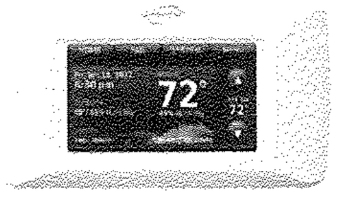
CTK03 ComfortNet™

Prestige Communicating Control for Residential and Light Commercial Applications

The ComfortNet™ brand touch-screen digital control works with both the Amana® brand and Goodman® brand ComfortNet-ready heating and cooling systems.



Standard Features
- Advanced modulation control
- Heat pump balance point
- Auxiliary heat lock-out
- Continuous fan speed (high, medium low)
- Full color display
- Commercial / residential selection option
- On-board dehumidification capability
- Humidification control
- Humidifier type selection
- Wireless humidification option
- Window frost / condensation protection
- Southern dehumidification control
- Multiple commercial dehumidification options
- Indoor temperature averaging
- Device naming option
- Outdoor temperature display
- Outdoor humidity display (with RedLink)
- Wireless accessory capability
- Multi-lingual (English, French, Spanish)
- Air filter maintenance reminder
- UV lamp maintenance reminder
- Humidifier pad maintenance reminder
- Electronic air cleaner maintenance reminder
- Continuous backlight
- Adjustable backlight & contrast
- Temperature display adjustment
- Humidity display adjustment
- Temperature display °F or °C
- Max heat & min. cool set point temps
- Max / min temperature / humidity alerts

Programming
- User interaction log (historical)
- Advanced staging control
- Heat and cool cycle rate adjustable
- Energy management recovery
- Internet access
- Home-screen theme options
- Customizable home screen
- Keypad lock-out options
- Auto-display dimming option
- Dealer information capability
- USB upload dealer information & set-up

Specifications

	DSZC16 0241A	DSZC16 0361A	DSZC16 0481A	DSZC16 0601B
Capacities and Ratings				
Nominal Cooling (BTU/h)	24,000	36,000	48,000	60,000
Nominal Heating (BTU/h)	24,000	36,000	48,000	60,000
Decibels	72	73	74	75
Compressor				
RLA	11.7	15.3	21.2	28.8
LRA	58.3	83.0	104.0	152.9
Condenser Fan Motor				
Horsepower	1/6	1/6	1/6	1/6
FLA	1.2	1.2	1.2	1.2
Refrigeration System				
Refrigerant Line Size[1]				
Liquid Line Size ("O.D.)	⅜"	⅜"	⅜"	⅜"
Suction Line Size ("O.D.)	¾"	⅞"	1⅛"	1⅛"
Refrigerant Connection Size				
Liquid Valve Size ("O.D.)	⅜"	⅜"	⅜"	⅜"
Suction Valve Size ("O.D.)	¾"	⅞"	⅞"	⅞"
Valve Connection Type	Sweat	Sweat	Sweat	Sweat
Refrigerant Charge	153	203	263	273
Shipped with Orifice Size	NA	NA	NA	NA
Electrical Data				
Volts -Hz	208/230-60	208/230-60	208/230-60	208/230-60
Minimum Circuit Ampacity[2]	15.8	20.3	27.7	37.2
Max. Overcurrent Protection[3]	25	35	45	60
Min / Max Volts	197/253	197/253	197/253	197/253
Power Supply Conduit Size	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"
Equipment Weight	217	224	288	288
Ship Weight (lbs)	235	246	310	310

[1] Tested and rated in accordance with AHRI Standard 210/240
[2] Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes
[3] Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

Notes
- Always check the rating plate for electrical data on the unit being installed.
- Installer will need to supply ¾" to 1⅛" adapters for suction line connections.
- Unit is charged with refrigerant for 15' of ⅜" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL.

