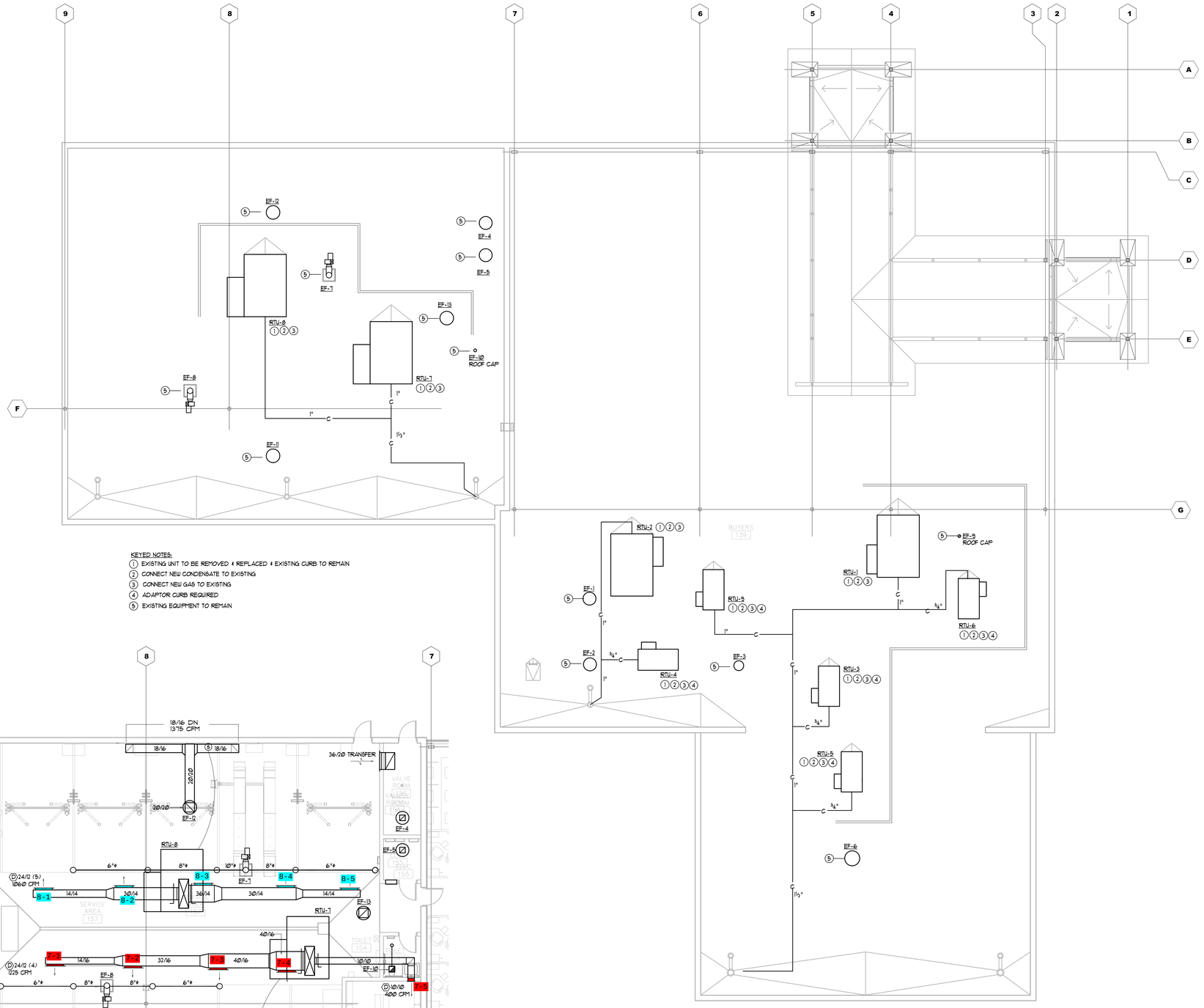
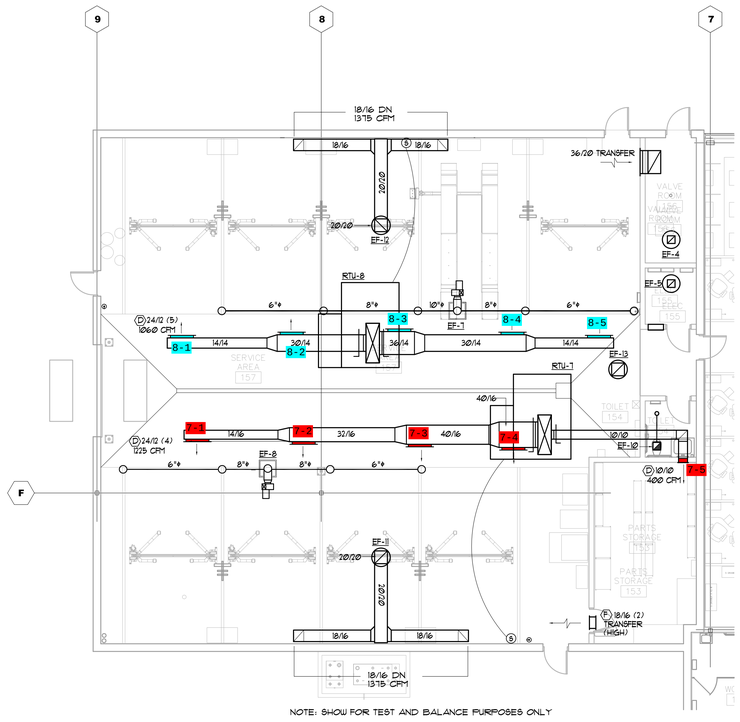


