

BID: # 5-1819

**TOWN OF GUILFORD POLICE DEPARTMENT
INSTALLATION OF AIR CONDITIONING IN GUILFORD POLICE DEPARTMENT**

SCOPE OF WORK

PROJECT DESCRIPTION:

This project is for the installation of air conditioning (cooling) equipment through the use of existing air handler equipment. Three (3) DX Cooling Coils and three (3) DX Condensing Units will be removed and replaced with equipment specified below in the existing locations. The three (3) DX Cooling Coils to be retrofit are tagged CC-AHU2, CC-AHU3, and CC-AHU4. The three (3) DX Condensing Units to be retrofit are tagged CU-2, CU-3, and CU-4. The installation will include all necessary piping, electrical wiring and control wiring for the units specified within at the Guilford Police Department.

1. The contractor will install the following specified Trane DX Cooling Coils:

Tag Data - Cooling Coils (Qty: 3)

Item	Tag(s)	Qty	Description	Model Number
A1	CC-AHU-2	1	25 Ton DX-Coil for Size 17 MCCA	DUFB37065G
A2	CC-AHU-3	1	12.5 Ton DX-Coil for Size 06 MCCA	DUFB23036G
A3	CC-AHU-4	1	7.5 Ton DX-Coil for Size 06 MCCA	DUFB23036G

Product Data - Cooling Coils

All Units

UF coil 1/2" DX delta-flo
Unit height coil
Packed elbows
Cooling unit with drain holes
Coil for use in MCC unit (MCCA)
Horizontal coil
Medium coil module
Right hand supply
Galvanized steel casing (Std)
Aluminum fins
Internally enhanced Cu .016 (0.406)
AHRI ACHC Certified
R-410A
Half Circuiting
1st Year Labor Warranty Whole Unit

Item: A1 Qty: 1 Tag(s): CC-AHU-2

Size 17
6 rows
37" (940 mm) coil height
65" (1651 mm) finned length
Delta flo E (energy efficient)
77 fins per foot nominal fin spacing
Intertwined circuits
1/4" (6mm) Diameter Distributor Tubes

Item: A2 Qty: 1 Tag(s): CC-AHU-3

Size 06
6 rows
23" (584 mm) coil height
36" (914 mm) finned length

Delta flo E (energy efficient)
 81 fins per foot nominal fin spacing
 Intertwined circuits
 3/16" (5mm) Diameter Distributor Tubes

Item: A3 Qty: 1 Tag(s): CC-AHU-4

Size 06
 4 rows
 23" (584 mm) coil height
 36" (914 mm) finned length
 Delta flo H (Hi efficient)
 110 fins per foot nominal fin spacing
 Standard circuits
 3/16" (5mm) Diameter Distributor Tubes

2. The contractor will install the following specified Trane DX Compressors:

Tag Data - Air-Cooled Condensing Units (Commercial) (Qty: 1)

Item	Tag(s)	Qty	Description	Model Number
A1	CU-2	1	25 Ton Cond, Dual Manifold Comp, 208/3	RAUJC25EB

Product Data - Air-Cooled Condensing Units (Commercial)

Item: A1 Qty: 1 Tag(s): CU-2
 Condenser: Air-cooled
 R-410A refrigerant
 25 ton unit
 200 Volt 60 Hertz 3 Phase
 No controls (Terminal strip for use with field installed controls)
 Low ambient damper(s) control
 cULus approval
 Non-fused disconnect switch
 Suction service valve
 2nd-5th Year replacement compressor warranty (Parts only, No Labor)
 1st Year Labor warranty whole unit

Tag Data - Split System Air Conditioning Units (Large) (Qty: 2)

Item	Tag(s)	Qty	Description	Model Number
B1	CU-3	1	12.5 Ton Cond Unit, Dual Circuit, 208/3	TTA15043DAB
B2	CU-4	1	7.5 Ton Cond Unit, Single Circuit, 208/3	TTA09043AAB

Product Data - Split System Air Conditioning Units (Large)

All Units

Cooling (TTA)
 R-410A Refrigerant
 208-230/60/3
 Electromechanical control (Terminal strip for use with field installed controls)
 1st Year Labor Warranty Whole Unit

Item: B1 Qty: 1 Tag(s): CU-3

12.5 Tons
 Dual Compressors / Dual Circuit
 2 Low Ambient Modulating (ICM) (Fld)
 Pressure Transducer for ICM (Fld)

Item: B2 Qty: 1 Tag(s): CU-4

7.5 Tons
 Single Compressor / Single Circuit

3. It is the responsibility of all bidders to verify necessary cooling capacity required and square footage of the area, as the contractor will ultimately be responsible for the system performance for the area.
4. The installing contractor is responsible for refrigerant specialties per the manufacturer's recommendations (I.E. pipe size, sight glasses, filter driers, expansion valves etc.)
5. The installing contractor is responsible for validating that refrigeration piping associated with three AHU's, DX Condenser, and DX Cooling Coils, can be reused or not with the new conditions. If being reused all refrigeration piping must be adequately tested and prepared for use with R-410A (I.E. pressure testing, flushing etc.). **Whether reusing existing piping or replacing refrigeration piping** the contractor must provide piping in accordance with the manufactures guidelines in the supporting documents "RAUJ Piping Guide" and "TTA Piping Guide"
6. Provide 2-year warranty on all reused refrigeration piping.
7. Suction line insulation must be rated for outdoor use and to the newest code.
8. Replace all disconnects with new.
9. Contractor shall provide and install non-metallic enclosure to cover and protect all refrigerant and electrical lines for all exterior work to compressors.
10. Contractor is responsible to fill all penetrations in exterior walls, interior smoke walls and into utility closets in order to maintain fire and smoke wall integrity, utilizing approved sealants.
11. Contractor shall install all electrical wiring to properly supply necessary power to all outdoor condenser units.
12. Contractor shall contract with Trane to provide support on the existing Trane Building Automation System. BAS provider to provide all control/building automation wiring to properly supply necessary controls to all new condenser unit(s) as well as existing Air Handling Unit(s) and verify proper operation in the BAS.
13. Contractor shall provide and install any additional material and equipment in order to complete the installation in accordance with all applicable building codes and manufacturers' installation requirements.
14. Contractor must maintain a clean work area at all times. All areas must be left broom clean at the end of the work day.
15. Contractor is responsible for replacing any town owned property, and/or repair other damage as caused during the installation.
16. Contractor shall provide own tools and equipment in performing all work on this project.

TOTAL COST _____