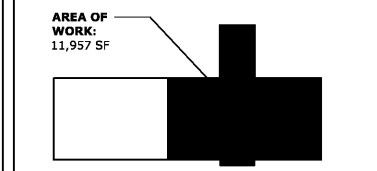


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- GENERAL NOTES:**
- REFER TO CONNECTION SCHEDULES FOR THIS SHEET FOR CIRCUIT DESIGNATIONS, WIRE AND CONDUIT SIZE, DISCONNECT MEANS, AND OTHER ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT.
 - COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS.
 - SEE DETAIL SHEET E7-1 FOR APPLICABLE HVAC ROUGH-IN DETAILS.
 - RISE UP CONCEALED INSIDE ROOF CURBS FOR ALL ROOF TOP UNITS.
 - ALL EXTERIOR DISCONNECTS SHALL BE RATED NEMA 3R RATED.
 - HOME RUN CIRCUITS ARE SHOWN AS NOTED IN CONNECTION SCHEDULES. PROVIDE ALL BRANCH CIRCUITS, CONDUITS AND CONDUCTORS AS NECESSARY TO CONNECT ALL EQUIPMENT SHOWN ON THE CIRCUIT.



REVISIONS:

Date	Description

**CCSD
 I.T./TRAINING
 DEPARTMENT**

FOR
 COLUMBIA COUNTY SCHOOL DISTRICT

4395 RIVERWATCH PARKWAY
 EVANS, GA 30809

DRAWING TITLE
MECHANICAL PLAN

PROJECT NO. 20-04C
 DATE 10/26/2020
 DRAWN BY JH
 PAPER 24"x36"
 ISSUE CD

DRAWING NO.
E4.0

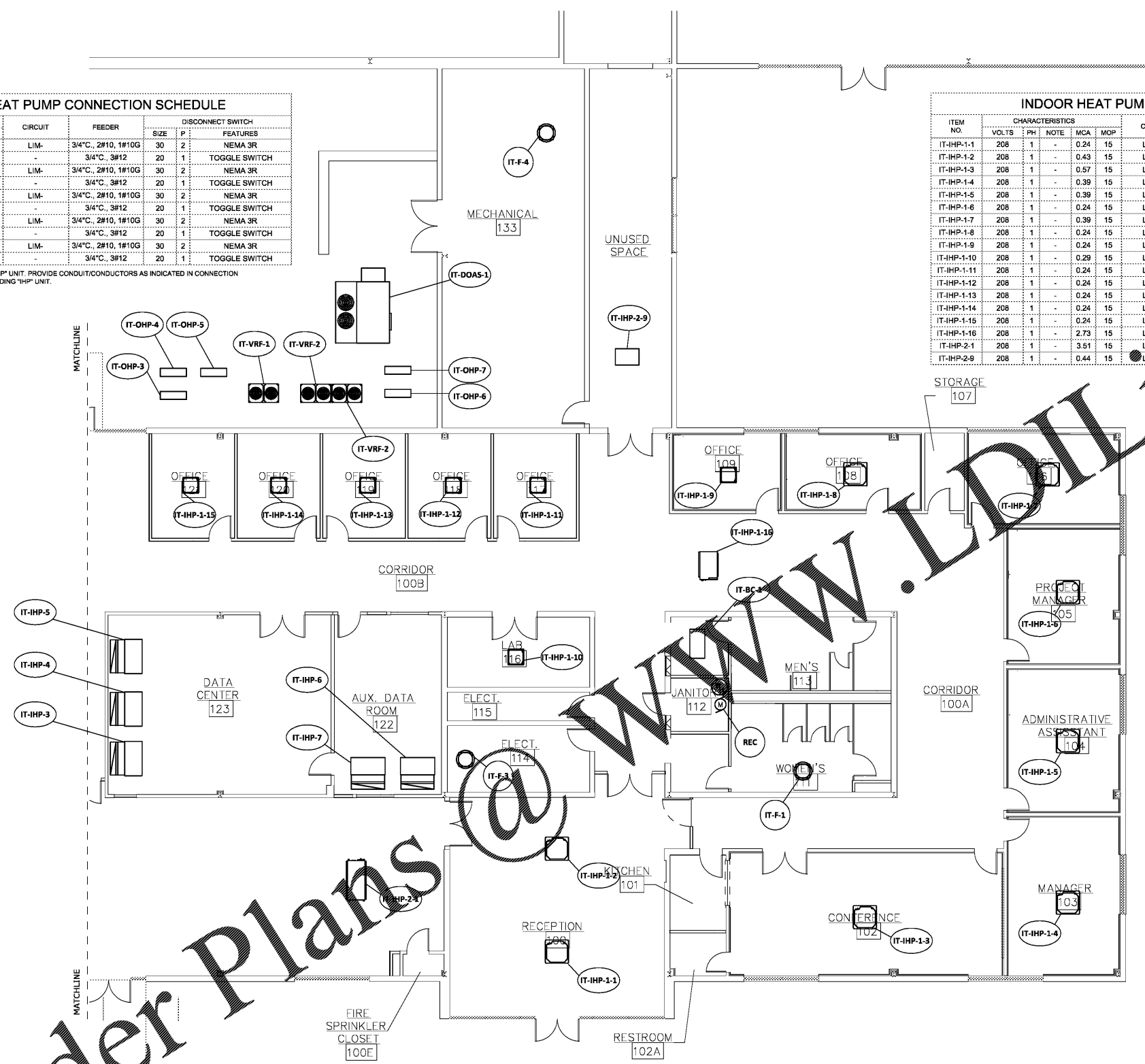
INDOOR/OUTDOOR HEAT PUMP CONNECTION SCHEDULE