KEYED NOTES:

1. EXISTING UNIT TO BE REMOVED & REPLACED & EXISTING CURB TO REMAIN
2. CONNECT NEW CONDENSATE TO EXISTING
3. CONNECT NEW GAS TO EXISTING
4. ADAPTOR CURB REQUIRED
5. EXISTING EQUIPMENT TO REMAIN



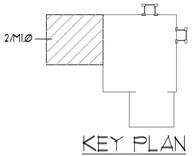
NOTE: SHOW FOR TEST AND BALANCE PURPOSES ONLY

2 / M2.0 — PART PLAN – HVAC

SCALE: 1/8" = 1'-0"

1 / M2.0 — ROOF PLAN – HVAC

SCALE: 1/8" = 1'-0"



KEY PLAN

A.M. CERRA, JR. P.E.
1827 POWERS FERRY ROAD
BLDG # 18, SUITE # 100
ATLANTA, GEORGIA 30339
770-980-0581

22164.01

A.M. CERRA JR. LICENSE No. 52858 STATE OF FLORIDA PROFESSIONAL ENGINEER

A.M. Cerra Jr. P.E.

Digitally signed by A.M. Cerra Jr. P.E.
DN: cn=A.M. Cerra Jr. P.E., o, ou, email=mike_amcinc@amcpe.com, c=US
Date: 2022.01.27 09:45:13 -05'00'

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RELEASED FOR CONSTRUCTION

APPROVAL

CARMAX PE

REVISIONS

REV. NO	DATE	DESCRIPTION

HVAC GENERAL NOTES

1. ALL CONTROL WIRING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF N.F.P.A. 70. ALL WIRING SHALL BE CONCEALED.
2. CONTRACTOR SHALL INSTALL ALL ROOF CURBS FOR ROOFTOP UNITS LEVEL TO HORIZON AT (4) CORNERS.
3. AIR TEST AND BALANCE REQUIRED BY INDEPENDENT TAB CONTRACTOR AABC OR NEBB CERTIFIED. SEE TEST AND BALANCE SCOPE ON THIS SHEET
4. EXISTING SMOKE DETECTORS TO REMAIN AND BE REUSED.
5. LENNOX START UP TECH SHALL PROGRAM THE PRODIGY BOARDS IN ALL NEW RTU'S. PRODIGY BOARDS SHALL BE PROGRAMMED PRIOR TO CSUSA RECOMMISSIONING THE NOVAR SYSTEM.
6. CONTRACTOR SHALL PROVIDE CLEAN FILTERS IN ROOFTOP UNITS PRIOR TO AIR BALANCE AND AGAIN PRIOR TO OWNER ACCEPTANCE.
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 FLORIDA MECHANICAL CODE AND THE 2020 FLORIDA FUEL GAS CODE WITH LOCAL AMENDMENTS. ALL EQUIPMENT AND MATERIALS CAPABLE OF BEING UL. LABELED OR LISTED SHALL BEAR THE UL. LABEL.
8. CONTRACTOR SHALL PROVIDE A GASKET BETWEEN BASE OF ROOF MOUNTED FANS AND ROOF CURBS TO PROVIDE AN AIRTIGHT JOINT.
9. PROVIDE MISCELLANEOUS STEEL AND/OR WOOD BLOCKING AND SUPPORT AT ROOF CURBS AND OPENINGS AS REQUIRED TO SUPPORT ROOF AND EQUIPMENT. SPECIFIC REQUIREMENTS SHALL BE VERIFIED WITH STRUCTURAL ENGINEER AND APPROVED EQUIPMENT DRAWINGS PRIOR TO PLACEMENT.
10. NEW SUPPLY AND EXHAUST DUCT SHALL BE 2.0 IN PRESSURE CLASS.
11. NEW DUCT SHALL HAVE PAINT GRIP FINISH AND BE EITHER GALVANNEALED OR MILL PHOSPHATIZED.
12. ANY NEW SUPPLY DUCT SHALL BE INTERNALLY INSULATED WITH 1" DUCT LINER EQUAL TO OWENS CORNING ACOUSTITEX, 1.5 LB DENSITY, R=3.8.

