ABOVE FINISHED FLOOR

BACKDRAFT DAMPER

CONDENSATE DRAIN

DRY BULB (°F)

MIXED AIR

MOUNTED

OUTDOOR AIR

RETURN AIR GRILLE

SUPPLY REGISTER

TRANSFER GRILLE

HVAC EQUIPMENT DESIGNATION

GRILLE/DIFFUSER DESIGNATION. TYPE "A".

SUPPLY REGISTER SIZE, 3-WAY THROW

SUPPLY REGISTER, SR, TWO WAY THROW

SUPPLY REGISTER, SR, ONE WAY THROW

DUCT ELBOW WITH TURNING VANES

DUCT ELBOW WITHOUT TURNING VANES

NEW DUCT OR EQUIP (SHOWN AS SOLID)

EQUIPMENT LOCATED ON ROOF. (DASHED)

CEILING RADIATION DAMPER

FIRE/SMOKE DAMPER

NEW DUCT LINED (LINER SHOWN AS DASHED)

HVAC EQUIPMENT

FLEX DUCT

FIRE DAMPER

FSD

(FAN COIL UNIT NO. 1)

SEE SCHEDULE THIS SHEET

RETURN AIR

SUPPLY AIR

THERMOSTAT

BRITISH THERMAL UNIT

CUBIC FEET PER MINUTE

ENTERING AIR TEMPERATURE

EXTERNAL STATIC PRESSURE

LEAVING AIR TEMPERATURE

MOTOR OPERATED DAMPER

MANUAL VOLUME DAMPER

ACCESS DOOR

AD

AFF

BDD

BTU

CD

CFM

DB

EAT

ESP

LAT

MA

MOD

MTD

MVD

OA

RA

SA

SR

TG

(T)

RAG

INDOOR UNIT

TAG

ACCESSORIES

BASIS OF DESIGN AS NOTED OR EQUAL BY

BASIS OF DESIGN: AS NOTED;

EQUAL BY: SANYO, CARRIER

TRANE, YORK, LENNOX.

MODEL # APARTMENT SYSTEMS ALL BUILDINGS 600 | NOTE 9 | 0.50 | 1/3 | 17.8 | 12.8 | 14.0 | 80.0/67.0 | 17.8 | 8.0 | 5.0 | 25HCD4 018 | 1.5 | APARTMENTS 150 | 200 | 1 THRU 12 | FCU/HP-A | FFMA 018 800 | NOTE 9 | 0.50 | 1/3 | 23.0 | 17.4 | 14.0 | 80.0/67.0 | 23.0 | 7.8 | 5.0 | FCU/HP-B 2.0 150 | 200 | 1 THRU 12 FFMA 024 25HCD4 024 APARTMENTS 1000 NOTE 9 0.50 1/2 30.0 21.6 14.0 80.0/67.0 30.0 8.0 7.5 150 | 200 | 1 THRU 12 FCU/HP-C FFMA 030 25HCD4 030 2.5 APARTMENTS 8.0 | 7.5 | 3.0 APARTMENTS 1200 | NOTE 9 | 0.50 | 1/2 | 34.8 | 25.1 | 14.0 | 80.0/67.0 | 34.8 150 | 200 | 1 THRU 12 FFMA 036 25HCD4 036 CORRIDOR/AMENITY | 600 | NOTE 10 | 0.50 | 1/3 | 17.8 | 12.8 | 14.0 | 80.0/67.0 | 17.8 | 8.0 | 5.0 | 25HCD4 018 1.5

FCU/HP-D FCU/HP-1.5 | FX4D 019 150 | 200 | 1 THRU 14 4 2.0 800 | NOTE 10 | 0.50 | 1/3 | 23.0 | 17.4 | 14.0 | 80.0/67.0 | 23.0 | FCU/HP-2.0 | FX4D 025 25HCD4 024 CORRIDOR 7.8 | 5.0 | 150 | 200 | 1 THRU 14 1000 | NOTE 10 | 0.50 | 1/2 | 30.0 | 21.6 | 14.0 | 80.0/67.0 | 30.0 FCU/HP-2.5 | FX4D 031 25HCD4 030 2.5 CORRIDOR 8.0 | 8.0 | 150 | 200 | 1 THRU 14 8.0 | 8.0 | FCU/HP-3.0 | FX4D 037 25HCD4 036 3.0 l AMENITY 1200 NOTE 10 0.50 1/2 34.8 25.1 14.0 80.0/67.0 34.8 175 | 200 | 1 THRU 14 FCU/HP-4.0 | FX4D 049 4.0 1600 NOTE 10 0.50 3/4 46.2 35.0 14.0 80.0/67.0 46.2 8.0 10.0 200 | 275 | 1 THRU 14 25HCD4 048 AMENITY 5.0 | 1900 | NOTE 10 | 0.50 | 3/4 | 59.5 | 44.9 | 14.0 | 80.0/67.0 | 59.5 | 8.0 | 15.0 | | FCU/HP-5.0 | FX4D 061 125HCD4 060 225 | 300 | 1 THRU 14

NOTES

1. COOLING CAPACITIES ARE BASED ON ENTERING AIR TEMPERATURES SHOWN AT FAN COIL UNIT & 95°F db ENTERING AIR AT OUTDOOR UNIT. CAPACITIES OF UNITS SUBMITTED SHALL NOT BE LESS THAN 5% OF SCHEDULED VALUES INCLUDING LINE LOSSES - SEE ACCESSORY NOTE BELOW REGARDING LONG LINE SETS.

