



Proposal

Trane
A Division of American Standard Inc.

Prepared For:
All Bidders

Date: June 12, 2007

Proposal Number: P4-46973-1

Job Name:
Hilldale Baptist Family Life Center

Engineer:

Bid Date: June 19, 2007

Delivery Terms:
Freight Allowed and Prepaid - F.O.B. Factory

Payment Terms:
Net 30 Days

Phase 1

Item	Tag(s)	Qty	Description	Model Number
A1	SS-1, SS-4	2	20 Ton Unitary Split Systems	TTA240B300--TWE240B300
A2	SS-3	1	15 Ton Unitary Split Systems	TTA180B300--TWE180B300

Item: A1 Qty: 2 Tag(s): SS-1, SS-4

TTA Air Condensing Outdoor Unit
20 Ton Nominal Cooling Capacity
Dual Compressors - R22
208-230 Volt 3 Phase 60 Hertz
TWE Air Handler Unit
20 Ton Nominal Cooling Capacity
Dual Refrigerant Circuit - R22
208-230 Volt 3 Phase 60 Hertz
2 stage heat/2 stage cool digital display programmable (Fld)
2 Low Ambient Modulating (Fld)

Item: A2 Qty: 1 Tag(s): SS-3

TTA Air Condensing Outdoor Unit
15 Ton Nominal Cooling Capacity
Dual Compressors - R22
208-230 Volt 3 Phase 60 Hertz
TWE Air Handler Unit
15 Ton Nominal Cooling Capacity
Dual Refrigerant Circuit - R22
208-230 Volt 3 Phase 60 Hertz
2 stage heat/2 stage cool digital display programmable (Fld)
2 Low Ambient Modulating (Fld)

Note: Vibration isolation, anti short cycle timers, coil guards, hot gas bypass, smoke detectors, and extra filters are not included.

Item	Tag(s)	Qty	Description	Model Number
C1	DH-1, DH-4	2	Indoor Gas Heating Products	GDND040AEF
C2	DH-3	1	Indoor Gas Heating Products	GDND030ADF
C3	UH-1, UH-2	2	Indoor Gas Heating Products	GPND010ADF

Item: C1 Qty: 2 Tag(s): DH-1, DH-4

Indoor gas duct furnace
400 MBH input/320 MBH output
Two stage gas control, intermittent pilot
Aluminized steel heat exchanger

Item: C2 Qty: 1 Tag(s): DH-3
 Indoor gas duct furnace
 300 MBH input/240 MBH output
 Single stage gas control, intermittent pilot
 Aluminized steel heat exchanger

Item: C3 Qty: 2 Tag(s): UH-1, UH-2
 Propeller fan gas unit heater
 100 MBH input/80 MBH output
 Single stage gas control, intermittent pilot
 #409 stainless steel heat exchanger
 30' down. disch. nozzle (Fld)
 Single stage room thermostat (Fld)

Note: Louvers, flue vent fan, and drain pan are not included.

Item	Tag(s)	Qty
D1	FAU-1, FAU-2	2

Product Data - RenewAire Energy Recovery Ventilator

Item: D1 Qty: 1 Tag(s): FAU-1
 HE4XINV
 Static Plate
 Sensible and Latent Transfer
 Vertical Configuration
 208/60/3 Voltage
 24V Controls
 Supply and Exhaust VFDs (Fld)
 CO2 Sensor (Fld)

Item: D1 Qty: 1 Tag(s): FAU-2
 HE2XINH
 Static Plate
 Sensible and Latent Transfer
 Horizontal Configuration
 208/60/3 Voltage
 24V Controls
 CO2 Sensor (Fld)

Note: VFDs are not included with FAU-3

Item	Description
E1	Tracker controls

Product Data – Tracker Controls
 See Attached Proposal

Phase 2

Item	Tag(s)	Qty	Description	Model Number
A1	SS-2, SS-5	2	20 Ton Unitary Split Systems	TTA240B300--TWE240B300

Item: A1 Qty: 2 Tag(s): SS-2, SS-5

TTA Air Condensing Outdoor Unit
 20 Ton Nominal Cooling Capacity
 Dual Compressors - R22
 208-230 Volt 3 Phase 60 Hertz
 TWE Air Handler Unit
 20 Ton Nominal Cooling Capacity
 Dual Refrigerant Circuit - R22
 208-230 Volt 3 Phase 60 Hertz
 2 stage heat/2 stage cool digital display programmable (Fld)
 2 Low Ambient Modulating (Fld)

Note: Vibration isolation, anti short cycle timers, coil guards, hot gas bypass, smoke detectors, and extra filters are not included.

Item	Tag(s)	Qty	Description	Model Number
B1	RTU-1	1	7.5 Ton R22, PKGD Unitary Gas/Electric	YHC092A3RLA--A0B0A1B0B000----D

Item: B1 Qty: 1 Tag(s): RTU-1

DX cooling, gas heat
 High efficiency
 Convertible configuration
 7.5 Ton, Dual compressors
 208-230/60/3
 Microprocessor controls 3 ph
 Low gas heat capacity
 Coil Guard
 Motorized outside air damper 0-50% 3 ph
 Standard panels/2 inch pleated filters 3 ph
 Through the base electric 3 ph
 Non-fused disconnect 3 ph
 Powered conv. outlet 3 ph
 2H/2C digital display-programmable
 Dehumidification-hot gas reheat
 Roof curb (Fld)
 Humidity wall mounted sensor (Fld)

Note: Smoke detectors and extra filter are not included.