PIPING GENERAL NOTES

1. ANY NEW GAS PIPING SHALL BE ASTM A-120, SCHEDULE 40, BLACK STEEL WITH 150 LB. MALLEABLE IRON SCREWED FITTINGS.
2. ANY NEW EXTERIOR GAS PIPE SHALL BE PAINTED WITH RUST PROHIBITIVE PAINT.

HVAC LEGEND

A.F.F.	ABOVE FINISHED FLOOR
VD	VOLUME DAMPER
B.O.S.	BOTTOM OF STEEL
B.O.D.	BOTTOM OF DUCT
U.N.O.	UNLESS NOTED OTHERWISE
VD	VOLUME DAMPER
	SUPPLY GRILLE WITH FLEX DUCT DROP
	RETURN/EXHAUST GRILLE
R D	R = RISE, D = DROP
T	THERMOSTAT
S	LENNOX ROOM TEMPERATURE/HUMIDITY SENSOR 72" AFF
	SPIN-IN FITTING
	EXISTING DUCT
	EXISTING DUCT TO BE REMOVED
OG	ORIGINAL GAS
AG	ADDITION GAS
EG	ESTIMATED EXISTING GAS
G	NEW GAS

ROOFTOP UNIT NOTES

1. CARMAX AUTO SUPERSTORE, LLC HAS A NATIONAL ACCOUNT WITH LENNOX INDUSTRIES, INC., FOR PRICING AND DELIVERY OF PACKAGED ROOFTOP UNITS IN ACCORDANCE WITH THE FOLLOWING. NO SUBSTITUTIONS WILL BE ALLOWED.

   A. ROOFTOP UNITS SHALL BE AS SCHEDULED.

   THE ELECTRICAL PACKAGE SHALL INCLUDE:
   - UNIT DISCONNECT (INSTALLED AND WIRED)
   - BOTTOM GAS/POWER ENTRY
   - STANDARD LOW AMBIENT CONTROL
   - DUAL 120V GFCI TYPE OUTLETS (TO BE FIELD WIRED)
   - GLOBAL DRY BULB ECONOMIZERS W/FAN POWERED EXHAUST (7.5T AND LARGER UNLESS OTHERWISE NOTED)
   - GLOBAL DRY BULB ECONOMIZERS W/BAROMETRIC RELIEF (6T AND SMALLER)
   - STAINLESS STEEL HEAT EXCHANGER AND FRESH AIR TEMPERING FOR RTU-7&8

2. THE LENNOX NATIONAL ACCOUNT CONTACT IS:

   RON JOHNSON
   "804-621-2606

3. HVAC EQUIPMENT PERFORMANCE CHECK (EPC)

   UPON COMPLETION OF THE HVAC INSTALLATION AND STARTUP, THE OWNER'S SERVICE CONSULTANT, AT THE OWNER'S EXPENSE, IS TO INSPECT THE JOB AND PERFORM AN (EPC). THIS EPC WILL AID THE CONTRACTOR IN CHECKING EACH MACHINE FOR PROPER OPERATION, CHECKING THE CONTROL PANEL AND ADJUSTING CONTROLS AS NECESSARY.