TOTAL OA | ESP | FAN '

CFM CFM

2. HEAT KW IS MINIMUM REQUIRED. 3. FCU WEIGHT INCLUDES ELECTRIC HEAT. INDICATE A TOTAL WEIGHT VALUE IN THE SUBMITTAL

4. SEER VALUE IS BASED ON ARI STANDARD 210 S. ESP VALUES DO NOT INCLUDE INTERNAL PRESSURE DROPS SUCH AS THE COOLING COIL, CASING, OR ELECTRIC HEAT

NOMINAL

SERVED

OUTDOOR UNIT

6. SUBMIT CLEARLY LABELED SHOP DRAWINGS INDICATING THE PROPOSED UNIT'S CAPACITIES. 7. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING SINGLE CIRCUIT OR DUAL CIRCUIT CONNECTIONS FOR SPLIT SYSTEMS.

8. UNIT SHALL HAVE R-410A REFRIGERANT. R-22 WILL NOT BE ACCEPTABLE. 9. OUTSIDE AIR IS PROVIDED THRU OPERABLE WINDOWS IN APARTMENT UNITS

10. SEE FLOOR PLANS FOR O.A. QUANTITIES.

11. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM LINE LENGTHS. 12. FAN COIL UNIT CABINETS SHALL HAVE A MAXIMUM CABINET LEAKAGE OF LESS THAN OR EQUAL TO 2%. UNIT SHALL BE CLEARLY LABELED BY THE MANUFACTURER WITH THIS INFORMATION.

1. STANDARD THROW-AWAY FIBERGLASS FILTER

2. FACTORY INSTALLED ELECTRIC HEAT WITH SINGLE POINT POWER FOR FCU. MANUFACTURER SHALL PROVIDE TRANSFORMER AS NECESSARY FOR BLOWER FAN.

3. ACCUMULATOR. FACTORY INSTALLED (OUTDOOR UNIT, HP)

4. 5-YEAR COMPRESSOR WARRANTY 5. BAKED ON ENAMEL FINISH

6. PROGRAMMABLE NEST THERMOSTAT 7. FILTER DRYER

8. ANTI-SHORT-CYCLE KIT

9. PROVIDE FCU WITH THERMAL EXPANSION VALVE AND TIME DELAY RELAY.

10. COMPRESSOR CRANKCASE HEATER 11. REFRIGERANT LINES SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION. PROVIDE LONG LINE REFRIGERATION LINE SET WHERE REQUIRED BY MANUFACTURER, — LINES SHALL BE SIZED BY MANUFACTURER TO MAINTAIN SCHEDULED CAPACITY. SHOW MANUFACTURER'S RECOMMENDED LINE SET SIZE IN SUBMITTALS. MANUFACTURER SHALL DETERMINE IF LONG LINE APPLICATION KIT IS REQUIRED.

PROVIDE DOCUMENTATION IN SHOP DRAWINGS. PROVIDE ALL ACCESSORIES REQUIRED BY THE MANUFACTURER FOR LONG LINE APPLICATIONS. 12. DISCONNECT SWITCH FOR EACH FCU FACTORY PROVIDED; DISCONNECT FOR EACH CONDENSING UNIT PROVIDED BY AND INSTALLED BY ELECTRICAL.

| 14. PROVIDE WITH GLOBAL PLASMA SOLUTIONS BI—POLAR IONIZATION DEVICE EQUAL TO GPS—GN, SEE O.A. CALCULATION WORK SHEETS ON SHEETS MO—03.

13. PROVIDE ACCESSORIES TO ALLOW UNIT TO OPERATE IN COOLING MODE AT LOW AMBIENT TEMPERATURES (DOWN TO AT LEAST 20°F).

 ${\sf CONTRACTOR}$  ITEMS  ${\sf COMMONLY}$  MISSED  ${\sf BU}^{\scriptscriptstyle\mathsf{T}}$ **REQUIRED:** . DUCT LINER SHALL BE SEALED AT ALL JOINTS WITH MASTIC AS APPROVED BY

2. LINER IS NOT A SUBSTITUTE FOR INSULATION. 3. EQUIPMENT & DUCTWORK SHALL BE

LINER MANUFACTURER. SEE GENERAL

NOT ALLOW THE INSIDE OF DUCT & LINER TO GET DIRTY. ACCESS PANELS WHERE INDICATED. 5. CONTRACTOR SHALL SELECT EQUIPMENT TO MEET PERFORMANCE REQUIREMENTS IN SCHEDULES AND NOT BASED ON MODEL NUMBERS OR NOMINAL VALUES. MODEL

NUMBERS/NOMINAL VALUES ARE A GUIDE.

KEPT CLEAN FROM DIRT & DEBRIS. DO

# DUCTLESS SPLIT SYSTEMS

TAG	AREA SERVED	MITSUBISHI MODEL # AHU/CU	NOMINAL TONS	TOTAL CFM	OA CFM	COIL EAT DB/WB	TOTAL COOL, MBH	SENS. COOL, MBH	HEAT MBH	SEER	MAX. WEIGHT LBS		NOTES	ACCESSORIES
											FCU	CU		
OSFC-EV/DSHP-EV	ELEVATOR SHAFT	PKA-A18HA/PUZ-A18NHA3	1.5	370	0	80/67	18.0	13.5	19.0	15.2	30	99	1,2,3	1,2,3,4,5,6,7
NOTES:														

COOLING CAPACITIES BASED ON 95° F db AIR ENTERING OUTDOOR UNIT COOLING CAPACITIES SCHEDULED IS AN ARI RATED CAPACITY. UNIT SHALL BE ARI RATED

UNIT IS A DUCTLESS SPLIT SYSTEM WALL MOUNT FCU

4. UNIT IS A DUCTLESS SPLIT SYSTEM CEILING RECESSED FCU 5. UNIT SHALL BE INVERTER DUTY-VARIABLE CAPACITY.

ACCESSORIES:

1. FILTER DRYER.

. ROUTE CONDENSATE AS SHOWN ON PLANS; PROVIDE CONDENSATE PUMP AS REQUIRED.

