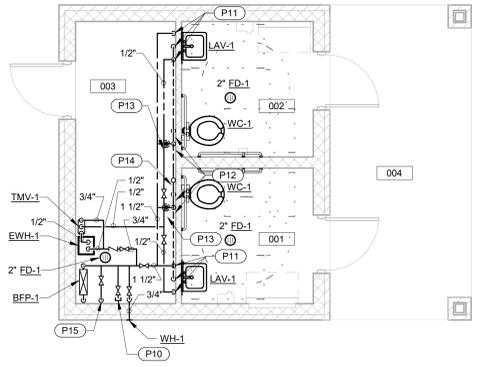


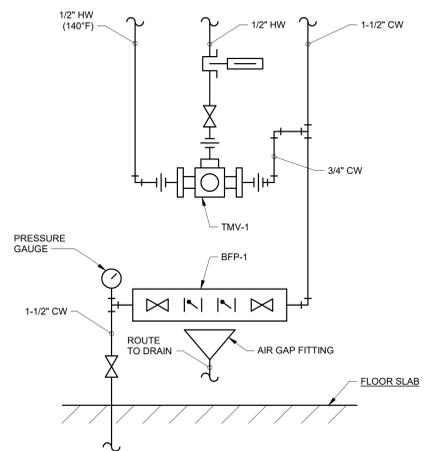
FOUNDATION PLUMBING PLAN
1/4" = 1'-0"



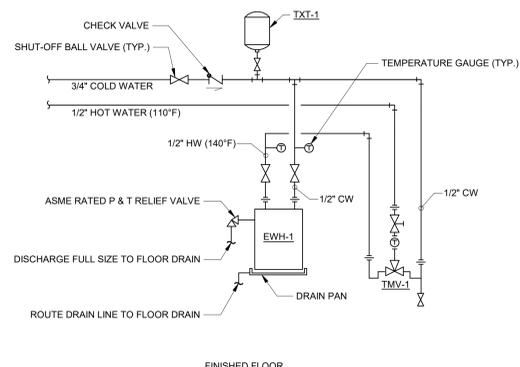
FIRST FLOOR PLUMBING PLAN
1/4" = 1'-0"

- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY CONDITIONS AT ALL POINTS OF CONNECTION PRIOR TO INSTALLATION.
 - ALL PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC. ADDITIONAL OFFSETS, WHICH MAY BE REQUIRED IN WASTE AND VENT RISERS SHALL BE PROVIDED AS REQUIRED.
 - COORDINATE PIPING LAYOUT WITH HVAC, ELECTRICAL, LIGHTING AND OTHER SPECIALTIES TO AVOID CONFLICTS.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, AND STANDARDS:
INDIANA BUILDING CODE
INDIANA MECHANICAL CODE
INDIANA PLUMBING CODE
SMACNA HVAC DUCT CONSTRUCTION STANDARDS
OSHA
 - INVERT ELEVATIONS BASED ON A FINISHED FLOOR ELEVATION OF 100.00.
 - PIPING SHALL NOT BE SUPPORTED FROM ROOF DECK. SUPPORT FROM STRUCTURE.

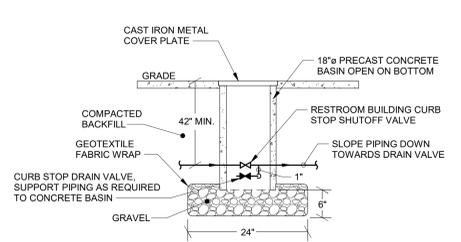
- PLAN NOTES:**
- 1-1/2" CW UP.
 - REFER TO CIVIL SITE PLANS FOR CONTINUATION.
 - PROVIDE AN INGROUND VALVE BOX WITH A CURB STOP SHUT-OFF VALVE AND DRAIN VALVE. SLOPE PIPING TOWARD DRAIN BOX. REFER TO "INGROUND CW MAIN SHUTOFF WITH DRAIN VALVE DETAIL" ON THIS SHEET.
 - PROVIDE AN INGROUND VALVE BOX WITH ACCESS TO THE SERVICE STOP, DRAIN VALVE AND P-TRAP.
 - 2" WASTE UP TO DRINKING FOUNTAIN.
 - 3/4" CW UP TO DRINKING FOUNTAIN. SLOPE PIPING BACK TO DRAIN VALVE.
 - 2" WASTE UP TO LAVATORY.
 - 2" WASTE UP TO FLOOR DRAIN.
 - 4" WASTE UP TO FIXTURE.
 - PROVIDE A 1/2" VENT VALVE WITH A CAP. SLOPE ALL WATER PIPING TO DRAIN BACK TO THE BUILDING SHUTOFF VALVE.
 - 1/2" CW, 1/2" HW, & 1-1/2" VENT DROP TO FIXTURE.
 - 1-1/2" CW & 2" VENT DROP TO FIXTURE.
 - PROVIDE WATER HAMMER ARRESTOR "A" IN ACCESSIBLE LOCATION IN CHASE.
 - 3" VENT UP THROUGH ROOF.
 - 3/4" CW PIPE DOWN BELOW FLOOR AND ROUTED TO YARD HYDRANT YH-1. PROVIDE DRAIN VALVE AT FLOOR.
 - 3/4" CW UP.
 - 3/4" CW SHALL BE ROUTED AS SHOWN TOWARD PROPOSED LOCATION FOR YH-1 AS PART OF ALTERNATE. IF ALTERNATE IS NOT ACCEPTED AS PART OF THIS PROJECT, CAP AND MARK LOCATION OF PIPE FOR FUTURE USE. REFER TO CIVIL PLANS FOR LOCATION.