   THE OWNER'S SERVICE CONSULTANT:
   COMFORT SYSTEMS
   ATTN: VALERIE BEDEL
   P: 317-246-5181
   valeriabedel@comfortsystemsusa.com

   ALL PROBLEMS DISCOVERED WITH THE EQUIPMENT OR ITS INSTALLATION (EXCLUDING NOVAR INSTALLATION) SHALL BE CORRECTED BY THE HVAC SUBCONTRACTOR IN ACCORDANCE WITH THE OWNER'S SERVICE CONSULTANT.

   AFTER ALL PROBLEMS HAVE BEEN CORRECTED, CARMAX AUTO SUPERSTORE, LLC SHALL VERIFY ALL EQUIPMENT IS OPERATING PROPERLY THROUGH THE NOVAR CONTROLLERS.

   PRIOR TO PERFORMANCE OF THE EPC, THE CONTRACTOR SHALL HAVE SET AND CONNECTED ALL COMPONENTS, COMPLETED THE POWER WIRING, CONNECTED ALL PIPING, REMOVED ALL SHIPPING BLOCKS, COMPLETED THE STARTUP OF ALL UNITS AND FURNISHED THE PRE-EPC CHECKLIST TO THE OWNER'S SERVICE CONSULTANT.

   THE EPC INCLUDES A FULL WRITTEN REPORT. COPIES WILL BE SENT TO THE GENERAL CONTRACTOR, AND CARMAX AUTO SUPERSTORE, LLC. COPIES OF THE EPC SHALL BE INCORPORATED IN TO THE O & M MANUALS BY THE GENERAL CONTRACTOR.

   A. RTU AIR FILTERS SHALL BE CAMFIL FARR AEROPLEAT III PLEATED, 2" THICK MERV 13, OR EQUAL. MARK FILTERS WITH INSTALLATION DATE

   B. THE PACKAGE COMPONENTS WILL BE CLEARLY LABELLED (IN LEGIBLE FORM) ON THE EXTERIOR OF ALL BOXES OR CRATES.

   C. SUBMIT RTU SUBMITTALS IN PDF FORMAT TO THE ENGINEER FOR APPROVAL

CONTROLS SCOPE OF WORK:

EXISTING RTU'S ARE ON LOGIC ONE BUS6, SAVVY COMMUNICATIONS TO 10M ALL RTUS WITH ETM 2051/6 I/O 16 BY THE INTEGRATED 10M IN THE SAVVY.

1. ALL NEW RTU'S WILL BE BACNET.
2. THE GENERAL CONTRACTOR SHALL RETAIN COMFORT SYSTEMS USA (CSUSA) TO FURNISH AND INSTALL CONTROLS AS INDICATED BELOW. THE CONTACT AT CSUSA IS:
   VALERIE BEDEL 317-246-5181
3. PROVIDE PRE-CONSTRUCTION SCREEN SHOTS FROM NOVAR EMS MONITORING TO INCLUDE UNIT STATUS, MODULE COMMUNICATIONS STATUS AND ACTIVE ALARMS.
4. NOT USED
5. CONNECT NEW RTU'S W/PRODIGY BOARDS TO BACNET COMMUNICATION.
6. FOR NEW RTU'S REPLACE RTU NOVAR TEMPERATURE SENSORS WITH LENNOX SENSORS.
7. REPLACE/UPGRADE SAVVY 31 WITH OPUS XCM10/8 PANEL, SAME BASE PLATE, MINIMAL RE-WIRING REQUIRED.
8. CONNECT BACNET NETWORK AS REQUIRED.
9. TURN OVER SAVVY 31 PANEL AND ETM'S TO CARMAX FOR FUTURE SERVICE CALL INVENTORY SHIP TO COMFORT SYSTEMS USA, ATTN VALERIE BEDEL, CARMAX EMS ACCOUNT CO-ORDINATOR.
10. UPDATE SOFTWARE PER NEW CARMAX TEMPLATE
11. COMMISSION EMS SYSTEM
12. PROVIDE POST CONSTRUCTION SCREEN SHOTS FROM NOVAR EMS MONITORING TO INCLUDE UNIT STATUS, MODULE COMMUNICATIONS STATUS AND ACTIVE ALARMS.
13. LENNOX/CARMAX RTU SET UP SHEET IS TO BE COMPLETED UPON UNIT STARTUP. A COMPLETED SHEET IS TO BE LEFT IN EACH NEW RTU AND A COPY SUBMITTED WITH CLOSE OUT DOCUMENTATION FOR EACH NEW RTU.
14. FURNISH AND INSTALL ADDITIONAL CONTROL WIRE FOR CO2 SENSORS AND UNITS WITH HUMIDITROL.
15. ALL CONTROL, COMMUNICATIONS BUS AND SENSOR WIRING, NEW AND EXISTING, IS PART OF THE CONTROLS CONTRACTOR SCOPE OF WORK. REPLACE ANY DAMAGED WIRE.