CLEANABLE FILTERS 4. WALL MOUNTED T'STAT IN LOCKING COVER

MOUNTING KIT FOR FAN COIL UNIT 6. COOLING OPERATION DOWN TO 20 DEGREES. PROVIDE ALL MANUFACTURER RECOMMENDED ACCESSORIES NECESSARY TO ACCOMODATE THE LOW AMBIENT COOLING.

REFRIGERANT LINES SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION. PROVIDE LONG LINE REFRIGERATION LINE SET WHERE REQUIRED BY MANUFACTURER. — LINES SHALL BE SIZED BY MANUFACTURER TO MAINTAIN SCHEDULED CAPACITY. SHOW MANUFACTURER'S RECOMMENDED LINE SET SIZE IN SUBMITTALS. MANUFACTURER SHALL DETERMINE IF LONG LINE APPLICATION KIT IS REQUIRED. PROVIDE DOCUMENTATION IN SHOP DRAWINGS. PROVIDE ALL ACCESSORIES REQUIRED BY THE MANUFACTURER FOR LONG LINE APPLICATIONS.

## SHOP DRAWINGS NOTES:

ISHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: NEW EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS OR SPECS INCLUDING, BUT NOT LIMITED TO SPLIT SYSTEMS. DIFFUSERS, FANS, DUCTWORK, DUCT INSULATION, AND DUCT LINER, ETC.

ISHOP DRAWINGS SHALL HAVE THE EQUIPMENT SUBMITTALS CLEARLY LABELED TO MATCH THE EQUIPMENT UNIT DESIGNATION ("TAG" AS NOTED IN SCHEDULE) SHOWN ON THE DRAWINGS. PROVIDE ALL INFORMATION INDICATED IN THE SCHEDULES OR ON THE DRAWINGS. CLEARLY ADDRESS ALL NOTES AND ACCESSORIES IN THE SCHEDULES.

SUBMIT ALL EQUIPMENT TOGETHER IN A CLEARLY LABELED AND ORGANIZED MANNER AT THE SAME TIME (IN SAME SUBMITTAL PACKAGE) OR ALL EQUIPMENT WILL BE REJECTED REGARDLESS OF LEAD TIMES OR DIFFERENT EQUIPMENT SUPPLIERS. NO EXCEPTIONS ALLOWED! IF THE ORIGINAL SUBMITTALS HAVE BEEN REVIEWED AND MARKED AS "REJECTED" OR "REVISE AND RESUBMIT." THEN ONLY THE EQUIPMENT THAT IS REQUIRED BY ENGINEER TO BE RESUBMITTED SHOULD BE RESUBMITTED AGAIN (DO NOT RESUBMIT EQUIPMENT NOTED AS "APPROVED" OR "EXCEPTIONS NOTED"). IF MULTIPLE ITEMS WERE NOT APPROVED. RESUBMIT ITEMS THAT NEED TO BE REVIEWED AGAIN AT THE SAME TIME OR THEY WILL BE REJECTED AGAIN.

### FANS

L														
	TAG	GREENHECK MODEL NO.	TYPE	DUTY	CFM	ESP	POWER	FAN RPM	MAX. SONES	DRIVE	WEIGHT (LBS)	CONTROLS	ACCESSORIES	NOTES
1	TEF-A	PANASONIC FV-05VFL2	CEILING MOUNTED	APARTMENT TOILET EXHAUST	50	0.15"	16.5 W	917	2.0	DIRECT	15	A	1,2,4	1,2
	TEF-B	SP-A90	CEILING MOUNTED	AMENITY TOILET EXHAUST	70	0.15"	48 W	746	2.0	DIRECT	15	A	1,2,3,4	1,2
	TEF-C	SP-A200	CEILING MOUNTED	AMENITY TOILET EXHAUST	210	0.125"	60 W	900	3.0	DIRECT	20	A	1,2,3,4	1,2
	EF-T	SP-A70	CEILING MOUNTED	TRASH DROP OFF ROOM	50	0.15"	20 W	850	1.4	DIRECT	12	В	1,2,3,4	1,2
	EF-TR	GB-121-4	ROOF DOWNBLAST	TRASH COMPACTOR RISER	780	0.30"	2.0 HP	693	27	BELT	115	) (၁	1,2,5	1,2
	GEF-A	PENNBARRY PNB04209122	HORIZONTAL PROPELLER	GARAGE EXHAUST	6,1857 20,617	0.30"	5.0 HP	956	70	BELT	200	D	9	1,2
	GEF-B	PENNBARRY	HORIZONTAL PROPELLER	GARAGE EXHAUST	6,185/ 20,617	0.30"	5.0 HP	956	70	BELT	200	D	9	1,2
	EF-P	BSQ-70-4	IN-LINE	POOL EQUIPMENT ROOM	220	0.5"	1/4 HP	1600	14.0	) BELT	) 75	) E	1,2,6,7,8,10	1,2,3
	EF-J	SP-A190	CEILING MOUNTED	JANITOR/MAINTENANCE ROOM	150	0.15"	113 W	1400	2.0	DIRECT	17	F	1,2,3,4	1,2
	EF-D	SP-A190	CEILING MOUNTED	DOG WASH	100	0.15"	113 W	1400	2.0	DIRECT	17	F	1,2,3,4	1,2
	CONTROLS:			ACCESSORIES:		•	•		N	OTFS:				

A. WIRE INTO WALL SWITCH (SEE ELECTRICAL). B. FAN SHALL RUN CONTINUOUSLY. PROVIDE FAN SWITCH IN TRASH DROP OFF ROOM WITH LOCKING COVER. C. FAN SHALL RUN CONTINUOUSLY AS INDICATED ON FLOOR PLANS, PROVIDE SWITCH IN TRASH COMPACTOR ROOM.

