	SWITCHES			
S	SINGLE-POLE SWITCH			
S2 DOUBLE-POLE SWITCH				
S ₃	3-WAY SWITCH			
S ₄	4-WAY SWITCH			
S _P	SINGLE-POLE SWITCH WITH PILOT LIGHT			
S BE	BOILER EMERGENCY SWITCH			
S D	SINGLE-POLE DIMMER SWITCH			
S _{D3}	3-WAY DIMMER SWITCH			
S _T	MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION			
S _K	SINGLE-POLE KEYED SWITCH			
S _{K3}	KEYED, 3-WAY SWITCH			
S _{K4}	KEYED, 4-WAY SWITCH			
S _{MC}	MOMENTARY CONTACT SWITCH			
Sproj Motorized Projection Screen Raise/Lower Switch				
\$₀	OCCUPANCY SENSOR SWITCH			
Sox	CEILING MOUNTED OCCUPANCY SENSOR; SUBLETTER INDICATES TYPE; P - PASSIVE/INFARED, U - ULTRASONIC, D - DUAL TECHNOLOGY			
C	CONTACTOR, COMPLETE WITH NEMA ENCLOSURE			
TC	TIME CLOCK			
PC	PHOTOCELL			
LM	LIGHTING CIRCUIT MONITOR CONTROL MODULE			
LT	LIGHTING CIRCUIT TRANSFER CONTROL MODULE			
•	PUSHBUTTON SWITCH			
E,G H	EMERGENCY SHUT-OFF SWITCH. SUBLETTER "E" INDICATES ELECTRICAL. SUBLETTER "G" INDICATES GAS			
KE,KG H				

WIRING				
BRANCH CIRCUIT POWER WIRING				
	BRANCH CIRCUIT SWITCHED WIRING			
	BRANCH CIRCUIT AC OR DC CONTROL WIRING			
— NL —	NIGHTLIGHT CIRCUIT			
— ст —	CABLETRAY			
•——	CONDUIT UP			
e	CONDUIT DOWN			
	HOME RUN. 3/4" CONDUIT, 2#12 AND 1#12 GROUND, UNLESS OTHERWISE NOTED. NOTE: HOME RUN SHALL BE FROM FIRST ELECTRICAL DEVICE BACKBOX IN CIRCUIT TO ELECTRICAL PANEL			
— ЕМ —	EMERGENCY FEEDER			
— T—	TELECOMMUNICATION SYSTEM RACEWAY			
— CATV —	CABLE TELEVISION SYSTEM RACEWAY			
— PE —	INCOMING PRIMARY ELECTRIC SERVICE			
— SE —	INCOMING SECONDARY ELECTRIC SERVICE			

	POWER				
#	DUPLEX RECEPTACLE. COORDINATE INSTALLATION WITH ARCHITECT.				
⊕ a,b,c	DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES CIMOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CIMOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.				
#	DOUBLE DUPLEX RECEPTACLE. COORDINATE INSTALLATION WITH ARCHITECT.				
4 _{a,b,c}	DOUBLE DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT				
0	SINGLE RECEPTACLE. COORDINATE INSTALLATION WITH ARCHITECT.				
→ a,b,c	SINGLE RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.				
O R,F,S	FLOOR MOUNTED DUPLEX RECEPTACLE: SUBLETTER "R" INDICATES RECESSED BACKBOX. SUBLETTER "F" INDICATES FLUSH BACKBOX. SUBLETTER "S" INDICATED SURFACE BACKBOX (MONUMENT)				
=	DUPLEX RECEPTACLE-ONE OUTLET SWITCHED				
€,	DUPLEX RECEPTACLE FOR TELEVISION. MOUNTING HEIGHT AS NOTED ON PLANS				
Ē /	ELECTRICAL FLOOR MONUMENT WITH LFMC WHIP CONNECTION				
-8(SPECIAL—PURPOSE OUTLET. AMPERAGE AND VOLTAGE AS INDICATED ON PLANS. CONTRACTOR TO VERIFY CONNECTION/NEMA CONFIGURATION REQUIREMENTS WITH EQUIPMENT BEING FURNISHED.				
a ,b,c	DUPLEX RECEPTACLE, EMERGENCY POWER; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.				
-	DOUBLE DUPLEX RECEPTACLE, EMERG. POWER; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. SUBLETTER "c" INDICATES CEILING MOUNTED. COORDINATE INSTALLATION WITH ARCHITECT.				
_P P P	SURFACE RACEWAY WITH OUTLETS AS INDICATED ON PLANS, MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED				
F	TELEPHONE/POWER POLE				
Ø	POWER WALL BOX TO SERVE SYSTEM FURNITURE PROVIDE 3/4" LFMC WH FROM BOX TO FURNITURE CONNECTION AND TERMINATE ON FURNITURE LUGS. COORDINATE WITH ARCHITECT AND FURNITURE SUPPLIER.				