EXISTING ROOFTOP UNIT SCHEDULE

(SHOWN FOR REFERENCE ONLY)

MARK	LOCATIONS AND AREAS SERVED	EER	VOLT/PH	FAN DATA CFM	FAN DATA ESP IN. W.C.	FAN DATA HP	COOLING DATA EAT DB/WB	COOLING DATA TOTAL MBH	COOLING DATA SENSIBLE MBH	GAS DATA INPUT MBH	GAS DATA OUTPUT MBH	MIN. O/A CFM	MODEL		WEIGHT (6)	REMARKS (1) (2)
RTU-1	SHOWROOM	11.5	480/3	5000	.6	3	76.5/65.9	182.8	115.9	260	208	800	LENNOX	LGA180H	2900	(5)
RTU-2	SHOWROOM	11.5	480/3	5000	.6	3	76.5/65.9	182.8	115.9	260	208	800	LENNOX	LGA180H	2900	(5)
RTU-3	OFFICE	10.5	480/3	1800	.6	1.5	78.2/66.3	73.3	47.7	78	61.6	300	LENNOX	LGA072H	900	(5)
RTU-4	BREAK/REST	11.3	480/3	1400	.6	1.5	75.5/65.3	43	27.8	78	61.6	150	LENNOX	LGA042H	900	
RTU-5	WRITE UP	11.3	480/3	1300	.6	1.5	75.8/65.4	42.3	28	78	61.6	150	LENNOX	LGA042H	900	
RTU-6	WAITING	11.2	480/3	900	.6	1.5	80.1/68.6	36.1	22.2	78	61.6	200	LENNOX	LGA036H	900	(5)
RTU-7	SERVICE	10.0	480/3	7910	.8	5	80.3/71.5	371.5	184.8	260	208	5300	LENNOX	LGA360H	4800	(3) (4)
RTU-8	SERVICE	10.0	480/3	7910	.8	5	80.3/71.5	371.5	184.8	260	208	5300	LENNOX	LGA360H	4800	(3) (4)
RTU-9	DATA/PBX	11.2	480/3	960	.6	1.5	76/67	34	23.8	-	-	-	LENNOX	LCA036H	900	

(1) RTU CURBS SHALL HAVE 1/2" HOLES AT 24" O.C. ON BOTTOM ANGLE FOR DIRECT CONNECTION TO ROOF DECK. SEE STRUCTURAL DRAWING S3.3, DETAIL 'F'.
(2) PROVIDE WITH FACTORY INSTALLED NOVAR CONTROL MODULE: LGA UNIT SERIES (MODEL 2051)
(3) BYPASS 2610 CFM, 5300 CFM TO SPACE
(4) BY-PASS CURB AND BY-PASS MIXING BOX
(5) INSTALL SMOKE DETECTORS IN SUPPLY DUCT
(6) INCLUDES WEIGH OF UNIT AND CURB