D. FAN TO BE CONTROLLED BY CARBON MONOXIDE/NITROGEN

OPFRATION.

DIOXIDE AND OCCUPANCY SENSOR SYSTEM. SEE MO-03 FOR ADDITIONAL INFORMATION.

E. WALL SWITCH, SEE FLOOR PLANS FOR SEQUENCE OF F. 0-60 MINUTE TIMER.

BACKDRAFT DAMPER AT FAN DISCHARGE. 2. DISCONNECT SWITCH. . PROVIDE WITH FACTORY C.R.D. 4. PROVIDE WITH MATCHING WALL CAP.

SPRAY TEST PER ASTM B-117-97.

5. PROVIDE 12" INSULATED ROOF CURB. 6. INTEGRAL THERMAL OVERLOAD PROTECTION. . BIRDSCRFFN AT FAN INLFT. 8. FAN HANGING KIT WITH NEOPRENE PAD VIBRATION

9. FAN SHALL HAVE WASH DOWN MOTOR (MOTOR EXPOSED TO RAIN AND WEATHER), MOTOR ABOVE BLADES, HORIZONTAL MOUNTING KIT. SEE MO-03 FOR ADDITIONAL INFORMATION. 10. PROVIDE WITH MOTOR OUT OF AIRSTREAM AND PROVIDE A COATING ON ALL COMPONENTS IN CONTACT WITH THE AIR STREAM AND THE OUTER CABINET, COATING (EPOXY. PHENOLIC, POLYSETER, ETC.) SHALL PASS A 1000 HR SALT

BASIS OF DESIGN: AS NOTED.

EQUAL BY: COOK, PENN.

RESISTANT COATING.

1. SONE VALUES ARE VALUES MEASURED 5 FT FROM THE

FAN - OPEN ENDED. SONE VALUES MUST NOT EXCEED

2. FAN SHALL BE AMCA CERTIFIED FOR SOUND AND

3. FAN SIZED FOR 20 ACH. PROVIDE AMCA TYPE B

SPARK RESISTANT CONSTRUCTION AND CORROSION

SCHEDULED AMOUNT BY MORE THAN 10%.

PERFORMANCE AND SHALL BE UL LISTED.

### BI-POLAR IONIZATION AIR PURIFICATION UNITS ASSOCIATED TOTAL OA PRESSURE | VOLTAGE | WATTS | TAG NOTES CFM CFM DROP MODEL NO. AIR HANDLER APU-A | GPS MODEL RN | FCU-3.0 (DOG SPA) | 1200 | 200 | 0.05" | 24VAC | 0.24 | 1,2,3

. BASIS OF DESIGN IS GLOBAL PLASMA SOLUTIONS (GPS). APPROVED EQUALS BY AIRGENICS AND BIOXGEN ONLY. SUBMITTALS FOR PRODUCTS BY MANUFACTURERS OTHER THAN GPS MUST PROVIDE DETAILED CALCULATIONS SHOWING THAT LEVELS OF TYPICAL OA CONTAMINANTS WILL BE BELOW RECOMMENDED LEVELS.

2. UNIT SCHEDULED IS A BIPOLAR ION GENERATOR. UNIT SHALL BE MOUNTED AT THE AIR HANDLING UNIT. UNIT SHALL BE INSTALLED AND WIRED BY THE MECHANICAL CONTRACTOR. 3. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE 4. POWER UNIT FROM FCU. UNIT SHALL BE ENERGIZED ANYTIME FAN IN FCU IS ENERGIZED. 5. AIR PURIFICATION UNITS SHALL COMPLY WITH UL 867-2007, INCLUDING THE CLOSED CHAMBER OZONE TEST.

#### ELECTRIC HEATERS BASIS OF DESIGN: AS NOTED; EQUAL BY: MARKEL Q-MARK BERKO BY: MARKEL, Q-MARK, BERKO TYPE CFM MAKE & MODEL SERVES ACCESSORIES NOTES 1,2 EWH-1.5 raywall afa WALL MTD 125 | 1.5 SEE DWGS 1,2,3,4 310 3.0 SEE DWGS 1,2,3,4 1,3 EWH-3.0 raywall afa WALL MTD

1. UNITS SHALL BE MADE OF STEEL. 2. MOUNT SO THAT BOTTOM OF UNIT IS 12" AFF 3. HANG UNIT SO THAT TOP OF UNIT IS 12" BELOW CLG.

1. PROVIDE UNIT WITH INTEGRAL T'STAT AND DISCONNECT 2. AUTO - RESET THERMAL OVERLOADS 3. TAMPER PROOF CONTROLS 4. WALL MOUNT KIT (RECESSED WHERE SHOWN ON PLANS)

### HVAC GENERAL NOTES

MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2012 INTERNATIONAL MECHANICAL CODE, THE 2012 INTERNATIONAL BUILDING CODE, THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE, AND ALL APPLICABLE LOCAL CODES, AMENDMENTS AND ORDINANCES.

PRIOR TO PURCHASING MATERIALS OR STARTING WORK, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. VERIFY DUCTWORK SIZES, DUCTWORK LOCATIONS, EQUIPMENT SIZES. EQUIPMENT LOCATIONS. VOLTAGES. ETC. SHOWN ON THE DRAWINGS OR CONDITIONS AFFECTING THIS WORK. REPORT ANY DEVIATIONS TO THE ARCHITECT.

. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR THAT A FACE TO FACE MEETING IS REQUIRED BETWEEN ELECTRICAL AND MECHANICAL CONTRACTORS PRIOR TO ORDERING AND INSTALLING EQUIPMENT TO COORDINATE VOLTAGE, PHASE, AMPS, AND OTHER ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT. AFTER THIS MEETING HAS OCCURRED THE GENERAL

4. FOR UL LISTED EQUIPMENT, CONTRACTOR SHALL SUBMIT AN ADDITIONAL REVIEW TO THE ARCHITECT TO CONFIRM THAT THE EQUIPMENT BEING SUBMITTED IS UL LISTED FOR THE APPLICABLE UL ASSEMBLIES AS LISTED ON THE ARCHITECT'S DRAWINGS.

5. IF THE CONTRACTOR REQUESTS THE ENGINEER'S CAD DRAWINGS OR IF THE DRAWINGS ARE REQUESTED BY OTHERS TO BE USED BY CONTRACTOR (FOR AS-BUILTS, COORDINATION, ETC.), DRAWINGS SENT OUT (BY THE ENGINEER) WILL BE OF FLOOR PLANS AND SECTIONS, BUT WILL NOT HAVE DETAILS, GENERAL NOTES, SCHEDULES, OR OTHER ITEMS DEEMED PROPRIETARY BY THE ENGINEER.

. Contractor shall coordinate electrical characteristics and requirements of mechanical equipment with electrical drawings prior to ordering equipment or submitting shop drawings

MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT

CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS, AND ELECTRICAL DRAWINGS. 8. INCLUDE CONTROL WIRING AS A PART OF THE MECHANICAL WORK; UNLESS SHOWN ON THE ELECTRICAL DRAWINGS. CONTROL WIRING INCLUDING THERMOSTAT WIRING SHALL BE PLENUM RATED (MEETING THE

25/50 FLAME AND SMOKE DEVELOPED RATING OF ASTM E84) 9. UNLESS NOTED OTHERWISE, STARTERS, SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE

INSTALL MECHANICAL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

MECHANICAL CONTRACTOR.

11. GUARANTEE MECHANICAL EQUIPMENT AND SYSTEMS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.

CONTRACTOR SHALL PROVIDE NOTICE IN WRITING THAT THIS MEETING HAS OCCURRED AND ANY DISCREPANCIES HAVE BEEN RESOLVED.

12. PROVIDE HVAC COMPRESSORS WITH AN EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.

AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN ON THE ELECTRICAL DRAWINGS.

13. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF OUTDOOR AIR CONDITIONING UNITS.

14. INSTALL OUTDOOR AIR CONDITIONING EQUIPMENT LEVEL AS SHOWN IN DETAIL.

15. DUCT INSULATION: FIBERGLASS DUCT WRAP, WITH FOIL FACED VAPOR BARRIER INSULATION SHALL BE U.L. LISTED. GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II. WITHOUT FACING AND WITH ALL-SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRIM, ALUMINUM FOIL, AND VINYL FILM. JOHNS MANVILLE, OWENS CORNING, OR EQUAL. IF DUCTWORK SUPPORT STRAPS ARE ATTACHED TO THE DUCT, THEN LOCATE STRAPS INSIDE THE INSULATION AND SEAL WITH MASTIC AT PUNCTURE. ALL PUNCTURES (STAPLES) AND PENETRATIONS OF THE FOIL VAPOR BARRIER SHALL BE SEALED AIRTIGHT WITH FOIL TAPE AND/OR MASTIC - DO NOT USE DUCT TAPE (FABRIC OR CLOTH TYPE EVEN IF IT HAS A FOIL FACE). MASTIC MUST BE APPLIED THICK ENOUGH TO COMPLETELY COVER STAPLES. PERIMETER JOINTS SHALL BE FORMED SUCH THAT THE INSULATION ON THE TOP OF THE DUCT OVERLAPS THE INSULATION ON THE SIDES AND THE SIDES OVERLAP THE BOTTOM. DO NOT COMPRESS THE INSULATION WITH SUPPORTS (STRAPS, HANGERS, ETC.) — WHERE NECESSARY PROVIDE RIGID BOARD (6 LB DENSITY) THE SAME THICKNESS AS THE INSULATION INSERTED INTO THE INSULATION AT THE HANGER.

16. APARTMENT UNIT DUCT: SUPPLY DUCTWORK SHALL BE CONSTRUCTED WITH FIBERGLASS DUCTBOARD HAVING THE FOLLOWING CHARACTERISTICS: FIBERGLASS DUCTWORK AND TAPING SYSTEM SHALL BE UL 181 LISTED AND SHALL BEAR THE UL LABEL. GLASS FABRIC REINFORCED VAPOR BARRIER. ALL FIBERGLASS DUCTWORK AND ACCESSORIES SHALL BE FABRICATED BY A MANUFACTURER'S AUTHORIZED FABRICATOR AND SHALL BE INSTALLED WITH THE FABRICATOR'S SUPERVISION AND ACCORDING TO THE MANUFACTURER'S RECOMMENDATION. SUPPLY DUCT LOCATED IN ATTIC OR TOP FLOOR FLOOR/CEILING ASSEMBLY SHALL BE 2' THICK, MINIMUM R=8.0, JOHNS MANVILLE TYPE 800 OR EQUAL. DUCT IN ALL OTHER AREAS (FLOOR SYSTEMS, RA PLENUMS) SHALL BE 1.5" THICK, MINIMUM R=6.0, JOHNS MANVILLE TYPE 800 OR EQUAL. TOILET EXHAUST AND DRYER EXHAUST DUCT SHALL BE SHEET METAL — SEE ADDITIONAL NOTES IN THIS LIST FOR DRYER EXHAUST DUCT REQUIREMENTS.

