POWER

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE UON
	CONDUIT CONCEALED IN WALL OR CEILING	
	CONDUIT CONCEALED IN FLOOR (OR BELOW GRADE ON SITE PLAN)	
	CONDUIT EXPOSED ON WALL OR CEILING	
	HOMERUN CONDUIT, 2 CIRCUIT	
	TELEPHONE CONDUIT CONCEALED UON (MIN 3/4 ")	
	DICTATION SYSTEM CONDUIT CONCEALED UON (MIN 3/4 ")	
	CONDUIT TURNING UP	
	CONDUIT TURNING DOWN	
	FACTORY WIRED CONTROLLER OR EQUIPMENT CONNECTION, W/DISCONNECT & FUSES, F.B.O.	
	MOTOR CONTROLLER OR CONTACTOR	
	COMBINATION MOTOR STARTER DISCONNECT	
	DISCONNECT SWITCH, NON-FUSIBLE	
	DISCONNECT SWITCH, FUSIBLE	
RT	DISCONNECT SWITCH, NON-FUSIBLE RT DENOTES NEMA-3R	
RT	DISCONNECT SWITCH, FUSIBLE RT DENOTES NEMA-3R	
	MOTOR CONNECTION WITH APPROXIMATE HORSE-POWER SHOWN	
	THERMOSTAT (FBO) SEE MECH.	
PE	PHOTO-ELECTRIC SWITCH	
TC	ON-OFF TIME CLOCK	
	FLOAT SWITCH	
R	RELAY	
T	TRANSFORMER-DRY TYPE	
EP	ELECTRO PNEUMATIC RELAY	
PE	PNEUMATIC ELECTRIC SWITCH	
FZ	FREEZESTAT	
	TWO UNIT PUSH BUTTON STATION	
	THREE UNIT PUSHBUTTON STATION	
SL	STOP-LOCKOUT PUSHBUTTON	
	WATER HEATER	
LS	LIMIT SWITCH	
J	JUNCTION BOX - CEILING MOUNT OR ABOVE CEILING	
J	JUNCTION BOX - FLOOR MOUNT	
J	JUNCTION BOX - WALL MOUNT	AS NOTED
PB	PULL BOX	
	LOW VOLTAGE PANELBOARD	
	HIGH VOLTAGE PANELBOARD	
	MAIN SWITCHBOARD OR DISTRIBUTION PANEL	
	ENCLOSED CIRCUIT BREAKER	18"
—W—	WIREMOLD	
	PLUGMOLD #3000 WITH HUBBELL 5252 DUPLEX RECEPTACLES 24" ON CENTER	46"
	PLUGMOLD #2100 WITH 2121 GA RECEPTACLES 24" ON CENTER	46"
	TELE/POWER POLE CLG. OUTLET FOR CONNECTION TO PRE-FAB PARTITION. PROVIDE JB AND CONNECTIONS FOR POWER AND TELEPHONE SERVICE (POLE FBO)	———
LIM	REMOTE LINE ISOLATION MONITOR WITH MILLIMETER	SEE DETAIL
RG	REMOTE RECEPTACLE GROUND JACK MODULE (ROOM GROUND POINT) SEE DETAIL	SEE DETAIL
PG	REMOTE RECEPTACLE GROUND JACK MODULE (PATIENT GROUND POINT) SEE DETAIL	SEE DETAIL
IP	ISOLATION PANEL (FLUSH MOUNTED)	———
PB	PUSHBUTTON, FLUSH MOUNTED (SQ-D #KR-24B WITH KA-2 CONTACT BLOCK & KN-200 LEGEND PLATE WITH ID NOTED)	46"
PBW	PUSHBUTTON, WEATHERPROOF, FLUSH MOUNTED, (SQ-D #KR-24B WITH KA-2 CONTACT BLOCK & KN-200 LEGEND PLATE WITH ID NOTED)	46"
	BUZZER, 120 V., FLUSH MOUNTED SIMPLEX #4001-12 (FBE)	7'-0"
	PUSHPAD FOR AUTOMATIC DOORS (F.B.O.)	
DB	DOOR BELL	
PT	PRIMARY TRANSFORMER	
VFD	VARIABLE FREQUENCY DRIVE	
	120V. DUPLEX RECEPTACLE MTD IN FLOOR BOX.	
	SINGLE RECEPTACLE, AMPERAGE, VOLTAGE, NEMA CONFIGURATION AS REQUIRED BY EQUIP. SUPPLIER OR AS NOTED	18"
	120V. DUPLEX RECEPTACLE (IVORY)	18"
E	120V. DUPLEX RECEPTACLE ON EMERGENCY BRANCH CIRCUIT (RED)	18"
	120V. DUPLEX RECEPTACLE ABOVE COUNTER (IVORY)	AS SPECIFIED
	120V. QUADRAPLEX RECEPTACLE-(IVORY)	18"
	120V. QUADRAPLEX RECEPTACLE-ABOVE COUNTER MOUNTING(IVORY)	AS SPECIFIED
S	120V. DUPLEX RECEPTACLE-SAFETY TYPE-(IVORY)	18"
S	120V. DUPLEX RECEPTACLE-SAFETY TYPE-ABOVE COUNTER MOUNTING(IVORY)	AS SPECIFIED
GFI	GROUND FAULT TYPE RECEPTACLE-(IVORY)	AS SPECIFIED
GFI WP	GROUND FAULT RECEPTACLE WEATHERPROOF	AS SPECIFIED
	120V. DUPLEX RECEPTACLE-(IVORY) ONE OUTLET SWITCHED.	18"
LC-1	LIGHTING CONTACTOR	
S	SINGLE POLE SWITCH-(IVORY)	46"
S_2	TWO POLE SWITCH-(IVORY)	46"
S_3	THREE-WAY SWITCH-(IVORY)	46"
S_4	FOUR WAY SWITCH-(IVORY)	46"
S_D	SINGLE POLE DIMMER SWITCH 600 WATT	46"
S_{D1}	SINGLE POLE DIMMER SWITCH 1000 WATT	46"
S_{D5}	SINGLE POLE DIMMER SWITCH 1500 WATT	46"
S_{D3}	THREE-WAY DIMMER SWITCH 600 WATT	46"
S_T	THERMAL MOTOR SWITCH-(FBE)	46"
S_{TWP}	THERMAL MOTOR SWITCH, WEATHERPROOF-(FBE)	46"
S_{TP}	THERMAL MOTOR SWITCH, WITH PILOT LIGHT (FBE)	46"
S_F	FLOURESCENT DIMMER SIZE PER LAMP LOAD	46"
S_P	SINGLE POLE SWITCH WITH PILOT LIGHT	46"
S_{WP}	SINGLE POLE SWITCH, WEATHERPROOF	46"
S_{PD}	SINGLE POLE, DOUBLE THROW, CENTER OFF SWITCH (DARK ROOM)	46"