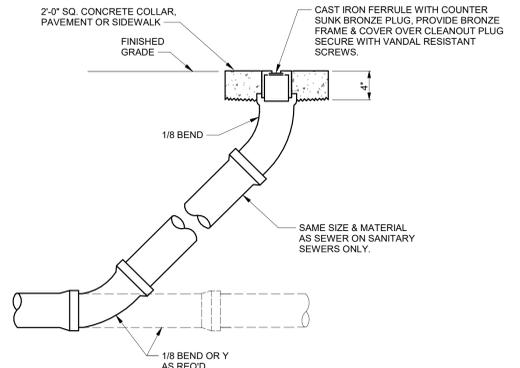
BACKFLOW PREVENTER AND THERMOSTATIC MIXING VALVE PIPING DETAIL
NO SCALE



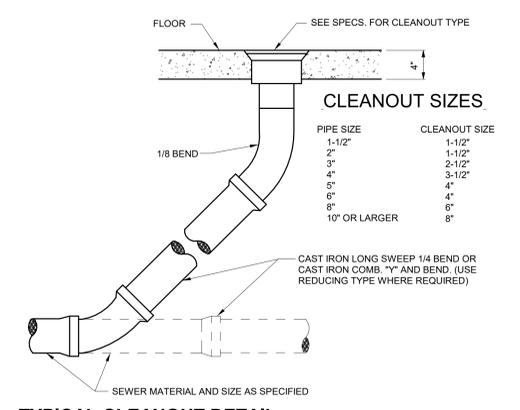
ELECTRIC WATER HEATER PIPING DETAIL
NO SCALE



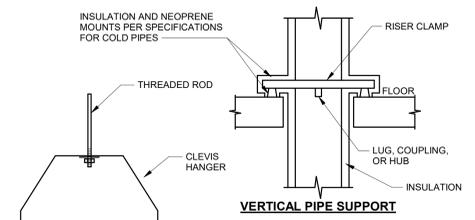
INGROUND CW MAIN SHUTOFF WITH DRAIN VALVE DETAIL
NO SCALE



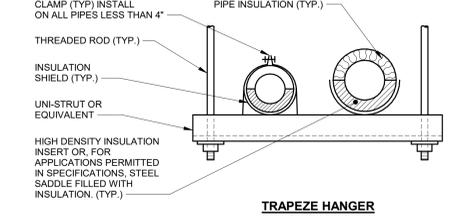
TYPICAL YARD CLEANOUT DETAIL
NO SCALE



TYPICAL CLEANOUT DETAIL
NO SCALE



VERTICAL PIPE SUPPORT



CLEVIS HANGER



PIPE SUPPORT DETAILS
NO SCALE

In association with:



Revisions:

#	Description	Date

Designed By: CLB
Drawn By: CLB
Checked By: RWS

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Sheet title:
PLUMBING PLANS AND DETAILS

Architect's Project No: 2402-146
Date: May, 2025

Drawing No: **P1.1**

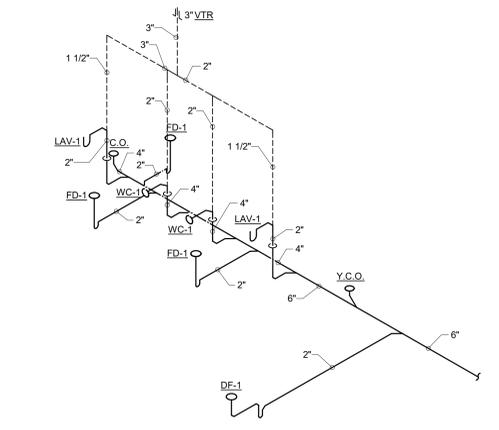
WATER HAMMER ARRESTOR SCHEDULE					
MARK	I.P.S.	F.U. RATING	J.R. SMITH	JOSAM	ZURN
A	1/2"	1 - 11	5055	75001	100