Specifications

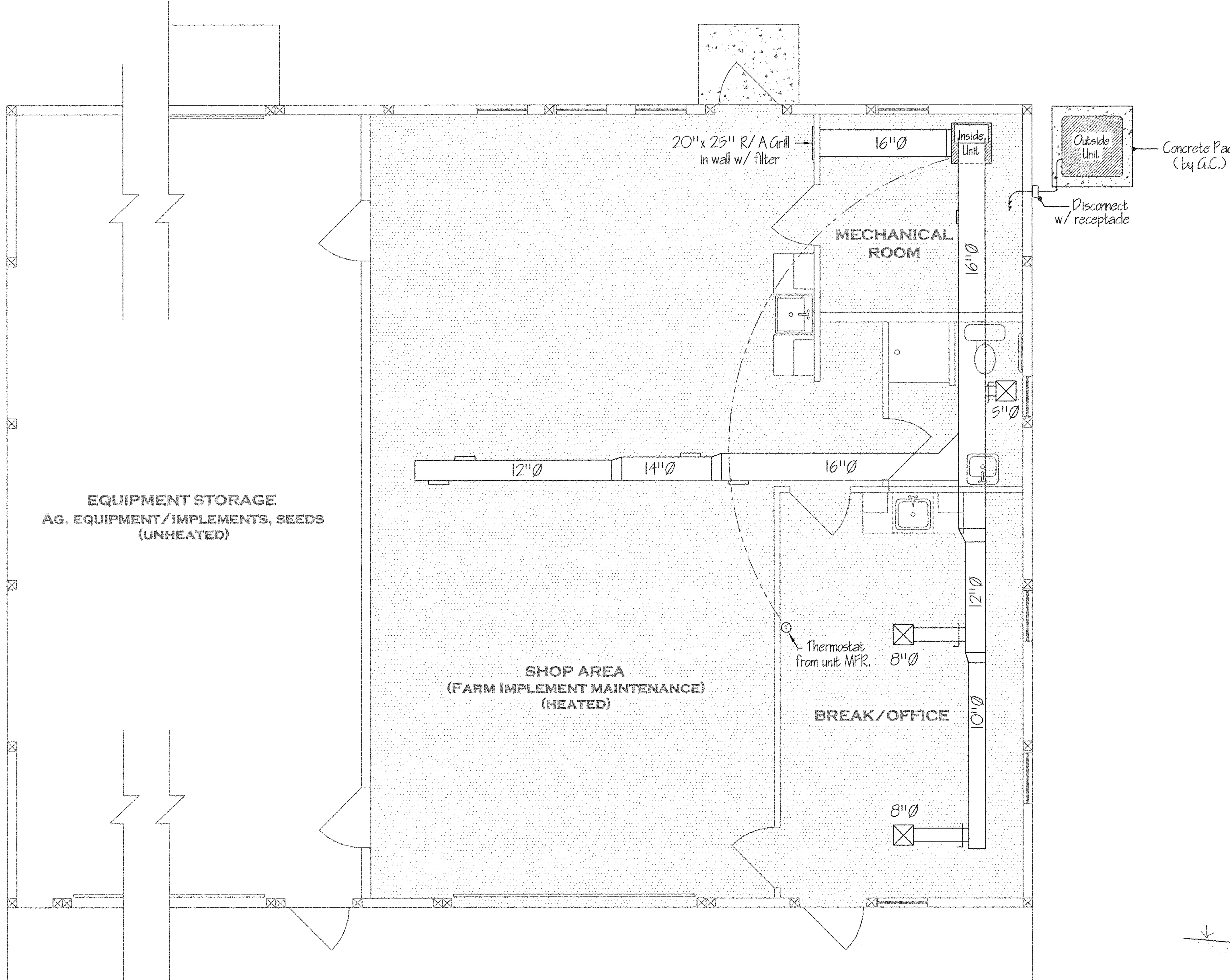
	AVPTC 183014	AVPTC 313714	AVPTC 426014
Nominal Ratings			
Cooling (BTU/h)	18,000-30,000	30,000-36-000	42,000-60,000
CFM (High/ Low)	1,200/ 600	1,200/ 600	1,800/ 1,200
Blower			
Diameter	9½"	10⅝"	10⅝"
Width	8"	10⅝"	10⅝"
Coil Drain Connection FPT	¾"	¾"	¾"
Service Valve			
Liquid	⅜"	⅜"	⅜"
Suction	¾"	⅞"	⅞"
Electrical Data			
Voltage	208/240	208/240	208/240
Electric Heat Capacity (kW)	3, 5, 8, 10	3, 5, 6, 8, 10, 15	3, 5, 6, 8, 10, 15, 20
Min Circuit Ampacity	4.9/4.9	6.5/6.5	8.6/8.6
Max. Overcurrent Device (amps)	15/15	15/15	15/15
Minimum VAC	197	197	197
Maximum VAC	253	253	253
Blower Motor			
FLA	3.9	5.2	6.9
HP	½	¾	1
Ship Weight (lbs)	127	178	197