		LUGS. COORDINATE WITH ARCHITECT AND FURNITURE SUPPLIER.			
	⊚ ×	DATA WALL BOX TO SERVE SYSTEM FURNITURE PROVIDE LFMC WHIP FROM BOX TO FURNITURE CONNECTION. COORDINATE WITH ARCHITECT AND FURNITURE SUPPLIER. 'X' DENOTES THE QUANTITY OF DATA CABLES.			
		ELECTRICAL PANEL 480/277 VOLT			
		ELECTRICAL PANEL 120/208 VOLT			
		SPECIAL-PURPOSE ELECTRICAL PANEL OR EQUIPMENT			
	1	ELECTRICAL POWER TRANSFORMER			
	\boxtimes	MAGNETIC STARTER			
	FXX FUSED DISCONNECT SWITCH WITH AMP FRAME OVER AMP TRIP				
	Ø	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH			
	Ø	ELECTRIC MOTOR			
	VFD	VARIABLE FREQUENCY DRIVE			
	J	JUNCTION BOX			
	ELECTRIFIED BUS DUCT WITH FUSIBLE, PLUG-IN, BRANCH CIRCUIT DEV				
		HARD-WIRED EQUIPMENT CONNECTION			
	R	RELAY			
	EDO	ELECTRIC DOOR OPENER			
	EDO MH	MH ELECTRIC DOOR OPENER WITH SMOKE DOOR MAGNETIC HOLD OPEN			
	9	ELECTRIC DOOR OPENER ACTUATOR PUSH PLATE			
		ELECTRONIC FAUCET/FLUSH VALVE CONTROL TRANSFORMER			
		TRAP PRIMER SOLENOID CONTROL TRANSFORMER			
1 -					

SECURITY		
ES ELECTRIC DOOR STRIKE/ELECTRIC DOOR BOLT		
DOOR/WINDOW CONTACT		
VIDEO CAMERA, WITH MOUNTING HARDWARE		
VM VIDEO MONITOR OUTLET		
VR VIDEO RECORDER OUTLET		
CR CARD READER		
∞ ∞ H	CEILING OR WALL-MOUNTED MOTION DETECTOR	
ML	ML MAGNETIC DOOR LOCK	
	LOCAL DOOR BELL WITH TRANSFORMER	
D LOCAL DOOR BELL PUSHBUTTON		

	FIRE ALARM			
S	FIRE ALARM SMOKE DETECTOR			
Ss	FIRE ALARM SMOKE DETECTOR WITH SOUNDER BASE			
S _{BT, BR}	FIRE ALARM BEAM DETECTOR, SUBLETTER INDICATES TRANSMITTER OR RECEIVER			
SE	SMOKE DETECTOR FOR ELEVATOR RECALL CONTROLS			
DS	DUCT SMOKE FIRE ALARM DETECTOR			
H	HEAT DETECTOR, 135° FIXED RATE OF RISE. HEAT RATING INDICATED BY SUBLETTER IF OTHER THAN 135°			
	FIRE ALARM VISUAL INDICATING UNIT			
	FIRE ALARM HORN/VISUAL INDICATING UNIT			
■ d _s	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT			
©	FIRE ALARM CEILING-MOUNTED SPEAKER			
	FIRE ALARM MINI HORN/VISUAL INDICATING UNIT			
F	MANUAL FIRE ALARM PULL STATION			
仓	MASTER FIRE ALARM PULL BOX			
M	FIRE ALARM MAGNETIC DOOR HOLD DEVICE			
С,ТО	FIRE ALARM MAGNETIC DOOR HOLD OPEN; SUBLETTER "C" INDICATES MAGNETIC HOLDER/CLOSER. SUBLETTER "TO" INDICATES TIMEOUT RELEASE.			
TS	REMOTE DUCT SMOKE DETECTOR TEST SWITCH/INDICATOR			
AIM	ADDRESSABLE INTERFACE MODULE			
⑤	SPRINKLER FIRE ALARM FLOW SWITCH			
<u>s</u>	SPRINKLER FIRE ALARM SUPERVISORY SWITCH			
®	SPRINKLER FIRE ALARM PRESSURE SWITCH			
▼ FP	FIREFIGHTERS TELEPHONE			
▼AOR	AREA OF REFUGE TELEPHONE			
▼ EM	EMERGENCY TELEPHONE			
FACP	FIRE ALARM CONTROL PANEL			
RAP	REMOTE ANNUNCIATOR PANEL			
GAP	GRAPHIC ANNUNCIATOR PANEL			
SD	SMOKE DAMPER			

