

DABHI ENGINEERING ASSOCIATES INC.

19310 Kessington Lane; Houston, Texas 77094
TEL (281) 492-6885; FAX (281) 492-8626

AT&T–Prairie View C.O
Replacement of existing air conditioning units

ADDENDUM #1 (01/19/2018)

Addendum #1 consists of the following comments/revisions to the bid drawings. Addendum #1 in its entirety shall be incorporated into contractors' bids:

1. Find attached Revised DWG. M1.01 for Commissioning requirements.
2. Installation of (N) ACCU-1 & 2: Each unit shall be installed on a minimum of (2), (N), 6" tall 15/8" x 15/8", 316 stainless steel (s.s) Unistruts or steel channels. Each Unistrut shall be anchored to the existing concrete pad at both ends using s.s hardware and new ACCU shall be anchored to the Unistruts at 4 corners using s.s hardware.
3. DWG. 1/E1.01: Keyed note-12 shall be revised to read "(E) 15A, 3 POLE CB SHALL REMAIN. INSTALL (N), 20A, 3 POLE CB IN EMPTY SPACE OF SWB-1 (IN UPPER LEFT HAND CORNER OF SWB), TO SERVE (N) AHU-1.
4. Temporary Power Outage to (E) SWB-1: (1), short power outage shall be performed during AT&T's maintenance window to remove and replace (2), (E) CBs and install (1), (N) CB as specified.
5. Existing mechanical room: Furnish and install a new, specified, outside air intake gravity hood with a roof curb, refer DWG. M1.01, on the existing roof opening and connect the existing outside air duct with required duct fittings to the outlet of the hood under the roof.
6. Temporary air conditioning (AC) units shut down: No longer than (1), 2 hours AC unit shut down shall be performed during AT&T's maintenance window to connect (N) main supply air duct to (E) duct at specified point.

END



CORPORATE REAL ESTATE

AT&T Prairie View Central Office

Project Manager



MEP Engineer

Dabhi Engineering Assoc Inc.

19310 KESSINGTON LANE HOUSTON, TEXAS 77094 281.492.6885 FAX: 281.492.8626 CONTACT: MADARSINH DABHI

T21006.00 at&t PRAIRIE VIEW CENTRAL OFFICE-NEW AIR CONDITIONING UNITS-2019

AIR HANDLING UNITS SCHEDULE table with columns for MARK, TOTAL AIR CFM, O/A CFM, EXT S.P. W.C, FAN MOTOR, COOLING COIL (MIN FACE AREA, ENT. AIR *F, LVG. AIR *F, ROWS, GRAND SENS), HEATING COIL (K.W, VOLT PHASE, OUTPUT MBH, STAGES), and REMARKS.

- NOTES: 1. DIRECT EXPANSION COOLING COIL SHALL BE ARI CERTIFIED, 1/2" DIA, 0.025" THICK, COPPER TUBES WITH AL FIN... 2. EXT SP INCLUDES PRESSURE DROPS THRU AIR DISTRIBUTION DEVICES... 3. (N) AHU SHALL BE FURNISHED AS FACTORY PACKAGED UNIT WITH FILTER, FAN, MOTOR, DRIVE, COOLING COIL SECTION WITH S.S. DRAIN PAN AND 6' TALL FACTORY INSTALLED CHANNEL BASE...

COATING OF EVAPORATOR COIL:

- 1. EVAPORATOR COILS SHALL BE FACTORY E-COATED TO PROVIDE PROTECTION AGAINST SALTY CORROSIVE AIR. THE COATING SHALL FULLY COMPLY WITH THE COATING SPECIFICATIONS FOR THE AIR COOLED CONDENSING UNIT AS SPECIFIED IN THIS DWG.

AIR COOLED CONDENSING UNITS SCHEDULE table with columns for MARK ACCU, TOTAL COOLING MBH, COND ENT. AIR *F, NO. OF COM, TYPE OF COM, REFRIG, COND. FAN (NO, FLA, EA.), ELECTRICAL (MAX. MCA, VOLT/PH/HZ), and REMARKS.

