ELECTRICAL SYMBOLS SCHEDULE

FIRE ALARM

SYMBOL	DESCRIPTION	MTG HT
FACP	FIRE ALARM CONTROL PANEL	
FAA	FIRE ALARM ANNUNCIATOR PANEL	
DH	MAGNETIC DOOR HOLD OPEN	
	FIRE ALARM BELL	
	FIRE ALARM HORN	90"
	FIRE ALARM SPEAKER	90"
	FIRE ALARM STROBE	90"
	FIRE ALARM HORN/STROBE	90"
	FIRE ALARM SPEAKER/STROBE	90"
H	FIRE ALARM CEILING HORN	CEILING
S	FIRE ALARM CEILING SPEAKER	CEILING
	FIRE ALARM CEILING STROBE	CEILING
	FIRE ALARM CEILING HORN/STROBE	CEILING
	FIRE ALARM CEILING SPEAKER/STROBE	CEILING
	FIRE/SMOKE DAMPER	
A	FIRE ALARM ADDRESSABLE MODULE	
P	FIRE ALARM PULL STATION	42"
P	FIRE ALARM SMOKE DETECTOR - PHOTOELECTRIC	CEILING
I	FIRE ALARM SMOKE DETECTOR - IONIZATION	CEILING
	FIRE ALARM DUCT DEDTECTOR	
135 / 200 / H	FIRE ALARM HEAT DETECTOR 135 INDICATES 135 FIXED HEAT DETECTOR 200 INDICATES 200 FIXED HEAT DETECTOR H INDICATES 135 HIGH HEAT DETECTOR OR INDICATES 200 HIGH HEAT DETECTOR	CEILING
BT	FIRE ALARM BEAM DETECTOR - TRANSMITTER	
BR	FIRE ALARM BEAM DETECTOR - RECEIVER	
TS	FIRE SPRINKLER TAMPER SWITCH	
PIV	FIRE SPRINKLER POST INDICATOR VALVE (PIV)	
FT	FIRE/HEAT TELEPHONE	
FS	FIRE ALARM FLOW SWITCH	

POWER

SYMBOL	DESCRIPTION	MTG HT
WP / GF / SPCR	DUPLEX RECEPTACLE WP INDICATES WEATHER-RESISTANT RECEPT W/ WEAR-IN IN-USE COVER SS INDICATES STAINLESS STEEL FACEPLATE GF INDICATES GFCI/PROOF RECEPTACLE SPCR INDICATES GROUND FAULT CIRCUIT INTERRUPTER	18"
	FOURPLEX RECEPTACLE	18"
	SIMPLEX RECEPTACLE	18"
	CEILING MOUNT DUPLEX RECEPTACLE	
	SPECIAL PURPOSE RECEPTACLE TYPE AS NOTED	18"
	SPECIAL PURPOSE RECEPTACLE TYPE AS NOTED	CEILING
J	RECESSED JUNCTION BOX	CEILING
J	SURFACE MOUNTED JUNCTION BOX	CEILING
J	RECESSED JUNCTION BOX	WALL
J	SURFACE MOUNTED JUNCTION BOX	WALL
	NON-FUSED DISCONNECT SWITCH	
	FUSED DISCONNECT SWITCH	FLOOR
	MOTOR STARTER	
H	HAND/HAIR DRYER CONNECTION	VERIFY
	MUSHROOM HEAD PUSHBUTTON	
	FAN FORCED HEATER	
	BASEBOARD HEATER	
	EQUIPMENT CONNECTION	
	HEAT TAPE	

MOTORS

SYMBOL	DESCRIPTION	MTG HT
	PUSHBUTTON - SINGLE	CEILING
	PUSHBUTTON - DOUBLE	CEILING
	PUSHBUTTON - TRIPLE	
	TOGGLE SWITCH - MOTOR RATED	
	SWITCH / FUSE ASSEMBLY	
	SWITCH / THERMAL OVERLOAD	WALL
T	THERMOSTAT	60"
	COMBO MOTOR STARTER/DISCONNECT SWITCH	CEILING
MC	MAGNETIC CONTACT	WALL
M	MOTOR	CEILING
XX / ##	MOTOR WITH ELECTRICAL CONNECTION; REFER TO MOTOR SCHEDULE (MECHANICAL EQUIPMENT CROSS REFERENCE)	CEILING
NF	NON-FUSED DISCONNECT SWITCH	
	FUSED DISCONNECT SWITCH	
	MOTOR STARTER	
H	HAND/HAIR DRYER CONNECTION	VERIFY
	MUSHROOM HEAD PUSHBUTTON	
	FAN FORCED HEATER	
	BASEBOARD HEATER	CEILING
	EQUIPMENT CONNECTION	
	HEAT TAPE	

