

LIGHT FIXTURES:

	"A" RECESSED LINEAR LIGHT FIXTURE AND TYPE
	"A" LIGHT FIXTURE AND TYPE - EMERGENCY
	"A" LIGHT FIXTURE AND TYPE - DUAL LEVEL SWITCHING
	"A" LIGHT FIXTURE AND TYPE - NIGHT LIGHT - UNSWITCHED
HORIZONTAL LINE IN SYMBOL INDICATES ORIENTATION OF CENTER "BASKET" IN ARCHITECTURAL FIXTURES WHERE APPLICABLE.	
	"A" RECESSED CAN LIGHT FIXTURE AND TYPE
	"A" SUSPENDED ROUND LIGHT FIXTURE AND TYPE
	"A" WALL MOUNTED LIGHT FIXTURE AND TYPE
	"A" SURFACE MOUNTED LINEAR LIGHT FIXTURE AND TYPE
	"A" SUSPENDED LINEAR LIGHT FIXTURE AND TYPE
	TRACK LIGHT AND TYPE
	CEILING AND WALL MOUNTED EXIT LIGHT AND TYPE (ARROW INDICATES CHEVRON DIRECTION(S) - FILLED SEGMENT INDICATES FACE DIRECTION(S))
	EMERGENCY LIGHT AND TYPE
	CEILING MOUNTED COMBINATION EXIT / EMERGENCY LIGHT AND TYPE
	WALL MOUNTED COMBINATION EXIT / EMERGENCY LIGHT AND TYPE
	EXTERIOR POLE MOUNTED LIGHT FIXTURE AND TYPE WITH NUMBER OF HEADS INDICATED ON DRAWINGS.

RACEWAYS:

	CONDUIT OR CIRCUIT CONCEALED IN CEILING OR WALL
	CONDUIT OR CIRCUIT CONCEALED IN FLOOR SLAB
	EXPOSED CONDUIT OR CIRCUIT
	EXPOSED METAL RACEWAY - WIREMOLD
	HOME RUN - LINES INDICATE NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS
	#14 WIRE
	#16 WIRE
	#18 WIRE
	SHEATHED CABLE
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC
	UNDERGROUND TELEPHONE
	OVERHEAD TELEPHONE

POWER EQUIPMENT:

	LIGHTING AND APPLIANCE PANEL
	DISTRIBUTION, FEEDER OR POWER PANEL
	DISCONNECT SWITCH
	MAGNETIC MOTOR CONTROLLER
	COMBINATION MAGNETIC MOTOR CONTROLLER
	ELEVATOR POWER MODULE
	TIME SWITCH
	LIGHTING CONTACTOR
	PHOTOCELL
	POWER POLE
	TRANSFORMER - THIN OUTLINE INDICATES EQUIPMENT PAD WHERE FLOOR MOUNTED

WIRING DEVICES AND OUTLETS:

	20 AMP, SINGLE POLE, 120/277 VOLT SWITCH
	THREE-WAY 120/277 VOLT SWITCH
	FOUR-WAY 120/277 VOLT SWITCH
	120/277 VOLT SWITCH WITH PILOT LIGHT
	KEYED 120/277 VOLT SWITCH
	WEATHERPROOF 120/277 VOLT SWITCH
	DOUBLE POLE, 120/277 VOLT SWITCH
	120/277 VOLT DIMMER SWITCH
	MOMENTARY CONTACT 120/277 VOLT SWITCH
	HAND-OFF-AUTO SELECTOR SWITCH
	MANUAL STARTER WITH THERMAL OVERLOADS
	120/277 VOLT SPRING WOUND TIMER SWITCH
	120/277 VOLT ELECTRIC TIMER SWITCH
	120/277 VOLT NARROW SWITCH
	LOW VOLTAGE SWITCH - REFER TO LIGHTING DEVICE SCHEDULE
	WALL MOUNT VACANCY SENSOR SWITCH AND TYPE
	WALL MOUNT VACANCY SENSOR AND TYPE
	CEILING MOUNT VACANCY SENSOR AND TYPE
	WALL MOUNT OCCUPANCY SENSOR SWITCH AND TYPE
	WALL MOUNT OCCUPANCY SENSOR AND TYPE
	CEILING MOUNT OCCUPANCY SENSOR AND TYPE
FOR ALL OCCUPANCY AND VACANCY DEVICES - REFER TO LIGHTING DEVICE SCHEDULE. OCCUPANCY SENSORS SHALL BE PROGRAMMED TO BE AUTOMATIC ON - AUTOMATIC OFF. VACANCY SENSORS SHALL BE PROGRAMMED TO BE MANUAL ON - AUTOMATIC OFF.	
	SIMPLEX, 20 A, 125 V, 2 P, 3 W, GROUNDING RECEPTACLE - NEMA 5-20R
	CEILING MOUNTED DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUNDING RECEPTACLE - NEMA 5-20R
	DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUNDING RECEPTACLE - NEMA 5-20R
	DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUND FAULT INTERRUPTER TYPE GROUNDING RECEPTACLE - NEMA 5-20R
	DOUBLE DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUND FAULT INTERRUPTER TYPE GROUNDING RECEPTACLE - NEMA 5-20R
	DUPLEX, 20 A, 125 V, 2 P, 3 W, GROUNDING TYPE RECEPTACLE WITH DUAL USB PORTS
	20AMP, 125V, 2P, 3W GROUNDING 4-PORT USB CHARGING OUTLET
	ADDITIONAL SPECIAL RECEPTACLE DESIGNATORS - REFER TO RECEPTACLE SCHEDULE OR PLAN NOTES FOR RECEPTACLE REQUIREMENTS.
	RECESSED RECTANGULAR FLOOR BOX - MAY INCLUDE DATA AND POWER - REFER TO FLOOR BOX SCHEDULE FOR DETAILS
	RECESSED ROUND FLOOR BOX - MAY INCLUDE DATA AND POWER - REFER TO FLOOR BOX SCHEDULE FOR DETAILS
	SURFACE MOUNTED FLOOR BOX - MAY INCLUDE DATA AND POWER - REFER TO FLOOR BOX SCHEDULE FOR DETAILS
	CLOCK OUTLET (RECEPTACLE)
	APPROPRIATE RECEPTACLE(S) ON STUBBED UP CONDUIT, OUTLET BOX TO BE FS BOX
	JUNCTION BOX 4" SQUARE UNLESS NOTED OTHERWISE
	JUNCTION BOX ON STUBBED UP CONDUIT
	PRE-FABRICATED MULTI-OUTLET ASSEMBLY - OUTLETS 12" O.C. UNLESS OTHERWISE NOTED - REFER TO SCHEDULE FOR ADDITIONAL REQUIREMENTS
	PUSHBUTTON STATION

FIRE ALARM:

	WATER FLOW SWITCH
	VALVE TAMPER SWITCH
	FAN SHUTDOWN RELAY
	FIRE ALARM RELAY
	FIRE ALARM STROBE - WALL MOUNTED
	FIRE ALARM STROBE - CEILING MOUNTED
	MANUAL FIRE ALARM PULL STATION
	FIRE ALARM BELL
	FIRE HORN AND STROBE - WALL MOUNTED
	FIRE HORN
	FIRE SPEAKER - CEILING MOUNTED
	FIRE SPEAKER - WALL MOUNTED
	FIRE SPEAKER AND STROBE - WALL MOUNTED

INSTALLATION HEIGHT OF ALL FIRE ALARM DEVICES SHALL BE AS REQUIRED BY THE LATEST EDITION OF NFPA 72. COORDINATE WITH EQUIPMENT MANUFACTURER BASED ON ACTUAL PROVIDED EQUIPMENT.

ELECTRICAL NOTATIONS:

AC	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE DEVICE BOTTOM TO BE 4" ABOVE COUNTERTOP BACKSPLASH
IG	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE ISOLATED GROUND DEVICE
SS	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE SURGE SUPPRESSION DEVICE
TR	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE TAMPER RESISTANT DEVICE
WP	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE WEATHER-PROOF ENCLOSURE
WPI	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE WEATHER-PROOF IN-USE ENCLOSURE
XP	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE EXPLOSION-PROOF ENCLOSURE
60"	DIMENSIONS ADJACENT TO ANY SYMBOL INDICATE MOUNTING HEIGHT TO CENTER OF DEVICE
(TIE)	INDICATES HOMERUNS WITH SAME CIRCUIT NUMBER TO BE WIRED TOGETHER ON SAME CIRCUIT.