ITEM NO.	CHARACTERISTICS				CIRCUIT	FEEDER	DISCONNECT SWITCH		FEATURES	
	VOLTS	PH	NOTE	MCA			MOP	SIZE		P
IT-OHP-3	208	1	-	25	30	LIM-	3/4"C, 2#10, 1#10G	30	2	NEMA 3R
IT-IHP-3	-	-	A	-	-	-	3/4"C, 3#12	20	1	TOGGLE SWITCH
IT-OHP-4	208	1	-	25	30	LIM-	3/4"C, 2#10, 1#10G	30	2	NEMA 3R
IT-IHP-4	-	-	A	-	-	-	3/4"C, 3#12	20	1	TOGGLE SWITCH
IT-OHP-5	208	1	-	25	30	LIM-	3/4"C, 2#10, 1#10G	30	2	NEMA 3R
IT-IHP-5	-	-	A	-	-	-	3/4"C, 3#12	20	1	TOGGLE SWITCH
IT-OHP-6	208	1	-	25	30	LIM-	3/4"C, 2#10, 1#10G	30	2	NEMA 3R
IT-IHP-6	-	-	A	-	-	-	3/4"C, 3#12	20	1	TOGGLE SWITCH
IT-OHP-7	208	1	-	25	30	LIM-	3/4"C, 2#10, 1#10G	30	2	NEMA 3R
IT-IHP-7	-	-	A	-	-	-	3/4"C, 3#12	20	1	TOGGLE SWITCH

NOTE: "A" - "IHP" UNIT IS FED FROM CORRESPONDING "OHP" UNIT. PROVIDE CONDUIT/CONDUCTORS AS INDICATED IN CONNECTION SCHEDULE FROM "OHP" UNIT TO CORRESPONDING "IHP" UNIT.