LIGHTING

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE UON
	SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE	-----
	SURFACE MOUNTED EMERGENCY FLUORESCENT LIGHT FIXTURE	-----
	RECESSED FLUORESCENT LIGHT FIXTURE	-----
	RECESSED EMERGENCY FLUORESCENT LIGHT FIXTURE	-----
	SURFACE MOUNTED WRAPAROUND FLUORESCENT FIXTURE	-----
	SURFACE MOUNTED EMERGENCY WRAPAROUND FLUORESCENT FIXTURE	-----
	WALL BRACKET FLUORESCENT FIXTURE	AS NOTED
	WALL BRACKET EMERGENCY FLUORESCENT FIXTURE	AS NOTED
	RECESSED MOUNTED WALL INCANDESCENT OR HID FIXTURE	AS NOTED
	EMERGENCY RECESSED MOUNTED WALL INCANDESCENT OR HID FIXTURE	AS NOTED
	PENDANT MOUNTED OR HID LIGHT FIXTURE	AS NOTED
	EMERGENCY PENDANT MOUNTED OR HID LIGHT FIXTURE	AS NOTED
	RECESSED INCANDESCENT OR HID LIGHT FIXTURE	-----
	EMERGENCY RECESSED INCANDESCENT OR HID LIGHT FIXTURE	-----
	RECESSED INCANDESCENT WALL WASH OR HID LIGHT FIXTURE	-----
	EMERGENCY RECESSED INCANDESCENT WALL WASH OR HID LIGHT FIXTURE	-----
	SURFACE MOUNTED WALL INCANDESCENT OR HID LIGHT FIXTURE	AS NOTED
	SURFACE MOUNTED WALL INCANDESCENT OR HID LIGHT FIXTURE	AS NOTED
	SURFACE MOUNTED FLUORESCENT STRIP LIGHT FIXTURE	-----
	SURFACE MOUNTED EMERGENCY FLUORESCENT STRIP LIGHT FIXTURE	-----
	WALL MOUNTED DECORATIVE SCONCE	AS NOTED
	PENDANT MOUNTED DECORATIVE CHANDELIER	AS NOTED
	WALL PAK (SEE FIXTURE SCHEDULE FOR MOUNTING HEIGHT).	AS NOTED
	EXIT LIGHT, CEILING MOUNTED (SHADING INDICATES FACE DIRECTION, ARROW INDICATES EGRESS DIRECTION).	-----
	EXIT LIGHT, WALL MOUNTED (SHADING INDICATES FACE DIRECTION, ARROW INDICATES EGRESS DIRECTION).	AS NOTED
	TWO HEAD BATTERY POWERED EMERGENCY EGRESS LIGHT	AS NOTED
"2R"	LIGHTING FIXTURE TYPE DESIGNATION-SEE LIGHTING FIXTURE SCHEDULE	-----
	AREA OR STREET LIGHT FIXTURE	AS NOTED
	SURFACE MOUNT SQUARE LIGHT FIXTURE	AS NOTED
	EMERGENCY SURFACE MOUNT SQUARE LIGHT FIXTURE	AS NOTED
ES	ENTRY STATION	-----
MS	DIMMING MASTER CONTROL STATION	-----
RAC	DIMMING SYSTEM ROOM ASSIGNMENT CONTROLLER	-----

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	FLASHING LIGHT	80"
	CHIME/FLASHING LIGHT COMBINATION	80"
	BELL/FLASHING LIGHT COMBINATION	80"
(95)	HORN/FLASHING LIGHT COMBINATION (CANDELA VALUE AS SPECIFIED)	80"
F	MANUAL PULL STATION	46"
	SYSTEM CONNECTED SMOKE DETECTOR	CEILING
	NON-SYSTEM CONNECTED SMOKE DETECTOR. CONNECT TO 120V.(WITH BATTERY BACK UP.)	WALL @ 7'
DSD	DUCT-SMOKE DETECTOR (SUPPLY) OR (RETURN)	———
	DUCT-SMOKE DETECTOR INDICATOR LIGHT (WALL MOUNTED 10"BELOW CEILING)	———
HD	AUTOMATIC HEAT DETECTOR (RATE OF RISE TYPE)	
SDS	SYSTEM CONNECTED SMOKE DETECTOR	CEILING
SDE	SYSTEM CONNECTED SMOKE DETECTOR FOR FIREMAN'S RECALL	CEILING
DH	SMOKE DOOR HOLDER	6'-0"
PS	PRESSURE SWITCH	
TS	TAMPER SWITCH	
FL	FLOW SWITCH	CEILING
FS	DWELLING UNIT FIRE SPEAKER	
LFS	FLASHING LIGHT SPEAKER SIGNAL STATION	7'-0"
FACP	CONTROL PANEL	———
FAPC	PULL CABINET	———
FAA	REMOTE ANNUNCIATOR	———
FR	FIRESTAT	———
FAPU	CENTRAL PROCESSING UNIT	———
FACC	COMMAND CENTER	———
FAST	TRANSPONDER	———
FS	FIRE ALARM SPEAKER	———
EOL	END OF LINE DEVICE	———
C	FIRE ALARM CONTROL MODULE, ADDRESSABLE	———
M	FIRE ALARM MONITOR MODULE, ADDRESSABLE	———
VCP	VOICE CONTROL PANEL	AS NOTED
SV	SOLENOID VALVE	———
SA	SYSTEM CONNECTED SMOKE DETECTOR W AUDIBLE ALARM.	———
GRA	GENERATOR ANNUNCIATOR PANEL	———