NOTE:

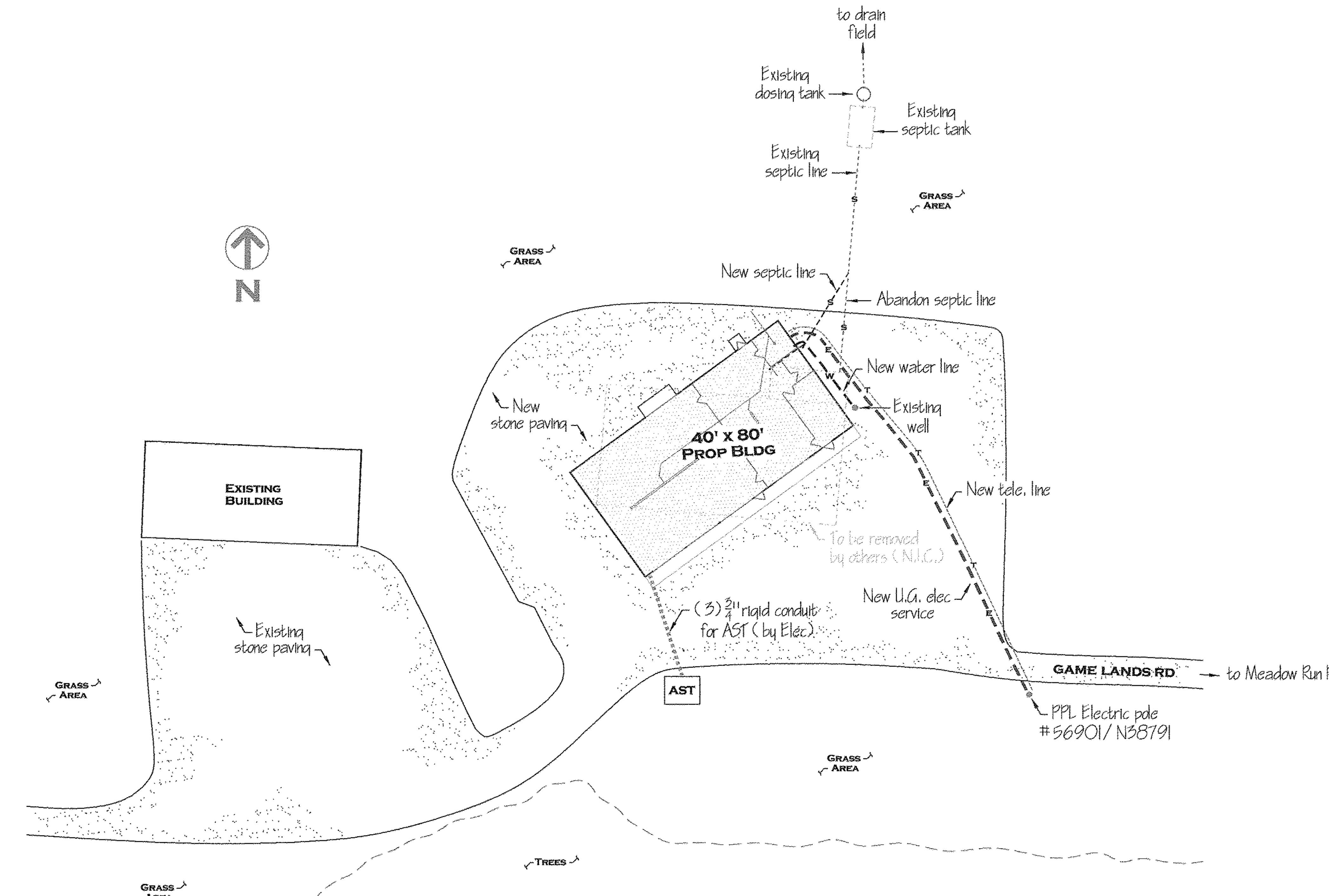
LAYOUT OF DUCTS, DUCT SIZES AND DIFFUSERS ARE MEANT TO BE USED AS A GUIDELINE.
ACTUAL RUNS, SIZES AND LOCATIONS TO BE DETERMINED BY MANUFACTURER'S MODEL.
THE FOLLOWING STEPS SHOULD BE FOLLOWED IN THE DESIGN AND INSTALLATION OF THE HVAC SYSTEM TO ENSURE EFFICIENCY AND COMFORT.

