Power & Fire Alarm Plan

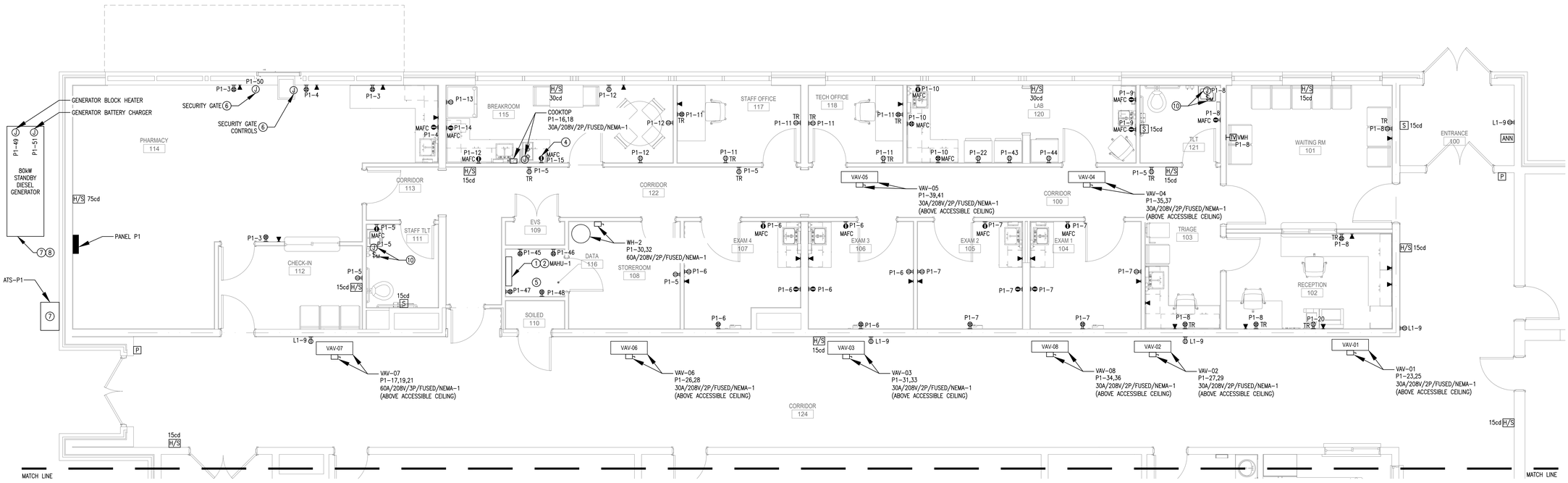
Drawing No:
E-2.0

BECI Project No: 5811

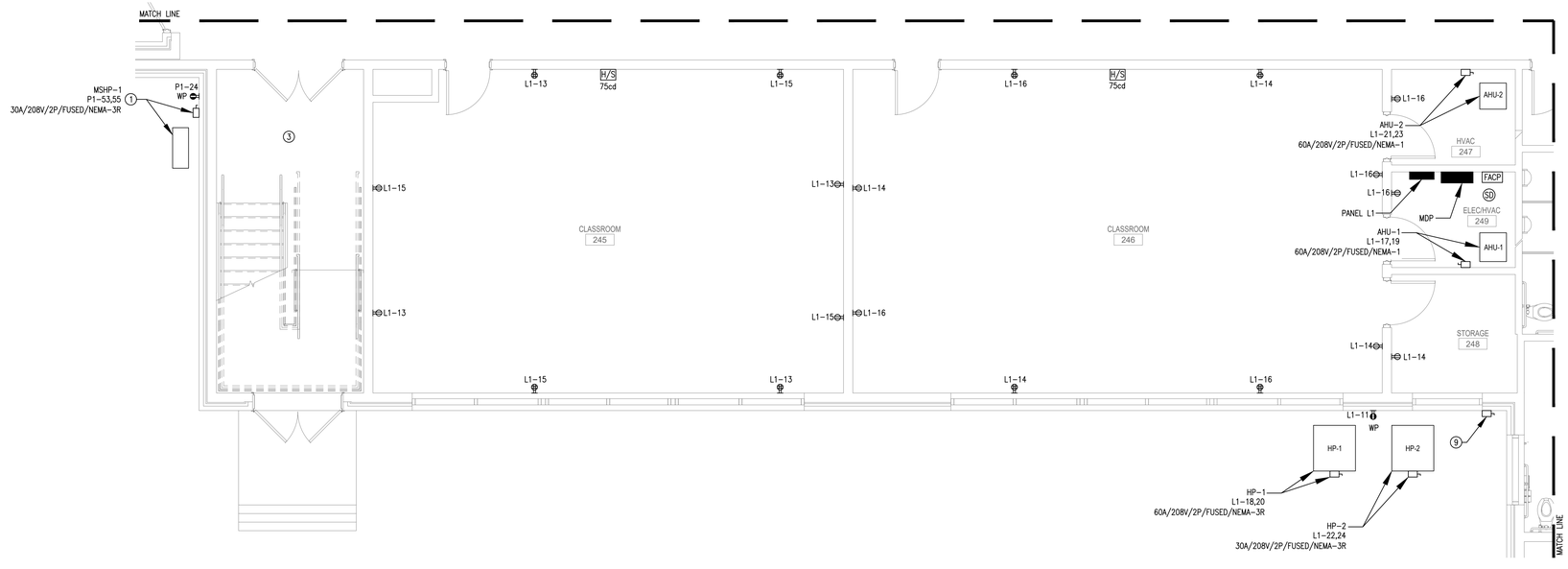
PATIENT CARE AREAS
EXAM 1 (104)
EXAM 2 (105)
EXAM 3 (106)
EXAM 4 (107)