COMMUNICATIONS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	TELEPHONE AND DATA OUTLET,ABOVE COUNTER 3/4" EC TO ACCESSIBLE CEILING SPACE, BACKBOARD, OR TERMINAL AS REQ'D.	46"
	TELEPHONE ONLY OUTLET ABOVE COUNTER, 3/4" EC TO ACCESSIBLE CEILING SPACE, BACKBOARD, OR TERMINAL AS REQ'D.	46"
	DATA ONLY OUTLET ABOVE COUNTER, 3/4" EC TO ACCESSIBLE CEILING SPACE, BACKBOARD, OR TERMINAL AS REQ'D.	46"
	TELEPHONE AND DATA OUTLET, 3/4" EC TO ACCESSIBLE CEILING SPACE, BACKBOARD, OR TERMINAL AS REQ'D.	18"
	TELEPHONE AND DATA OUTLET, 3/4" EC TO ACCESSIBLE CEILING SPACE, BACKBOARD, OR TERMINAL AS REQ'D.	18"
W	TELEPHONE ONLY OUTLET(WALL MOUNTED), 3/4" EC TO ACCESSIBLE CEILING SPACE, BACKBOARD, OR TERMINAL AS REQ'D.	46"
	DATA ONLY OUTLET, 3/4" EC TO ACCESSIBLE CEILING SPACE, BACKBOARD, OR TERMINAL AS REQ'D.	18"
S	TELEPHONE ONLY OUTLET IN FLOOR BOX. 3/4" EC TO NEAREST WALL THEN UP TO ACCESSIBLE CEILING SPACE.	FLOOR BOX
	INTERCOM IN FLOOR BOX. 3/4" EC TO NEAREST WALL THEN UP TO ACCESSIBLE CEILING SPACE.	FLOOR BOX
	DATA ONLY OUTLET IN FLOOR BOX, 3/4" EC TO NEAREST WALL THEN UP TO ACCESSIBLE CEILING SPACE.	FLOOR BOX
	TELEPHONE/DATA OUTLET IN FLOOR BOX, 3/4" EC TO NEAREST WALL THEN UP TO ACCESSIBLE CEILING SPACE.	FLOOR BOX
	DOUBLE FACE CLOCK & OUTLET, LEVITON 5261CH.	SEE SPECS
	SINGLE FACE CLOCK & OUTLET, LEVITON 5261CH.	84"
	SINGLE FACE CLOCK, BATTERY OPERATED, 12" FACE (UON)	84"
	DOUBLE FACE CLOCK, BATTERY OPERATED	SEE SPECS
MC	MASTER CLOCK	SEE SPECS
MCJ	MASTER CLOCK SYSTEM JUNCTION BOX	
MCP	MASTER CLOCK & PROGRAMMER	
PB	PROGRAM BELL	7'-0"
	CEILING SPEAKER	SEE SPECS
V	VOLUME CONTROL, 3/4" EC UP TO ACCESSIBLE CEILING SPACE.	-----
	MICROPHONE WALL/FLOOR MOUNTED	46"
TBB	TELEPHONE BACKBOARD/TBB, 4'x8'x3/4"	46"/FB
	PAGING HORN	SEE DETAIL
MPR	MUSIC & PAGING RACK	84"
	WALL MOUNTED SPEAKER	SEE SPECS
ICTC	INTERCOM TERMINAL CABINET	84"
CS	CALL SWITCH, 3/4" EC UP TO ACCESSIBLE CEILING SPACE.	SEE DETAIL
IS	INTERCOM STAFF STATION, 3/4" EC UP TO ACCESSIBLE CEILING SPACE.	46"
IC	INTERCOM PHONE & CALL IN SWITCH, 3/4" EC UP TO ACCESSIBLE CEILING SPACE.	46"
IM	INTERCOM MASTER	46"
TVTC	TELEVISION TERMINAL CABINET, 3/4" EC UP TO ACCESSIBLE CEILING SPACE.	SEE SPECS
TV	TV OUTLET WALL MOUNTED	SEE DETAIL
PA	PUBLIC ADDRESS HEAD END EQUIPMENT RACK	88"
C	FLOOR MOUNTED INTERCOM STAFF STATION, 3/4" EC UP TO ACCESSIBLE CEILING SPACE.	SEE SPECS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ABC	ABOVE CEILING
EDF	ELECTRIC DRINKING FOUNTAIN
FBE	FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR
FBO	FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
GND	GROUND
UON	UNLESS OTHERWISE NOTED
WH	WATER HEATER
WP	WEATHER PROOF, NEMA 3R
IG	ISOLATED GROUND
E	EMERGENCY BRANCH CIRCUIT ONLY(DEVICES IN RED)
S	SAFETY TYPE
EUH	ELECTRIC UNIT HEATER
GFI	GROUND FAULT INTERRUPTOR
TL	TWIST LOCK
TV	TELEVISION
R	RADIO EQUIPMENT POWER
CT	COUNTER TOP
48"	MOUNTING HEIGHT ABOVE FINISHED FLOOR.
TV	NOTES TELEVISION OUTLET CONNECTIONS.
KAIC	KILO AMPS INTERRUPTING RATING
OFE	OWNER FURNISHED EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR
K	KEY OPERATED DEVICE

SYMBOLS GENERAL NOTES:

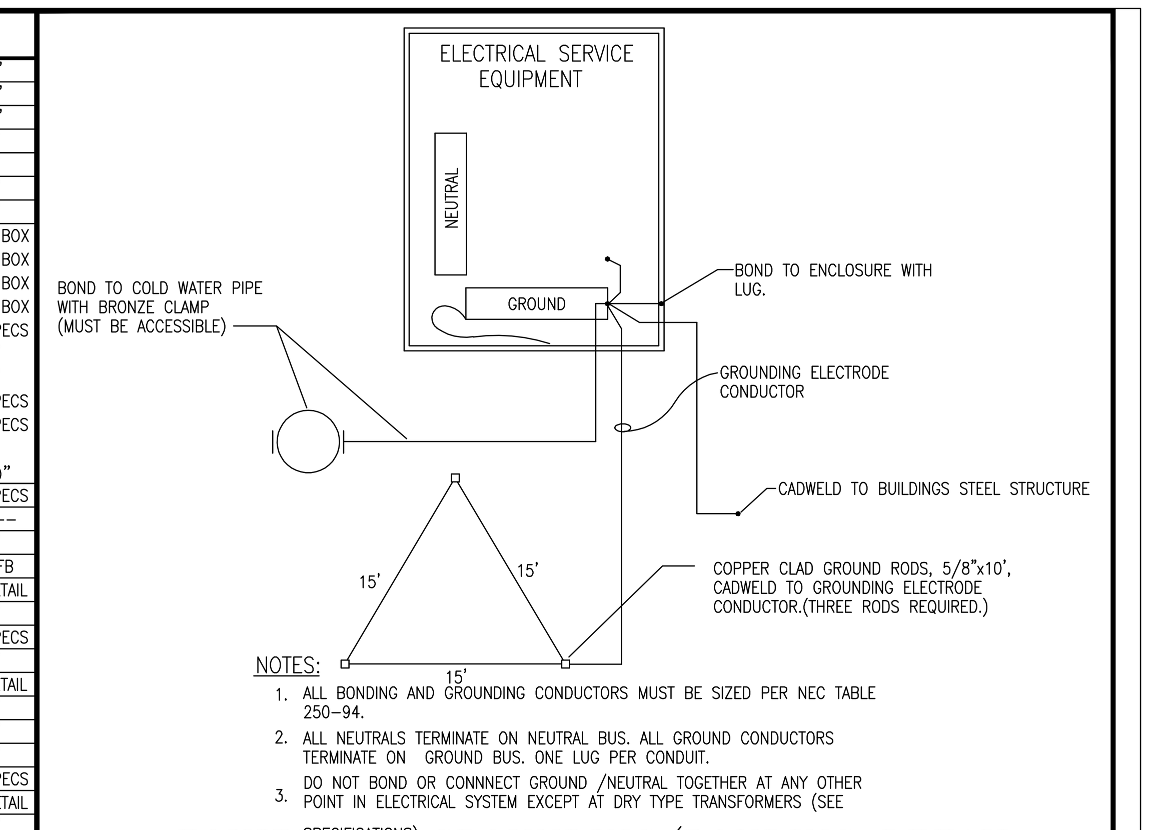
A. ALL MOUNTING HEIGHTS GIVEN IN THE LEGEND, SCHEDULES, PLANS, AND DRAWING NOTES ARE TO THE CENTERLINE OF THE DEVICE, UNLESS OTHERWISE NOTED.

B. INSTALL ALL SWITCHES AT A CENTERLINE HEIGHT OF 46" A.F.F. UNLESS OTHERWISE NOTED. WHERE SWITCHES OR RECEPTACLES ARE MOUNTED ABOVE CASEWORK OR MILLWORK, LOCATE AT A HEIGHT OF 3'-8" MAX. ABOVE FINISH FLOOR OR 4" ABOVE BACKSPLASH TO CENTERLINE.

C. WHERE COVERPLATES CONFLICT WITH CASEWORK OR MILLWORK, SLIGHTLY ADJUST THE MOUNTING HEIGHTS OF THE WIRING DEVICES TO MAKE THE COVERPLATES CLEAR THE COUNTERTOP OR BACKSPLASH BY 1/2".

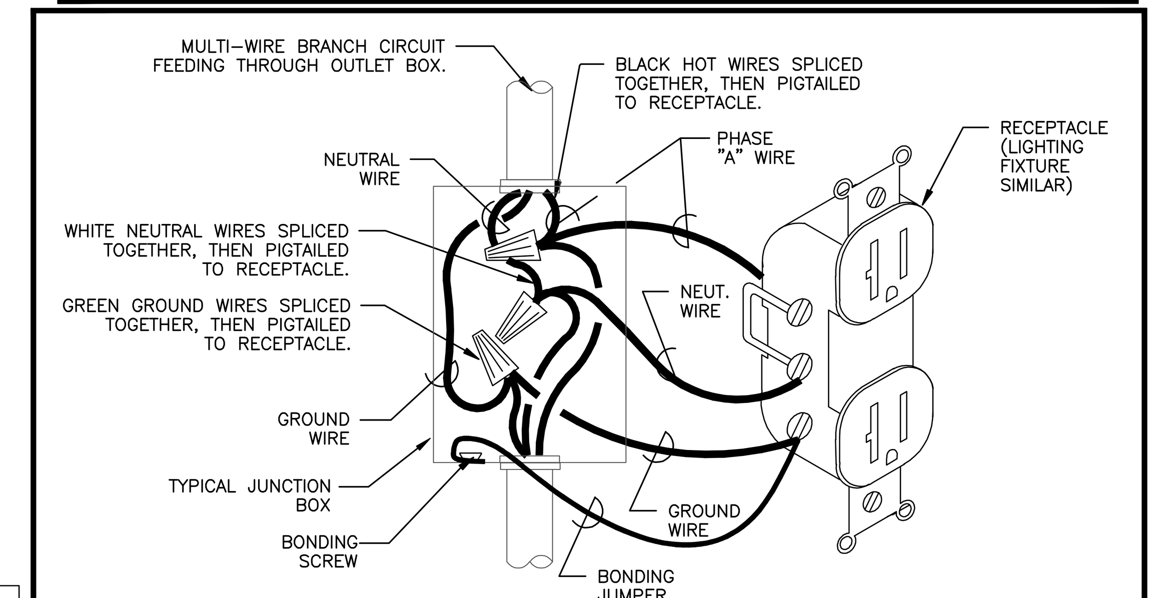
D. ADDITIONAL SYMBOLS MAY BE SHOWN OR DENOTED ON OTHER SHEETS.

