RHDC
RALEIGH HISTORIC
DEVELOPMENT COMMISSION

CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

516 N Blount St
Address

Blount Street
Historic District

Historic Property

COA-0055-2023
Certificate Number

5/1/2023
Date of Issue

11/1/2023
Expiration Date

Project Description:

Install mechanical equipment and pads; relocate electrical meter

This card must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.

Signature, Erin Morton

Raleigh Historic Development Commission

Pending the resolution of appeals, commencement of work is at your own risk.

Type or print the following:		
Applicant name: John Sibert- 2SL Design Build		
Mailing address: 210 E. Franklin Street		
City: Raleigh	State: NC	Zip code: 27604
Date: 04-28-2023	Daytime phone #: 9192917353	
Email address: johnc@2sldesignbuild.com		
Applicant signature: DocuSigned by: William Forbes 64A0CEC7A96B4D7... 023 DocuSigned by: Mary 4/27/2023 B68EE1B5F1D5457... DocuSigned by: John Sibert 4/27/2023 D4F9ABD319234A8...		

Minor work (staff review) – one copy

Major work (COA committee review) – ten copies

- Additions > 25% of building sq. footage
- New buildings
- Demolition of building or structure
- All other

Post approval re-review of conditions of approval

Office Use Only

Transaction #: _____

File #: COA-0055-2023

Fee: _____

Amount paid: _____

Received date: _____

Received by: _____

Property street address: 516 N Blount Street, Raleigh, NC 27604
Historic district: Blount Street District
Historic property/Landmark name (if applicable): NA
Owner name: William and Mary Forbes
Owner mailing address: 516 N Blount Street, Raleigh NC 27604

For applications that require review by the COA Committee (major work), provide addressed and stamped envelopes for owners for all properties with 100 feet on all sides of the property, as well as the property owner.

Property Owner Name & Address	Property Owner Name & Address
See attached IMAPS list	

I understand that all major work applications that require review by the Raleigh Historic Development Commission's COA Committee must be submitted by 4 p.m. on the date of the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Will you be applying for rehabilitation tax credits for this project? Yes No Did you consult with staff prior to filing the application? Yes No	Office Use Only Type of work: 50

Design Guidelines: please cite the applicable sections of the design guidelines (www.rhdc.org).		
Section/Page	Topic	Brief description of work (attach additional sheets as needed).
		See attached list of applicable sections.

Minor Work Approval (office use only)

Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until 11/01/2023.

Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.

Signature (City of Raleigh) Erin Martin Date 05/01/2023

516 N. Blount Street

The project is an interior renovation that requires a new HVAC system and relocating electric meter. We are proposing placing the HVAC on Driveway side behind the existing secondary entrance. We plan to relocate electric meter from basement entrance to right side of house. Please see attached site showing location and various required distances, also color and specs for HVAC system.

Please also see the attached submittals and color representation pic. for equipment that will be proposed for 516 N Blount St, Raleigh. Each unit will sit on a rectangular plastic pad 36" x 42", positioned perpendicular to the house wall. The pads will be 6" from the brick wall, and therefore extend away from the house to a point 48" from the wall (even with the 48" stoop for the side entry of the home). The front unit pad will start 10" from the back-facing edge of the stoop, and there must be a minimum of 14" between both pads. With that, the minimum total width for HVAC equipment along the wall is 8 ft. We must maintain at least 36" from the gas meter, which exists on that wall at the back corner.

For upstairs, I will be proposing a variable capacity, 18 seer2 4 ton heat pump system, conducive for dividing the upper level into 4 separate zones, complete with 4 thermostat controls.