ABBREVIATIONS:

AD	ACCESS DOOR
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
C	CONDUIT
CO	CLEANOUT
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	DOMESTIC COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DF	DRINKING FOUNTAIN
DN	DOWN
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FFCO	FINISHED FLOOR CLEANOUT
FGC	FINISHED GRADE CLEANOUT
FR	FIN TUBE RADIATION
FWCO	FINISHED WALL CLEANOUT
G	GROUND WIRE
HP	HYDRONIC HEAT PUMP
HW	HEAT PUMP
HW	DOMESTIC HOT WATER
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
OA	OUTSIDE AIR
OC	OVERCASTER
RA	RETURN AIR
SA	SUPPLY AIR
UH	UNIT HEATER
UNL	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
M	MICROPHONE OUTLET - WALL
M	MICROPHONE - MOUNT - FLOOR
A	LOCAL ANTENNA FEEDER
V	VENT VOLUME CONTROL

COMMUNICATIONS:

1	**TELEPHONE OUTLET - NUMBER INDICATES QTY OF CABLE AND JACK OUTLETS. WHERE NO NUMBER IS INDICATED, ONE CABLE AND JACK OUTLET IS STANDARD.
3/2	**DATA / TELEPHONE COMBINATION OUTLET - NUMBERS INDICATES QTY OF CABLE AND JACK OUTLETS FOR DATA/TELEPHONE. WHERE NO NUMBER IS INDICATED, TWO CABLES AND JACK OUTLETS IS STANDARD.
3	**DATA OUTLET - NUMBER INDICATES QTY OF CABLE AND JACK OUTLETS. WHERE NO NUMBER IS INDICATED, ONE CABLE AND JACK OUTLET IS STANDARD.
1	**WIRELESS ACCESS POINT.
1	**TELEVISION OUTLET - WALL MOUNT
** THESE OUTLETS REQUIRE 4" S - 3/4" BOX WITH SINGLE GANG PLASTER RING AND 90 DEGREE SWEEP ABOVE CEILING WITH DE-BURRED END	
	TELEPHONE TERMINAL CABINET ("TTC")
	TELEPHONE - POWER POLE
	MASTER CLOCK
	INTERCOM ADMINISTRATIVE CONTROL UNIT
	MUSIC SYSTEM AMP
	PAGING SYSTEM AMP
	WALL SPEAKER
	COMBINATION CLOCK SPEAKER
	CEILING SPEAKER
	COLUMN SPEAKER
	HORN TYPE SPEAKER
	MICROPHONE OUTLET - WALL
	MICROPHONE - MOUNT - FLOOR
	LOCAL ANTENNA FEEDER
	VENT VOLUME CONTROL
	DOOR ALARM CONTACT
	DOOR ALARM ANNUNCIATOR
	MONITOR JUNCTION BOX
	CLOSED CIRCUIT TELEVISION MONITOR
	CLOSED CIRCUIT TELEVISION CAMERA
	MOTION DETECTOR
	CLOSED CIRCUIT TELEVISION OUTLET

PLAN NOTATIONS:

	INDICATES DIRECTION OF NORTH
	DETAIL REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER
	PLAN NOTE REFERENCE
	INDICATES CONNECTION TO EXISTING SYSTEM
	SECTION REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER

SECURITY:

	DOOR ALARM CONTACT
	DOOR ALARM ANNUNCIATOR
	MONITOR JUNCTION BOX
	CLOSED CIRCUIT TELEVISION MONITOR
	CLOSED CIRCUIT TELEVISION CAMERA
	MOTION DETECTOR
	CLOSED CIRCUIT TELEVISION OUTLET

FLOOR BOX SCHEDULE:

PLAN MARK	MANUFACTURER	MODEL	DUPLEX COUNT	DATA COUNT	NOTES
FB1	HUBBELL	S1RPTPTT	2	1	PROVIDE WITH 4" SQUARE FLOOR COVER, (4) PRE-WIRED RECEPTACLES, (1) 4-PORT KEYSTONE PLATE.