E. **ALL SYMBOLS, NOTES, AND ABBREVIATIONS SHOWN ON THE LEGEND ARE NOT NECESSARILY USED IN THIS SET OF CONTRACT DOCUMENTS.**



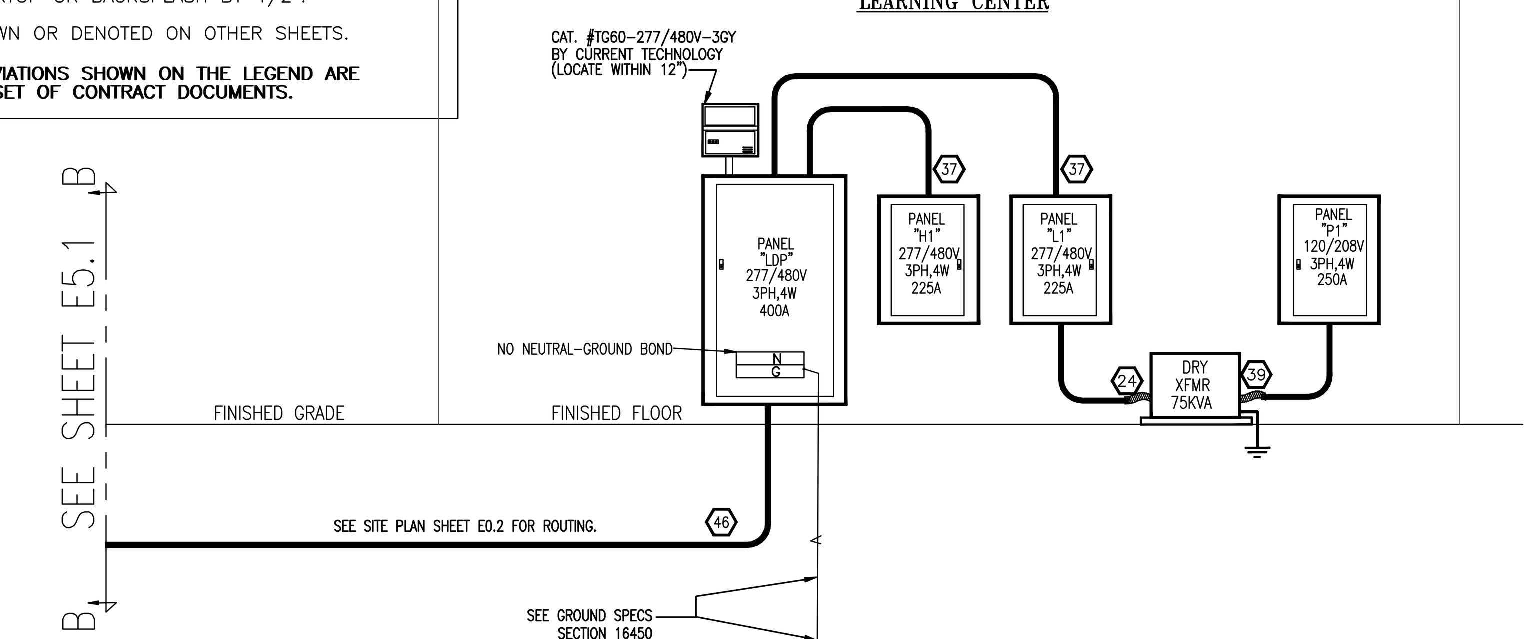
NOTES:
1. ALL BONDING AND GROUNDING CONDUCTORS MUST BE SIZED PER NEC TABLE 250-94.
2. ALL NEUTRALS TERMINATE ON NEUTRAL BUS. ALL GROUND CONDUCTORS TERMINATE ON GROUND BUS. ONE LUG PER CONDUIT.
3. DO NOT BOND OR CONNNECT GROUND /NEUTRAL TOGETHER AT ANY OTHER POINT IN ELECTRICAL SYSTEM EXCEPT AT DRY TYPE TRANSFORMERS (SEE SPECIFICATIONS).