- NOTES: 1. EACH NEW ACCU-1 SHALL HAVE FACTORY INSTALLED COMPRESSOR ASSIST CAPACITOR WITH A RELAY, ANTI-CYCLE TIMER, NEOPRENE RUBBER-IN-SHEER ISOLATORS, CRANKCASE HEATER, EVAPORATOR FREEZE/STAT, HARD SHUT OFF TVV, LIQUID LINE SOLENOID VALVE... 2. CONDENSER COIL SHALL BE AL FIN MECHANICALLY BONDED TO COPPER TUBES... 3. NO LOCK-OUT RELAYS SHALL BE FURNISHED, INSTALLED, AND/OR WIRED BY CONDENSING UNIT MFR...

COATING SPECIFICATION FOR COATING OF ENTIRE ACCU INCLUDING CASING PANELS, CONDENSER COIL, AND EVAPORATOR COILS OF (N) AHU

- 1. ALL CASING PANELS AND CONDENSER COILS SHALL BE FACTORY E-COATED TO PROVIDE PROTECTION AGAINST SALTY CORROSIVE AMBIENT AIR. THE COATING SHALL FULLY COMPLY WITH THE FOLLOWING REQUIREMENTS AS A MINIMUM: A. SHALL HAVE A FLEXIBLE, EPOXY POLYMER COATING UNIFORMLY APPLIED TO ALL COIL SURFACE AREAS WITHOUT MATERIALS BRIDGING BETWEEN FINs... B. COATING PROCESS SHALL ENSURE COMPLETE COIL ENCAPSULATION OF TUBES, FINs, AND HEADERS...

AIR DISTRIBUTION DEVICES SCHEDULE table with columns for MARK, TYPE, SERVICE, NECK SIZE INCHES, FRAME SIZE INCHES, FINAL FINISH, FRAME TYPE, FLEXIBLE DUCT SIZE, PROVIDE ODD MANUAL VOL DAMPER, and REMARKS.

NOTES FOR AIR DISTRIBUTION DEVICES:

- 1. ALL AIR DISTRIBUTION DEVICES SHALL HAVE OFF WHITE BAKED ENAMEL EXTERIOR AND FLAT BLACK INTERIOR FINISHES. 2. S.A REGISTER TYPE "C" SHALL BE OF AL CONSTRUCTION.

FRESH AIR INTAKE HOOD SCHEDULE table with columns for UNIT MARK, TYPE, SERVICE, THROAT SIZE, CFM, MAX. S.P. DROP IN. OF W.C, DAMPER, PRE. FAB. CURB, and REMARKS.

- NOTES: 1. DAH-1 SHALL HAVE ALUMINUM BIRD SCREEN AND SHALL BE FURNISHED AND INSTALLED WITH 12" HIGH FACTORY PRE-FABRICATED, INSULATED, MATCHING ROOF CURB. 2. REMOVE CURB CAB FROM THE EXISTING ROOF OPENING AND INSTALL (N) ROOF CURB WITH REQUIRED SHOP FABRICATED ROOF CURB. DAH-1 SHALL BE SECURED TO (N) ROOF CURB ON (4) SIDES WITH STAINLESS STEEL ANCHORS...

REFRIGERANT PIPING SCHEDULE table with columns for SYSTEM, NO. OF REFRIG CIRCUITS, LIQUID LINE DIAMETER, SUCTION LINE (HORIZ, VERTICAL), and REMARKS.

NOTE: REF DETAILS IN DWG. M102

AHU PERFORMANCE SPECIFICATION

- 1. ENTIRE AHU SHALL BE MANUFACTURED USING DOUBLE WALL CONSTRUCTION RIGID CASING PANELS. 2. MIN R-13, FDAM TYPE INSULATION SHALL BE INJECTED BETWEEN OUTER AND INNER CASING PANELS OF AHU. 3. CASING DEFLECTION SHALL NOT EXCEED A 1/200 RATION WHEN SUBJECTED TO AN INTERNAL PRESSURE OF + - 5" OF W.C AND SHALL NOT EXHIBIT NO PERMANENT DEFORMATION AT + - 5" OF W.C...