FIXTURE FINAL CONNECTION SCHEDULE							
FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	IPC 2006		REMARKS
					DFU	CW/FU HW/FU	
2" FLOOR DRAIN	-	-	2"	-	2	-	-
LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	1	1.5	1.5
WALL HYDRANT	3/4"	-	-	-	-	2.5	-
WATER CLOSET - FLUSH VALVE	1 1/2"	-	4"	2"	4	10	-

NOTES:
 1. SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINIMUM OF 2".
 2. SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.

MISCELLANEOUS EQUIPMENT SCHEDULE		
SYMBOL	DESCRIPTION	REMARKS
BFP-1	BACKFLOW PREVENTER - 1-1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER; PROVIDE WITH TWO SHUTOFF BALL VALVES, TEST COCKS, AND A "Y" STRAINER. MOUNT BACKFLOW PREVENTER AT 24" A.F.F. PROVIDE AIR GAP FITTINGS AND ROUTE DRAIN TO FLOOR DRAIN.	BASED ON WILKINS MODEL 975XLUS
EWHL-1	ELECTRIC WATER HEATER - 4 GALLON CAPACITY, 7 GPM RECOVERY AT 90° F RISE, 120V, 12 AMP, 1.44 KW. MOUNT THE WATER HEATER ON WALL SHELF AND PROVIDE ALL BRACKETS AND HARDWARE REQUIRED FOR A COMPLETE INSTALLATION. SET THE WATER HEATER FOR 140° F.	BASED ON AO SMITH MODEL EPU-4
TMV-1	THERMOSTATIC MIXING VALVE - 7 GPM @ 5 PSI PRESSURE DROP, MEETS ASSE 1017, SET AT 110° F. DIAL THERMOMETER ON DISCHARGE, SHUTOFF VALVES. SECURE TO WALL NEXT TO EWHL-1, 1/2" INLETS, 1/2" OUTLET.	BASED ON LEONARD MODEL TA-LF-F
TXT-1	THERMAL EXPANSION TANK - NON-ASME REPLACEABLE BLADDER TYPE, PRECHARGED, 150 PSI MAXIMUM DESIGN PRESSURE, 3/4" STAINLESS STEEL SYSTEM CONNECTION, STANDARD TIRE VALVE CHARGING CONNECTION, 2.1 GALLON ACCEPTABLE VOLUME, SET TANK PRESSURE TO 50 PSI.	BASED ON WESSELS MODEL 5TX