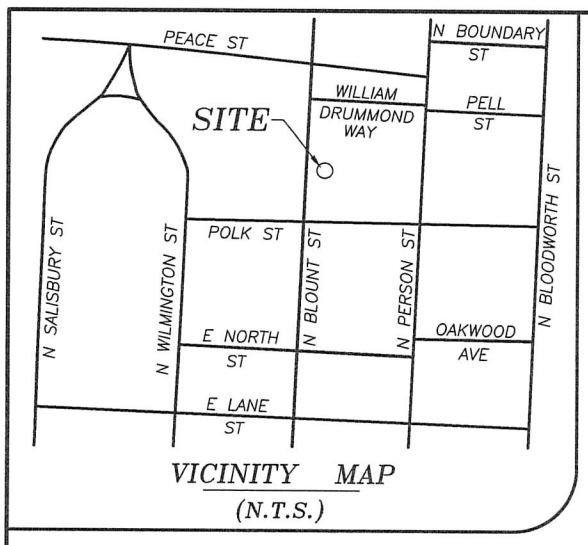
Downstairs will have a 4 ton 16 seer2 gas and ac system with two zones; main floor and basement. The gas furnace will have a 3" pvc flue pipe and 3" combustion air pipe that must penetrate the foundation wall on either side of the house. They can be combined into a single sidewall penetration using a concentric vent kit. This termination will need to be at least 4' from any openable window or door.

2 VEW -SIDE ENTRY-FROM SHARED DRIVEWAY(SOUTH)
Scale: N/A

1 VEW FROM SHARED DRIVEWAY(SOUTH)
Scale: N/A

2SL
DESIGN BUILD
COLLABORATIVE

210 East Franklin Street
Raleigh, NC 27604
Tel 919 833 1448
Fax 919 833 1252
Johns@2sldesignbuild.com



VICINITY MAP
(N.T.S.)

LEGEND

- EXISTING IRON PIPE
- NEW IRON PIPE
- NAIL FOUND
- COMPUTED CORNER
- POWER BOX
- TELE
- CATV
- LIGHT POLE
- UTILITY POLE
- FIRE HYDRANT
- FIREPLACE

NOTE:
THIS PROPERTY DOES NOT LIE WITHIN 2000' OF A N.C.G.S. MONUMENT.

THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND.

UTILITIES SHOWN ARE FOR REPRESENTATION ONLY AND NOT TO BE USED FOR PROPERTY LINE LOCATION

ALL CREEKS, EASEMENTS, BUFFERS, FLOOD LIMITS & SETBACKS TAKEN FROM BOM 2008, PG 312.