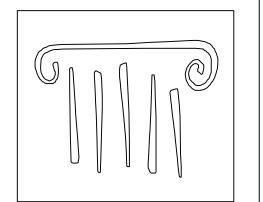
	SPECIAL SYSTEMS				
SYMBOL	DESCRIPTION				
⊘ R,F,S	FLOOR MOUNTED TEL/DATA OUTLET: SUBLETTER "R" INDICATES RECESSED BACKBOX. SUBLETTER "F" INDICATES FLUSH BACKBOX. SUBLETTER "S" INDICATED SURFACE BACKBOX (MONUMENT)				
0	COMMUNICATIONS FLOOR MONUMENT WITH LFMC WHIP CONNECTION				
>	COMBINATION DATA/TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE				
►w	TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT, STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE. SUBLETTER "W" INDICATES WALL—MOUNTED;				
► _{P,HP}	HANDICAP PAY TELEPHONE OUTLET WITH BACKBOX AND CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE. SUBLETTER "P" INDICATES PAYPHONE, SUBLETTER "HP" INDICATES HANDICAPPED PAYPHONE				
>	DATA OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAGLINE				
€	TELEVISION CABLE OUTLET; MOUNT AT 18" AFF UNLESS OTHERWISE NOTED				
<u> </u>	CEILING-MOUNTED, SOUND SYSTEM SPEAKER				
9	WALL-MOUNTED, SOUND SYSTEM SPEAKER				
VC	SOUND SYSTEM VOLUME CONTROLLER				
M _{F,W}	SOUND SYSTEM MICROPHONE JACK; SUBLETTER "F" INDICATES FLOOR-MOUNTED. SUBLETTER "W" INDICATES WALL-MOUNTED				
\cap	PA/SOUND SYSTEM HANDSET				
<u>©Ф</u>	PA/SOUND SYSTEM CLOCK AND SPEAKER MOUNTED IN COMMON ENCLOSURE				
Ф	WALL CLOCK WITH HANGER TYPE OUTLET				
₽ Ö	PROGRAM BELL				
EÖ	EMERGENCY CALL-FOR-AID AUDIO INDICATING UNIT				
E _{PC}	EMERGENCY CALL-FOR-AID SWITCH				
E _{PB}	EMERGENCY CALL-FOR-AID PUSHBUTTON				
9 H	EMERGENCY CALL-FOR-AID VISUAL INDICATING UNIT				
E	EMERGENCY CALL-FOR-AID VISUAL/AUDIO INDICATING UNIT				
AMP	AMPLIFIER				
Пм	INTERCOM STATION; SUBLETTER "M" INDICATES MASTER				