PLUMBING MATERIAL LIST	
THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.	
CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.	
CO	DESCRIPTION: FLOOR CLEANOUT - CAST IRON THREADED ADJUSTABLE HOUSING, FLANGED FERRULE WITH PLUG AND ROUND SECURED NICKEL BRONZE SCORiated TOP. MANUFACTURER & CATALOG NO.: ZURN Z-1400, SMITH 4000, WADE 6000, JOSAM 56000, WATTS CO-200, MIFAB CT100
DF-1	DESCRIPTION: DRINKING FOUNTAIN - OUTDOOR, GROUND MOUNT, FULLY EXPOSED FREEZE-RESISTANT, BARRIER-FREE ACCESSIBLE DRINKING FOUNTAIN WITH BOTTLE FILLER, BLEVEL REGISTAL WITH PET FOUNTAIN, VANDAL RESISTANT BUBBLER, ONE-PIECE CONSTRUCTION, HEAVY DUTY STEEL POWDER COATED CONSTRUCTION. PROVIDE A DIRECT BURY 4400 FOUNTAIN ADAPTER, BURY DEPTH 24". PROVIDE WITH SUPPLY STOP AND DRAIN VALVE FOR WINTERIZING. PROVIDE WASTE P-TRAP. INSTALL PER MANUFACTURER RECOMMENDATION. COLOR AS SELECTED BY ARCHITECT. MANUFACTURER & CATALOG NO.: ELKAY LK4420BF1UDBFRK
FD-1	DESCRIPTION: FLOOR DRAIN - 6" DIAMETER NICKEL BRONZE ADJUSTABLE TOP, CAST IRON BODY, 3" OUTLET AND FLASHING COLLAR, DEEP SEAL P-TRAP AND TRAP PRIMER CONNECTION. MANUFACTURER & CATALOG NO.: ZURN Z-415, SMITH 2005, WADE 1100, JOSAM 30000, WATTS FD-100, MIFAB F1100
LAV-1	DESCRIPTION: LAVATORY - WALL MOUNTED, WHITE VITREOUS CHINA, 4" HIGH CONTOURED BACKSPASH, 20" X 18" FAUCET HOLES ON 4" CENTERS, 1/4" 17 GAUGE CAST BRASS "P" TRAP WITH CLEANOUT AND ESCUTCHEON. PROVIDE FLOOR MOUNTED LAVATORY CARRIER, MOUNT 34" FLOOR TO RIM. MANUFACTURER & CATALOG NO.: AMERICAN STANDARD 0355.012, CRANE, ELIJER, KOHLER DESCRIPTION: LAVATORY TRIM - MANUAL METERING FAUCET WITH 0.5 GPM AERATOR AND OPEN GRID STRAINER W/NO LIFT ROD. LOOSE KEY STOP VALVES WITH COMPRESSION FITTINGS AND WATER SUPPLIES AND RISERS; TRUEBRO HANDLAV GUARD INSULATION KIT. MANUFACTURER & CATALOG NO.: AMERICAN STANDARD 1340.227
WC-1	DESCRIPTION: ACCESSIBLE WATER CLOSET - WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" BACK SPUD. FURNISH WITH ZURN FLOOR MOUNTED COMBINATION CARRIER FITTING SUPPORT. MOUNT 17" FLOOR TO RIM. MANUFACTURER & CATALOG NO.: AMERICAN STANDARD "AFWALL" 3553101.020, CRANE, KOHLER, ELIJER DESCRIPTION: SEAT - WHITE EXTRA HEAVY OPEN FRONT INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC SELF-SUSTAINING SEAT WITH CHECK HINGE AND STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. MANUFACTURER & CATALOG NO.: BEMIS 3155C, CHURCH 3155C, BENEKE 533PC, OLSONITE 95CCAM DESCRIPTION: FLUSH VALVE - REAR SPUD, SINGLE FLUSH, CONCEALED, MANUAL SPECIALTY HYDRAULIC, CHEMICAL RESISTANT MATERIAL, VACUUM BREAKER, WALL AND SPUD FLANGES. 1.6 GALLONS PER FLUSH, 3 YEAR WARRANTY. CONTRACTOR TO VERIFY EQUIPMENT REQUIREMENTS, MANUFACTURER RECOMMENDATIONS AND ROUGH-IN LOCATIONS. MANUFACTURER & CATALOG NO.: SLOAN ROYAL 952-1.6
WH-1	DESCRIPTION: WALL HYDRANT - FREEZELESS WALL HYDRANT, VACUUM BREAKER, 3/4" MALE HOSE THREAD, BRASS VALVE BODY AND SEAT, STAINLESS STEEL STEM, CHROME FINISH DOOR AND BOX. FURNISH TWO TEE KEY OPERATORS FOR LOCKABLE DOOR. ASSE 1011 APPROVED AND LISTED. MOUNT AT 18" ABOVE GRADE. MANUFACTURER & CATALOG NO.: WOODFORD 865, ZURN
YH-1	DESCRIPTION: YARD HYDRANT - FREEZELESS MODULAR BOX YARD HYDRANT, HINGED TAMPER-PROOF KEYED ACCESS DOOR, INTEGRAL BACKFLOW PREVENTER, VACUUM BREAKER, 3/4" MALE HOSE THREAD, BRASS VALVE BODY AND SEAT, BRASS DOOR AND FASCIA COMPOSITE BOX. FURNISH TWO TEE KEY OPERATORS. ASSE 1052 APPROVED AND LISTED. BURY DEPTH PER MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER & CATALOG NO.: WOODFORD Y95



SANITARY RISER DIAGRAM
NO SCALE

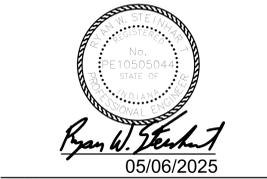
GARVIN PARK ACTIVITY ZONE



GARVIN PARK
45 DON MATTINGLY WAY,
EVANSVILLE, IN 47711



In association with:



Revisions:		
#	Description	Date

Designed By: CLB
 Drawn By: CLB
 Checked By: RWS

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Sheet title:
PLUMBING SCHEDULES