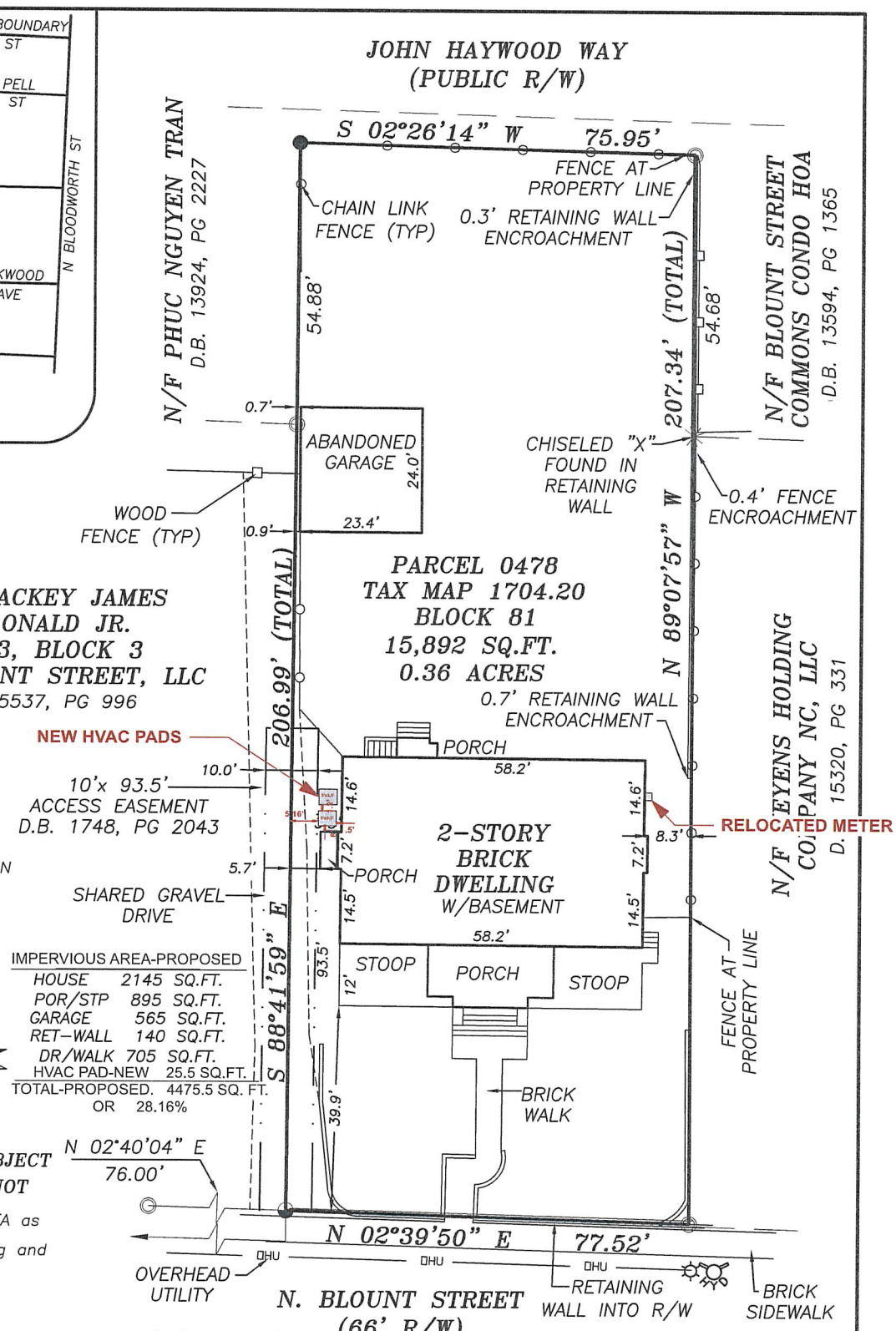
BOM 2008, PG 312

FLOOD CERTIFICATION

THIS WILL CERTIFY THAT THE SUBJECT PROPERTY ( ) IS or (X) IS NOT located in a SPECIAL FLOOD HAZARD AREA as determined by the Department of Housing and Urban Development, or as shown on the FLOOD INSURANCE RATE MAP.

370243	1704	K
COMMUNITY #	PANEL	SUFFIX

PROFESSIONAL LAND SURVEYOR



IMPERVIOUS AREA-PROPOSED	
HOUSE	2145 SQ.FT.
POR/STP	895 SQ.FT.
GARAGE	565 SQ.FT.
RET-WALL	140 SQ.FT.
DR/WALK	705 SQ.FT.
HVAC PAD-NEW	25.5 SQ.FT.
TOTAL-PROPOSED.	4475.5 SQ. FT.
OR	28.16%

SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 ft.

I, Jeffrey H. Davis, PLS, certify this map was drawn under my supervision from an actual survey made under my supervision; and that the error of closure as calculated by latitudes and departures is 1/ 10,000+; that the boundaries not surveyed are shown as broken lines plotted from information found in Book –; Page –; that this map was prepared in accordance with G.S. 47-30 amended.

Witness my original signature, registration number and seal this 17TH day of FEBRUARY 2023

Signed _____

Seal

NORTH CAROLINA PROFESSIONAL SEAL L-3463 LAND SURVEYOR JEFFREY H DAVIS

D.B. 19015 PAGE 763 WAKE CO. REG.