EQUIPMENT GROUNDING/BONDING DETAIL
NOT TO SCALE



TYPICAL BRANCH CIRCUIT WIRING
NOT TO SCALE

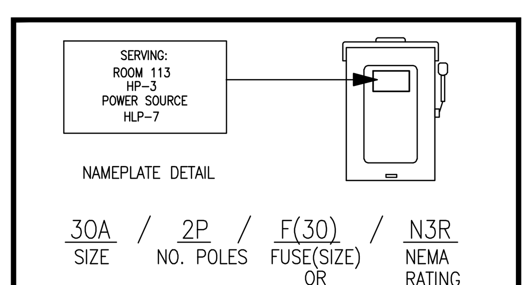
LEARNING CENTER



LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS(ALL MIN. 3500K)	MOUNTING	REMARKS
1P	STERNBERG	8930H/RE5G/CSA-CH28 HID 175MH-277/BK	1-175MMH	CHAIN MOUNT AT 10' AFF	PENDANT MOUNTED LANTERN TYPE FIXTURE-BLACK FINISH
1R	METALUX	2GR8232A125277VTEB81	(2)-32W (T8)/3500	RECESSED GRID	2X4 STATIC
2R	METALUX	2GR8332A125277VTEB81	(3)-32W (T8)/3500	RECESSED GRID	2X4 STATIC
21R	PORTFOLIO	C7042E/7451LI	(1)-42W TRT GRID	GRID	DWNLT W/8" AP.
26R	CORELITE	R1WB2N51277227I9	2-T5	RECESSED	2X2 R1 SHALLOW FIXTURE W/ MICROBAFFLE LENS
28R	METALUX	2AC 22BT5 277 L5835HL EBT1H WT	(2)-28W (T5)/3500	RECESSED	2X4 STATIC HIGH EFFICIENCY RECESSED DIRECT/INDIRECT W/ 1.15 BALLAST FACTOR
30R	PORTFOLIO	H7T 426	(1)-75W PAR30FL35'	RECESSED	DWNLT W/6" AP.
31R	METALUX	2GR8217T8A125277VEB81	(2)-31W (T8)U-LAMP	RECESSED GRID	2X2 STATIC
5S	METALUX	SS232277VEB81/WG/SS4FT	(2)-32W (T8)/3500	SURFACE	4' STRIP W/ WRGRD
10S	METALUX	CL115T8277VEB81	(1)-15W (T8)/3500	SURFACE	18" UNDERCOUNTER LIGHT
12S	METALUX	SML 128T5 277VEBT1	(1)-28W (T5)/3500	SURFACE IN TROUGH OR COVE	4' STAGGERED STRIP
13S	METALUX	SML 121T5 277VEBT1	(1)-21W (T5)/3500	SURFACE IN TROUGH OR COVE	3' STAGGERED STRIP
14S	io	0.03. S.O. 1.3K.65.102.1.03.4.277V	LED 3000K(2.1W PER FT.)	SURFACE IN CUPOLA	LED STRIP LIGHT-WHITE LIGHT COLOR
3W	METALUX	BC232277VTEB81	(2)-32W (T8)/3500	WALL	4' WALL BRACKET @ 7'6"
1X	SEE NOTE 2	PROVIDED BY SECURITY CONTRACTOR	LED	UNIVERSAL	SINGLE FACE EXIT W/ CHEV'S SEE NOTE 2

NOTES:
1. Suffix "b" on fixture indicates fixture is to be supplied with IOTA model ISD80 self diagnostic emergency battery pack.
2. ELECTRICAL CONTRACTOR TO CONNECT POWER ONLY. EXIT SIGN AND SECURITY CAMERA CABLING BY OTHERS.



EQUIPMENT DISCONNECT SIZE AND IDENTIFICATION DETAIL
NOT TO SCALE

LIGHTING CONTROL SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	MOUNTING
D_W	DUAL TECHNOLOGY WALL SWITCH/SENSOR - DW-100	WATT STOPPER		46"
D_{W2}	DUAL TECHNOLOGY WALL SWITCH/SENSOR DUAL RELAY - DW-200	WATT STOPPER		46"
P_W	PASSIVE INFRARED WALL SWITCH/SENSOR - DW-100	WATT STOPPER		46"
P_{W2}	PASSIVE INFRARED WALL SWITCH/SENSOR DUAL RELAY - DW-200	WATT STOPPER		46"
	CEILING MOUNTED ULTRASONIC SENSOR. 500SF	WATT STOPPER	W-500A	CEILING
	CEILING MOUNTED ULTRASONIC SENSOR. 600SF - WT-605	WATT STOPPER		CEILING
	CEILING MOUNTED ULTRASONIC SENSOR. 2200 SF W/RELAY - WT-2200	WATT STOPPER		CEILING
	CEILING MOUNTED HALLWAY SENSOR 90FT. W/RELAY -WT 2250	WATT STOPPER		CEILING
	DUAL VOLTAGE POWER PACK.	WATT STOPPER	BZ-100	ABV.CEILING
	DUAL TECHNOLOGY SENSOR WALL MOUNT	WATT STOPPER	DT 200	7'-6"
	DUAL TECHNOLOGY SENSOR CEILING MOUNT	WATT STOPPER	CX-100	
T_S	WALL MOUNT DIGITAL TIME SWITCH - TS - 400 OR EQUAL	WATT STOPPER	TS-400	46"
L_S	WALL MOUNT LIGHT SAVER DAYLIGHTING CONTROLLER LS-101	WATT STOPPER		
	PASSIVE INFRARED CEILING SENSOR	WATT STOPPER	WPIR	7'-6"

LEARNING CENTER - POWER CONNECTION SCHEDULE

MARK	LOCATION	DESCRIPTION	VOLTAGE/PHASE	LOAD KW	LOAD HP	LOAD FLA	BRANCH CIRCUIT	DISC. SW/FUSE	REMARKS
1	LC 101	AHU-1	480/3	-	15	21	3#10;1#10GND;3/4"C.	VFD SUPPLIED BY DIV. 15	1,4,7
2	LC 116	VAV 1-01	480/3	8	-	9.62	3#12;1#12GND;3/4"C.	SUPPLIED BY DIV. 15	1,4,5,7
3	LC 114	VAV 1-02	480/3	6	-	7.22	3#12;1#12GND;3/4"C.	SUPPLIED BY DIV. 15	1,4,5,7
4	LC 104	VAV 1-03	480/3	13	-	15.64	3#12;1#12GND;3/4"C.	SUPPLIED BY DIV. 15	1,4,5,7
5	LC 103	VAV 1-04A, 1-04B	480/3	11	-	13.23	3#12;1#12GND;3/4"C.	SUPPLIED BY DIV. 15	1,4,5,7
6	LC 108	VAV 1-05	480/3	7	-	8.42	3#12;1#12GND;3/4"C.	SUPPLIED BY DIV. 15	1,4,5,7
7	LC 114	VAV 1-06	277/1	3.5	-	12.64	2#12;1#12GND;3/4"C.	SUPPLIED BY DIV. 15	1,4,5,7
8	LC 115	VAV 1-07	480/3	5	-	6.01	3#12;1#12GND;3/4"C.	SUPPLIED BY DIV. 15	1,4,5,7
9	LC 111	WH-2	208/1	4.5	-	21.6	2#10;1#10GND;3/4"C.	30A/1P/(F)NF	1,3,7
10	LC 115	EF-1	120/1	-	1/4	5.8	2#12;1#12GND;3/4"C.	SUPPLIED BY DIV. 15	1,4,5,7