INDOOR HEAT PUMP CONNECTION SCHEDULE

ITEM NO.	CHARACTERISTICS				CIRCUIT	FEEDER	DISCONNECT SWITCH		FEATURES	
	VOLTS	PH	NOTE	MCA			MOP	SIZE		P
IT-IHP-1-1	208	1	-	0.24	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-2	208	1	-	0.43	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-3	208	1	-	0.57	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-4	208	1	-	0.39	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-5	208	1	-	0.39	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-6	208	1	-	0.24	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-7	208	1	-	0.39	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-8	208	1	-	0.24	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-9	208	1	-	0.24	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-10	208	1	-	0.29	15	LIM-26	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-11	208	1	-	0.24	15	LIM-26	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-12	208	1	-	0.24	15	LIM-26	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-13	208	1	-	0.24	15	LIM-26	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-14	208	1	-	0.24	15	LIM-26	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-15	208	1	-	0.24	15	LIM-26	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-1-16	208	1	-	2.73	15	LIM-26	3/4"C, 2#11, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-2-1	208	1	-	3.51	15	LIM-26	3/4"C, 2#11, 1#12G	20	2	2 POLE TOGGLE SWITCH
IT-IHP-2-9	208	1	-	0.44	15	LIM-26	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH



VRF OUTDOOR UNIT CONNECTION SCHEDULE

ITEM NO.	CHARACTERISTICS				CIRCUIT	FEEDER	DISCONNECT SWITCH		FEATURES	
	VOLTS	PH	NOTE	MCA			MOP	SIZE		P
IT-VRF-1	480	-	-	22	30	HI-25	1"C, 3#8, 1#10G	60	3	NEMA 3R
IT-VRF-2	480	-	A	19	30	HI-26	3/4"C, 3#10, 1#10G	30	3	NEMA 3R
IT-VRF-2	480	-	A	19	30	HI-20	3/4"C, 3#10, 1#10G	30	3	NEMA 3R

BRANCH CONTROLLER CONNECTION SCHEDULE

ITEM NO.	CHARACTERISTICS				CIRCUIT	FEEDER	DISCONNECT SWITCH		FEATURES	
	VOLTS	PH	NOTE	MCA			MOP	SIZE		P
IT-BC-1	208	1	-	1.57	15	LIM-22	3/4"C, 2#12, 1#12G	20	2	2 POLE TOGGLE SWITCH

DEDICATED OUTDOOR AIR UNIT CONNECTION SCHEDULE

ITEM NO.	CHARACTERISTICS				CIRCUIT	FEEDER	DISCONNECT SWITCH		FEATURES	
	VOLTS	PH	NOTE	MCA			MOP	SIZE		P
IT-DOAS-1	480	3	-	31.6	40	HI-32	1"C, 3#8, 1#10G	-	-	PROVIDED WITH UNIT

FAN CONNECTION SCHEDULE

ITEM NO.	CHARACTERISTICS				CIRCUIT	FEEDER	DISCONNECT SWITCH		FEATURES	
	VOLTS	PH	NOTE	MCA			MOP	SIZE		P
IT-F-1	120	1	A	3.7	20	LIM-3	3/4"C, 2#12, 1#12G	-	-	PROVIDED WITH UNIT
IT-F-3	120	1	B	16	20	LIM-5	3/4"C, 2#12, 1#12G	-	-	PROVIDED WITH UNIT
IT-F-4	120	1	B	16	20	LIM-7	3/4"C, 2#12, 1#12G	-	-	PROVIDED WITH UNIT

NOTE: "A" - EXHAUST FAN IS CONTROLLED BY FACILITY MANAGEMENT SYSTEM.
 "B" - CONTROLLED BY THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL.
 INSTALLED BY ELECTRICAL. COORDINATE EXACT LOCATION AND HEIGHT WITH MECHANICAL PRIOR TO ROUGH IN.

WATER HEATER CONNECTION SCHEDULE

ITEM NO.	CHARACTERISTICS				CIRCUIT	FEEDER	DISCONNECT SWITCH		FEATURES	
	VOLTS	PH	KW	MCA			MOP	SIZE		P
WH	208	1	4.5	22	30	LIM-39	3/4"C, 2#10, 1#10G	30	2	NEMA 1
REC	120	1	-	2	20	LIM-1	3/4"C, 2#10, 1#12G	20	1	TOGGLE SWITCH

1 MECHANICAL PLAN
 E4.0 SCALE: 1/8" = 1'-0"