C.N. = 30130

WILLIAM PATRICK FORBES
MARY DIANE FORBES

PARCEL 0478
TAX MAP 1704.20, BLOCK 81
516 N. BLOUNT STREET
RALEIGH NORTH CAROLINA

DATE: 02-17-2023
SCALE: 1" = 30'
DWG. NO. A-25721

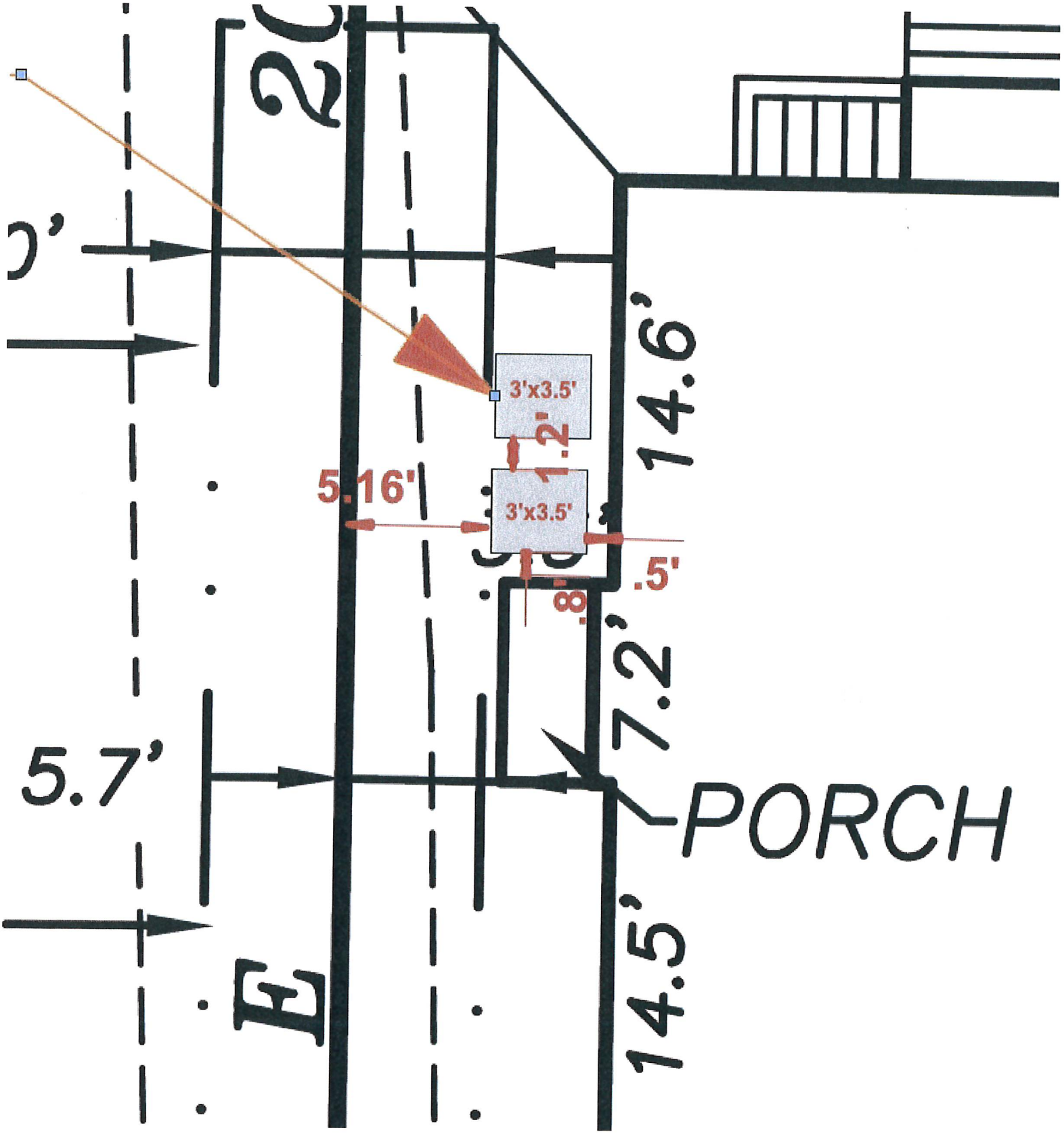
TURNING POINT SURVEYING PLLC
4113 JOHN S. RABOTEAU WYND
RALEIGH, NORTH CAROLINA 27612
FAX (800)948-0213 PH (919)781-0234
License No: P-0121

JOHN SIBERT REGISTERED ARCHITECT 7197 04-19-2023 NORTH CAROLINA RALEIGH, N.C.