ELECTRICAL KEYED NOTES:

1. PROVIDE MANUFACTURER'S RECOMMENDED CONDUIT AND CONTROL WIRING BETWEEN INTERIOR AIR HANDLER (MAHU) AND EXTERIOR HEAT PUMP (MSHP).
2. INTERIOR AIR HANDLER (MAHU) POWERED FROM EXTERIOR HEAT PUMP (MSHP).
3. UNLESS OTHERWISE INDICATED, ALL ELECTRICAL DEVICES ARE EXISTING TO REMAIN IN THIS ROOM.
4. COORDINATE RECEPTACLE LOCATION WITH MICROWAVE.
5. CONFIRM POWER REQUIREMENTS FOR DATA CLOSET WITH OWNER.
6. PROVIDE MANUFACTURER'S RECOMMENDED CONDUIT, CONTROL WIRING, AND POWER WIRING BETWEEN SECURITY GATE AND SECURITY GATE CONTROLS. VERIFY LOCATION OF SECURITY GATE AND SECURITY GATE CONTROLS IN FIELD.
7. VERIFY LOCATION WITH OWNER IN FIELD.
8. PROVIDE GENERATOR WITH WEATHER-PROOF ENCLOSURE AND SUB-BASE FUEL TANK SIZED FOR 12 HOURS OF FUEL AT 100% RATED LOAD.
9. 1200A, NEMA-3R, S.E. RATED, FUSED SAFETY SWITCH (SERVICE DISCONNECT). REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
10. CONNECT BRANCH CIRCUIT INDICATED TO AUTOMATIC FAUCET POWER SUPPLY (PROVIDED BY OTHERS). COORDINATE LOCATION OF AUTOMATIC FAUCET POWER SUPPLY WITH PLUMBING CONTRACTOR IN FIELD. ELECTRICAL CONTRACTOR SHALL PROVIDE MOTOR RATED SWITCH AND ALL CONDUIT AND WIRING TO THE AUTOMATIC FAUCET POWER SUPPLY.



ENLARGED HVAC ELECTRICAL, POWER, & FIRE ALARM PLAN
1 / E-2.1 SCALE: 1/4" = 1' - 0"



ENLARGED HVAC ELECTRICAL, POWER, & FIRE ALARM PLAN
2 / E-2.1 SCALE: 1/4" = 1' - 0"