ROOFTOP UNIT SCHEDULE

MARK	ZONE	EER	VOLT/PH	FAN DATA CFM	FAN DATA TOT IN. W.C.	FAN DATA ESP IN. W.C.	FAN DATA HP	COOLING DATA (9) EAT DB/WB	COOLING DATA TOTAL MBH	COOLING DATA SENSIBLE MBH	GAS DATA INPUT MBH	GAS DATA OUTPUT MBH	MIN. O/A CFM	MODEL (1)		WEIGHT (20)	REMARKS (2)(4)(12)(11)(18)
RTU-1	SHOWROOM	12.8	480/3	5000	.80	.6	3.0	--	--	--	260	208	800	LENNOX	LGH180H4M	2500	(5)(13)(14)
RTU-2	SHOWROOM	12.0	480/3	5000	.80	.6	3.0	--	--	--	260	208	800	LENNOX	LGH180H4M	2500	(5)(13)(14)
RTU-3	OFFICE	12.0	480/3	1800	.90	.6	1.0	--	--	--	108	86	300	LENNOX	LGH074H4T	1100	(5)(6) (19)
RTU-4	BREAK ROOM	12.8	480/3	1400	.80	.6	.75	--	--	--	65	52	150	LENNOX	LGH048H4E	1150	(5)(6) (19)
RTU-5	WRITE UP	12.8	480/3	1300	.80	.6	.75	--	--	--	65	52	150	LENNOX	LGH048H4E	1150	(5)(6) (19)
RTU-6	WAITING	12.8	480/3	900	.70	.6	1.0	--	--	--	65	52	200	LENNOX	LGH036H4E	930	(5)(6) (19)
RTU-7	SERVICE AREA	11.6	480/3	7900	.12	.8	5.0	--	--	--	480	384	5300	LENNOX	LGH360H4B	4400	(3)(5)(7)(8)(10)(14)(15)(16)
RTU-8	SERVICE AREA	11.6	480/3	7900	.12	.8	5.0	--	--	--	480	384	5300	LENNOX	LGH360H4B	4400	(3)(5)(7)(8)(10)(14)(15)(16)
RTU-9	PBX	12.1	480/3	960	.70	.6	1.0	--	--	--	--	--	--	LENNOX	LCH036H4M	710	

(1) ONLY ACCEPTABLE MANUFACTURER IS LENNOX. SEE "ROOFTOP UNIT NOTES"
(2) FIELD ADJUST SUPPLY FAN R.P.M. TO PROVIDE AIR QUANTITIES AS SCHEDULED ABOVE. INSTALL FIELD-SUPPLIED MOTOR AND/OR DRIVE AS REQ'D
(3) INSTALL FLAT DISCHARGE AIR TEMPERATURE SENSOR. SHIPPED LOOSE IN RTU CABINET, INSTALL SENSOR IN SUPPLY IN SUPPLY DUCT APPROX 3FT BELOW ROOF DECK. SEE DETAIL 4/M4.0
(4) BACNET CONTROL, NEW TEMP SENSOR OR COMBO TEMP/HUMIDITY SENSOR
(5) HUMIDITROL DEHUM OPTION
(6) GLOBAL ECONOMIER WITH BAROMETRIC RELIEF
(7) STAINLESS STEEL HEAT EXCHANGER
(8) FRESH AIR TEMPERING, 100% OUTSIDE AIR
(9) 95°F CONDENSER AIR
(10) MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION OF WIRING HARNESS SHIPPED LOOSE W/ RTU THAT ARE ASSOCIATED WITH OUTSIDE AIR DAMPER.
(11) PROVIDE WITH DEMAND VENTILATION, CO2 SENSOR, MODULATING OUTSIDE AIR DAMPER OUTSIDE AIR DAMPER CLOSED, ON A CALL FOR VENTILATION, OUTSIDE AIR DAMPER STARTS TO OPEN AT 700 PPM AND AT 1100 PPM MOVES TO % OPEN TO GIVE OUTSIDE AIR QUANTITY AS INDICATED IN SCHEDULE ABOVE. INSTALL CO2 SENSOR ADJACENT TO TEMP SENSOR
(12) DRAIN PAN OVERFLOW SWITCH MODEL 216SRS90A1
(13) GLOBAL ECONOMIZER WITH POWERED EXHAUST
(14) 2 STAGE HEAT
(15) REUSE EXISTING BY-PASS CURB, NEW MIXING BOX
(16) 7900 CFM ACROSS COIL, 2600 CFM BYPASSED IN CURB, 5300 CFM OUTSIDE AIR AND SUPPLY TO SERVICE
(17) COASTAL COIL PROTECTION
(18) HURRICANE CLIPS
(19) ADAPTER CURB
(20) INCLUDES WEIGHT OF EXISTING CURB AND ADAPTER CURB WHERE APPPLICABLE

TEST & BALANCE SCOPE

MARK	TOTAL AIR ACROSS COIL	OUTSIDE AIR	BYPASS AIR	SUPPLY AIR TO REGISTERS	OTHER
RTU-1 THRU 6, 9	AS SCHEDULED	AS SCHEDULED	--	--	
RTU-7&8	7900	5300	2600	5300	REGISTER AIR QTY AS SHOWN ON 2/M1.0