ARCHITECT'S STAMP
210 East Franklin Street
Raleigh, NC 27604
Tel 919 833 1448
Fax 919 833 1252

1 SITE PLAN-SUPPLEMENTAL
Scale: 1" = 30'-0"
0 20 40 60 80 100 FT

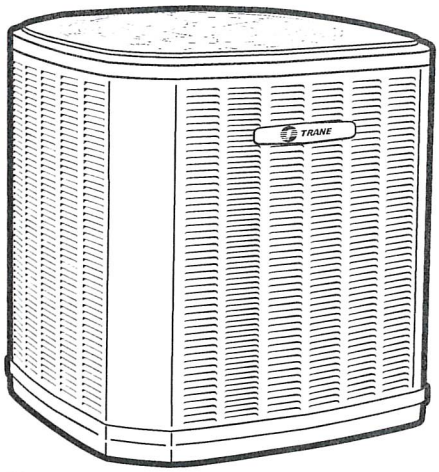
2SL DESIGN BUILD COLLABORATIVE


3'x3.5'
1.2'
5.16'
3'x3.5'
.5'
.8'
14.6'
7.2'
PORCH
14.5'
5.7'

Submittal

Split System Cooling

4TTR6048N1000A

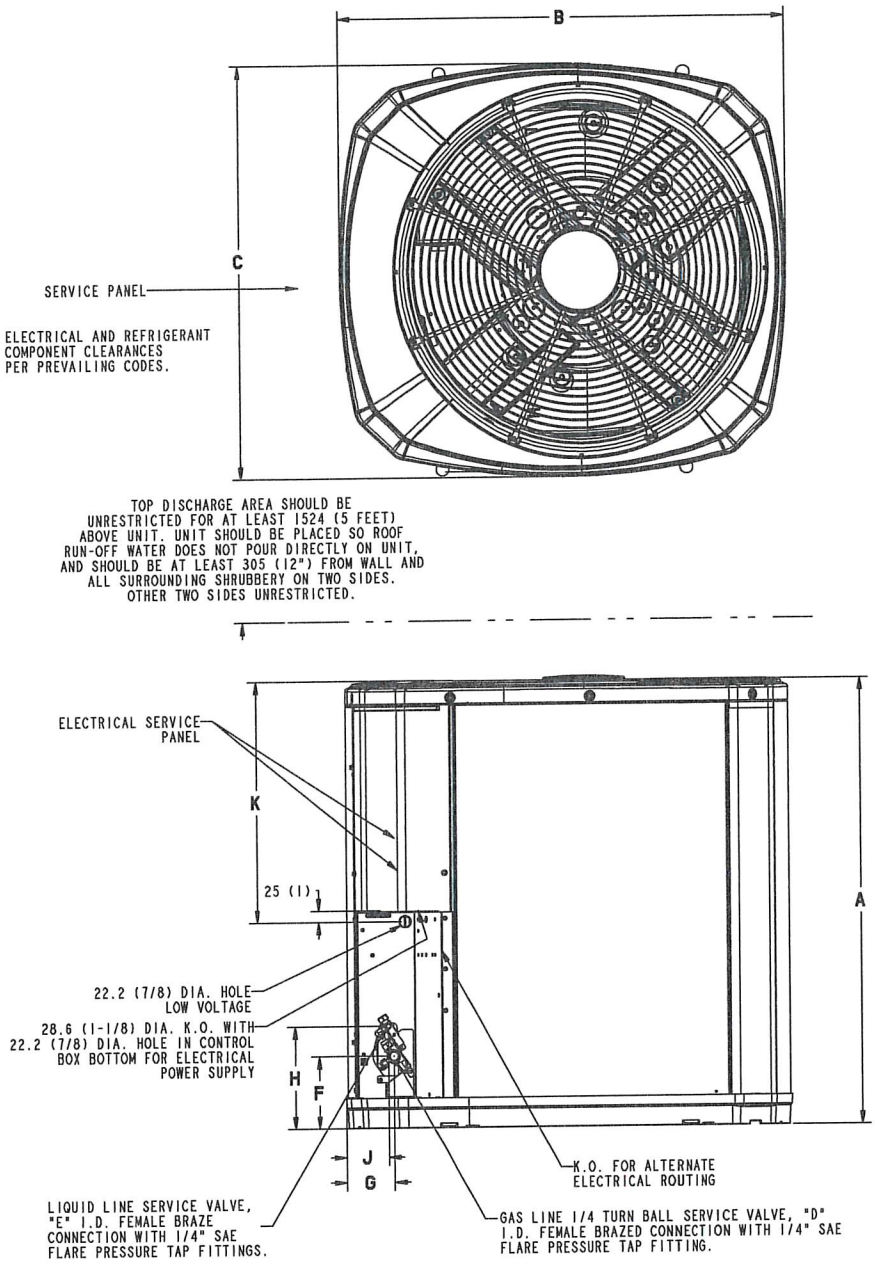


Note: *"Graphics in this document are for representation only. Actual model may differ in appearance."*