LIGHTING

SYMBOL	DESCRIPTION	MTG HT
	FIXTURE RECESSED MOUNTED	CEILING
	FIXTURE SURFACE MOUNTED	CEILING
	STRIP TYPE FIXTURE	
	STRIP TYPE FIXTURE	
	WALL MOUNTED STRIP TYPE FIXTURE	WALL
	WALL MOUNT FIXTURE	WALL
	EXIT LIGHT FACE/DIRECTIONAL ARROWS AS INDICATED	WALL
	EXIT LIGHT FACE/DIRECTIONAL ARROWS AS INDICATED	CEILING
	EXIT LIGHT WITH EMERGENCY HEADS DIRECTION ARROWS AS INDICATED	WALL
	EXIT LIGHT WITH EMERGENCY HEADS DIRECTION ARROWS AS INDICATED	CEILING
	LIGHT FIXTURE ON EMERGENCY CIRCUIT	CEILING
	SELF CONTAINED EMERGENCY LIGHT UNIT	

LIGHTING CONTROL

SYMBOL	DESCRIPTION	MTG HT
	SINGLE POLE SWITCH - LETTER INDICATES SWITCH LEG	48"
	DOUBLE POLE, 3-WAY AND 4-WAY SWITCHES	48"
	KEY OPERATED SWITCH	48"
	LINE VOLTAGE RELAY	
	OCCUPANCY SENSOR "X" DENOTES TYPE - SEE SPECIFICATIONS	CEILING
	OCCUPANCY SENSOR WALL SWITCH BOX MOUNTED	48"
	PHOTOSENSOR	

COMMUNICATIONS

SYMBOL	DESCRIPTION	MTG HT
	TELEPHONE	18"
	TELEPHONE - WALL HUNG	
	TELEPHONE - CABINET SIZE AS INDICATED	
	COMMUNICATIONS BOARD SIZE AS INDICATED	
	DATA OUTLET	
	DATA - CEILING MOUNTED	
	COMBINATION PHONE/DATA OUTLET	
	WALL MOUNTED CLOCK	
	DOUBLE FACE CLOCK	
	MASTER CLOCK	
	CLOCK OUTLET	
	HANDSET	
	CALL STATION	
	WALL MOUNTED HORN	
	SPEAKER - WALL MOUNTED	
	SPEAKER - CEILING MOUNTED	
	VOLUME CONTROL	
	MICROPHONE OUTLET - WALL MOUNTED	
	MICROPHONE OUTLET - FLOOR MOUNTED	
	BUZZER	
	BELL	
	CHIME	
	AUDIO/VISUAL OUTLET 452 BOX WITH BLANK PLATE - WALL MOUNT	
	AUDIO/VISUAL OUTLET 452 BOX WITH BLANK PLATE - CEILING MOUNT	

POWER DISTRIBUTION

SYMBOL	DESCRIPTION	MTG HT
	GROUND	
	METER	
	MANHOLE	
	HANDHOLE	
	PANELBOARD	
	DISTRIBUTION PANELBOARD SURFACE MOUNTED	WALL OR FLOOR
	SWITCHBOARD SURFACE MOUNTED	WALL OR FLOOR
CT	CT CABINET	
T	UTILITY CO. TRANSFORMER	GRADE
T	TRANSFORMER	

TEMPERATURE CONTROLS

SYMBOL	DESCRIPTION	MTG HT
	TEMPERATURE CONTROL WALL MOUNT SENSOR	44"
	TEMPERATURE CONTROL CEILING SENSOR	
	TEMPERATURE CONTROL HEAD END EQUIPMENT	

CABLING

SYMBOL	DESCRIPTION	MTG HT
	CONDUIT RUN EXPOSED	
	CONDUIT RUN IN OR BELOW FLOOR, OR UNDERGROUND (UC)	
	WIRE COUNTS SHOWN WHEN MORE THAN 2 IN CONDUIT (NOT INCLUDING GROUND)	
	HOME RUN TO PANELBOARD	
	CONDUIT SLEEVE	
	CONDUIT STUB	
	DATA	
	FIRE	
	INTERCOM	
	SOUND	
	TELEPHONE	
	CUSTOM	

NOTES:
1. THESE SYMBOLS COMPRISE A STANDARD LIST; ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.
2. MOUNTING HEIGHTS SHOWN ARE STANDARD AND SHALL BE USED UNLESS INDICATED OTHERWISE. MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE, UNLESS INDICATED OTHERWISE.