SUGGESTED TEST & BALANCE PROCEDURE FOR BYPASS UNITS:

RTU-7 & 8

1. CLOSE BYPASS DAMPER & MAKE AIR QTY 7900 CFM.
2. GRADUALLY OPEN BYPASS DAMPER UNTIL OUTSIDE AIR IS 5300 CFM. THIS MEANS 2600 CFM IS BEING BYPASSED IN THE CURB
3. OUTSIDE AIR SHOULD EQUAL SUPPLY AIR TO THE REGISTERS
4. TEST AND BALANCE CONTRACTOR TO NOTIFY COMFORT SYSTEMS AND INCLUDE IN T&B REPORT REGARDING MINIMUM POSITION OF OUTSIDE AIR DAMPER. SEE RTU NOTES FOR CONTACT INFO.

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1827 POWERS FERRY ROAD
BLDG # 18, SUITE # 100
ATLANTA, GEORGIA 30339
770-980-0581

22164.01

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APPROVAL

CARMAX PE

REVISIONS

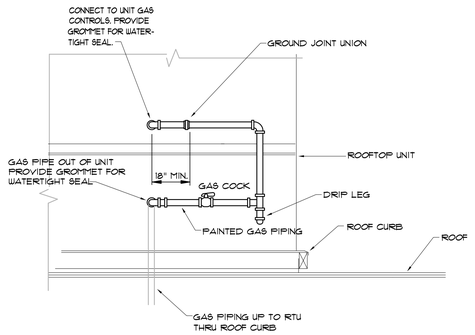
REV. NO	DATE	DESCRIPTION

CARMAX
THE AUTO SUPERSTORE
CARMAX, THE AUTO SUPERSTORE, INC.
12800 TUCKAHOE CREEK PKWY, RICHMOND, VA. 23238
(804) 747-0422

STORE NO. 7198
6300 NW 167th STREET
MIAMI LAKES, FLORIDA 33014

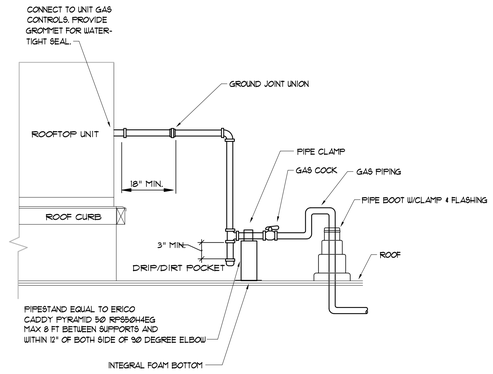
PROJECT NO 22164.01
DATE 21 JAN 2022
SHEET TITLE
SCHEDULES - HVAC

SHEET NO M3.0



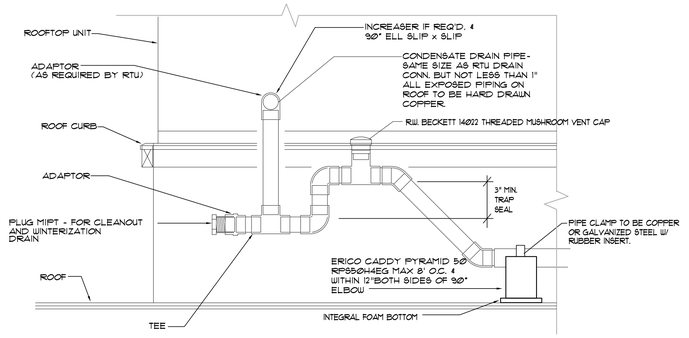
3 M4.0 RTU GAS CONNECTION DETAIL

NOT TO SCALE



1 M4.0 RTU GAS CONNECTION DETAIL

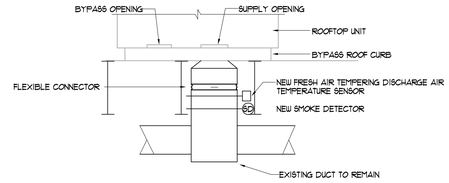
NOT TO SCALE



NOTE: KEEP PIPE CLEAR OF ACCESS PANELS.