August 2022

4TTR6048N-SUB-1A-EN

TRANE TECHNOLOGIES



Model	Base	A	B	C	D	E	F	G	H	J	K
4TTR6048N	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)

Sound Power Level								
MODEL	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power(dB)						
		63 Hz*	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4TTR6048N	73	70	67	68	66	63	56	53	49
Note: Rated in accordance with AHRI Standard 270-2008 *For Reference Only									

TRANE

Product Specifications

OUTDOOR UNIT (a) (b)	4TTR6048N1000A
POWER CONNS. – V/PH/HZ (c)	208/230/1/60
MIN. BRCH. CIR. AMPACITY	28
BR. CIR. PROT. RTG. – MAX. (AMPS)	45
COMPRESSOR	CLIMATUFF® - SCROLL
NO. USED – NO. STAGES	1 – 2
VOLTS/PH/HZ	208/230/1/60
R.L. AMPS (d) – L.R. AMPS	20.4 – 122
FACTORY INSTALLED	
START COMPONENTS (e)	NO
INSULATION/SOUND BLANKET	NO
COMPRESSOR HEAT	NO
OUTDOOR FAN	PROPELLER
DIA. (IN.) – NO. USED	27.6 – 1
TYPE DRIVE – NO. SPEEDS	DIRECT – 1
CFM @ 0.0 IN. W.G. (f)	4400
NO. MOTORS – HP	1 – 1/3
MOTOR SPEED R.P.M.	200–1200
VOLTS/PH/HZ	208/230/1/60
F.L. AMPS	2.8
OUTDOOR COIL – TYPE	SPINE FIN™
ROWS – F.P.I.	1 – 24
FACE AREA (SQ. FT.)	30.79
TUBE SIZE (IN.)	3/8
REFRIGERANT	R-410A
LBS. – R-410A (O.D. UNIT) (g)	13 LBS., 3 OZ
FACTORY SUPPLIED	YES
LINE SIZE – IN. O.D. GAS (h)	7/8
LINE SIZE – IN. O.D. LIQ. (h)	3/8
CHARGING SPECIFICATIONS	
SUBCOOLING	10°F
DIMENSIONS	H X W X D
CRATED (IN.)	51 X 35.1 X 38.7
WEIGHT	
SHIPPING (LBS.)	296
NET (LBS.)	259

(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240. In order to achieve AHRI standard rating, the indoor fan time delay on the comfort control must be enabled.
(b) Rated in accordance with AHRI standard 270.
(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.
(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.
(e) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.
(f) Standard Air – Dry Coil – Outdoor
(g) This value approximate. For more precise value see unit nameplate.
(h) Max. linear length 60 ft.; Max. lift - Suction 25 ft.; Max lift - Liquid 25 ft. For greater length consult refrigerant piping software Pub. No. 32-3312-0* (* denotes latest revision).

Mechanical Specification Options

General

The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line, and the smallest rated indoor evaporative coil match. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint finish. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and low and high pressure switches. A factory supplied, field installed liquid line drier is standard.

Compressor

The compressor features internal over temperature and pressure protection. Other features include: Centrifugal oil pump and low vibration and noise.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this system has a cooling capacity to 55°F. The addition of an evaporator defrost control permits operation to 40°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

The addition of the BAYLOAM107A low ambient kit permits ambient cooling to 20°F.

Thermostats – Cooling only and heat/cooling (manual and automatic change over). Sub-base to match thermostat and locking thermostat cover.

TRANE

Trane - by Trane Technologies (NYSE: TT), a global innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane. com or tranetechnologies.com.