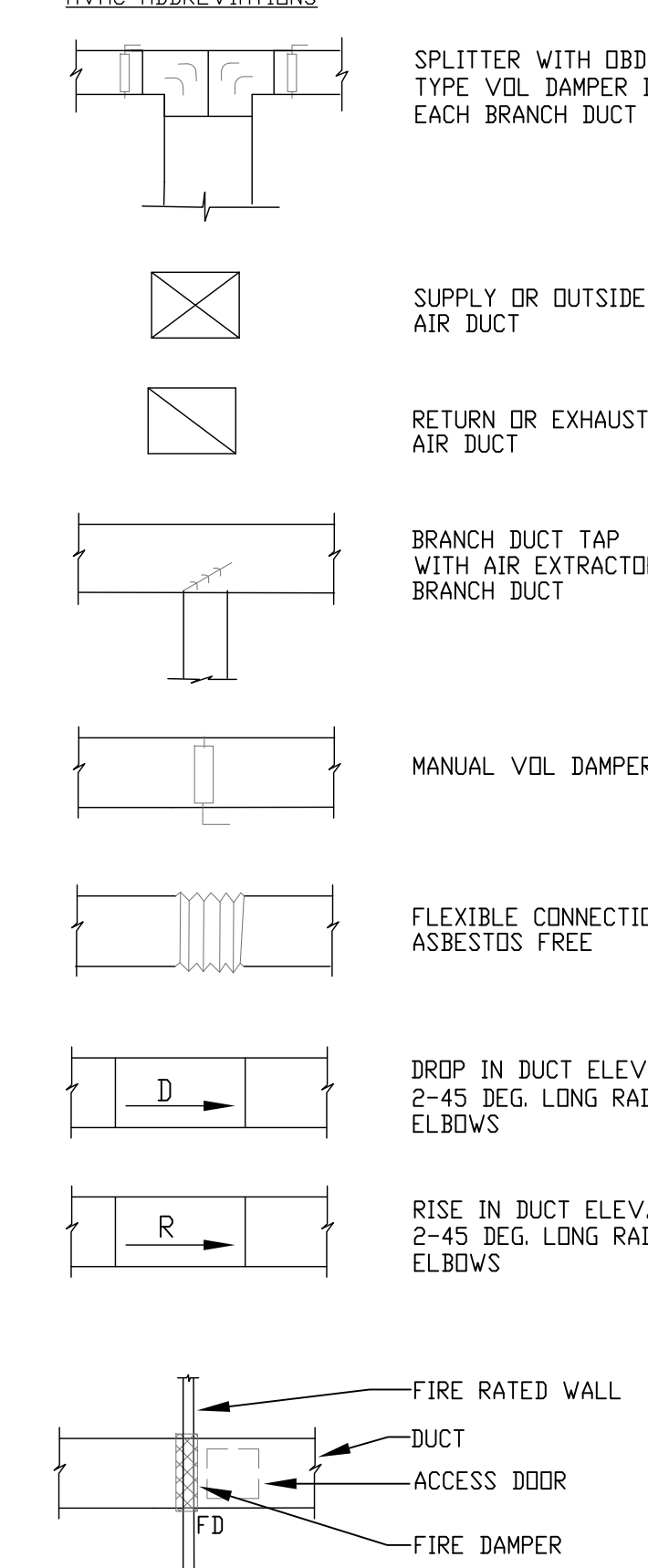
COMMISSIONING OF MECHANICAL (HVAC) SYSTEMS:

COMMISSIONING OF HVAC SYSTEMS SHALL BE PERFORMED BY AN INDEPENDENT COMMISSIONING AGENCY (AGENCY) SELECTED BY AT&T. BAS CONTRACTOR SHALL ASSIST THE AGENCY TO COMPLETE THE COMMISSIONING OF ACCU-1, ACCU-2, AND (N) AHU-1 SHALL BE COMMISSIONED THE FOLLOWING SYSTEMS AS A MINIMUM SHALL BE COMMISSIONED, TESTED, BALANCED, RECORDED IN TABULATED FORMAT AND SUBMITTED FOR ENGINEER'S REVIEW COMMENTS. ALL DEFICIENCIES SHALL BE CORRECTED BY CONTRACTORS AND AGENCY AT NO EXTRA COST.

FOR NEW ACCUS AND AHU:

- A. RECORD GENERAL INFORMATION FOR (N) ACCUS AND (N) AHU-1 BALANCE AND RECORD SPECIFIED SUPPLY, RETURN, AND OUTSIDE AIR CFMS OF (N) AHU-1. B. TAKE AND RECORD SUPPLY AND RETURN AIR DB AND WB TEMPS AT (N) AHU. C. TAKE AND RECORD ESP IN INCHES OF W.Cs ON DISCHARGE AND INLET SIDES OF (N) AHU WITH 50% OF FILTER AREA CLOSED OFF... J. VERIFY THAT COMPRESSORS AND ALL CONDENSER FANS OF NEW ACCUS ARE FUNCTIONING PROPERLY...