2 M4.0 RTU CONDENSATE DRAIN DETAIL

NOT TO SCALE



RTU-7 & 8

4 M4.0 RTU DUCT DROP DETAIL

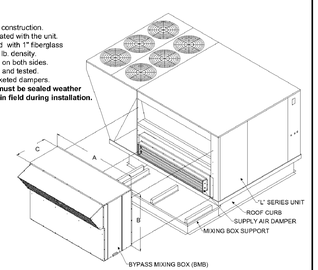
NOT TO SCALE

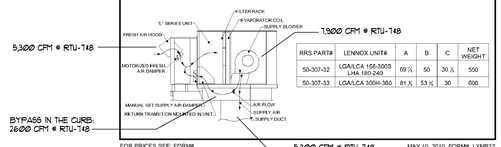
RUSKIN ROOFTOP SYSTEMS

SPECIFICATION DATA FOR LENNOX LGA / LCA 156 - 360 LHA 180-240

RRS MODEL#: 50-307-3* BYPASS MIXING BOX

Features
1. Heavy gauge construction.
2. Color coordinated with the unit.
3. Fully insulated with 1" fiberglass insulation 1.5 lb. density.
4. Access doors on both sides.
5. Factory wired and tested.
6. Low leak gasketed dampers.
7. **Mixing Box must be sealed weather tight to RTU in field during installation.**





RRS PART#	LENNOX UNIT#	A	B	C	NET WEIGHT
50-307-32	LGA/LCA 156-300S LHA 180-240	69 ¼	50	30 ¼	550
50-307-33	LGA/LCA 300H-360	81 ¼	53 ¼	36	600

FOR PRICES SEE: FORM#

MAY 10, 2010 FORM# LXMB32
SUPERCEDES 05-22-08

RUSKIN ROOFTOP SYSTEMS

1625 Diplomat Drive, Carrollton, Texas 75006-6848 Phone (972) 247-7447 (800) 552-4822 Fax (972) 243-0940

6 M4.0 MIXING BOX DETAIL

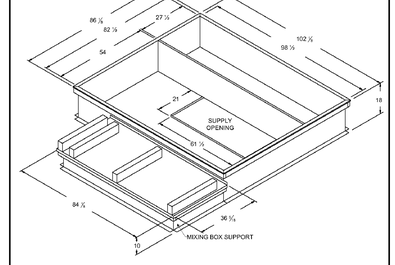
NOT TO SCALE

RSI ROOFTOP SYSTEMS, INC.

SPECIFICATION DATA FOR CARMAX LGA / LCA 156 - 360 LHA 180-240

RSI MODEL: 50-275-32 ROOF CURB W/ BYPASS MIXING BOX SUPPORT

Features:
1. Roof curb is built to NRCA standards.
2. Roof curb is constructed of 16 gauge G90 steel.
3. Curb and mixing box support ships completely welded in one piece.
4. Full perimeter 2 x 4 wood nailer.
5. Supply plenum completely insulated and assembled.
6. Net weight of curb is 656 lbs.



NOTE: BYPASS CURBS ARE EXISTING TO REMAIN. SHOWN FOR GENERAL INFORMATION ONLY

FOR PRICES SEE: FORM# LX-CM-LP01

SEPTEMBER 27, 2006 FORM# LXCMHCRB32
SUPERCEDES 12-04-02

RSI ROOFTOP SYSTEMS, INC. 2405 McIver Lane, Carrollton, Texas 75006-6510 Phone (972) 247-7447 (800) 552-4822 Fax (972) 243-0940

5 M4.0 BYPASS CURB DETAIL

NOT TO SCALE

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DN: cn=A.M. Cerra Jr. P.E., o, ou, email=mike_amcinc@amcpe.com, c=US
Date: 2022.01.27 09:45:53 -05'00'

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RELEASED FOR CONSTRUCTION

APPROVAL

CARMAX PE

REVISIONS

REV. NO	DATE	DESCRIPTION

CARMAX THE AUTO SUPERSTORE

CARMAX THE AUTO SUPERSTORE, INC.
12800 TUCKAHOE CREEK PKWY RICHMOND, VA 23238
(804) 747-0422

STORE NO. 7198
6300 NW 167th STREET
MIAMI LAKES, FLORIDA 33014

PROJECT NO	22164.01
DATE	21 JAN 2022
SHEET TITLE	DETAILS - HVAC
SHEET NO	M4.0