AHRI CERTIFIED®
www.ahridirectory.org
Unitary Small AC
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

c UL us
LISTED

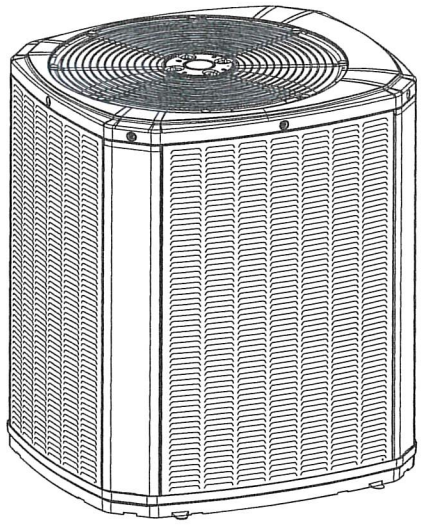
The AHRI Certified mark indicates Trane U.S. Inc. participation in the AHRI Certification program. For verification of individual certified products, go to ahridirectory.org.

Trane has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

4TTR6048N-SUB-1A-EN 05 Aug 2022
Supersedes (New)

Submittal

Variable Speed ComfortLink™ II Heat Pump 4TWV8048A1000B



April 2020

4TWV8048A-SUB-1D-EN

TRANE TECHNOLOGIES

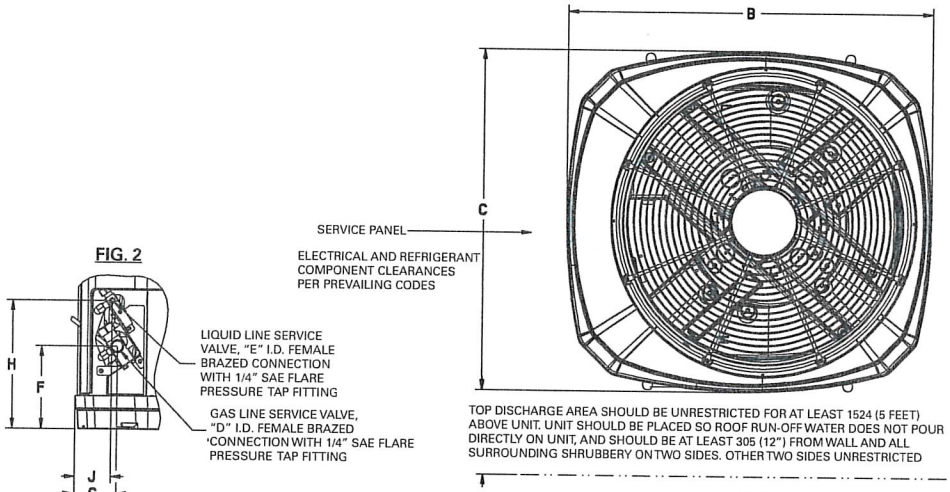
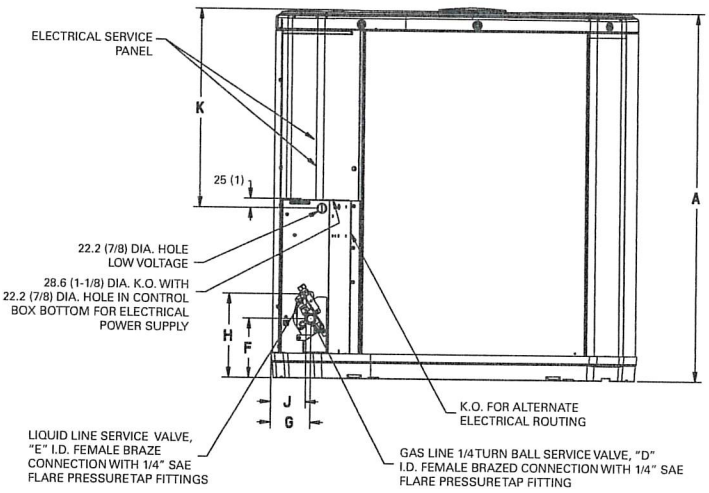


FIG. 2

From Dwg. D156010

FIG. 1



Model	Base	A	B	C	D	E	F	G	H	J	K
4TWV8048A	4	1045 (41-1/8)	946 (37-1/4)	870 (34-1/4)	22-7/8	10-3/8	127 (5)	76 (3)	197 (7-3/4)	57 (2-1/4)	813 (32)