ONE-LINE				
	POTHEAD			
—	STRESSCONE			
	CURRENT TRANSFORMER			
	POTENTIAL TRANSFORMER			
	FUSE			
	FUSE CUT OUT			
	FUSE & SWITCH			
	SWITCH			
	CIRCUIT BREAKER			
← →≻	DRAWOUT CIRCUIT BREAKER			
-<>>	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER			
← ← ←	BUSPLUG CIRCUIT BREAKER			
← ~~	BUSPLUG FUSE & SWITCH			
一	GROUND			
	THERMAL OVERLOAD			
	RELAY/COIL			
	N/O CONTACT			
	N.C. CONTACT			
	PROTECTIVE RELAY			
A	AMMETER			
AS	AMMETER SWITCH			
V	VOLTMETER			
VS	VOLTMETER SWITCH			
WHM)	WATTHOUR METER			
WM→	WATTMETER			
	WATTHOUR DEMAND METER			
WHD)	WATHTOOK DEWAND WETEN			
	TRANSFORMER (WITH GROUNDING ON SECONDARY SIDE)			
₩	SHIELDED TRANSFORMER (WITH GROUNDING ON SECONDARY SIDE)			
¥	AUTO TRANSFORMER			
— <u>—</u>	LIGHTNING ARRESTOR			
6	GENERATOR			
	DELTA			
Y	WYE			
	KEY INTERLOCK			
N°\ °E	AUTOMATIC TRANSFER SWITCH (A.T.S.)			
E N	BYPASS / ISOLATION AUTOMATIC TRANSFER SWITCH			
×	MAIN LUG ONLY PANELBOARD			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MAIN CIRCUIT BREAKER PANELBOARD			
***	ISOLATED POWER PANELBOARD			
) XXXAF XXXAT	CIRCUIT BREAKER WITH AMP FRAME OVER AMP TRIP			
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	FUSED DISCONNECT SWITCH, WITH SWITCH SIZE OVER FUSE SIZE			
XX XX	SHORT CIRCUIT DATA POINT / FAULT CURRENT VALUE			

LEGEND	NOTE

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

LINE		ABBREVIATIONS
	SYMBOL	DESCRIPTION
	A	AMPERE
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AHU	AIR HANDLING UNIT
	С	CONDUIT
	CATV	CABLE TELEVISION
	C/B	CIRCUIT BREAKER
	CIR	CIRCUIT
	CUH	CABINET UNIT HEATER
BREAKER	СТ	CABLE TRAY
	ER	EXISTING TO REMAIN
	EF	EXHAUST FAN
	ELTR	EXISTING LIGHTING TO REMAIN (WITHIN SPECIFIED AREA)
	EM	EMERGENCY
	EMT	ELECTRIC METALLIC TUBING
	EPTR	EXISTING POWER TO REMAIN (WITHIN SPECIFIED AREA)
	EWC	ELECTRIC WATER COOLER
	EWH	ELECTRIC WATER HEATER
	F EWIT	FUSED
	FA	FIRE ALARM
 	FMC	FLEXIBLE METALLIC TUBING
	GFI	GROUND FAULT INTERRUPTER
	IG	ISOLATED GROUND
	MAU	MAKE-UP AIR UNIT
——————————————————————————————————————	MD	MOTORIZED DAMPER
	NF	NON-FUSED
	NE NE	NEW LOCATION OF EXISTING RELOCATED
	NE NE	NEW LOCATION OF EXISTING RELOCATED
	NR NR	NEW TO REPLACE EXISTING
——————————————————————————————————————	P	
 	PE	POLE PRIMARY ELECTRIC SERVICE
——————————————————————————————————————		PRIMARY ELECTRIC SERVICE POLYVINYL CHLORIDE CONDUIT
	PVC	
<u> </u>	RE	REMOVE EXISTING
	REF	ROOF EXHAUST FAN
	RL	RELOCATE EXISTING
	RMC	RIGID METALLIC CONDUIT
	RR	REMOVE AND REPLACE ON NEW SURFACE
SWITCH	RTU	ROOFTOP UNIT
	SD	SMOKE DAMPER
	SE	SECONDARY ELECTRIC SERVICE
	S&P	SPACE AND PROVISION
	Tap	TELEPHONE SERVICE
	TCP	TEMPERATURE CONTROL PANEL
	TV	TELEVISION
	TX	TRANSFORMER
 	W	WIRE
	WG	WIRE GUARD
	WP	WEATHERPROOF
	UNIV	UNIVERSAL



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CONSTRUCTION

Favreau ____

ALLIED/COOK

Titan Mechanical, Inc Design Build Engineering - Mechanical Contracting

DATE DESCRIPTION

PERMIT SET

Date Issued 01/24/08Project Number 06506

SHEET NAME

ELECTRICAL LEGEND

Drawn By

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