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10/25/2021

Renovations of
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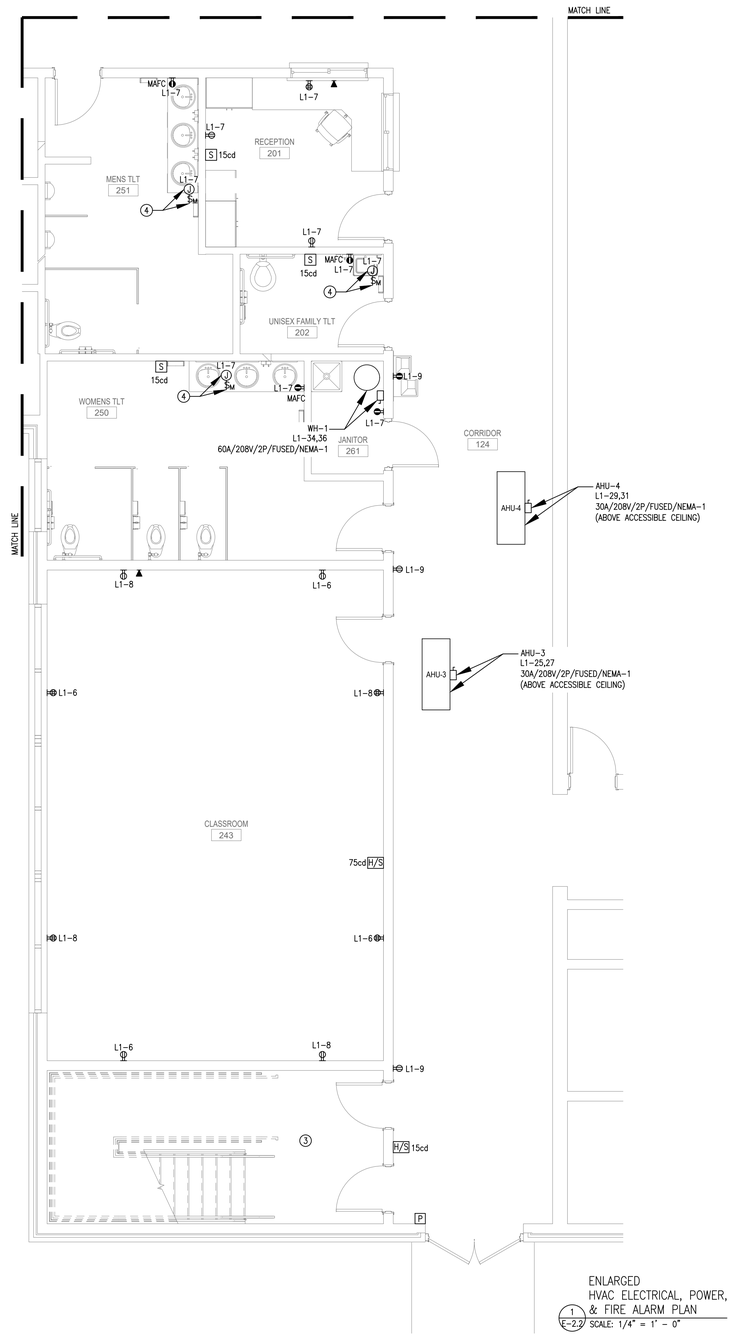
247 Grammer Lane
Galax, VA. 24333

B.E.C.I.
SOLUTIONS BY DESIGN

Beekman Point ENGINEERING

Project Status: ISSUED FOR CONSTRUCTION
Revision No (if any): Revision Date:
Project No: 2021-003
Current Date: 10/25/21
Drawing Name: **Enlarged Power & Fire Alarm Plans**
Drawing No: **E-2.1**
BECI Project No: 5811



ENLARGED
HVAC ELECTRICAL, POWER,
& FIRE ALARM PLAN

1 / E-2.2 SCALE: 1/4" = 1' - 0"

ELECTRICAL KEYED NOTES:

1. PROVIDE MANUFACTURER'S RECOMMENDED CONDUIT AND CONTROL WIRING BETWEEN INTERIOR AIR HANDLER (MAHU) AND EXTERIOR HEAT PUMP (MSHP).
2. INTERIOR AIR HANDLER (MAHU) POWERED FROM EXTERIOR HEAT PUMP (MSHP).
3. UNLESS OTHERWISE INDICATED, ALL ELECTRICAL DEVICES ARE EXISTING TO REMAIN IN THIS ROOM.
4. CONNECT BRANCH CIRCUIT INDICATED TO AUTOMATIC FAUCET POWER SUPPLY (PROVIDED BY OTHERS). COORDINATE LOCATION OF AUTOMATIC FAUCET POWER SUPPLY WITH PLUMBING CONTRACTOR IN FIELD. ELECTRICAL CONTRACTOR SHALL PROVIDE MOTOR RATED SWITCH AND ALL CONDUIT AND WIRING TO THE AUTOMATIC FAUCET POWER SUPPLY.