Item	Tag(s)	Qty	Description	Model Number
C1	DH-2, DH-5	2	Indoor Gas Heating Products	GDND040AEF

All Units

Natural gas
 115/60/1 main power supply

Item: C1 Qty: 2 Tag(s): DH-2, DH-5

Indoor gas duct furnace
 400 MBH input/320 MBH output
 Two stage gas control, intermittent pilot
 Aluminized steel heat exchanger

Note: Louvers, flue vent fan, and drain pan are not included.

Item	Tag(s)	Qty
D1	FAU-3	1

Product Data - RenewAire Energy Recovery Ventilator

Item: D1 Qty: 1 Tag(s): FAU-3

EV300

Static Plate

Sensible and Latent Transfer

Vertical Configuration

115/60/1 Voltage

24V Controls

CO2 Sensor

Note: VFDs are not included with FAU-3

Item	Description
E1	Tracker controls

Product Data - Tracker Controls

See Attached Proposal

Chad Tarter - Trane

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TRANE™

CONTROLS

JUNE 13,2007

JOB NAME: HILLDALE BAPTIST FAMILY LIFE CENTER

LOCATION: CLARKSVILLE, TN

Proposal : We propose to install the Trane Temperature Control and/or Building Automation System for the above job as follows :

HVAC AUTOMATIC CONTROLS

Net Price: \$ Included with the Trane HVAC Equipment Proposal

- Remarks :**
1. This proposal **includes control and interlock wiring.**
 2. This proposal **does not include DAIKIN Components.**
 3. The following **addendum's** are included in this proposal:
 4. This proposal **does not include applicable taxes.**
 5. Please refer to the following pages for a detailed scope of work.

Proposal Accepted :
Nashville Trane is authorized to proceed
with the work as proposed :

Purchaser _____

By _____

Title _____

Proposal Submitted :
Nashville Trane

By _____

GARY MILLER

Title: BAS SYSTEM SALES

Date: JUNE 13,2007



TRANE™

CONTROLS

JUNE 13, 2007

Job Name: HILLDALE BAPTIST FAMILY LIFE CENTER

Our Proposal Does Include :

Controls for Air Handler Units AHU-1-5 (5) Including:

Field Install Trane Interface Module (ZN517), Discharge Air Sensor, Installation of Space thermostats with setpoint adjustment with Override Button, Interlocking Relays, Current Switch for Fan Status and associated system programming.

Controls for FAU-1, 2, 3 Including:

Field Install Trane DDC Controller, CO2 Sensors (4), Interlocking Relays for Fans, 0-10 V DC Signal to VFD on FAU-1,2, ONLY Static Pressure Sensor/Discharge Sensor, New Central Control Panel with Display and associated system programming.

Controls for Roof Top Unit RTU-1 Including:

Factory Installed Trane DDC Controller (LCI) Installation of Space thermostat with setpoint adjustment with Override Button and associated system programming.

Controls for Exhaust Fans EF-2,3,4,5 Including:

Field Installed Trane DDC Controller (MP503) Installation Interlocking Relays, Control Wiring and associated system programming.

Controls for Facility Management System Including:

Trane Tracker Controller with Local Display, Ethernet Card and Phone Modem.

Our Proposal Also Includes :

Control and Interlocking Wiring

Eight Hours of Onsite Owner Training

One Years Parts Warranty on all Control Components

Our Proposal Does Not Include :

Furnishing, Installing and Checkout of DAIKIN Components

Motor Starters, Disconnects, and Starters on AHU,RTU, and FAU Units



Proposal

Prepared For:
Hilldale Baptist Church

Job Name:
HBC Family Life Center

Engineer:
WBW Engineering

Quote Number:

Attached herewith is a list of equipment proposed for the aforementioned project. If there are any questions, concerns or discrepancies please contact our office at once.

ITEM A: PHASE I Variable Refrigerant Volume HVAC Systems

Four (4) Daikin Outdoor SYSTEMS as follows:

REFNET Refrigerant Connectors
(15) BRC2A71 Zone Controllers

ODU-1 for VRV-1 System Model: REYQ96
With Seven (7) Indoor Units (1) FXAQ12 and (6) FXAQ18s
Tagged: IND 1-1, 2, 3, 4, 5, 6, 7

ODU-4 for VRV-4 System Model: REYQ96
With Seven (7) Indoor Units (4) FXFQ12 and (3) FXAQ24s
Tagged IND 2-1, 2-2, 3-1, 3-2, 3-3, 4-1, 4-4

ODU-5 for VRV-5 System Model: REYQ96
With Five (5) Indoor Units (4) FXFQ24 and (1) FXSQ18
Tagged IND 5-1 thru 5

ODU-6 for VRV-6 System Model: RXMQ36
With One (1) Indoor Unit FXMQ36
Tagged IND 6-1

ITEM B: PHASE II Variable Refrigerant Volume HVAC Systems

Two (2) Daikin Outdoor SYSTEMS as follows:

REFNET Refrigerant Connectors
(16) BRC2A71 Zone Controllers

ODU-2 for VRV-2 System Model: REYQ96
With Eight (8) Indoor Units (8) FXAQ12
Tagged: IND 2-3 thru 2-10

ODU-3 VRV-3 System Model: REYQ96
With Nine (6) Indoor Units (6) FXFQ12
Tagged IND 3-4 thru 3-9

Three Units to tie into System 4 (1) FXFQ12 & (2) FXFQ24
Tagged IND 4-3 thru 4-5

Notes:

1. Line sets not by MRG.
2. Disconnect switches not by MRG.
3. Condensate pumps for wall mounted units not by MRG.
4. Control wire and wiring not provided by MRG.
5. System Commissioning and Start Up will be performed by Daikin Factory Representative.