VOLTAGE DROP CALCULATIONS

PANEL	FEEDER AWG	FEEDER SETS	OHMS/K-FT NEC T9	LENGTH	Z	LOAD	V-DROP	V	%V-DROP
SES	#350	2	0.060 OHM/K-FT	200 FT	0.0060 OHM	302 A	1.81 V	120 V	1.51%
MDP	#350	2	0.060 OHM/K-FT	10 FT	0.0003 OHM	302 A	0.09 V	120 V	0.08%
PANEL A	3/0	1	0.094 OHM/K-FT	10 FT	0.0009 OHM	77 A	0.07 V	120 V	0.06%
RTU-1	#6	1	0.450 OHM/K-FT	60 FT	0.0270 OHM	66 A	1.86 V	120 V	1.55%
WH-1	#8	1	0.450 OHM/K-FT	40 FT	0.0180 OHM	67 A	1.20 V	120 V	1.00%

NOTES:
VOLTAGE DROP CALCULATIONS ARE BASED ON TABLE 9 OF THE NEC FOR EFFECTIVE Z AT 0.85 PF, UNCOATED COPPER WIRES IN STEEL CONDUIT (WORST CASE).
LOAD IS THE DEMAND LOAD OF THE PANEL OR TRANSFORMER.
EQUATION:
Z = (OHMS/K-FT) * (K-FT/1000') * (LENGTH) / (SETS)
V-DROP = Z * LOAD

EQUIPMENT SCHEDULE

PLAN MARK	EQUIPMENT SERVED	LOAD	VOLT/PHASE	FED BY	DISC BY	MCA	MOCPD	FEEDER	REMARKS
WB	(2) WHEEL BALANCER	1.96KVA	208/1	MDP	PLUG	9.4A	20A	(2)#12,#12G 3/4"C	COORDINATE WITH MANUFACTURER
LIFT	(1) LIFT	2.75KVA	208/1	MDP	BUILT-IN	13.2A	30A	(2)#10,#10G 3/4"C	COORDINATE WITH MANUFACTURER
A-LIFT	ALIGNMENT LIFT	5.41KVA	208/1	MDP	BUILT-IN	26.0A	40A	(2)#8,#10G 3/4"C	COORDINATE WITH MANUFACTURER
TC	(2) TIRE CHANGER	1.25KVA	208/1	MDP	PLUG	6.0A	20A	(2)#12,#12G 3/4"C	COORDINATE WITH MANUFACTURER
AIR COMP	(2) AIR COMPRESSOR	11.38KVA	208/3	MDP	SWITCH	31.6A	50A	(3)#6,#10G 3/4"C	COORDINATE WITH MANUFACTURER
RTU-1	ROOF TOP UNIT	24.86KVA	208/3	MDP	BUILT-IN	69A	70A	(3)#4,#8G 1"C	COORDINATE WITH MC
EF-1	EXHAUST FAN 1	1.66KVA	120/1	A	SWITCH	13.8A	30A	(2)#12,#12G 3/4"C	INTERLOCK WITH IH-1
EF-2	EXHAUST FAN 2	0.31KVA	120/1	A	SWITCH	2.6A	20A	(2)#12,#12G 3/4"C	CONNECT TO LINE THERMOSTAT
EF-3	EXHAUST FAN 3	0.31KVA	120/1	A	SWITCH	2.6A	20A	(2)#12,#12G 3/4"C	CONNECT TO LIGHTS IN RESTROOMS
EF-4	EXHAUST FAN 4	2.40KVA	120/1	A	SWITCH	20.0A	35A	(2)#10,#10G 3/4"C	INTERLOCK WITH IH-2
WH-1	WATER HEATER	24.00KVA	208/3	MDP	SWITCH	67A	70A	(3)#4,#8G 1"C	COORDINATE WITH MANUFACTURER