1. DETERMINE ROOM-BY-ROOM AND AIR-FLOWS USING ACCA MANUAL J CALCULATION PROCEDURES. (OR SUBSTANTIALLY EQUIVALENT)
2. SIZE DUCT SYSTEM ACCORDING TO ACCA MANUAL D CALCULATION PROCEDURES. (OR SUBSTANTIALLY EQUIVALENT)
3. SIZE HVAC EQUIPMENT TO SENSIBLE LOAD USING ACCA MANUAL S CALCULATION PROCEDURES (OR SUBSTANTIALLY EQUIVALENT).
4. INSTALL EQUIPMENT & DUCTS ACCORDING TO DESIGN SPECIFICATIONS USING INSTALLATION REQUIREMENTS AND PROCEDURES FROM SMACNA AND MANUFACTURERS" SPECIFICATIONS.
5. INSTALL SO STATIC AIR PRESSURE DROP ACROSS THE AIR HANDLER IS WITHIN MANUFACTURER AND DESIGN SPECIFICATIONS.
6. PROVIDE BALANCED AIR FLOWS BETWEEN SUPPLY AND RETURN SYSTEMS TO MAINTAIN NEUTRAL PRESSURE.
7. EQUIPMENT AND ASSOCIATED ITEMS MUST BE APPROVED BY PGC HARRISBURG ENGINEERING DIVISION BEFORE START OF INSTALLATION.

HEAT PUMP TO BE A GOODMAN 4 TON DSZC16 OUTSIDE CONDENSER WITH MATCHED INDOOR AIR HANDLER / COIL TO ACHIEVE A MINIMUM 16 SEER AND 9.5 HSPF (OR SUBSTANTIALLY EQUIVALENT).
OUTSIDE UNIT TO HAVE A TWO STAGE SCROLL COMPRESSOR AND MATCHED TO INSIDE UNIT W/ VARIABLE SPEED MOTOR TO PROVIDE OPTIMUM EFFICIENCY.