17. DUCT: DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE GUIDELINES OF SMACNA, 2005 EDITION. EXCEPT WHERE NOTED, ALL DUCTWORK MATERIAL SHALL BE GALVANIZED SHEETMETAL NOT LESS THAN 28 GAGE (0.019 INCHES) AND HAVING A ZINC COATING DESIGNATION OF G60 OR GREATER. DUCTS AND EQUIPMENT SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENTS TO STRUCTURE SHALL BE PER SMACNA STANDARDS. ALL EXHAUST DUCTS AND ALL RETURN DUCTS UNDER A NEGATIVE PRESSURE AND LOCATED IN CEILING PLENUMS SHALL BE CONSTRUCTED TO A MINIMUM PRESSURE CLASS OF NEGATIVE 1/2" W.C. AND ALL JOINTS SHALL BE SEALED TO A SEAL CLASS OF "C" AS DEFINED BY SMACNA. SUPPLY (CONDITIONED AIR) DUCTS SHALL BE CONSTRUCTED TO A PRESSURE CLASSIFICATION OF 2" W.C. AND SEALED TO A CLASS "C". ALL JOINTS AND SEAMS IN ALL DUCTWORK SHALL BE SEALED WITH DUCT SEALER, UL LISTED 181A OR 181B FOR TAPES AND MASTICS. DO NOT USE DUCT TAPE.

18. SHEETMETAL DUCT ELBOWS SHALL BE STANDARD RADIUS TYPE OR RECTANGULAR TYPE WITH SINGLE THICKNESS TURNING VANES. DO NOT USE RADIUS ELBOWS WITH A SQUARE THROAT. DO NOT USE TURNING

VANES ON RETURN, EXHAUST, OR OA DUCT ELBOWS UNLESS NOTED OR SPECIFICALLY SHOWN ON THE DRAWINGS. INSTEAD USE STANDARD RADIUS ELBOWS.

19. FLEXIBLE DUCT SHALL BE UL LISTED AS A CLASS I AIR DUCT COMPLYING WITH UL STANDARD 181. NFPA 90A & 90B AND HAVE A FLAME SPREAD RATING OF NOT OVER 25 AND A SMOKE DEVELOPMENT RATING OF NOT OVER 50. FLEXIBLE DUCT SHALL HAVE A POSITIVE OPERATING PRESSURE OF 10" MINIMUM. FLEXIBLE DUCT SHALL BE TESTED FOR A MAXIMUM INTERNAL OPERATING TEMPERATURE OF 200°F UNDER CONTINUOUS OPERATION AND SHALL BE RATED FOR A MINIMUM OF 5000 FPM AIR VELOCITY, INSULATION SHALL BE A MINIMUM OF 2" THICK 3/4 PCF DENSITY FIBERGLASS, SUPPLY DUCTS LOCATED IN THE ATTIC SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 8.0. ALL OTHER DUCTS SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 6.0. OUTER LINER SHALL BE A BI-DIRECTIONAL FIBERGLASS REINFORCED METALIZED VAPOR BARRIER. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED.

a. FLEXIBLE DUCT IN RESIDENTIAL AREAS SHALL HAVE A FULL 5-YEAR WARRANTY. INNER LINER SHALL CONSIST OF A FULLY-LAMINATED POLYESTER FILM INNER LINER ADHERED TO A SPRING STEEL WIRE HELIX. FLEXIBLE DUCT SHALL BE THERMAFLEX TYPE KM, FLEXMASTER TYPE 3M OR EQUAL.

b. FLEXIBLE DUCT IN COMMON AREAS SHALL HAVE A FULL 10-YEAR WARRANTY. INNER LINER SHALL CONSIST OF A CPE CORE PERMANENTLY BONDED TO A COATED SPRING STEEL WIRE HELIX (MIN. 041" THICK). FLEXIBLE DUCT SHALL BE THERMAFLEX TYPE M-KE. FLEXMASTER TYPE 8M OR EQUAL.

20. ROUND AND FLEXIBLE DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH SPIN-IN OR DOVE-TAIL FITTINGS. ALSO PROVIDE BALANCING DAMPERS WHERE INDICATED IN THESE GENERAL NOTES AND ON THE DRAWINGS, DO NOT PROVIDE A SCOOP FITTING.

21. DUCT LINER: SHEET METAL DUCTWORK SHOWN OR CALLED OUT AS BEING INTERNALLY LINED SHALL BE LINED WITH 1" THICK 1-1/2 LB./CU. FT. DENSITY DUCTLINER, R=4.2 PER INCH, MANVILLE LINACOUSTIC OR EQUAL, DUCT LINER SHALL MEET REQUIREMENTS OF NFPA 90A & 90B, FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50, MEET ASTM G-21 AND G-22, A MIN NOISE REDUCTION COEFFICIENT OF 0.70. LINE ALL DUCTWORK MIN. 10'-0" DOWNSTREAM OF ALL AIR HANDLING UNITS OR RTUS UNLESS NOTED OTHERWISE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEAL ALL EDGES, SEAMS, RIPS, TEARS, ETC COMPLETELY (NO OPENINGS ALLOWED) WITH MANUFACTURER RECOMMENDED SEALER. A SEALER SHALL BE APPLIED AS NOTED ABOVE REGARDLESS OF DIRECTION BY MANUFACTURER, NOTE: LINER IS NOT A SUBSTITUTE FOR INSULATION UNLESS SPECIFICALLY NOTED TO BE.

22. PORTIONS OF DUCTWORK VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.

23. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INCREASE SIZE TO ACCOMMODATE LINER.

24. REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS. SUCTION PIPING SHALL BE INSULATED WITH 1/2" OR ¾" (VERIFY THICKNESS WITH ANY UL PENETRATION DETAILS) RUBATEX, ARMAFLEX, OR EQUAL PIPE INSULATION SLID OVER TUBING WITHOUT CUTTING, ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE. ALL SEAMS AND JOINTS MUST BE SEALED COMPLETELY, PROVIDE INSULATION PIPE HANGER OR CLAMP SUPPORTS TO AVOID COMPRESSION OF INSULATION, SUPPORTS SHALL BE EQUAL TO ARMACELL ARMAFIX INSULATION PIPE HANGERS. DO NOT LEAVE SECTIONS OF PIPE UNINSULATED. ALL INSULATION LOCATED OUTSIDE SHALL HAVE TWO COATS OF WEATHER RESISTANT LIQUID COATING WHICH SHALL BE A SOLUTION SUCH AS WB/ARMAFLEX FINISH, FOSTER TITE-FIT COATING OR AS RECOMMENDED BY THE INSULATION MANUFACTURER. INSULATE THE VAPOR LINE THE ENTIRE LENGTH. ROUTE PIPE AS STRAIGHT AS POSSIBLE BETWEEN THE TWO UNITS (AHU & HP) TO PROVIDE FOR SHORTEST DISTANCE. ALL REFRIGERANT LINES SHALL BE ROUTED IN WALLS OR ABOVE CEILING (NOT EXPOSED). PIPE SHALL BE SUPPORTED OUTSIDE ON GRADE OR ROOF WITH WITH PIPE CLAMPS OR HANGERS ATTACHED TO UNISTRUT OR CHANNEL SUPPORTS. DO NOT ALLOW SUPPORTS AND PIPE TO BE OF DISSIMILAR METALS IN CONTACT WITH EACH OTHER. CONTRACTORS SHALL GET IN WRITING FROM MANUFACTURER THEIR RECOMMENDATION FOR PIPE SIZING AND ROUTING. DO NOT ALLOW THE LIQUID AND VAPOR LINES TO COME IN CONTACT WITH EACH OTHER.

20. CONDENSATE PIPING SHALL BE CPVC. CONDENSATE SHALL BE PUMPED AS REQUIRED. IF CPVC IS USED IN AN HVAC RETURN AIR PLENUM THEN THE PIPE SHALL HAVE THE FOLLOWING CHARACTERISTICS: BE NON COMBUSTIBLE BY HAVING A FLAME AND SMOKE DEVELOPED RATING OF 25/50 (OR LOWER) WITHOUT BEING WATER FILLED. CONTRACTOR SHALL PROVIDE A CUTSHEET STATING THESE CHARACTERISTICS TO THE LOCAL CODE OFFICIAL IF REQUESTED.

21. TEST AND BALANCE (TAB): AFTER CONSTRUCTION, THE ENTIRE COMMON AREA SYSTEMS, INCLUDING THE EXHAUST AND RETURN AIR SYSTEMS SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED TEST AND BALANCE REPORT TO ARCHITECT AND ENGINEER FOR APPROVAL. EXHAUST AND RETURN SYSTEMS UNDER NEGATIVE PRESSURE SHALL NOT EXCEED BY MORE THAN 10% FOR EACH FAN AND BY NO MORE THAN 10% AT EACH INLET OF THE VALUES INDICATED ON THE DRAWINGS. TEST AND BALANCE SHALL BE DONE PRIOR TO OPERATING THE HVAC EQUIPMENT. HVAC EQUIPMENT SHALL ONLY BE TURNED ON BEFORE TEST AND BALANCE TO VERIFY OPERATION (AFTER VERIFICATION TURN EQUIPMENT OFF). AFTER TEST AND BALANCE SHUTDOWN THE EQUIPMENT UNTIL ENGINEER/ARCHITECT REVIEWS TEST AND BALANCE REPORT AND RESPONDS BACK WITH COMMENTS. TESTING AGENCY SHALL BE AABC OR NEBB CERTIFIED AND SHALL BE INDEPENDENT (NONAFFILIATED) FROM THE CONTRACTOR (INCLUDING SUBCONTRACTOR). THE CONTRACTOR SHALL INCLUDE IN THEIR SCOPE OF WORK ONE (1) FULL DAY (8 HOURS AT SITE) ON SITE WITH THE MECHANICAL ENGINEER OR OWNER OR AS DIRECTED BY THE ENGINEER TO SPOT CHECK OR REMEASURE AIRFLOWS, TEMPERATURES, ETC. TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AND THE TAB REPORT.

22. ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT THEIR OPERATING CONDITIONS.

23. ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.

24. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

25. THERMOSTATS SHALL NOT HAVE MERCURY. MOUNT THERMOSTATS 48" TO CENTERLINE AFF UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING COVER ASSEMBLIES FOR ALL THERMOSTATS.

26. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC.

27. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEM.

28. LABEL OUTSIDE EQUIPMENT WITH BLACK STENCILED LETTERING MINIMUM 2" LETTERING. INDICATING APARTMENT UNIT NUMBER, LABEL COMMON AREA FCU WITH THE NUMBER INDICATED IN ENGINEER'S PLANS. 29. DURING CONSTRUCTION AND PRIOR TO OPERATING HVAC SYSTEMS, PROVIDE 2" PLEATED FILTERS, 60% EFFICIENT, IN ALL UNITS. ALSO PROVIDE FILTER MEDIA AT RETURN DUCT INLET. AT TIME OF TEST AND BALANCE, REMOVE FILTER MEDIA, REMOVE PLEATED FILTERS, AND PROVIDE SCHEDULED/SPECIFIED FILTERS FOR HVAC SYSTEMS.