NOTES	MOUNT: SURFACE				120/208		3-PHASE, 4W		PANEL A		CAPACITY: 200A			INT CAP: 22KA				NOTES
	LOCATION: ELEC ROOM				LUGS: MLO				DEMAND LOAD: 77A					AV. FAULT: 16.9KA				
	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	
B	1	0.7					LIGHTING, LOBBY/OFFICE/ TOILET-3	20	1	A	20	1	REC. SHOW WINDOW		0.5				2	B
B	3						LIGHTING, SERVICE AREA	20	1	B	20	1	REC. LOBBY DISPLAY		0.2				4	
B	5	0.8					LIGHTING, TIRE STORAGE	20	1	C	20	1	SALES RECEPT.		0.7				6	C
B	7	0.53					LIGHTING, EXTERIOR	20	1	A	20	1	SALES RECEPT.		0.4				8	C
B	9						SPACE	30	1	B	20	1	TV MONITOR		0.2				10	
B	11					1.20	STORE FRONT SIGN	20	1	C	20	1	SALES RECEPT.		0.4				12	C
	13					0.10	EMS PANEL	20	1	A	20	1	REC. POS		0.4				14	C
B	15					1.20	STORE FRONT SIGN	20	1	B	20	1	REC. POS		0.4				16	C
	17					0.34	SHOP RECEPT.	20	1	C	20	1	REC. OFFICE		0.2				18	C
	19	1.20					EXTERIOR STRIP LIGHTING	20	1	A	20	1	TV MONITOR		0.4				20	
C	21		0.18				REC. SERVICE DESK	20	1	B	20	1	TV MONITOR		0.2				22	
	23		0.4				LCD DISPLAY	20	1	C	20	1	REC. BREAKROOM		0.4				24	
	25		0.7				REC. LIFT	20	1	A	20	1	REC. REFRIGERATOR		1.0				26	A
	27				1.00		E.W.C.	20	1	B	20	1	REC. MICROWAVE		1.5				28	
	29		0.4				TV MONITORS		1	C	20	1	TV MONITOR		0.4				30	
B	31				0.50		AIR DRYER	20	1	A	20	1	REC. EWC		0.5				32	A
	33				1.4		REC. BRAKE LATHE	20	1	B	20	1	REC. OFFICE CR		0.2				34	
	35		0.18				REC ALIGN RACK	20	1	C	20	1	TV WAL		0.4				36	
	37		0.7				REC. GENERAL	20	1	A	20	1	REC. FANS		0.2				38	
	39		0.4				LCD DISPLAT	20	1	B	20	1	REC. FANS		0.4				40	
B	41			0.50			EF-4	25	1	C	20	1	REC. ROOFTOP		0.9				42	
	43						SPARE	25	#N/A	A	20	1	SPARE						44	C
B	45			0.31			EF-2	20	1	B	20	1	REC. SECURITY		0.2				46	
	47		0.2				FACP	20	1	C	20	1	IRRIGATION CONTROLLER				0.5		48	
C	49		0.2				WATER DISPENSER	20	1	A	20	1	OFFICE RECEPT.		0.2				50	
	51		1.1				COFFEE MAKER	20	1	B	20	1	REC. VENDING		0.5				52	
	53		0.2				COUNTER RECEPT.	20	1	C	20	1	COOLANT EQ.		0.4				54	
	55									A	20	1	COOLANT EQ.		0.4				56	
	57				1.2		EF-1	20	3	B	20	1	SPARE						58	
	59									C	20	1	SPARE						60	
	61						SPACE	20	1	A			OFFPOWER						62	
	63						SPACE	20	1	B	20	1	TV MONITOR		0.4				64	
	65						SPACE	20	1	C	20	1	SPACE						66	
	67						SPACE	20	1	A	20	1	SPACE						68	
	69						SPACE	20	1	B	20	1	SPACE						70	
	71						SPACE	20	1	C	20	1	SPACE						72	
	73						SPACE	20	1	A	20	1	SPACE						74	
	75						SPACE	20	1	B	20	1	SPACE						76	
	77						SPACE	20	1	C	20	1	SPACE						78	
	79						SPACE	20	1	A	20	1	SPACE						80	
	81						SPACE	20	1	B	20	1	SPACE						82	
	83						SPACE	20	1	C	20	1	SPACE						84	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
Φ	LOAD	%	LIGHTING	4.2 KVA	5.2 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
A	9.7 KVA	32%	HVAC	0.8 KVA	0.8 KVA	LOAD X 100% (USED MCA IN CALCULATION)	83.1A	77.3A
B	10.7 KVA	36%	MISC	8.7 KVA	8.7 KVA	LOAD X 100% NEC 210.19 NON-CONT.		
C	9.5 KVA	32%	NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60		