SOUND POWER LEVEL

Model	Mode	Speed	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power [dB]							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4TWV8048A	Cool	Min	61	70.6	55.0	55.9	55.8	59.0	49.9	41.1	42.9
	Cool	Max	74	75.7	71.9	73.0	74.2	68.5	63.4	59.1	54.3
	Heat	Min	62	72.1	59.3	58.7	60.3	58.6	51.3	46.0	45.2
	Heat	Max	76	77.9	74.5	77.0	75.4	69.5	64.4	60.8	56.2

Note: Rated in accordance with AHRI Standard 270-2008

OUTDOOR UNIT [a] [b]	4TWV8048A1000B
POWER CONNS. — V/PH/HZ [c]	208/230/1/60
MIN. BRCH. CIR. AMPACITY	28.0
BR. CIR. PROT. RTG. — MAX. (AMPS)	40
COMPRESSOR	SCROLL
NO. USED — NO. SPEEDS	1–VARIABLE
R.L. AMPS [d] — L.R. AMPS	20.3 — 12.0
FACTORY INSTALLED	
START COMPONENTS [e]	NA
INSULATION/SOUND BLANKET	YES
COMPRESSOR HEAT	YES
OUTDOOR FAN	
DIA. (IN.) — NO. USED	27.5 — 1
TYPE DRIVE — NO. SPEEDS	DIRECT — VARIABLE
CFM @ 0.0 IN. W.G. [f]	4467
NO. MOTORS — HP	1 — 1/3
MOTOR SPEED R.P.M.	200 — 1200
VOLTS/PH/HZ	208/230/1/60
F.L. AMPS	2.8
OUTDOOR COIL — TYPE	SPINE FIN™
ROWS — F.P.I.	1 - 24
FACE AREA (SQ. FT.)	27.87
TUBE SIZE (IN.)	3/8
REFRIGERANT	R410–A
LBS. — R-410A (O.D. UNIT) [g]	10 lb — 8 oz
FACTORY SUPPLIED	YES
LINE SIZE — IN. O.D. GAS [h]	7/8
LINE SIZE — IN. O.D. LIQ. [h]	3/8
CHARGING SPECIFICATIONS	
SUBCOOLING	10°
DIMENSIONS	H X W X D
CRATED (IN.)	46.4 x 35.1 x 38.7
WEIGHT	
SHIPPING (LBS.)	259
NET (LBS.)	234

(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.
(b) Rated in accordance with AHRI standard 270.
(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.
(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.
(e) NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.
(f) Standard Air — Dry Coil — Outdoor
(g) This value approximate. For more precise value see unit nameplate.
(h) Max. linear length 150 ft.; Max. lift — Suction 50 ft.; Max. lift — Liquid 50 ft.

Mechanical Specification Options

General

This unit is designed to operate at outdoor ambient temperatures from 55° F to 120° F in cooling. From — 10° F to 66° F in heating (heat pumps only). Only AHRI approved indoor matches are approved for use with these models.

ComfortLink™ II

This outdoor unit contains the ComfortLink™ II digital communication with 2 wire connection to outdoor and Plug-n-Play set up.

Casing

Unit casing is constructed of heavy gauge. G60 galvanized steel and painted with a weather-resistant powder paint on all louvered panels and prepaint on all other panels. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high and low pressure switches. A factory supplied, field installed filter is standard.

Compressor

Inverter driven scroll compressor with 25 to 100% output capacity on heat pumps and 30 to 100% output capacity on air conditioners. Noise enclosure minimizes sound levels and built in compressor protection protects compressor will reduce operating speed and current draw to maintain operation while protecting the compressor.

Condenser Coil

The Spine Fin™ outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this system has built in freeze protection that will allow cooling operation below 55°F but will reduce capacity or shut down completely to prevent operation under adverse conditions.

Comfort Control

The 1050/950/850 Control is required and provides Plug-n-Play setup and 3 wire connection.

TRANE

Trane - by Trane Technologies (NYSE: TT), a global innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane. com or tranetechnologies.com.

AHRI CERTIFIED®
www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI

c UL us LISTED

The AHRI Certified mark indicates Trane U.S. Inc. participation in the AHRI Certification program. For verification of individual certified products, go to ahridirectory.org.

Trane has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

4TWV8048A-SUB-1D-EN 10 Apr 2020
Supersedes 4TWV8048A-SUB-1C-EN (January 2020)