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

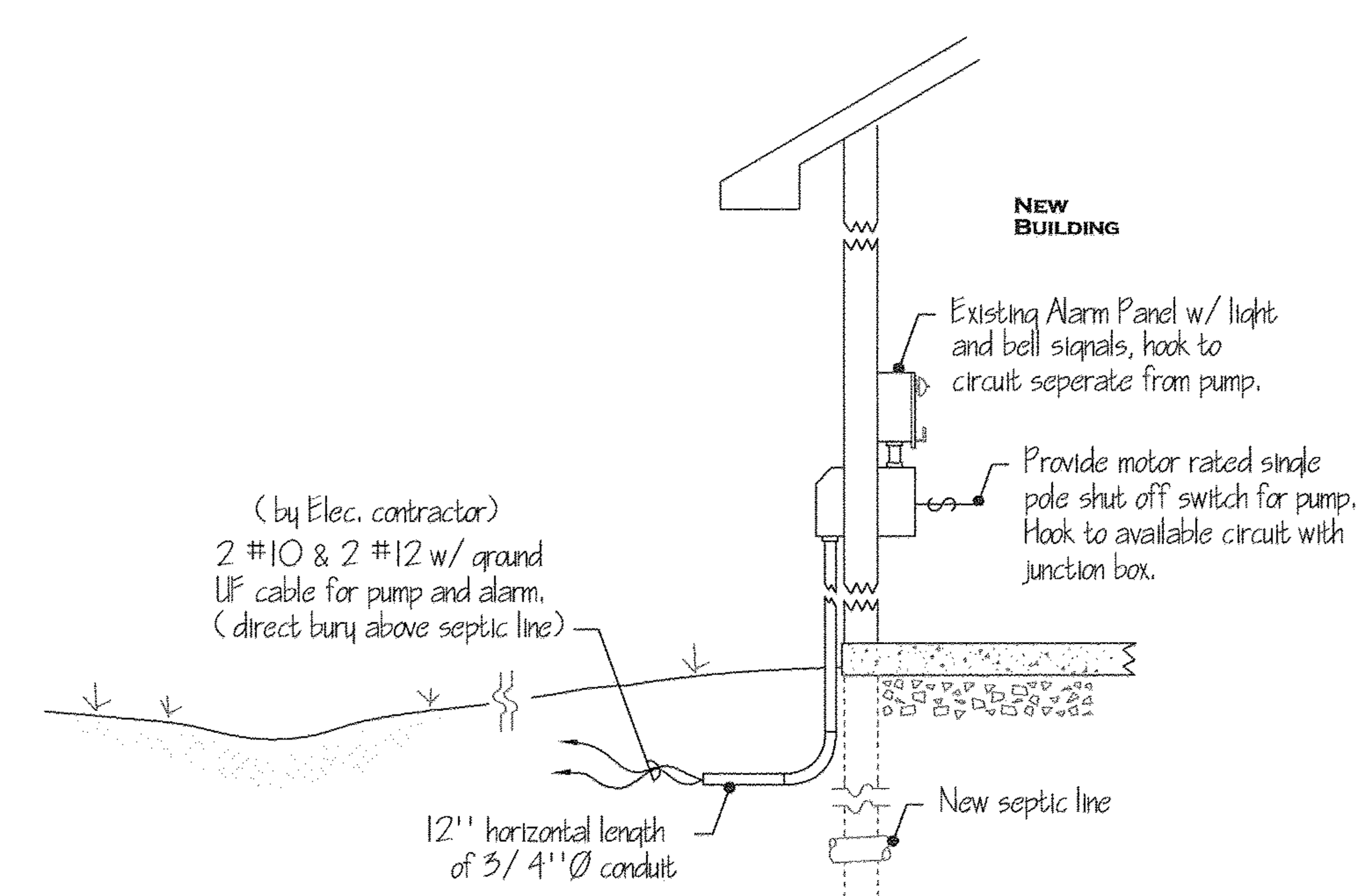


SITE PLAN
SCALE: 1" = 30'

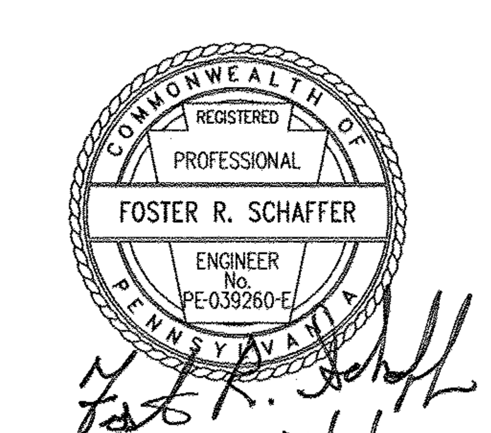
Approximate Distances from building to property line

North	340 ft.
South	6,266 ft.
East	230 ft.
West	7,770 ft.

Site located approximately 9.7 miles south of Dupont, PA 17042 in Bear Creek Twp., Luzerne County.



DOSING & ALARM PLAN
NO SCALE



PENNSYLVANIA GAME COMMISSION		
STATE GAME LANDS #091	BEAR CREEK TWP.	LUZERNE CO.
HVAC DETAILS and SITE PLAN		
REVISIONS	PROJECT NO.	PCC-091-18-2
	DRAWING NO.	091-HVAC-5
	DRAWN BY:	JBM
	DATE:	01-25-18
	SHEET NO.	5 OF 5