NOTES:
A. PROVIDE GFCI BREAKER
B. VIA EMS RELAY
C. PROVIDE ISOLATED GROUND PER NEC 250.146(D)

NOTES	MOUNT: SURFACE				120/208		3-PHASE, 4W		PANEL MDP		CAPACITY: 600A			INT CAP: 35KA				NOTES
	LOCATION: ELEC ROOM				LUGS: MCB				DEMAND LOAD: 302A					AV. FAULT: 19 KA				
	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	
	1	2.4	5.5	0.0	1.8	0.0	PANEL A	200	3	A						6.8			2	
	3	1.8	5.4	0.3	3.6	0.0				B	60	3	RTU-1			6.8			4	
	5	0.8	5.0	0.5	3.2	0.0				C						6.6			6	
	7				0.98		WB	20	2	A	40	2	A-LIFT			2.70			8	
	9				0.98					B						2.70			10	
	11				0.62		TC	20	2	C	20	1	SPACE						12	
	13				0.62					A	20	1	SPACE						14	
	15						SPACE	20	1	B	20	1	SPACE						16	
	17						SPACE	20	1	C	20	1	SPACE						18	
	19				8.0		WH-1	60	3	A	20	1	SPACE						20	
	21				8.0					B	20	1	SPACE						22	
	23				8.0					C	20	2	TC			0.0			24	
	25						SPACE	20	1	A						0.0			26	
	27						SPACE	20	1	B	20	1	SPACE						28	
	29				0.98		WB	20	2	C	20	1	SPACE						30	
	31				0.98					A						3.8			32	
	33				1.37		LIFT	20	2	B	50	3	COMP			3.8			34	
	35				1.37					C						3.8			36	
A	37						TVSS	20	1	A						3.8			38	
A	39									B	50	3	COMP			3.8			40	
A	41									C						3.8			42	
	43						SPACE	20	1	A	20	1	SPACE						44	
	45						SPACE	20	1	B	20	1	SPACE						46	
	47						SPACE	20	1	C	20	1	SPACE						48	
	49						SPACE	20	1	A	20	1	SPACE						50	
	51						SPACE	20	1	B	20	1	SPACE						52	
	53						SPACE	20	1	C	20	1	SPACE						54	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
Φ	LOAD	%	LIGHTING	4.2 KVA	5.2 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
A	37.8 KVA	34%	HVAC	20.6 KVA	20.6 KVA	LOAD X 100% (USED MCA IN CALCULATION)	307.2A	302.0A
B	37.6 KVA	34%	MISC	70.0 KVA	70.0 KVA	LOAD X 100% NEC 210.19 NON-CONT.		
C	35.3 KVA	32%	NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60		

NOTES:
A. MANUFACTURER'S RECOMMENDED CIRCUIT BREAKER
B.
C.

UTILITY TRANSFORMER FAULT CALCULATION

SERVICE ENTRANCE		CALCULATION
VOLTAGE (L-L):	208V	I-FLA=[RATED KVA * 1000]/
PHASE (PH):	3	(VLL*SQRT(PHASE)]
AMPS:	600A	I-FLA= 625A
FULL LOAD KVA:	216KVA	
TRANSFORMER:	225KVA	M=100/%Z= 89.3
IMPEDANCE (%Z):	4.1%	I-SC=I-FLA*M= 56 KA

CALCULATION BASED ON ESTIMATED TRANSFORMER SIZE WITH %Z FROM BUSSMANN SPD. CONTRACTOR SHALL CONTACT UTILITY AND VERIFY I-SC AVAILABLE AT SECONDARY OF TRANSFORMER. CONTACT ENGINEER FOR RE-CALCULATION IF LARGER THAN CALCULATED.