HVAC ABBREVIATIONS



HVAC ABBREVIATIONS

- A/C AIR CONDITIONING, ACCU AIR COOLED CONDENSING UNIT, AHU AIR HANDLING UNIT, AL ALUMINUM, AMB AMBIENT, APPROX APPROXIMATE, ARCH ARCHITECTURAL, BETN BETWEEN, BAS BUILDING AUTOMATION SYS, BLDG BUILDING, BOP BOTTOM OF PIPE, BTM BOTTOM, BTU/HR. BRITISH THERMAL UNIT PER HOUR, CAP CAPACITY, CFM CUBIC FEET PER MINUTE, CKT CIRCUIT, CLG CEILING, CONDEN CONDENSATE CONNECTION, CONT CONTINUATION, CW COLD WATER, DIA DIAMETER, DB DRY BULB, DWG DRAWING, (E) EXISTING, EA EACH, EA EXHAUST AIR, E.C. ELEC. CONTRACTOR, EF EXHAUST FAN, EDH ELECTRIC DUCT HEATER, EFF. EFFICIENCY, ELEC ELECTRICAL, ENT ENTERING, ESP EXTERNAL STATIC PRESSURE, EXH EXHAUST, EXT EXTERNAL, *F DEGREE FAHRENHEIT, FD FIRE DAMPER, F.D FLOOR DRAIN, FIN FINISHED, FLEX FLEXIBLE, FT. FEET, FPM FEET PER MINUTE, FLR FLOOR, FLA FULL LOAD AMPS, GALV GALVANIZED, HR. HOUR, HP HORSE POWER, HT. HEIGHT, HZ HERTZ, IN INCHES, INSTM INSTRUMENTATION, K.W KILOWATT, LVG LEAVING, MECH MECHANICAL, MAX MAXIMUM, MCA MIN CKT AMP, MIN MINIMUM, M.C MECHANICAL CONTRACTOR, 1000 X BTU/HR. MANUFACTURER, (N) NEW, OA OUTSIDE AIR, ODD OPPOSED BLADE DAMPER, P.C PLUMBING CONTRACTOR, PD PRESSURE DROP, PH PHASE, PRESS PRESSURE, RA RETURN AIR, REF REFER, REFRIG REFRIGERANT, RPM REVOLUTIONS PER MINUTE, S.A SUPPLY AIR, SCH SCHEDULE, S.P STATIC PRESSURE, S.S STAINLESS STEEL, SQ SQUARE, SENS SENSIBLE, SYS SYSTEM, STL STEEL, STRUC STRUCTURE, TAB TESTING, ADJUSTING BALANCING, TEMP TEMPERATURE, THRU THROUGH, TOP TOP OF PIPE, VEL VELOCITY, VOL VOLUME, WB WET BULB, *WC INCHES OF WTR COLUMN, WTR WATER

CONSULTANT STAMP



REVISIONS / AUTHORIZATIONS

Table with columns: NO, REVISIONS / AUTHORIZATIONS, DATE, BY. Includes revision 1: ISSUED FOR PRICING AND CONSTRUCTION, 12/15/18, M.D. and revision 2: REVISED FOR COMMISSIONING & INTAKE HOOD, 1/19/2019, M.D.

PROPRIETARY AT&T INFORMATION NOT FOR GENERAL USE OR DISCLOSURE OUTSIDE OF AT&T THIS INFORMATION MAY ONLY BE USED BY AUTHORIZED PERSONNEL OF THE LOCAL GOVERNMENT AGENCY IN CONNECTION WITH APPLICATION FOR PERMITS AND AUTHORIZATIONS FOR BUILDINGS, CONSTRUCTION, AND/OR ZONING CHANGES.



PROJECT TITLE: AT&T PRAIRIE VIEW C.O NEW AIR CONDITIONING UNIT 609 Sandra Bland Pkwy Prairie View TX 77445 US

* SHEET TITLE: MECHANICAL SCHEDULES, SYMBOLS, ABBREVI & DETAILS

Table with columns: AT&T PROJECT NUMBER, DATE, SCALE, DRAWN BY, CHECKED BY, SHEET, OF, SHEETS, SHEET NO. Values include T21006.00, 12/05/2018, NOTED, S.D, M.D, 1, 1, 1, M1.01

AT&T AUTHORIZATION: SUSAN ALEXANDER