ELECTRICAL LEGEND

LIGHTING

SYMBOL	
	NOTES: SEE LUMINAIRE SCHEDULE FOR LIGHTING FIXTURE SYMBOLS AND DESCRIPTIONS. SEE ALSO LEGEND NOTE 3. WHEN USED WITH SWITCH SYMBOL: LOWER CASE LETTERS DEFINE SWITCHING CONTROL.
S	SINGLE POLE SWITCH, 20 A, 120/277 V. MOUNT 48" AFF UON.
S_S	TWO SINGLE POLE SWITCHES, FOR DUAL LEVEL LIGHTING CONTROL. SEE PLANS FOR SWITCHING ARRANGEMENT.
S_3	THREE-WAY SWITCH. SEE PLANS FOR SWITCHING ARRANGEMENT.
S_4	FOUR-WAY SWITCH. SEE PLANS FOR SWITCHING ARRANGEMENT.
$S_{3A}S_{3B}$	TWO THREE-WAY SWITCHES, FOR DUAL LEVEL LIGHTING CONTROL. SEE PLANS FOR SWITCHING ARRANGEMENT.
$S_{4A}S_{4B}$	TWO FOUR-WAY SWITCHES, FOR DUAL LEVEL LIGHTING CONTROL. SEE PLANS FOR SWITCHING ARRANGEMENT.
S^D	DIMMER SWITCH, 0-10 V. MOUNT 48" AFF UON.
LCP	LIGHTING CONTROL PANEL FOR 100 YARD RANGE. REFER TO FLOOR PLANS FOR SPECIFICS.
OS	LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY TYPE (PASSIVE INFRARED AND ULTRA-SONIC). SENSORS SHALL BE WIRED IN PARALLEL IN AREAS CONTAINING MULTIPLE SENSORS.
PC	PHOTOCELL/CONTACTOR. MOUNT 15'-0" AFG. ORIENT FACING NORTH. TORK #5403A OR EQUIVALENT.

POWER

WHEN USED:

GFI = GROUND FAULT CIRCUIT INTERRUPTER

WP = PROVIDE WITH WEATHERPROOF WHILE IN USE DEVICE COVER, DIE-CAST ZINC, POWDERCOAT PAINTED. EQUIPPED WITH STAINLESS STEEL SPRING LATCH. RATED FOR EXTRA DUTY.

EWC = ELECTRIC WATER COOLER, PROVIDE WITH GROUND FAULT CIRCUIT INTERRUPTER.

MCD = MOTORIZED COILING DOOR.

AV = INDICATES THAT DEVICE IS TO BE INSTALLED IN AUDIO/VIDEO BOX. AUDIO/VIDEO BOX PROVIDED BY ELECTRICAL CONTRACTOR. SEE AUDIO/VIDEO PLANS FOR BOX LOCATION.

φ	SIMPLEX CONVENIENCE RECEPTACLE, 20 A, 125 VAC, MOUNT 18" AFF UON.
φ^C	2-GANG STEEL RECESSED COMBINATION POWER/DATA OUTLET BOX WITH RECESSED DEVICE CONNECTIONS FOR MASTER CLOCK SYSTEM OUTLET. PROVIDE WITH (1) SINGLE, 20 A, 125 VAC, CONVENIENCE RECEPTACLE AND (1) RJ45 JACK WITH (1) CAT. 6 CABLE . WALL MOUNT AT 18" BELOW FINISHED CEILING HEIGHT, U.O.N. ARLINGTON INDUSTRIES #TVBS507 OR EQUIVALENT.
φ	DUPLEX CONVENIENCE RECEPTACLE, 20 A, 125 VAC, MOUNT 18" AFF UON.
φ	RECEPTACLE AS NOTED ABOVE BUT, MOUNT 48" AFF OR 6" ABOVE BACKSPLASH OR COUNTER TOP WHERE COUNTER IS INDICATED.
BS	BALANCED MAGNETIC SWITCH, GENERAL ELECTRIC SECURITY MODEL: SENTROL 1085T (UNLESS OTHERWISE NOTED) OR APPROVED EQUIVALENT. WIRE SWITCH THROUGH BUILDING AUTOMATION SYSTEM CONTROL PANEL TO MONITOR DOOR STATUS. SEE MECHANICAL CONTROLS DIAGRAM FOR SEQUENCE OF OPERATION.
LS	SPDT LIMIT SWITCH PROVIDED BY ROLL-UP DOOR SUPPLIER. SWITCH SHALL BE WIRED TO MONITOR ROLL-UP DOOR TO VERIFY FULLY CLOSED POSITION. WIRE THROUGH BUILDING AUTOMATION SYSTEM CONTROL PANEL TO MONITOR STATUS. SEE MECHANICAL CONTROLS DIAGRAM FOR SEQUENCE OF OPERATION.
φ	QUAD CONVENIENCE RECEPTACLE, 20 A, 125 VAC, MOUNT 18" AFF UON.
φ	NEMA L5-30 RECEPTACLE.
R	LIGHTING CONTROL RELAY TO INTERFACE WITH DDC SYSTEM. CONTROL RELAY MAGNETIC, NON LATCHING. 20A CONTINUOUS LOAD.
CV	FLOOR BOX CONTAINING ONE AV DUPLEX RECEPTACLE AND TWO AV DATA OUTLETS. SEE TA SHEETS FOR FLOOR BOX SPECIFICS
E	DESIGNATED CONDUITS FROM FLOOR BOX AS FOLLOWS: POWER: (1) 1" DATA: (1) 1" A/V : (3) 1"
TV	IN-WALL TV BOX WITH INTEGRAL KNOCKOUTS FOR AV CONDUITS AND DUPLEX RECEPTACLES. CHIEF MANUFACTURING PAC501B OR EQUIVALENT.