SES FEEDER FAULT CALCULATION

STARTING I-SC:	55.762 KA	ALL IMPEDANCES BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT
FEEDER SIZE:	350	CALCULATION
FEEDER MATERIAL:	CU	I=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	2	[Q*C*V-LL]
FEEDER LENGTH (L):	200FT	f= 2.042
FEET PER OHMS (C):	22,737 FT/OHMS	M=1/(1+f)= 0.329
		I-SC=I-SC*M= 18.33 KA

NOTE: CALCULATION BASED ON BUSSMANN SPD

MOTOR LOAD FAULT CALCULATION

STARTING I-SC:	18.33 KA	CALCULATION
MOTOR LOAD (KVA):	67KVA	I-SC(ML)=I-ML*I= 1,118A
MOTOR LOAD (A):	186A	I-SC=I-SC+I-SC(ML)= 19.45 KA

MDP FEEDER FAULT CALCULATION

STARTING I-SC:	19.45 KA	ALL IMPEDANCES BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT
FEEDER SIZE:	350	CALCULATION
FEEDER MATERIAL:	CU	I=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	2	[Q*C*V-LL]
FEEDER LENGTH (L):	10FT	f= 0.036
FEET PER OHMS (C):	22,737 FT/OHMS	M=1/(1+f)= 0.966
		I-SC=I-SC*M= 18.78 KA

NOTE: CALCULATION BASED ON BUSSMANN SPD

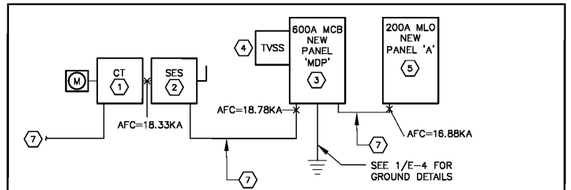
PANEL A FEEDER FAULT CALCULATION

STARTING I-SC:	18.78 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	208V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT
FEEDER SIZE:	3/0	CALCULATION
FEEDER MATERIAL:	CU	I=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	1	[Q*C*V-LL]
FEEDER LENGTH (L):	10FT	f= 0.112
FEET PER OHMS (C):	13,923 FT/OHMS	M=1/(1+f)= 0.899
		I-SC=I-SC*M= 16.88 KA

NOTE: CALCULATION BASED ON BUSSMANN SPD

ELECTRICAL KEYED NOTES

1. METER & CT BY UTILITY, 600A NEMA 3R CT CABINET & METER SOCKET BY ELECTRICAL CONTRACTOR.
2. EC SHALL PROVIDE 600AS/600AF, NEMA 3R, SERVICE ENTRANCE RATED DISCONNECT SWITCH.
3. EC SHALL PROVIDE A 600A, 120/208V, 3ϕ, 4W MCB PANEL 'MDP'.
4. EC SHALL PROVIDE SQUARE D TVSS UNIT, OR EQUIVALENT. SIZE & TYPE APPROPRIATE TO PANEL.
5. EC SHALL PROVIDE A 200A 120/208V 3ϕ, 4W MLO PANEL 'A' WITH AN ISOLATED GROUND BUS. ISOLATED GROUND BUS TO HAVE A DIRECT CONNECTION TO SERVICE GROUND.
6. NOT USED.
7. EC SHALL PROVIDE (2 SETS) 4#350MCM,1#1GND.,1#6 ISO GND.,3"C COORDINATE WITH LOCAL UTILITY COMPANY
8. EC SHALL PROVIDE 4#3/0,2#6GND.,2"C



1 ONE LINE RISER DIAGRAM

NO SCALE

NORTH

Order Plans @ TWDI Online.com

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CERTIFICATE OF AUTHORITY NO. 32860

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#AA26003830 EXPIRES 02/28/21

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PALM BEACH GARDENS, FL 33410

PROTOTYPE TEMPLATE:
"NORTHLAKE"
v.2019.1.08
MODIFIED EXTERIOR

PROJECT INFORMATION:
TIRE KINGDOM
STORE 937
SEC TAMIAMI TRAIL & SUMTER CROSSING DR
NORTH PORT, SARASOTA CONTY, FLORIDA

SEAL:
BID SET
01/10/2020

PROJECT NO.: 2018-1035
DRAWN BY:
CHECKED BY:

ISSUE	DATE
PERMIT PLAN REVIEW	22-JUL-2019
BID SET	09-DEC-2019

REVISION		DATE
01	DESIGN UPDATES	15-AUG-2019
04	DESIGN UPDATES	20-DEC-2019

SHEET TITLE:
ELECTRICAL SYMBOLS & LEGENDS

SHEET NUMBER:
E-5