30. ACCESS DOORS IN CEILINGS/WALLS SHALL BE A MINIMUM OF 12X12, HINGED, AND FIRE RATED TO MATCH CEILING/WALL RATING. DUCT ACCESS DOORS SHALL BE DOUBLE WALL IF INSTALLED ON SUPPLY DUCT, AND PROVIDED WITH THUMB LATCHES FOR AN AIR TIGHT FIT.

31. DUCT ACCESS DOOR SHALL BE SIZE AS INDICATED ON DRAWINGS AND SHALL HAVE THE FOLLOWING: CLOSED CELL NEOPRENE GASKET BONDED TO THE DOOR, HAND KNOBS WITH ZINC COATED SPRINGS INSTALLED BETWEEN THE INNER AND OUTER DOORS, AN INNER AND OUTER DOOR, INSULATED BETWEEN INNER AND OUTER DOORS, TESTED TO 5" W.C. DOORS SHALL BE UNITED MCGILL OR EQUAL.

32. PROVIDE MVDs AT TAKE-OFFS, WHERE ACCESSIBLE CEILING (LAY-IN) IS PROVIDED, OF RUNOUTS TO DIFFUSERS AND WHERE SHOWN ON PLANS. WHERE BALANCING DAMPERS ARE ALSO PROVIDED AT THE

SUPPLY GRILLE/DIFFUSER (SEE SCHEDULE), BALANCE THE SYSTEM WITH THE DAMPER AT THE TAKE—OFF (NOT AT GRILLE). GRILLE DAMPER SHOULD BE 100% OPEN AFTER TEST AND BALANCE.

33. ROUTE DUCT HIGH AS POSSIBLE UNDER JOIST/ROOF SUPPORT. DUCT SUPPORTS/HANGERS SHALL BE ATTACHED TO THE TOP CHORD OF JOISTS.

34. FIRESTOPPING: PIPE AND DUCT PENETRATIONS OF FIRE AND OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO THE ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M CO. CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/ STRIP, OR PSS 7900 SERIES SYSTEM AS RECOMMENDED BY MFG. FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.

35. CONTROL FOR THERMOSTATS CONTROLLING MOTOR OPERATED DAMPERS AND FANS CAN BE EITHER 120 V OR 24 VOLT. PROVIDE CONTROL TRANSFORMER WHERE REQUIRED. INSTALL 120 VOLT WIRING IN CONDUIT. ROUTE WIRING IN WALLS WHERE AVAILABLE.

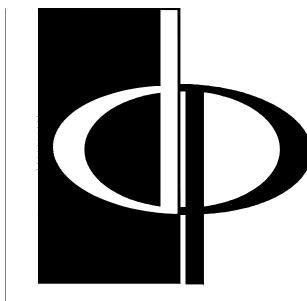
36. FIRE DAMPERS SHALL BE TYPE B (BLADES OUT OF AIRSTREAM) UNLESS NOTED OTHERWISE IN DETAILS.

37. ROOF ASSOCIATED WORK SHALL BE DONE BY THE LANDLORDS/OWNERS APPROVED ROOFING CONTRACTOR. COORDINATE WITH THE LANDLORD/OWNER PRIOR TO START OF WORK.

38. REFRIGERANT PIPE ROUTED THRU A WALL SHALL BE SLEEVED WITH A PVC SCHEDULE 40 OR GREATER PIPE AT LEAST 1/2" LARGER THAN THE PIPE (WITH INSULATION). ONE SLEEVE CAN ACCOMMODATE A LIQUID. SUCTION AND T'STAT WIRE. CAULK AS NECESSARY AROUND AND INSIDE SLEEVE TO PRESERVE WALL INTEGRITY.

39. DUCTWORK FOR DRYER EXHAUST SHALL BE SHEET-METAL. THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS SHALL EXTEND IN THE DIRECTION OF FLOW. CLOTHES DRYER TRANSITION DUCTS SHALL BE LIMITED TO 4 FT IN LENGTH AND SHALL BE LISTED AND LABELED FOR THE APPLICATION, TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION, TRANSITION DUCTS SHALL BE TRIMMED TO BE AS SHORT AS POSSIBLE AND STILL PROVIDE SWEEPING TURNS. SHEET-METAL DUCT SHALL BE INSTALLED SO THAT THE LONGITUDINAL SEAMS ARE ON THE TOP OF THE DUCT (NOT ON BOTTOM) MECHANICAL CONTRACTOR SHALL INSTALL A PERMANENT PLAQUE STATING "THE TOTAL EQUIVALENT LENGTH OF THE DRYER EXHAUST DUCT IS \_\_\_ FT". THE LENGTH SHOWN ON THE PLAQUE SHALL MATCH THE LENGTH SHOWN ON THE HVAC PART PLAN FOR THAT UNIT TYPE. THE PLAQUE SHALL BE LOCATED WITHIN 6 FT OF THE DRYER EXHAUST DUCT CONNECTION.

> ~~~~~~ REVISION #1 SUMMARY - FM COMMENTS REVISED FAN SCHEDULE.



A MULTI-DISCIPLINARY DESIGN FIRM

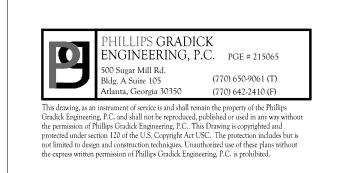
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ISSUES & /#\- REVISIONS \_\_\_ CONCEPTUAL DESIGN SD PROGRESS SET 09/28/15 GMP PRICING SET 10/14/15 FOUNDATION PACKAGE 12/07/15 GMP PACKAGE

PERMIT SET

1 FM COMMENTS

DATE ----05/22/2017 149310<sup>2</sup>

**GENERAL NOTES AND** SCHEDULES - HVAC

M0-01

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