SYMBOL

	PANELBOARD - 208Y/120V
	PANELBOARD - 480Y/277V
XL	DRY TYPE TRANSFORMER, SIZE AS INDICATED.
SDP	SURGE PROTECTION DEVICE
M	METER BASE WITH METER. PROVIDE WITH CT'S.
T1	OIL-FILLED, PAD-MOUNTED MEDIUM VOLTAGE SERVICE TRANSFORMER

WIRE, CONDUIT AND RACEWAY

	BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT.
L2A-1,3	HOMERUNS TO PANEL. PANEL AND CIRCUIT DESIGNATIONS AS INDICATED. SEE LEGEND NOTE 2.
	INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR, OR ABOVE SUSPENDED CEILING UON.
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	LADDER STYLE CABLE RUNWAY
	4-INCH EMT CONDUIT SLEEVE. SEE PLANS FOR QUANTITY REQUIRED.

SITE

UGE	UNDERGROUND ELECTRICAL FEEDER IN CONCRETE ENCAASED DUCTBANK.
UMV	UNDERGROUND MEDIUM VOLTAGE IN CONCRETE ENCASED DUCTBANK
UGT	UNDERGROUND TELECOMMUNICATIONS IN CONCRETE ENCASED DUCTBANK
OHP	OVERHEAD PRIMARY CABLING
UE	UNDERGROUND ELECTRICAL BRANCH CIRCUIT OR CONTROLS IN DIRECT BURIED RACEWAY
HH1	H20 TRAFFIC RATED PRECAST HANDHOLE.
HH2	H20 TRAFFIC RATED POLYMER-CONCRETE HANDHOLE.
K	DUCTBANK TAG IDENTIFYING SYSTEM TYPE.

GENERAL

#	NOTE REFERENCE NUMBER.
101	ROOM NUMBER.
XXX	FEEDER DESIGNATION
	PLAN NORTH INDICATOR TRUE NORTH INDICATOR
	NORTH ARROW

LIGHTNING PROTECTION

	PROPOSED DOWN CONDUCTOR LOCATION. COORDINATE WITH LIGHTNING PROTECTION SYSTEM DESIGN.
	GROUND RING. DESCRIPTION AS INDICATED ON PLANS.
	EXOTHERMICALLY WELDED BONDING CONNECTION.
	TEST WELL. PROVIDE REMOVABLE, MECHANICAL BONDING CONNECTION.

GROUNDING

	GROUNDING ELECTRODE CONDUCTOR FOR SEPARATELY DERIVED SYSTEM.
GB	TELECOMMUNICATIONS SYSTEM MAIN GROUND.

COMMUNICATION

WHEN USED:
AV X = INDICATES THAT DEVICE IS TO BE INSTALLED IN AUDIO/VIDEO BOX. SEE AUDIO/VIDEO PLANS FOR BOX LOCATION. X INDICATES NUMBER OF DEVICES TO BE PROVIDED. IF NO NUMBER IS PRESENT, IT IS TO BE UNDERSTOOD AS A SINGLE DEVICE. AUDIO/VIDEO BOX PROVIDED BY ELECTRICAL CONTRACTOR.