PANELBOARD NOTES:

AC	AUXILIARY CONTACTS
AT	ARC-FAULT INTERRUPTING
EPD	EQUIPMENT PROTECTION DEVICE
EX	EXISTING CIRCUIT BREAKER
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER
HACR	HACK RATING
HLF	HANDLE LOCK-OFF
HLN	HANDLE LOCK-ON
IG	ISOLATED GROUND CIRCUIT
SR	SWITCH RATING
ST	SHUNT TRIP BREAKER

EXISTING ELECTRICAL EQUIPMENT NOTE:
THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID TO VERIFY ALL EXISTING CONDITIONS. THIS INCLUDES VERIFYING ALL EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT, PANELBOARDS, TIME CLOCKS, METERS, DISCONNECT SWITCHES, TRANSFORMERS, ETC... ANY EXISTING EQUIPMENT WHICH IS REUSED SHALL BE REFINISHED (CLEANED, CHECKED FOR PROPER OPERATION, ALL MARKINGS INCLUDING NAMEPLATES, PERMANENT MARKER WRITINGS, ETC., REMOVED, AND REPAINTED IF NECESSARY. ANY EXISTING EQUIPMENT WHICH IS REUSED SHALL COMPLY 100% WITH THE DESIGN PRESENTED ON THESE DRAWINGS AND WITH THE OWNER'S SATISFACTION, UNLESS DIRECTED OTHERWISE BY THE OWNER OR THE ARCHITECT.

PLAN HEX NOTES:
1 EXISTING 100A 3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL TO REMAIN.
2 EXISTING 125A 3P POLE PANEL TO REMAIN.
3 RELOCATE EXISTING 45 KVA TRANSFORMER. REFER TO SHEET E200.
4 EXISTING 125A 4P POLE PANEL TO REMAIN.
5 EXISTING CT CABINET AND METER TO REMAIN.

FEEDER SCHEDULE:

FEEDER TAG	FEEDER SIZE
124	SEE PANEL SCHEDULE
G45	4 #1, 1 - #6 G, 1.5" C #6 COPPER GEC

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL NAME: "H1" (EXISTING)	LOCATION: WORK AREA 104 FED BY: "" MOUNTING: SURFACE	VOLTAGE: 480/277V, 3PH, 4W ENCLOSURE: NEMA 1 MANUFACTURER: SQUARE D PANEL TYPE: NF	MAIN TYPE: MLO BUS RATING (A): 125 MCB RATING (A): N/A MIN. AIC RATING (A): 10000 A																
CKT	LOAD DESCRIPTION	C	W	G	CB	P	TYPE	A	B	C	TYPE	P	CB	G	W	C	LOAD DESCRIPTION	CKT	
1	"TF1"	1"	#4	--	70	3		8070	0								SPACE	2	
3	--	--	--	--	--	--			8145	4953			3	25	#10	3/4"	FTUE1 - HEAT & FAN	4	
5	--	--	--	--	--	--				8166	4953						--	6	
7	SPACE	--	--	--	--	--		0	4953								--	8	
9	SPACE	--	--	--	--	--		0	0								SPACE	10	
11	SPACE	--	--	--	--	--				0	0						SPACE	12	
13	SPACE	--	--	--	--	--		0	0								SPACE	14	
15	SPACE	--	--	--	--	--				0	0						SPACE	16	
17	SPACE	--	--	--	--	--				0	0						SPACE	18	
19	SPACE	--	--	--	--	--		0	0								SPACE	20	
21	SPACE	--	--	--	--	--				0	0						SPACE	22	
23	SPACE	--	--	--	--	--				0	0						SPACE	24	
25	SPACE	--	--	--	--	--				0	0						SPACE	26	
27	SPACE	--	--	--	--	--				0	0						SPACE	28	
29	SPACE	--	--	--	--	--				0	0						SPACE	30	
		CONNECTED PHASE LOAD						13023 VA	13098 VA	13119 VA				PANEL TOTALS					
		*PHASE DIVERSIFIED LOAD						13307 VA	13383 VA	13405 VA				TOTAL CONNECTED LOAD:			39240 VA		
		*PHASE DIVERSIFIED AMPS						48 A	48 A	48 A				TOTAL DIVERSIFIED LOAD:			40094 VA		
														CONTROLLING LOAD:			N/A		

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL NAME: "P1" (EXISTING)	LOCATION: WORK AREA 104 FED BY: "TF1" MOUNTING: SURFACE	VOLTAGE: 120/208V, 3PH, 4W ENCLOSURE: NEMA 1 MANUFACTURER: SQUARE D PANEL TYPE: NG	MAIN TYPE: MCB BUS RATING (A): 125 MCB RATING (A): 125 MIN. AIC RATING (A): 10000 A															
CKT	LOAD DESCRIPTION	C	W	G	CB	P	TYPE	A	B	C	TYPE	P	CB	G	W	C	LOAD DESCRIPTION	CKT
1	LTG - GENERAL SALL	3/4"	#12	#12	20	1		474	360				1	20</				