Architect's Project No: 2402-146
 Date: May, 2025

Drawing No: **P2.1**



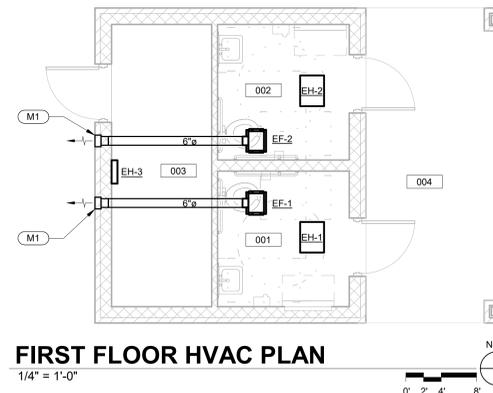
GARVIN PARK
45 DON MATTINGLY WAY,
EVANSVILLE, IN 47711

GENERAL NOTES:

- A. THE HVAC DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT. DUCTWORK AND PIPING. CONTRACTOR SHALL MAKE MODIFICATIONS IN THE INSTALLATION SO ALL EQUIPMENT AND MATERIALS FIT PROPERLY AND CAN BE SERVICED. COORDINATE ALL WORK WITH OTHER TRADES.
- B. COORDINATE DUCTWORK WITH LIGHT FIXTURE SUPPORTS, CONDUIT, PLUMBING, FIRE PROTECTION PIPING AND OTHER TRADES.
- C. SEAL AROUND ALL PENETRATIONS.
- D. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, AND STANDARDS:
INDIANA BUILDING CODE
INDIANA MECHANICAL CODE
INDIANA PLUMBING CODE
SMACNA HVAC DUCT CONSTRUCTION STANDARDS
OSHA
- E. ROUTE DUCTWORK AS SHOWN ON PLAN. FIELD VERIFY ROUTING, AND CLEARANCES. PREFABRICATE AS MUCH DUCT AS POSSIBLE. ALLOW FOR FIELD TRIM AND ADJUSTMENTS. COORDINATE ANY CONFLICTS WITH ARCHITECT PRIOR TO INSTALLATION.
- F. REFERENCE REFLECTED CEILING PLAN FOR TYPES AND HEIGHTS OF CEILING.

PLAN NOTES:

- M1 PROVIDE GREENHECK MODEL BVE EXTRUDED ALUMINUM BRICK VENT OR EQUIVALENT. MATCH SIZE TO DUCT. COLOR BY ARCHITECT.



FIRST FLOOR HVAC PLAN

1/4" = 1'-0"



MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	REMARKS
EH-1 EH-2	CEILING ELECTRIC HEATER - 3.0KW, 10,200 BTU'S, 240V / 1 PH, 12.5A, TEMP. RISE 54°F. PROVIDE MOUNTING FLANGE FOR CYRBOARD CEILING, FACTORY UNIT MOUNTED DISCONNECT AND LINE VOLTAGE UNIT MOUNTED TAMPER RESISTANT THERMOSTAT.	BASED ON MARKEL MODEL HF3385D-RP
EH-3	ELECTRIC HEATER - HEAVY DUTY WALL HEATER, FAN FORCED, SURFACE MOUNTING, BUILT-IN THERMOSTAT AND DISCONNECT, 240 V / 1 PH, 16.7 A, 3 KW.	BASED ON MARKEL MODEL 3450

FAN SCHEDULE

SYMBOL	SERVICE	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN. W.C.)	FRPM (NOTE 1)	BHP (NOTE 2)	MHP (NOTE 2)	VOLT-PHASE	DISCONNECT		BACKDRAFT DAMPER	DRIVE	SOUND POWER LEVELS (SONES)	MANUFACTURER	MODEL	REMARKS
								BY (NOTE 3)	TYPE (NOTE 4)						
EF-1,EF-2	RESTROOMS	75	0.15	900	0.01	16 WATTS	115 / 1	MFR	NF	GRAVITY	DIRECT	0.3	GREENHECK	SP-A90	5.6

NOTES:

- FANS MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
- NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAMEPLATE RATING.
- DISCONNECT BY:
MFR = FURNISHED AND INSTALLED BY MANUFACTURER.
EC = FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- DISCONNECT TYPE:
F = FUSED
NF = NON-FUSED
- PROVIDE A BRICK VENT W/ INSECT SCREEN, RIS ISOLATORS AND SPEED CONTROLLER MOUNTED ON WALL IN ROOM 003.
- E.C. SHALL WIRE INTO LIGHTING CIRCUIT.

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In association with:



Ryan W. Steinhilber
05/06/2025

Revisions:

#	Description	Date

Designed By: **CLB** Drawn By: **CLB** Checked By: **RWS**

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Sheet title:

HVAC PLAN AND SCHEDULES

Architect's Project No: **2402-146** Date: **May, 2025**

Drawing No: **M1.1**