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B.E.C.I.
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Beekman Point ENGINEERING

Project Status:
ISSUED FOR CONSTRUCTION

Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

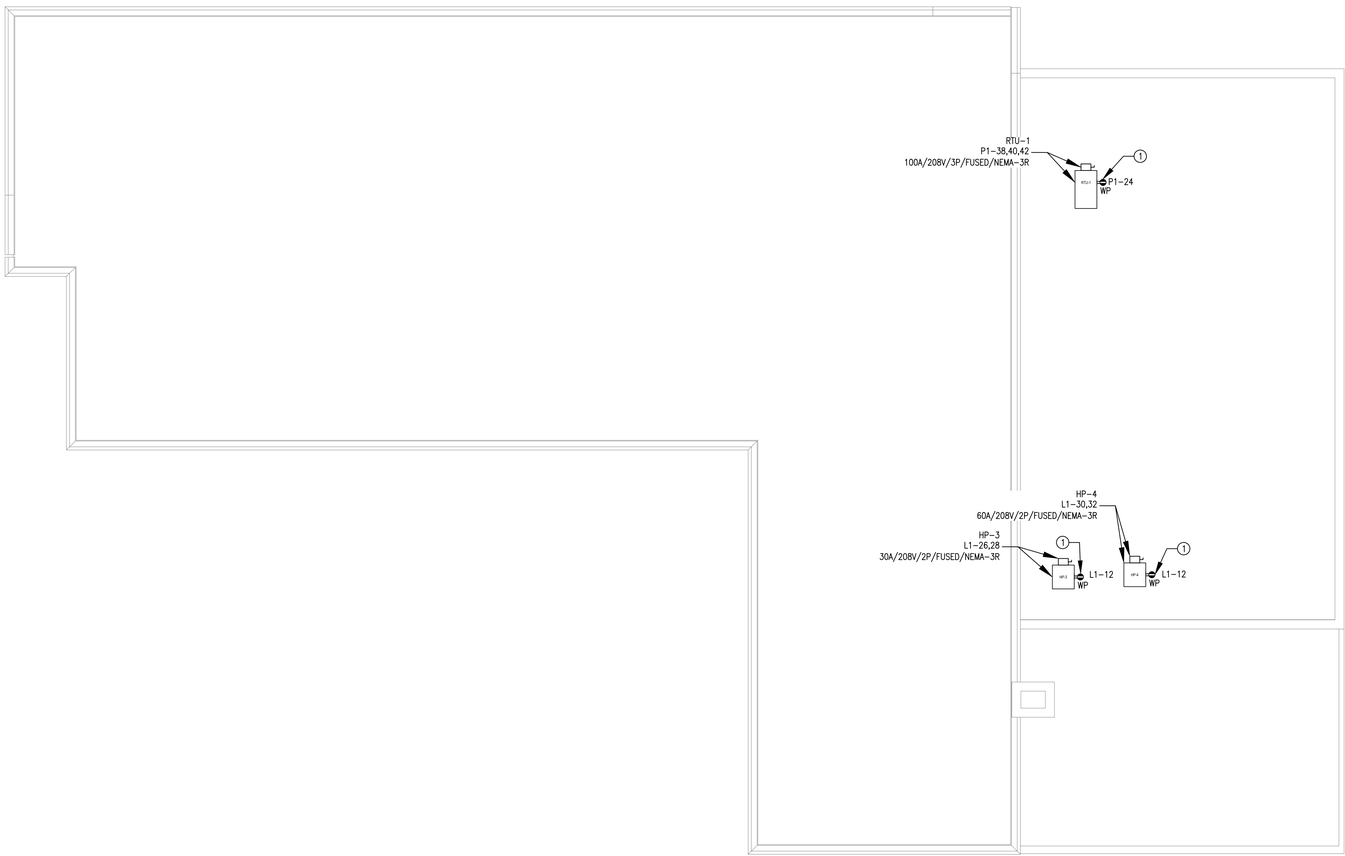
Drawing Name:
Enlarged Power & Fire Alarm Plan

Drawing No:
E-2.2

BECI Project No: 5811

ELECTRICAL KEYED NOTES:

1. MOUNT INDEPENDENTLY OF MECHANICAL ENCLOSURE.



ROOF
HVAC ELECTRICAL
& POWER PLAN
1 / E-3
SCALE: 1/8" = 1' - 0"

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Project Status:
ISSUED FOR CONSTRUCTION

Revision No (if any): Revision Date:

Project No: 2021-003
Current Date: 10/25/21

Drawing Name:

Roof HVAC Electrical & Power Plan

Drawing No:

E-3

BECI Project No: 5811