▼	DUAL-GANG, 2-1/2" DEEP JUNCTION BOX FOR VOICE/DATA. INSTALL AT 18" AFF MEASURED TO CENTER OF BOX UNLESS OTHERWISE NOTED. PROVIDE WITH SINGLE GANG PLASTER RING. PROVIDE WITH (1) CAT 6 CABLE FOR DATA AND (1) CAT 6 CABLE FOR VOICE. PROVIDE WITH RJ-45 JACKS AND FACEPLATE. PROVIDE 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.
▼2	DUAL-GANG, 2-1/2" DEEP JUNCTION BOX FOR DATA. INSTALL AT 18" AFF MEASURED TO CENTER OF BOX UNLESS OTHERWISE NOTED. PROVIDE WITH SINGLE GANG PLASTER RING. PROVIDE (1) CAT 6 CABLE AND RJ-45 JACK PER OUTLET. PROVIDE WITH FACEPLATE. PROVIDE 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING IN CORRIDOR. NUMERAL, WHEN USED, INDICATES NUMBER OF DATA OUTLETS. NO NUMERAL INDICATES A SINGLE OUTLET.
▼WAP	DATA OUTLETS FOR WIRELESS ACCESS POINT. PROVIDE (2) CAT 6 CABLES AND TWO RJ-45 JACKS TERMINATED IN PLASTIC SURFACE MOUNT BOX. PROVIDE 25 FEET OF CABLE, COILED ABOVE CEILING FOR FLEXIBLE PLACEMENT IN CEILING. PROVIDE 1" EMT CONDUIT SLEEVE THROUGH WALL FOR ROUTING CABLE TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.
▽2	DUAL-GANG, 2-1/2" DEEP JUNCTION BOX FOR VOICE. INSTALL AT 18" AFF MEASURED TO CENTER OF BOX UNLESS OTHERWISE NOTED. PROVIDE WITH SINGLE GANG PLASTER RING. PROVIDE (1) CAT 6 CABLE AND RJ-45 JACK PER OUTLET. PROVIDE WITH FACEPLATE. PROVIDE 1" EMT CONDUIT TO ABOVE ACCESSIBLE CEILING IN CORRIDOR. NUMERAL, WHEN USED, INDICATES NUMBER OF VOICE OUTLETS. NO NUMERAL INDICATES A SINGLE OUTLET.
J 5 D	DUAL GANG, 2-1/2" DEEP JUNCTION BOX FOR ROUTING SYSTEM FURNITURE DATA CABLING. COORDINATE WITH FURNITURE MANUFACTURER TO ALIGN BOX WITH FURNITURE KNOCKOUTS. PROVIDE (2) 1" EMT CONDUITS TO ABOVE ACCESSIBLE CEILING IN CORRIDOR. NUMERAL INDICATES QUANTITY OF CAT 6 CABLES AND RJ-45 JACKS.
▼LR	WIRELESS ROUTER FOR RANGE LIGHTING CONTROLS PROVIDED WITH RANGE LIGHTING CONTROL SET-UP KIT.
CR	CARD READER (DEVICE INSTALLATION BY OTHERS). PROVIDE 1" EMT TO TELECOM ROOM.
	SECURITY CAMERA (DEVICE INSTALLATION BY OTHERS). PROVIDE 1" EMT TO TELECOM ROOM.
	SECURITY CAMERA WITH CORNER MOUNT BRACKET

EQUIPMENT CONNECTIONS

E	EQUIPMENT CONNECTION AS NOTED
J J	JUNCTION BOX
DISC 60 40	DISCONNECT SWITCH IN NEMA 1 ENCLOSURE UON: 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE)
CB 100A	ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE (SEE LEGEND NOTE 4). AMPERE RATING AS INDICATED.
	DISCONNECT SWITCH PROVIDED INTEGRAL WITH EQUIPMENT.
VFD	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT (DRIVE PROVIDED WITH EQUIPMENT)

ABBREVIATIONS

A	AMPERE
A/C	AIR CONDITIONING
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ARF	ABOVE RAISED FLOOR
AT	AMPERE TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BG	BELOW GRADE
BK/BD	BACKBOARD
BLDG	BUILDING
BMS	BALANCED MAGNETIC SWITCH
BRKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING MOUNTED
CPT	CONTROL POWER TRANSFORMER
DALI	DIGITAL ADDRESSABLE LIGHTING INTERFACE
DISC SW	DISCONNECT SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	INDICATES EXPLOSION PROOF EQUIPMENT
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
GA	GRAPHIC ANNUNCIATOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HH	HANDHOLE
KAIC	THOUSAND AMP INTERRUPTING CAPACITY, RMS SYMMETRICAL
KCMIL	THOUSAND CIRCULAR MILS
KWH	KILOWATT HOUR
KVA	KILOVOLT AMPERE
LAN	LOCAL AREA NETWORK
LTG	LIGHTING
LS	LIMIT SWITCH
MANUF	MANUFACTURER RECOMMENDED
MCB	MAIN CIRCUIT BREAKER
MH	MANHOLE
MLO	MAIN LUG ONLY
MT	MOUNT
MTD	MOUNTED
MTG HT	MOUNTING HEIGHT
N/C	NORMALLY CLOSED
NF	NON-FUSED
N/O	NORMALLY OPEN
NEU	NEUTRAL
NIC	NOT IN CONTRACT
P	POLE
PH	PHASE
PVC	POLY VINYL CHLORIDE
QTY	QUANTITY
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
REQ'D	REQUIRED
RMC	RIGID METAL CONDUIT
SC	SPLIT CIRCUIT (SEE LEGEND NOTE 2)
SF	SUPPLY FAN
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DUAL THROW
SW	SWITCH
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
UH	UNIT HEATER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
W	WIRE
WH	WATER HEATER
WP	INDICATES WEATHERPROOF EQUIPMENT
XFMR	TRANSFORMER

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4 MAY 2018

CONSTRUCTION DOCUMENTS

REVISIONS

SHEET

ELECTRICAL LEGEND

E-001

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

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