REMARKS:
1. CIRCUIT TO INCLUDE ONE (1) GREEN GROUNDING CONDUCTOR SIZED PER BRANCH CIRCUIT SIZE UNLESS SHOWN TO BE SIZED DIFFERENTLY. ALL CONDUCTORS TYPE THW.
2. DUAL ELEMENT TYPE FUSE AND SWITCH OF PROPER VOLTAGE. IF FUSE SIZE NOT SHOWN, UNIT TO BE UNFUSED.
3. FINAL CONNECTION USING LIQUID TIGHT FLEXIBLE CONDUIT.
4. FINAL CONNECTION USING FLEXIBLE CONDUIT.
5. MOUNT ABOVE CEILING.
6. WALL MOUNTED.
7. VERIFY ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER'S SHOP DRAWINGS
8. DISCONNECT SWITCH INTEGRAL WITH UNIT.
9. EACH FAN TO BE PROTECTED SEPARATELY.
10. USE RECEPTACLE IN ACCORDANCE WITH NEC TO INSTALL THIS DEVICE.
11. MOUNT DISCONNECT ON SIDE OF UNIT.
12. REFER TO WIRING DEVICES SECTION OF DIVISION 16 SPECS FOR SWITCHING REQUIREMENTS

PANEL LDP

PANEL: LDP | LOCATION: LC 109 | FED FROM: PNL N1D1 | INCIDENT ENERGY: 0.00 J/cm2 @ 0.00(mm)
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 480/277 | BOUNDARY: 0.00(mm)
MAINS(A): MLO | WIRING: 3-Phase 4-Wire | PPE Category:
CONTINUOUS(A): 400 | AIC RATING(A): 10000 | FAULT CURRENT(A): 7015

CUBICLE NO	DESCRIPTION	CONNECTED kVA	DEMAND kVA	DESIGN kVA	DESIGN MAX AMPS	DC DEVICE TYPE	SIZE	P	NOTES
1	PNL H1	81.96	81.96	102.45	133.76		225	3	
2	PNL L1	77.75	63.01	71.47	107.03		225	3	
3	SPARE	0.00	0.00	0.00	0.00		225	3	
4	SPARE	0.00	0.00	0.00	0.00		100	3	
5	SPACE	0.00	0.00	0.00	0.00		0	3	
6	SPACE	0.00	0.00	0.00	0.00		0	3	
7	TVSS	0.00	0.00	0.00	0.00		100	3	

ALL CONNECTED	KVA	MAX PH AMPS	PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	159.68	214.2	A-N	59364.7	214.2	CONNECTED	159.68
TOTAL DEMAND	144.94	199.1	B-N	51986.4	187.6	DEMAND	144.94
TOTAL DESIGN	173.87	240.5	C-N	48430.3	174.8	DESIGN	173.87

PANEL H1

PANEL: H1 | LOCATION: LC 109 | FED FROM: PNL LDP | INCIDENT ENERGY: 0.00 J/cm2 @ 0.00(mm)
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 480/277 | BOUNDARY: 0.00(mm)
MAINS(A): MLO | WIRING: 3-Phase 4-Wire | PPE Category:
CONTINUOUS(A): 225 | AIC RATING(A): 10000 | FAULT CURRENT(A): 6865

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
40 3		AHU-1	HVAC	17459	1	8486			2	7998	HVAC	VAV 1-01		15 3
''		''		-	3		8486		4	-		''		''
''		''		-	5			8486	6	-		''		''
20 3		VAV 1-03	HVAC	13003	7	6335			8	6003	HVAC	VAV 1-02		15 3
''		''		-	9		6335		10	-		''		''
''		''		-	11			6335	12	-		''		''
20 3		VAV 1-04A	HVAC	10999	13	7333			14	10999	HVAC	VAV 1-04B		20 3
''		''		-	15		7333		16	-		''		''
''		''		-	17			7333	18	-		''		''
15 3		VAV 1-05	HVAC	7000	19	5836			20	3503	HVAC	VAV 1-06		20 1
''		''		-	21		2333		22	0	GEN	SPARE		20 1
''		''		-	23			2333	24	0	GEN	SPARE		20 1
15 3		VAV 1-07	HVAC	4997	25	1666			26	-		SPACE		0 3
''		''		-	27		1666		28	-		''		''
''		''		-	29			1666	30	-		''		''
0 3		SPACE	GEN	0	31	0			32	0	GEN	SPACE		0 3
''		''		-	33		0		34	-		''		''
''		''		-	35			0	36	-		''		''
0 3		SPACE	GEN	0	37	0			38	0	GEN	SPACE		0 3
''		''		-	39		0		40	-		''		''
''		''		-	41			0	42	-		''		''

ALL CONNECTED	KVA	MAX PH AMPS	PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	81.96	107.0	A-N	29655.5	107.0	CONNECTED	81.96
TOTAL DEMAND	81.96	107.0	B-N	26152.6	94.4	DEMAND	81.96
TOTAL DESIGN	102.45	133.8	C-N	26152.6	94.4	DESIGN	102.45

PANEL L1

PANEL: L1 | LOCATION: LC 109 | FED FROM: PNL LDP | INCIDENT ENERGY: 0.00 J/cm2 @ 0.00(mm)
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 480/277 | BOUNDARY: 0.00(mm)
MAINS(A): MLO | WIRING: 3-Phase 4-Wire | PPE Category:
CONTINUOUS(A): 225 | AIC RATING(A): 10000 | FAULT CURRENT(A): 6816

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1		LTS-101-2,107-8,116	LTS	2674	1	4049			2	1375	LTS	LTS-COLLONADES		20 1
20 1		LTS-103,104	LTS	2513	3		2638		4	125	LTS	LTS-COLLONADES		20 1
20 1		LTS-109,111-113,115	LTS	1108	5			1108	6	0	GEN	SPARE		20 1
20 1		SPARE	GEN	0	7	0			8	0	GEN	SPARE		20 1
20 1		SPARE	GEN	0	9		0		10	0	GEN	SPARE		20 1
20 1		SPARE	GEN	0	11			0	12	0	GEN	SPARE		20 1
20 1		SPARE	GEN	0	13	23320			14	69959	NONE	PNL P1		125 3
20 1		SPARE	GEN	0	15		23320		16	-		''		''
20 1		SPARE	GEN	0	17			23320	18	-		''		''

ALL CONNECTED	KVA	MAX PH AMPS	PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	77.75	107.3	A-N	29745.7	107.3	CONNECTED	77.75
TOTAL DEMAND	63.01	92.3	B-N	25862.1	93.3	DEMAND	63.01
TOTAL DESIGN	71.47	107.0	C-N	22342.8	80.6	DESIGN	71.47

PANEL P1

PANEL: P1 | LOCATION: LC 109 | FED FROM: PNL L1 | INCIDENT ENERGY: 0.00 J/cm2 @ 0.00(mm)
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 208/120 | BOUNDARY: 0.00(mm)
MAINS(A): 250 | WIRING: 3-Phase 4-Wire | PPE Category:
CONTINUOUS(A): 250 | AIC RATING(A): 10000 | FAULT CURRENT(A): 5213

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1		LTS-116	LTS	938	1	1938			2	1000	REC	REC-109		20 1
20 1		LTS-117	LTS	750	3		1250		4	500	REC	REC-109		20 1
20 1		LTS-107	LTS	225	5			725	6	500	REC	REC-109		20 1
20 1		REC-109	REC	1000	7	2080			8	1080	REC	REC-101,109,110		20 1
20 1		REC-112	REC	360	9		1440		10	1080	REC	REC-101,102,106		20 1
20 1		REC-112	REC	720	11			1620	12	900	REC	REC-115		20 1
20 1		REC-107	REC	180	13	680			14	500	REC	REC-EDF		20 1
20 1		REC-103	REC	1000	15		1500		16	500	REC	REC-EDF		20 1
20 1		REC-103	REC	1000	17			1900	18	900	REC	REC-116		20 1
20 1		REC-116	REC	360	19	720			20	360	REC	REC-114		20 1
20 1		COPIER	DFF EQ	1441	21		2441		22	1000	GEN	PROJ 116 (SCRN)		20 1
20 1		REC-TABLE	REC	1000	23			2000	24	1000	GEN	PROJ 116		20 1
20 1		REC-108	REC	180	25	540			26	360	REC	REC-114		20 1
20 1		REC-108	REC	180	27		1021		28	841	REFRIG	REFRIGERATOR 114		20 1
20 1		DISHWASHER	FOODSER	1441	29			1801	30	360	REC	REC-114		20 1
20 1		REC-113	REC	360	31	1360			32	1000	GEN	PROJ 117 (SCRN)		20 1
20 1		REC-113	REC	720	33		2161		34	1441	DFF EQ	COPIER		20 1
20 1		MICROWAVE 114	FOODSER	1000	35			1900	36	900	REC	REC-117		20 1
50 2		RANGE	FOODSER	7904	37	4452			38	500	GEN	FACP		20 1
''		''		-	39		4952		40	1000	GEN	PROJ 117		20 1
20 1		REC-COMPRESSOR	REC	1201	41			2642	42	1441	REC	ICE MACHINE		20 1
20 1		REC-TABLE 117	REC	1000	43	2000			44	1000	REC	REC-TABLE 117		20 1
20 1		REC-TABLE 117	REC	1000	45		2000		46	1000	REC	REC-TABLE 117		20 1
20 1		REC-TABLE 117	REC	1000	47			2000	48	1000	REC	REC-TABLE 117		20 1
20 1		COPIER	DFF EQ	1441	49	2441			50	1000	REC	REC-TABLE 116		20 1
20 1		REC-103	REC	360	51		1360		52	1000	REC	REC-TABLE 116		20 1
20 1		REC-103	REC	540	53			1540	54	1000	REC	REC-TABLE 116		20 1
20 1		REC-103	REC	900	55	1900			56	1000	REC	REC-TABLE 116		20 1
20 1		REC-104	REC	720	57		1720		58	1000	REC	REC-TABLE 116		20 1
20 1		REC-104	REC	720	59			1720	60	1000	REC	REC-TABLE 116		20 1
20 1		REC-104	REC	180	61	1180			62	1000	REC	REC-TABLE 116		20 1
20 1		REC-104	REC	180	63		1180		64	1000	REC	REC-TABLE 116		20 1
20 1		REC-104	REC	180	65			1180	66	1000	REC	REC-TABLE 116		20 1
20 1		REC-104	REC	180	67	1621			68	1441	DFF EQ	COPIER		20 1
20 1		REC-104	REC	180	69		877		70	697	HVAC	EF-1		15 1
20 1		REC-104	REC	180	71			1621	72	1441	DFF EQ	COPIER 104		20 1
30 2		WH-2	WTR HT	4500	73	2667			74	500	REC	REC-VENDING LC104		20 1
''		''		-	75		2667		76	500	REC	REC-VENDING LC104		20 1
20 1		VF-1 ATTIC FANS (4)	HVAC	1345	77			1845	78	500	REC	REC-VENDING LC104		20 1
20 1		SPARE	GEN	0	79	0			80	0	GEN	SPARE		20 1
20 1		SPARE	GEN	0	81		0		82	0	GEN	SPARE		20 1
20 1		SPARE	GEN	0	83			0	84	0	GEN	SPARE		20 1

ALL CONNECTED	KVA	MAX PH AMPS	PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	69.96	208.7	A-N	22913.3	190.8	CONNECTED	69.96
TOTAL DEMAND	55.24	175.7	B-N	25058.3	208.7	DEMAND	55.24
TOTAL DESIGN	61.75	200.3	C-N	22494.1	187.3	DESIGN	61.75

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CONSULTING ENGINEERS
BROOKHAVEN, MS
ICT PROJECT NUMBER 8187.03

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PROJECT: IHL No. 208-267 A
DORMITORY REPLACEMENT LEARNING CENTER, PH II HATTIESBURG
THE UNIVERSITY OF SOUTHERN MISSISSIPPI

THE UNIVERSITY OF SOUTHERN MISSISSIPPI

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